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Technical Memorandum

2018 Remedial Investigation Status Report

To: Frank Winslow, Toxics Cleanup Program, WA Department of Ecology CRO

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From: Daniele Peters, EIT, Chris Rhea, LG, and Paul Ecker, LHG

Date: January 4, 2019

Regarding: Former DeBock's Texaco
100 West Wine Country Road, Grandview, Washington
Ecology Facility ID #94369212, Cleanup Site ID #6910, and VCP #6197
EES Project 2093-01



Christopher J. Rhea

This memorandum provides an update regarding Remedial Investigation (RI) findings through November 2018 at the former DeBock's Texaco Site located at 100 West Wine Country Road in Grandview, Washington (Property). RI activities are being conducted in response to historic gasoline release(s) associated with former site-fueling operations. Work activities described herein were conducted in accordance with the EES Work Plan dated December 18, 2017, and subsequent communications with the Christensen Inc. team and Ecology's site manager, Frank Winslow.

The site location and key features are illustrated on Figures 1 and 2.

BACKGROUND

SITE HISTORY

Available historical documentation indicates that the subject Property was developed by 1920, when the northeastern portion of the Property was in use as an automotive fueling and service station. These facility operations continued until 1995, when the fueling system was decommissioned and fueling activities ceased. Since 1995, the Property has been used for automotive service and maintenance activities.

While in operation, the most recent site-fueling infrastructure consisted of three single-walled steel underground gasoline storage tanks (USTs) with capacities of 8,000, 5,000, and 1,000 gallons. Fuel-distribution piping connected the USTs to a dispensing island located north of the station building, along West Main Street (now named West Wine Country Road). All three steel tanks reportedly stored gasoline, and the 5,000-gallon tank is known to have contained leaded gasoline. Diesel fuel is not known to have been stored or dispensed at this Property, although diesel heating fuel and oil-range

lubricants are expected to have been used. The three known USTs were removed, along with dispenser pumps, in 1995. Underground piping was emptied, capped, and left in place at the time of decommissioning. Note that the historic fueling system used during the 1920s-30s included a 550-gallon UST located near the northeast corner of the Property (see Figure 2). It is unclear when this tank was removed from service.

A gasoline release from the UST system was confirmed during 1995 decommissioning. Various follow-up investigation tasks conducted between 1996 and 2003 identified soil impacts originating at the dispenser island area, and gasoline-contaminated groundwater extended across the Site, including at upgradient locations both north and east of the Property in the city's right-of-way. Additional releases may also originate at one or more of the former UST and/or fuel piping locations, although no extensive shallow soil contamination has been identified to our knowledge except at the dispenser island area. Remedial excavation was conducted in 2003 to mitigate known gasoline impacts among dispenser area soils. Further RI and cleanup activities were deferred until 2017, when Ecology required an updated Site assessment. In October 2017 EES observed floating free-phase hydrocarbons (LNAPL) at one of three existing monitoring wells on the Property (MW-2), located near the downgradient western Property boundary. LNAPL was not previously reported at the Site. RI activities were resumed based on this information.

Details regarding this facility's prior operational history and environmental assessment information are provided in the 2017 RI work plan, generally illustrated on Figure 3, and compiled in attached Tables H1 and H2.

HISTORICAL HYDROLOGIC CONDITIONS

Historical groundwater-elevation data is limited for the DeBock's Property but indicates groundwater was as shallow as approximately 13 feet below ground surface (bgs) in 2000 (Table 1 and Chart 1). A more comprehensive dataset was collected at the nearby Time Oil cleanup site in the 2000s, which indicates shallow groundwater at depths of approximately 12 feet bgs (see ES Environmental Services' *Site Cleanup Action Report*, February 26, 2018). Based on this data, it appears the water table was historically present at the Site at depths as shallow as 12 to 13 feet bgs. Between October 2017 and November 2018, EES observed the Site water table at depths between approximately 18 and 22 feet bgs, indicating a significant drop in water table elevation over the past 20 years. The water table flows towards the southwest, which is generally consistent among current data (2018) and prior measurements reported by others.

REGULATORY STATUS

Based on confirmed historic releases originating from one or more USTs systems formerly located at the subject Property, environmental investigation and cleanup actions are required under Washington's Model Toxics Control Act (MTCA Chapter 173-340 WAC) and underground storage tank regulations (Chapter 173-360A WAC). Site assessment and interim cleanup conducted between 1995 and 2003 addressed many regulatory criteria but findings indicated that identified subsurface fuel impacts

exceeding MTCA numeric cleanup levels remain at the subject Property and were not fully characterized.

As directed by Ecology, Christensen Inc. initiated RI activities in October 2017 in an effort to identify and resolve investigative data gaps, and to complete site characterization tasks, such that final cleanup planning can be evaluated in compliance with the process established under MTCA.

RECENT RI WORK TASKS AND FINDINGS (4Q-2017 TO 4Q-2018)

Between October 2017 and November 2018, EES collected and analyzed subsurface data at and adjacent to the subject Property to address RI needs and MTCA Site characterization requirements. The focus of sampling efforts during this phase of work was to characterize and delineate Site contaminants to the extent possible. This investigative data will be used to work towards completion of the RI and to evaluate Site cleanup needs.

In addition to the presence of LNAPL at monitoring well MW-2, residual soil and groundwater impacts at the Property represent continuing sources of contamination that also extend beyond Property boundaries and have migrated to two commercial properties to the west, one commercial property to the southeast, and the adjacent public right-of-way to the north. At this time, we do not believe that underground utility corridors or other receptors are affected by Site releases.

UTILITY MAPPING

The location and construction of underground utilities and drainage structures at the Site are important data needs, since these features could be affected by or may modify contaminant distribution. The following information will be incorporated into development of the Conceptual Site Model as necessary.

Since March 2018 EES has coordinated with the City of Grandview Public Works Department to identify surrounding underground utility infrastructure and trench/conduit as-built construction to determine if utilities intercept the water table or are otherwise suspected of being potential contaminant migration pathways. EES also contracted Utilities Plus of Yakima, Washington to locate utilities and subsurface features at the Site before RI drilling work. Identified underground utilities at the Site include water, sanitary sewer, storm water conveyance piping, irrigation lines, electrical power, fiber-optic/communications, and natural gas lines, as illustrated on Figures 4 and 7A/7B/7C. Based on available data, utility corridors are present at depths ranging between approximately 2 and 8 feet. Since subsurface impacts have not been identified above 10 feet, underground utility features do not appear to be in direct contact with identified soil and groundwater contamination. Furthermore, the low levels of identified subsurface soil gas vapors are consistent with degraded gasoline source conditions and have not been identified at concentrations exceeding MTCA-screening levels for indoor air vapor intrusion, as discussed below. Based on these lines of evidence, contaminant migration into underground utility features is not anticipated at this time.

SURVEYING AND ACCESS

EES subcontracted PLSA (Yakima, Washington) to survey Property boundaries and locations/elevations of the entire Site monitoring well network. EES obtained access agreements as necessary for RI activities and planned future monitoring (see Figure 5).

INITIAL FREE PRODUCT ASSESSMENT, WELL REDEVELOPMENT, & BASELINE MONITORING EVENT

EES identified a 0.91-foot-thick LNAPL layer at well MW-2 during initial measurements on October 25 and November 7, 2017 (Table 1). Product thickness increased to 1.14 feet in February 2018. No LNAPL has been observed at the Site's other two monitoring wells during or since that time period, nor was free-product reported at any location during previous assessment work conducted between 1995 and 2003. The LNAPL source has not been confirmed but is consistent with available information regarding historical fueling infrastructure, operations, and releases at this Property.

In February 2018 EES collected a bulk product sample at MW-2 for hydrocarbon identification and volatile organic compound (VOC) analysis. Laboratory analysis identified gasoline-range hydrocarbons but no diesel- or oil-range hydrocarbons were detected in the product sample. As a preliminary assessment, benzene and toluene to ethylbenzene and xylenes (BT/EX) ratios indicate the gasoline product was extensively degraded. Other VOCs were absent or present at relatively lower concentrations in this MW-2 bulk sample, but detailed constituent analysis was not pursued due to the predominant gasoline signature and elevated method-reporting limits.

After the product sample was collected, EES developed the existing three-well network and collected samples from wells MW-1 and MW-3, where no LNAPL was present (wells MW-1 through MW-3 were installed in 1998; see Table H2). Groundwater samples collected from wells MW-1 and MW-3 were analyzed for gasoline-range and non-gasoline fraction petroleum, gasoline-related VOCs (including MTBE and low-level EDB as initially required under MTCA), and total and dissolved lead (see Table 5).

- February 2018 groundwater monitoring indicated gasoline concentrations between 121 ug/L (MW-3) and 928 ug/L (MW-1), slightly exceeding the MTCA Method A cleanup level of 800 ug/L (in the presence of benzene) but below the 1,000 ug/L cleanup level for benzene depleted gasoline.
- No BTEX or other gasoline related constituents were detected above laboratory MRLs in either of the initial groundwater samples collected.
- Diesel-range hydrocarbons were reported on a preliminary basis for both groundwater samples at concentrations between 269 and 866 ug/L, but these results appear due to gasoline degradation (the laboratory reported that the identified chromatographic patterns did not resemble the diesel standard used for quantitation).

EES returned to the Site initially on a monthly basis for one quarterly cycle to gauge the three-well network and evaluate LNAPL recovery following well development. LNAPL was not identified at MW-1 or MW-3 but returned to MW-2. After well development, product levels at well MW-2 decreased slightly to a maximum thickness of about 0.59 feet, or nearly 50% of the maximum observed pre-development LNAPL thickness of 1.14 feet. Based on the continued presence of LNAPL, beginning in

May 2018 EES initiated monthly product skimming using a disposable bailer or peristaltic pump with disposable tubing as a simple and very limited interim remedial action.

SOIL AND GROUNDWATER INVESTIGATION AND GROUNDWATER MONITORING PROGRAM

In an effort to characterize the lateral and vertical extent of Site contamination, EES advanced 17 investigative soil borings (B1 through B17) at the Site, including neighboring properties and adjacent public sidewalk and alley right-of-way areas (Figure 5). Nine of these borings were converted to permanent groundwater monitoring wells (MW-4 through MW-12). Boring locations were intended to (1) evaluate potential source-areas including former fuel UST locations, transmission piping, and the dispenser island; (2) delineate the inferred downgradient (southern and western) plume margins; (3) characterize contaminants that may extend beyond Property boundaries; and (4) establish inferred upgradient soil and groundwater conditions immediately north and east of the Property.

In March and April 2018 drilling and well-installation activities were conducted by Cascade Drilling (Woodinville, Washington). Drilling activities were conducted using direct-push methods to terminal depths of approximately 25 feet below ground surface ("bgs"). Borings were hand-augered at shallow depths as a precaution to avoid subsurface infrastructure and unmarked features. Soil recovery was adequate within both the unsaturated and saturated zones, and drilling equipment was able to penetrate the water table for effective groundwater sampling at all boring locations. Soil boring and well locations are shown on Figure 5. Field boring and well construction logs are provided as Attachment A.

Soil and groundwater samples collected at each drilling location were analyzed primarily for gasoline-related contaminants (gasoline, BTEX, and naphthalene). Analyses for other potential gasoline additives, including 1,2-dibromoethane (EDB), 1,2-dichloroethane (EDC), methyl tert-butyl ether (MTBE), and lead, were also conducted among several representative source-area samples to address MTCA compliance requirements. Diesel-range hydrocarbon testing was also conducted on selected samples. Soil analytical findings are presented in Tables 2 and 3, illustrated on Figures 6 and 7A/7B/7C, and summarized below. Groundwater analytical findings are presented in Tables 4 through 6, illustrated on Figures 8A/8B/8C and 9, and summarized below. Copies of soil and groundwater laboratory analytical reports are included in Attachment B.

SOIL CONDITIONS AND FIELD OBSERVATIONS

Approximately half of the Property's ground surface is paved with concrete, with gravel fill subgrade extending to approximately one-foot bgs. Adjacent city sidewalks are concrete. The parking area to the south of the Property building has an unpaved gravel surface. The remainder of the Site, including areas west of the Property building and surrounding the Javi's Chicken and Churros restaurant (formerly M & J Tavern), are unpaved and consist primarily of native soil with minimal vegetation. The city alley to the south of the Property is paved with asphalt. An approximately one-inch-thick asphalt layer was encountered below surface soil just west of the Property building (borings B6 and B7).

Subsurface conditions were relatively uniform across the Site. Brown to gray native soil consisting of silty fine to medium sands and sandy silts was observed extending to maximum depths explored of approximately 25 feet bgs. At borings B4 and B9 located in previously excavated areas, pea gravel and non-native fill were observed below surface cover to depths of approximately 13-14 feet bgs, respectively. Based on the granular subsurface fill conditions, laboratory analyses were not performed on fill materials at borings B4 and B9.

Very slight organic sheen and trace headspace vapor concentrations (less than one part per million by volume [ppmV] measured using a photoionization detector [PID]) were observed at depths shallower than 12 feet bgs at several boring locations. Slight sheen was observed in native soil at borings B10 and B11 at three feet bgs, and headspace vapors were measured at boring B5 at 2.6 ppmV at five feet bgs. Soil samples collected from these borings/depths were submitted for analytical testing, and no gasoline or related constituents were detected above laboratory method reporting limits (MRLs). No other signs of suspect hydrocarbon contamination were observed or identified by field screening or analytical testing in vadose zone soils above the inferred historical water table smear zone (shallower than 12 feet bgs).

Indications of deeper residual soil impacts were observed across the Site in the groundwater smear zone at depths between approximately 12 and 22 feet bgs, including at borings B1 and B4 located adjacent to historical fueling infrastructure and within the inferred core of the groundwater plume. Obvious gross-scale smear zone impacts were also observed near the B1 and B4 source areas at borings B15 (MW-10) and B3, respectively. To some degree, smear-zone soil impacts attributed to historically higher water table surfaces were observed at all boring locations except boring B10 to the south of the former 5,000- and 8,000-gallon UST cavity. Notably, smear-zone and saturated-zone soil impacts do not necessarily correlate with unacceptable groundwater contamination at plume margins (B2/B5/B13 soil vs. MW-4/MW-5/MW-7 groundwater). Details are provided below.

SOIL ANALYTICAL TESTING RESULTS

During 2018 investigation activities, a total of 61 soil samples collected from 17 borings were analyzed for petroleum hydrocarbons and related contaminants of interest. No contaminants were identified among the 18 samples collected from shallow soils within 12 feet of the ground surface, nor were contaminants identified among any of the eight soil samples collected at depths of 25 feet. But relatively uniform and extensive gasoline contamination was encountered across much of the Site at depths between approximately 12 and 22 feet, which is consistent with the expected range of water table fluctuation and smear-zone conditions. Residual contamination therefore remains within smear-zone and shallow saturated-zone soil matrix and is generally co-located with the groundwater plume. Supporting information is summarized below and attached.

- Among impacted soils between 12 and 22 feet bgs, gasoline concentrations ranged up to 22,300 mg/kg, with 26 samples exceeding the default MTCA Method A cleanup level of 30 mg/kg. Among this sample set, 11 exceeded the Method B gasoline cleanup level of 1,500 mg/kg for direct contact as published in recent Ecology guidance (Ecology 2017). The greatest gasoline concentrations were observed at the former fuel dispenser source-area (boring B4), and generally diminish laterally with distance. Other locations where gasoline concentrations

approached or exceeded 5,000 mg/kg included B3 (east of B4), B1 and B15 (west of the dispenser area and near a former UST location), and B7 and B9 (south/southwest of the shop building near old UST and piping locations). These three general locations may represent distinct gasoline source areas related to historic facility fueling operations. A saturated-zone soil sample collected at downgradient boring B13 (MW-7) indicated degraded gasoline at 4,530 mg/kg; gasoline was not detected in shallower or deeper soil samples collected from the same boring and groundwater at this location was not impacted based on 2018 monitoring data.

- Gasoline constituents, where present, are significantly degraded. As is the case with other subsurface media (groundwater and soil gas), soil samples with high gasoline concentrations uniformly have benzene and toluene concentrations near or below analytical method reporting limits. For example, only three of 61 soil samples contained benzene concentrations exceeding the MTCA Method A cleanup level of 0.03 mg/kg, with a maximum of 0.078 mg/kg. This maximum value is less than three times the Method A cleanup level, which meets Ecology's recently-defined criteria as "not significantly exceeding" protective levels (see Ecology Implementation Memos No. 15 and No. 18 (Ecology 2016b, 2018a). Laboratory analysis for gasoline additives such as EDB, EDC, MTBE, and lead was not performed on Site soil samples since the compounds were not detected in Site groundwater.
- Naphthalene concentrations in soil ranged up to 126 mg/kg (boring B4 near the former fuel dispenser source-area), with nine of the 61 samples exceeding the default MTCA Method A cleanup level of 5 mg/kg and none exceeding the Method B cleanup level of 160 mg/kg.
- Four soil samples containing the greatest gasoline concentrations were selected for lead analysis. Total lead was detected among these samples but at relatively low concentrations (7.6 to 12 mg/kg) that are consistent with naturally-occurring conditions (Ecology 1994) and far below the MTCA Method A cleanup level (250 mg/kg).
- Diesel-range hydrocarbon analysis was performed on five selected soil samples collected from representative Site locations and where elevated gasoline concentrations were identified. Diesel was detected in two samples, at concentrations up to 342 mg/kg, which is well below the default MTCA Method A cleanup level of 2,000 mg/kg. Where identified, the analytical laboratory indicated the presence of diesel was due to overlap from the gasoline range.
 - The most highly-contaminated soil sample where both gasoline and diesel were initially identified (B4-17) was analyzed for polynuclear aromatic hydrocarbons (PAHs), which are diesel constituents. No PAHs (except naphthalene as discussed above, and trace levels of phenanthrene and pyrene) were detected. Where detected, these PAH concentrations were many orders of magnitude below MTCA Method A and B cleanup levels. Naphthalene is also associated with gasoline and therefore not characteristic of a diesel release.
 - Based on these findings, diesel does not appear to be a contaminant of interest at the Site.

WATER TABLE CONDITIONS

Site groundwater conditions were evaluated based on recent data obtained from eight temporary borings (B1, B3, B4, and B6 through B10) and 12 monitoring wells (MW-1 through MW-12). EES conducted preliminary monitoring events at the Site's three older original wells (MW-1 through MW-3) between October 2017 and February 2018, then initiated quarterly groundwater monitoring among the expanded 12-well network in April, July, and October 2018. Continued quarterly

monitoring is planned for January 2019, at which time the need, if any, for continued RI monitoring will be discussed with Ecology. Groundwater elevation data is presented on Table 1.

In order to evaluate the lateral extent of groundwater impacts at the Site, samples were submitted for gasoline and related constituent laboratory analyses. Note that groundwater samples were generally not analyzed at MW-2 due to persistence of LNAPL at that well, although MW-2 groundwater was sampled and analyzed in July when only a sheen was observed.

The Site water table flowed to the southwest as measured during the April, July, and October quarterly events (Figures 8A/8B/8C). This southwesterly flow direction is consistent with historical site information (Olympus, 04/13/1998 and 01/24/2001) and data from the nearby Grandview Market/Food Mart/Time Oil site (ES Engineering, 02/26/2018).

During the 2017-2018 monitoring period, the water table has fluctuated seasonally between approximately 18 and 22 feet bgs, with the higher elevations generally corresponding to irrigation season (April through October) and seasonal lows expected between early winter and early spring (to be verified). As illustrated in Chart 1, historical water table elevation data from the Debock's Site and the nearby Time Oil site indicate that the water table was approximately five to six feet higher during the period observed between 1998 and 2007 compared to the 2017-2018 elevation data. Seasonal water table fluctuations as shallow as 12 feet below ground surface were repeated and consistent throughout the 1997-2007 timeframe, when groundwater contamination is known to have been present at the Site, which explains how vadose-zone soil impacts are present at depths between 12 and 18 feet, above the current high-water table elevations. Water table fluctuations relative to contaminant distribution are also illustrated schematically in Figures 7B and 7C.

LOCAL BENEFICIAL WATER USE

A Beneficial Water Use Determination (BWUD) is under preparation and expected to be completed in early 2019. Based on research to date, groundwater in the vicinity of the Site does not appear to be used for drinking, irrigation, or other beneficial use purposes. No groundwater discharges to surface water have been identified at this time.

GROUNDWATER ANALYTICAL TESTING RESULTS

Recent analytical data delineate the general extent and magnitude of gasoline contamination in Site groundwater, as illustrated in Figure 9 and described below. Based on RI findings, the core of the plume where both gasoline and benzene exceed MTCA Method A cleanup levels appears centered near the former dispenser island area (MW-12) and along western margins of the Property near B1, B6, and MW-2. Plume concentrations exceeding MTCA Method A cleanup levels for gasoline (800 ug/L) cover most of the subject Property and extend slightly beyond Property boundaries to the west and north. An adjacent restaurant located immediately south of the Property's shop building is also underlain by portions of this gasoline plume. This report will be shared with affected neighboring property owners.

Supporting information is summarized below and attached.

- Between October 2017 and February 2018 and before well re-development, LNAPL at well MW-2 was measured at a thickness of up to 1.14 feet. After a three-month post-development

recovery period, LNAPL at MW-2 had re-accumulated to a thickness of 0.59 feet. Monthly product skimming at MW-2 was initiated in May 2018. Subsequent LNAPL thicknesses decreased during summer months and remained at approximately 0.1 feet thick through November 2018. LNAPL thickness trends at MW-2 are illustrated on Chart 2. LNAPL has not been observed at any other Site wells since monitoring began in 2017. The LNAPL source has not been confirmed but is consistent with available information regarding historical fueling infrastructure, operations, and releases at this Property.

- Groundwater samples collected in 2018 from temporary borings and the well network indicate gasoline and benzene remain in groundwater at concentrations exceeding Method A cleanup levels of 800 and 5 ug/L, respectively, with the gasoline plume extending across much of the subject Property and extending beyond Property boundaries in several locations. Free product gasoline at MW-2 by default exceeds MTCA cleanup action criteria. Figure 9 illustrates the generalized plume distribution and MTCA groundwater cleanup level exceedances.
 - Other than LNAPL at well MW-2, within the plume core the greatest dissolved gasoline and benzene concentrations during this timeframe were observed at boring B1 (7,240 and 31 ug/L, respectively), located at a former UST and piping area near the Property's northwestern corner. Elsewhere on the Property, relatively high plume concentrations suggest historical source areas including the former dispenser island (B4 and MW-12), the southernmost former UST/piping area (MW-8, B8), and the western Property margin where old fuel system piping may remain in place (MW-2, B6, B7).
 - As illustrated in Chart 3, increased concentrations of gasoline and benzene were initially observed at Site wells within or near the plume core during seasonal low-water conditions (April 2018). Conversely, decreased hydrocarbon concentrations were observed during high-water conditions associated with the irrigation season (July and October 2018). Broader seasonal data will be collected in January 2019.
- Naphthalene was detected in 13 of 44 groundwater samples collected to date in 2018. Only two of these samples (boring B1 at 162 ug/L and well MW-2 at 193 ug/L) exceeded the MTCA Method A groundwater cleanup level for naphthalene of 160 ug/L.
- Total and dissolved lead concentrations among developed monitoring wells appear generally similar and are uniformly below the MTCA Method A cleanup level of 15 ug/L. Among temporary borings where turbid water conditions are common, total lead concentrations were generally higher (28 ug/L maximum observed in March 2018), but more representative dissolved concentrations were observed at trace levels and far below the cleanup criteria. Based on these data, lead is not regarded as a contaminant of interest at the Site.
- Eleven groundwater samples were analyzed for diesel-range hydrocarbons. Diesel was identified in nine of the eleven samples at concentrations ranging up to 1,070 ug/L. All the identified diesel concentrations were attributed by the laboratory to be due to gasoline overlap and not representative of a diesel source.
 - Four of the most highly-contaminated groundwater samples were selected for supplemental PAH analysis to verify the absence of diesel contribution. No PAHs were detected above MTCA Method A cleanup levels. Other than naphthalene (attributed to the gasoline contamination) and a trace concentration of phenanthrene, PAHs were not detected among any of the four groundwater samples.

- Based on these data, and consistent with soil analytical testing, diesel is therefore not regarded as a contaminant of interest in groundwater at the Site.

“TIER 1” VAPOR INTRUSION ASSESSMENT

Under MTCA the vapor-intrusion pathway must be evaluated regarding potential impacts related to petroleum contamination (WAC 173-340-740(3)(c)). On March 14, 2018, EES conducted an initial “Tier 1” Vapor Intrusion Assessment (VIA) in accordance with published Ecology guidance to determine whether gasoline vapors were present near Site buildings and other perimeter locations. Existing features above or adjacent to soil and/or groundwater impacts and subject to possible gasoline vapor migration include the Property’s automotive maintenance shop building, three neighboring commercial properties, and a city-owned alleyway and underground utilities.

Soil gas sampling focused on locations adjacent to the existing automotive shop building and Property boundary and near the adjacent commercial properties to the west and southeast, as shown on Figures 5 and 10. Subsurface sampling activities in the alley south of the Property were limited by the presence of multiple underground utility features (see Figure 4). Drilling activities were performed by Cascade Drilling (Woodinville, Washington) using a direct-push drill rig equipped with post-run tubing (PRT) vapor-sampling equipment. At borings SG1 through SG9, soil gas samples were collected at depths of five feet below the ground surface. No under-building (sub-slab) vapor sampling or indoor/outdoor air sampling was conducted under this Tier 1 assessment. Soil gas sampling was conducted in accordance with EES Standard Operating Procedures and standard published technical guidance (Ecology 2016a and 2018b; EPA 2015; ITRC 2014). Quality control and leak-check measurements indicated no recognized sample collection problems or leaks. Field soil gas data sheets are provided in Attachment C.

SOIL GAS ANALYTICAL RESULTS

Relatively low concentrations of gasoline and related vapors were measured across the Site, but no regulatory vapor intrusion screening criteria were exceeded among these samples, with the exception of a very slight naphthalene exceedance at source-area sample location SG7. Note that soil gas screening levels are not intended as cleanup criteria but were developed by Ecology to represent soil gas conditions that are expected to be protective of indoor air based on certain vapor intrusion assumptions for typical adjacent building settings.

The Site’s greatest soil gas concentrations for this event were measured adjacent to the former fuel dispenser island source area and diminished laterally with distance. Soil gas analytical results are summarized below, presented in Table 7, and illustrated on Figure 10. Laboratory analytical reports are provided in Attachment D.

- Gasoline was detected at two of the nine soil gas sample locations. The greatest gasoline vapor concentration (280 micrograms per cubic meter [$\mu\text{g}/\text{m}^3$]) was identified at SG7, located in the former fuel dispenser area. Relatively lower gasoline vapor ($90 \mu\text{g}/\text{m}^3$) was observed at sample SG2, located along the western Property boundary within 10 feet of where LNAPL is present at monitoring well MW-2. Subsurface gasoline vapors were not detected elsewhere at the Site, including multiple other sample locations directly above the groundwater plume. No standardized soil gas screening levels have been published by Ecology for gasoline in soil gas,

although, for comparison, the indoor air cleanup level (not directly applicable to these soil gas data) was recently established at 140 ug/m³ (Ecology 2018a).

- Benzene was measured in all but one of the nine soil gas samples at concentrations ranging between 0.38 and 4.8 ug/m³. All identified benzene concentrations were well below the corresponding 10.7 ug/m³ MTCA Method B screening level for shallow soil gas. Note that MTCA soil gas screening levels are also published for other gasoline-related volatiles as cited in Table 7 and none exceeded screening criteria except for a single naphthalene sample as discussed below. Benzene is used here for discussion purposes as a conservative and protective surrogate representing gasoline-related vapor constituents.
- Naphthalene was not detected at seven of the nine Site-wide soil gas locations. Where detected, naphthalene at source-area sample SG7 (2.5 ug/m³) was essentially equivalent to the MTCA Method B soil gas screening level of 2.45 ug/m³. The other naphthalene detection (SG6 at 0.59 ug/m³), was far below the screening level and observed near the groundwater plume's downgradient margin.

NATURAL BIODEGRADATION OF GASOLINE VAPORS

In order to evaluate petroleum vapor biodegradation in the subsurface, EES measured subsurface oxygen, carbon dioxide, and methane concentrations during soil gas sampling activities. Natural petroleum aerobic biodegradation is expected to occur in the subsurface if sufficient oxygen (greater than about 2%) is present. Conversely, when oxygen levels are less than 2%, the rate of aerobic biodegradation decreases, vapors may travel further before being biodegraded, and methane may be produced (Ecology 2016a; EPA 2015; ITRC 2014). Anaerobic biodegradation of some petroleum hydrocarbons may occur under certain soil conditions but is generally regarded as a slower process compared to aerobic biodegradation.

Strongly aerobic conditions with oxygen levels between approximately 17 and 21% were measured at all nine soil gas sampling locations (Table 7). Compared to sampling locations near the groundwater plume margins (SG4, SG6, SG9), carbon dioxide concentrations were generally greater among soil gas samples positioned above more highly concentrated portions of the groundwater plume (SG1, SG2, SG3, SG7, SG8), which is consistent with expectations for increased metabolic rates of petroleum-degrading microbes at those locations. Carbon dioxide observed in the alley at SG5, which is adjacent to clean downgradient well MW-6, may be associated with conditions near adjacent sewer lines or other factors.

These observations indicate highly aerobic and biodegrading soil conditions generally occur at the Site, including vadose-zone locations directly above the groundwater plume. The measured biodegradation conditions are also consistent with observed gasoline and related VOC soil gas concentrations and distribution patterns.

IMPLICATIONS FOR FUTURE VAPOR INTRUSION ASSESSMENT

As required under MTCA and consistent with published Ecology guidance, soil gas testing conducted in March 2018 provides broad characterization of subsurface vapor conditions throughout the Site. Petroleum vapor concentrations measured Site-wide during this Tier 1 VIA work were uniformly below MTCA screening criteria, except for a single, very slight naphthalene exceedance at soil gas sample SG7 located near the former fuel dispenser source-area. The soil gas investigation findings also demonstrate

strongly aerobic conditions conducive to biodegradation of gasoline-related soil vapors in the vadose-zone, even in areas where groundwater plume concentrations remain relatively high and/or where LNAPL has been observed at MW-2. Other factors minimizing VI concerns include:

- The primary contaminant sources (USTs and obviously contaminated source-area soils) have been removed.
- Gasoline-related VOCs, particularly benzene, are generally absent or significantly depleted.
- Lead scavengers (EDB/EDC) have not been identified among any of the soil, groundwater, or soil gas samples.
- Site-wide gasoline contamination is relatively old and degraded.
- The groundwater plume appears to be stable.
- The water table plume is present at depths approaching 20 feet.
- Soil contamination has not been identified within 10 feet of the ground surface. Identified utilities are generally present within three to five feet of the surface, with none known to be present below eight feet.
- The Property's shop building is constructed as slab-on-grade, with no basement or crawl space. Although the groundwater plume underlies neighboring buildings to the west (Javi's Chicken and Churros [formerly M & J tavern]) and south (El Campestre restaurant) where basement areas are present, those basements do not appear to be in direct contact with contaminated soil and are separated from groundwater vertically by over 10 feet.

These findings indicate petroleum vapor intrusion appears unlikely at the Site and, based on our understanding of Ecology's published guidance and MTCA criteria, no further VIA work appears necessary at this time.

CONCLUSIONS AND RECOMMENDATIONS

Based on the site's regulatory status, Christensen, Inc. authorized EES to complete the RI and evaluate future cleanup needs as required under MTCA. This status report presents the findings of recent investigation activities conducted in support of the RI between October 2017 and November 2018. RI findings are summarized as follows:

- Free-phase (LNAPL) gasoline is present on the water table at monitoring well MW-2, located along the western (downgradient) property boundary. The original source of contamination at this location is not precisely known, although LNAPL appears very localized and has not been identified at any other surrounding locations. Product thicknesses at MW-2 have decreased since initiation of periodic LNAPL skimming in early 2018.
- Elsewhere at the site, relatively high concentrations of residual gasoline were identified near the former fuel dispenser area north of the shop building, where both soil and groundwater impacts exceed MTCA Method A and Method B cleanup levels.
- Shallow soil contamination within 10 feet of the ground surface has not been identified. Where observed, gasoline-related impacts exceeding MTCA Method A cleanup levels are present in deeper vadose-zone soils within the fluctuating water table "smear-zone," which is not shallower than approximately 12 feet in depth and extends up to about 22 feet deep. Residual

gasoline mass appears generally co-located with the groundwater plume, and this smear-zone represents a continuing source of contamination and contaminant migration into groundwater. Deeper soil impacts were not identified among any of the saturated-zone samples collected site-wide at 25 feet bgs, indicating the vertical extent of contamination is defined.

- Although shallow soil impacts were not identified during 2018 investigation work, historical releases are known to have occurred at the fuel dispenser island and in some manner at each of the former UST cavity areas, where soil impacts may persist beyond the prior excavations. Old fuel distribution piping appears not to have been removed along the west side of the shop building, including areas where relatively high groundwater plume concentrations have been identified (MW-2, B1, B7, B8, B9 areas), indicating possible residual soil sources near these locations. Additional source-areas may be present elsewhere at the Property and at upgradient off-Property areas (north and east of the Property) based on soil and groundwater results.
- Dissolved-phase gasoline contamination in groundwater exceeding MTCA Method A cleanup levels is present across much of the subject Property and extends beyond Property boundaries to the west (beneath the Javi's restaurant building) and to the north (beneath the city sidewalk). Further to the west at the Perez property, groundwater contaminant levels observed to date approach but have not exceeded MTCA Method A criteria. The plume also extends beneath the adjacent El Campestre restaurant building, which directly adjoins the southeast portion of the subject Property's shop.
- Gasoline concentrations in groundwater may correlate seasonally with fluctuating water table conditions at the Site (Chart 3). Winter groundwater sampling at the Site is scheduled for January 2019.
- Residual soil and groundwater impacts are extensively degraded, with relatively minimal volatile organic constituents remaining.
- Gasoline-related subsurface vapors are present in shallow soils but were identified at low concentrations that do not exceed MTCA screening levels for vapor intrusion into buildings except for a very slight naphthalene exceedance identified near the former fuel-dispenser island source-area.
- Diesel and PAH fuel impacts are not anticipated and should be eliminated from further evaluation under this RI. Although diesel-range hydrocarbons have been identified in Site soil and groundwater samples, laboratory results indicate these detections are likely due to overlap from degraded gasoline and not indicative of separate diesel sources.

Based on these recent findings, EES believes that contaminant delineation has been largely characterized. The source(s) of contamination identified near MW-2, B1, B7, B9, and MW-8 are not fully defined and may require additional investigation before proceeding with final Site cleanup planning. Except for possibly the B1 area (former 1,000-gallon UST and piping location) the existing monitoring well network generally addresses MTCA requirements for plume delineation, subject to review and concurrence from Ecology.

Continued seasonal groundwater monitoring is necessary for compliance with MTCA requirements to demonstrate plume stability over a full year and will be continued in January 2019 at a minimum.

These findings should be provided to Ecology and affected neighboring property owners. Supplemental RI tasks, if necessary, will be discussed with you and Ecology.

ATTACHMENTS

Figure 1: Vicinity Map
Figure 2: Site Features
Figure 3: Monitoring Well and Historic Sample Data
Figure 4: Utility Layout
Figure 5: Sample Locations 2018
Figure 6: Soil Analytical Results March-April 2018
Figure 7A: Cross Section Locations
Figure 7B: Cross Section A-A'
Figure 7C: Cross Section B-B'
Figure 8A: Groundwater Elevation Contours April 24-25, 2018
Figure 8B: Groundwater Elevation Contours July 17, 2018
Figure 8C: Groundwater Elevation Contours October 22, 2018
Figure 9: Groundwater Analytical Results February-October 2018
Figure 10: Soil Gas Analytical Results March 14-15, 2018

Table H1: Historical Soil Analytical Results – Fuels and Related Constituents
Table H2: Historical Groundwater Analytical Results
Table 1: Groundwater Elevation and Product Thickness Data
Table 2: Soil Analytical Results – Fuels and Related Constituents
Table 3: Soil Analytical Results – Polynuclear Aromatic Hydrocarbons
Table 4: Groundwater Field Parameters
Table 5: Groundwater Analytical Results – Fuels, Volatile Organic Compounds and Lead
Table 6: Groundwater Analytical Results – Polynuclear Aromatic Hydrocarbons
Table 7: Soil Vapor Analytical Results – Gasoline and Volatile Organic Compounds

Chart 1: Historic vs. Current Water Table Elevations
Chart 2: Product Thickness Trend
Chart 3: Groundwater Elevation vs. Gasoline Concentrations in Groundwater

Attachment A: Soil Boring and Monitoring Well Construction Logs
Attachment B: Soil and Groundwater Laboratory Analytical Reports
Attachment C: Soil Gas Field Data Logs
Attachment D: Soil Gas Laboratory Analytical Reports

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Ecology, 1994. *Natural Background Soil Metals Concentrations in Washington State (Publication No. 94-115)*. October 1994.

Ecology, 2016a. *Implementation Memorandum No. 14: Updated Process for Initially Assessing the Potential for Petroleum Vapor Intrusion (Publication No. 16-09-046)*. Washington Department of Ecology. March 31, 2016.

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Figures

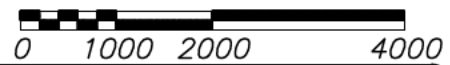
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SOURCE:
USGS, GRANDVIEW QUADRANGLE
WASHINGTON-YAKIMA CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



APPROXIMATE SCALE IN FEET



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SITE VICINITY MAP

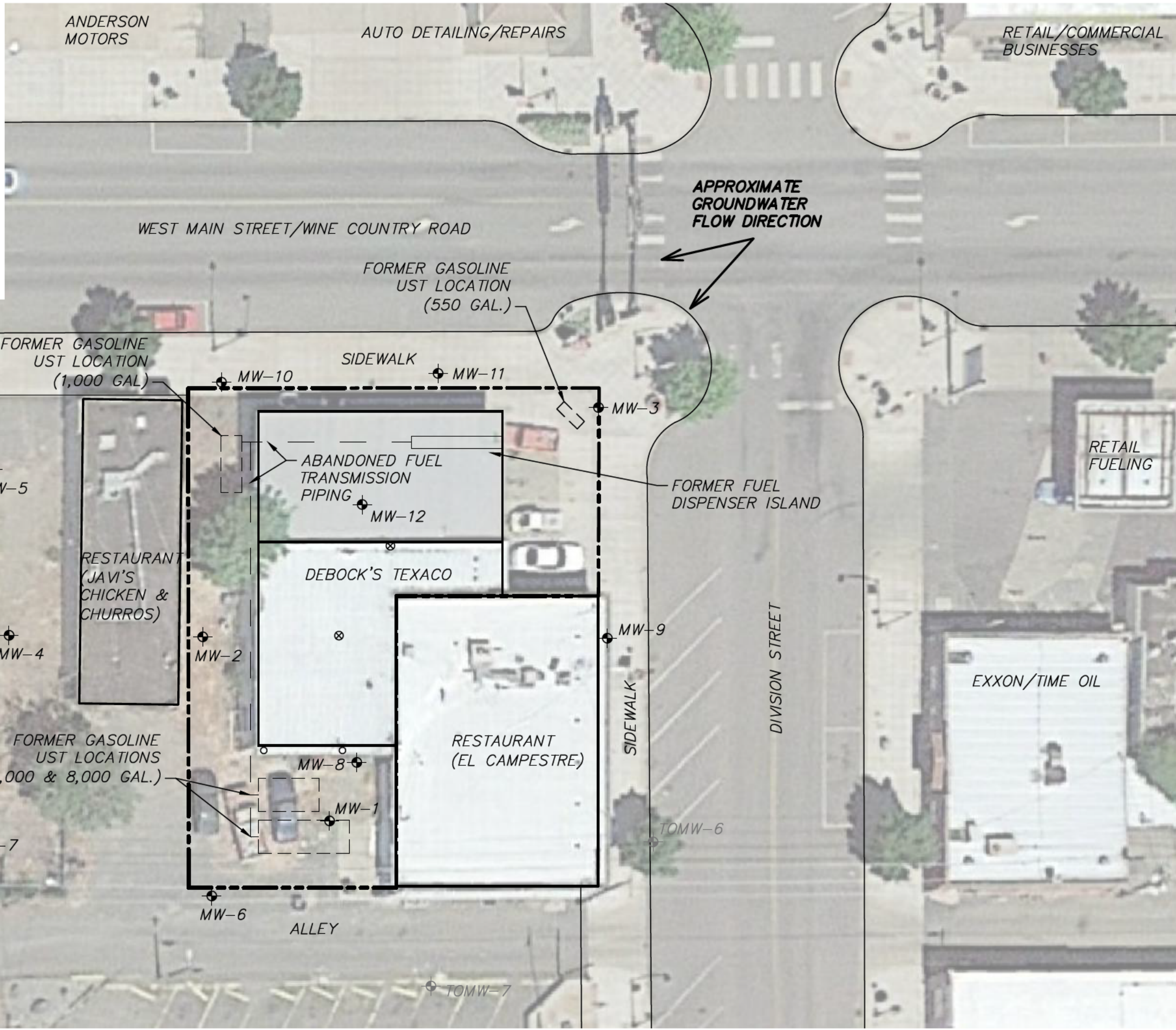
DEBOCK'S TEXACO
100 WEST MAIN ST.
GRANDVIEW, WA.

DATE: 8-30-18	PROJECT NO. 2093-01
FILE: 2093-01	FIGURE NO. 1
DRAWN: JJT	
APPROVED: CJ	

LEGEND

- PROPERTY LINE
- BUILDING
- ROADWAY
- MW-1 MONITORING WELL
- TOMW-6 TIME OIL MONITORING WELL
- DRAIN
- UST FILL PORT
- FORMER UST LOCATIONS

SITE FEATURES ARE APPROXIMATE.



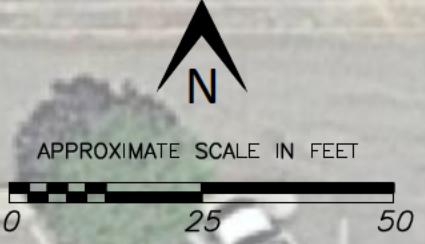
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FILE:	2093-01	DRAWN:	JJT
		APPROVED:	DBP
		FIGURE NO.:	2

SITE FEATURES







DEBOCK'S TEXACO
100 WEST MAIN ST.
GRANDVIEW, WA.

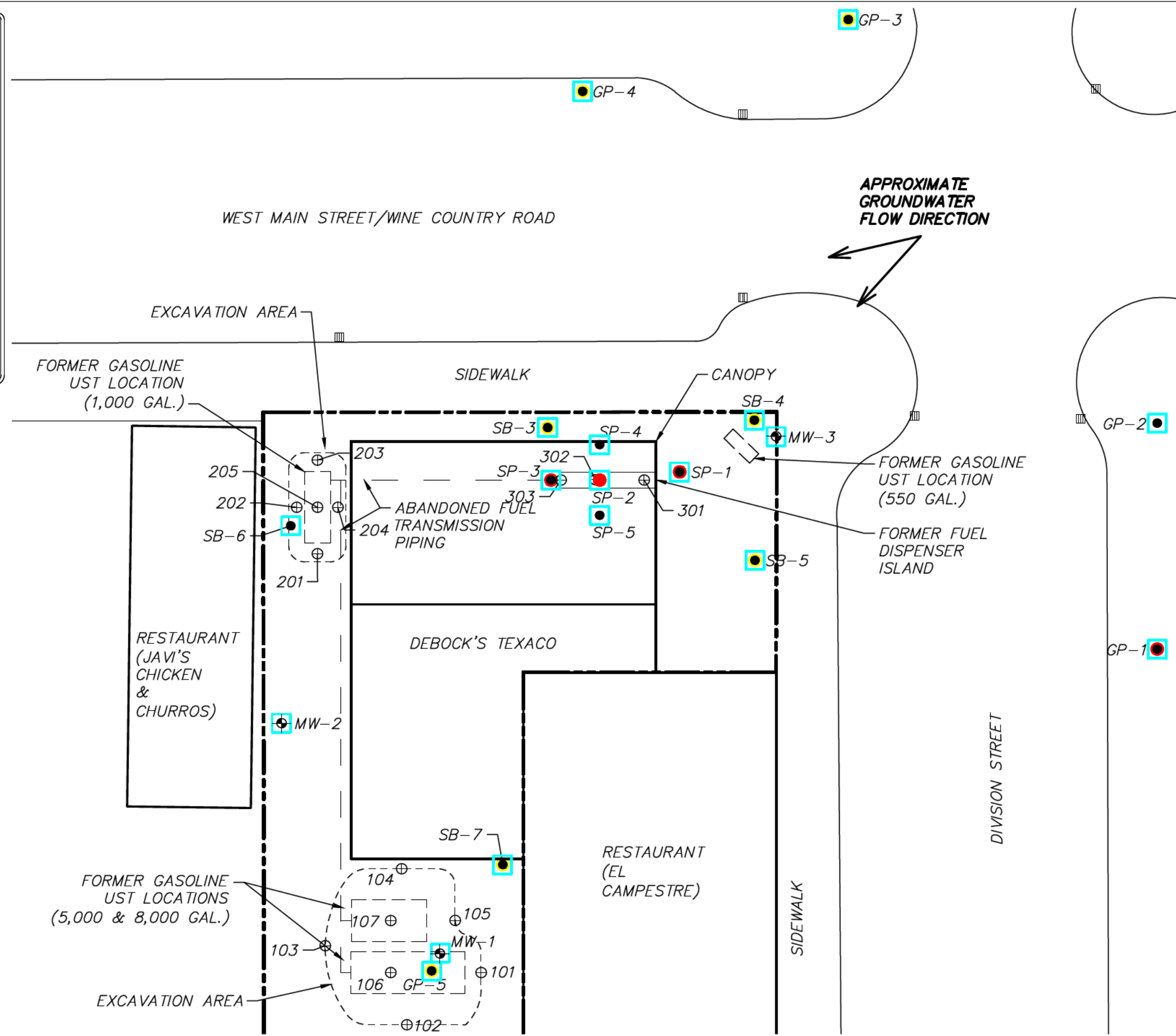
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LEGEND

- PROPERTY LINE
 - MW-1  MONITORING WELL (OLYMPUS, 1998)
 - SP-1  SOIL BORING LOCATION (BY OTHERS, 1995-2000)
 - 101  EXCAVATION SOIL SAMPLE LOCATION (WSI, 1995)
 -  MTCA METHOD A CLEANUP LEVEL EXCEEDANCE IN SOIL SHALLOWER THAN 10' DEPTH
 -  MTCA METHOD A CLEANUP LEVEL EXCEEDANCE IN SOIL AT 10' OR GREATER DEPTH
 -  GROUNDWATER MTCA METHOD A CLEANUP LEVEL EXCEEDANCE
- SITE FEATURES ARE APPROXIMATE.



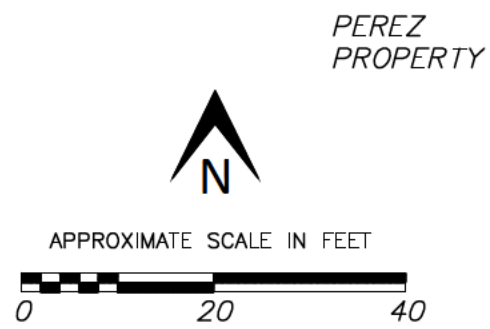
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FILE:	2093-01	2093-01	
DRAWN:	JJT	FIGURE NO.	3
APPROVED:	DBP		

MONITORING WELL AND HISTORIC SAMPLE DATA

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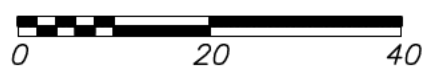


LEGEND

- PROPERTY LINE
- MW-1 MONITORING WELL
- TOMW-6 TIME OIL MONITORING WELL
- ⊙ STREET LIGHT ACCESS
- ⊙ WATER METER
- ⊙ GAS METER
- ⊙ IRRIGATION ACCESS
- ▢ CATCH BASIN
- ⊗ DRAIN
- UST FILL PORT
- ⊙ POLE
- ⊙ LIGHT POLE
- ST — STORM SEWER
- S — SANITARY SEWER
- W — WATER
- G — GAS
- FO — FIBER OPTIC
- P — POWER
- ? — UNKNOWN
- IR — IRRIGATION

SITE FEATURES ARE APPROXIMATE.

APPROXIMATE SCALE IN FEET



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WEST MAIN STREET/WINE COUNTRY ROAD

APPROXIMATE
GROUNDWATER
FLOW DIRECTION

FORMER GASOLINE
UST LOCATION
(1,000 GAL.)

SIDEWALK

CANOPY

FORMER GASOLINE
UST LOCATION
(550 GAL.)

FORMER FUEL
DISPENSER
ISLAND

ABANDONED FUEL
TRANSMISSION
PIPING

RESTAURANT
(JAVI'S
CHICKEN
&
CHURROS)

DEBOCK'S TEXACO

RESTAURANT
(EL
CAMPESTRE)

PEREZ
PROPERTY

FORMER GASOLINE
UST LOCATIONS
(5,000 & 8,000 GAL.)

DIVISION STREET

SIDEWALK

ALLEY

DATE: 11-29-18	PROJECT NO.
FILE: 2093-01	2093-01
DRAWN: JJT	FIGURE NO.
APPROVED: DBP	4

UTILITY LAYOUT

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MW-5

MW-4

MW-7

MW-2

MW-10

MW-11

MW-3

MW-12

MW-9

MW-8








MW-1

MW-6

TOMW-6

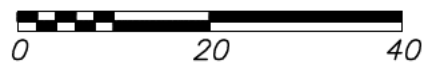
TOMW-7

LEGEND

- PROPERTY LINE
- MW-1  MONITORING WELL
- TOMW-6  TIME OIL MONITORING WELL
- B1  SOIL BORING (EES, 2018)
- SG1  SOIL GAS SAMPLE LOCATION-5' DEPTH (EES, 2018)
-  CATCH BASIN
-  DRAIN
-  UST FILL PORT

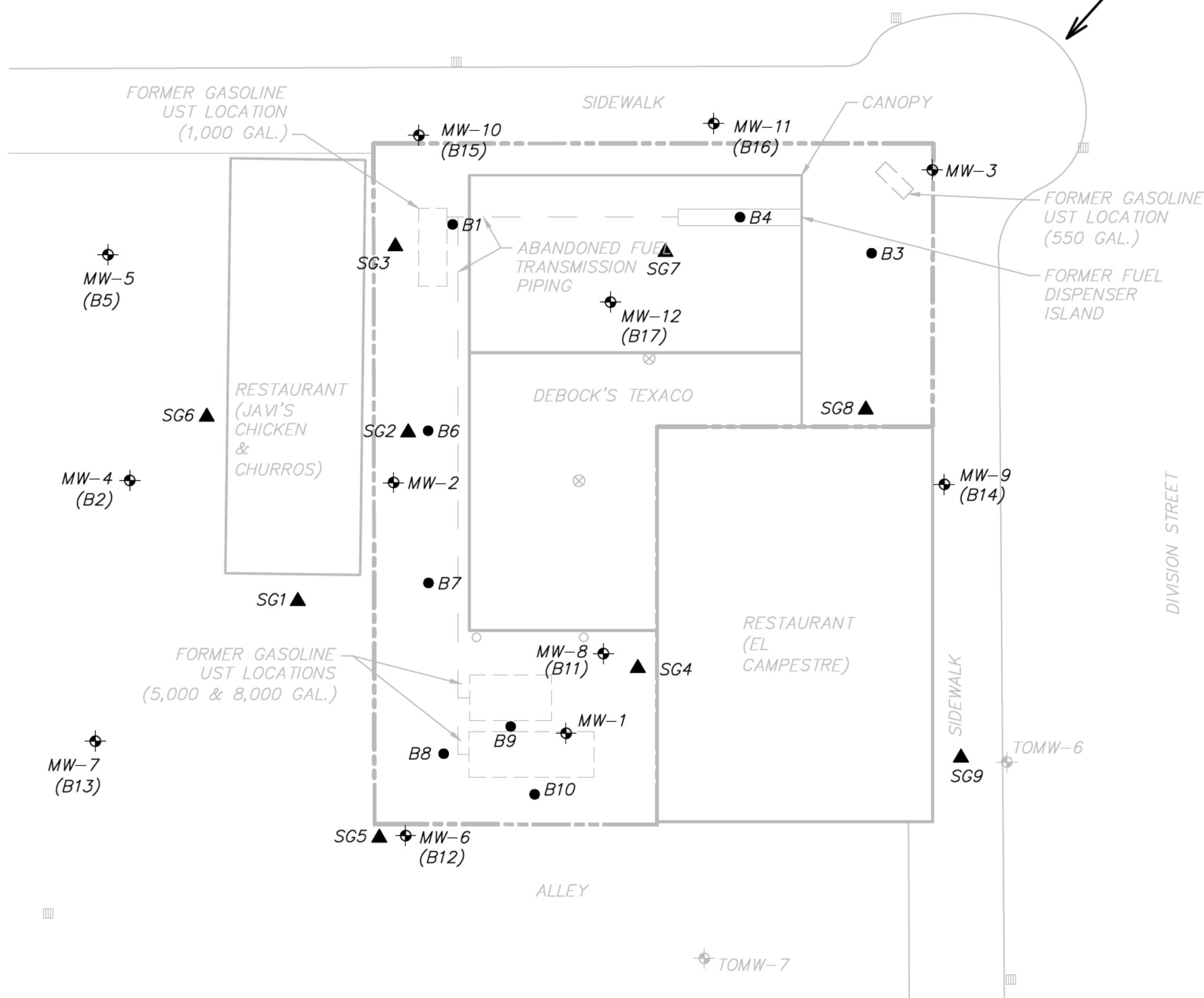
SITE FEATURES ARE APPROXIMATE.

APPROXIMATE SCALE IN FEET



WEST MAIN STREET/WINE COUNTRY ROAD

APPROXIMATE GROUNDWATER FLOW DIRECTION



DATE: 11-29-18	PROJECT NO. 2093-01
FILE: 2093-01	FIGURE NO. 5
DRAWN: JJT	APPROVED: DBP

SAMPLE LOCATIONS
2018

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LEGEND

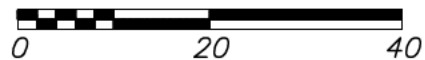
- PROPERTY LINE
- MW-1 MONITORING WELL (OLYMPUS, 1998)
- MW-4 MONITORING WELL (EES, 2018)
- TOMW-6 TIME OIL MONITORING WELL
- B1 SOIL BORING (EES, 2018)
- SG1 SOIL GAS SAMPLE LOCATION-5' DEPTH (EES, 2018)
- CATCH BASIN
- DRAIN
- UST FILL PORT
- G= GASOLINE
- B= BENZENE
- N= NAPHTHALENE
- D= DIESEL
- U= NOT DETECTED AT METHOD REPORTING LIMIT
- NOT ANALYZED FOR THIS PARAMETER

* DIESEL DETECTION DUE TO OVERLAP FROM GASOLINE RANGE PRODUCT

RESULTS SHOWN IN MILLIGRAMS PER KILOGRAM (mg/kg)

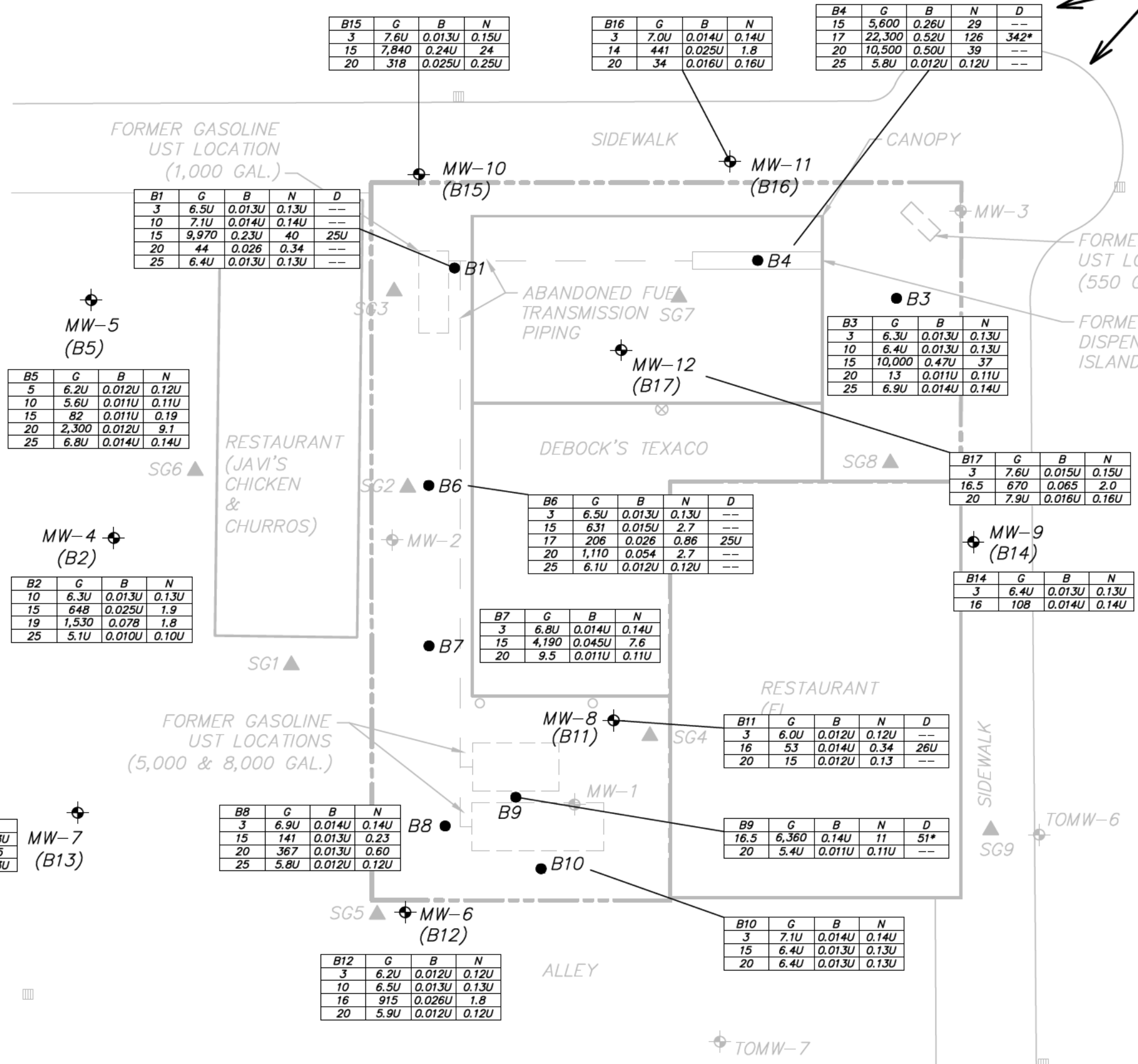
SITE FEATURES ARE APPROXIMATE.

APPROXIMATE SCALE IN FEET



WEST MAIN STREET/WINE COUNTRY ROAD

APPROXIMATE GROUNDWATER FLOW DIRECTION



PROJECT NO.	11-29-18
DATE:	2093-01
FILE:	2093-01
DRAWN:	JJT
APPROVED:	DBP
FIGURE NO.	6

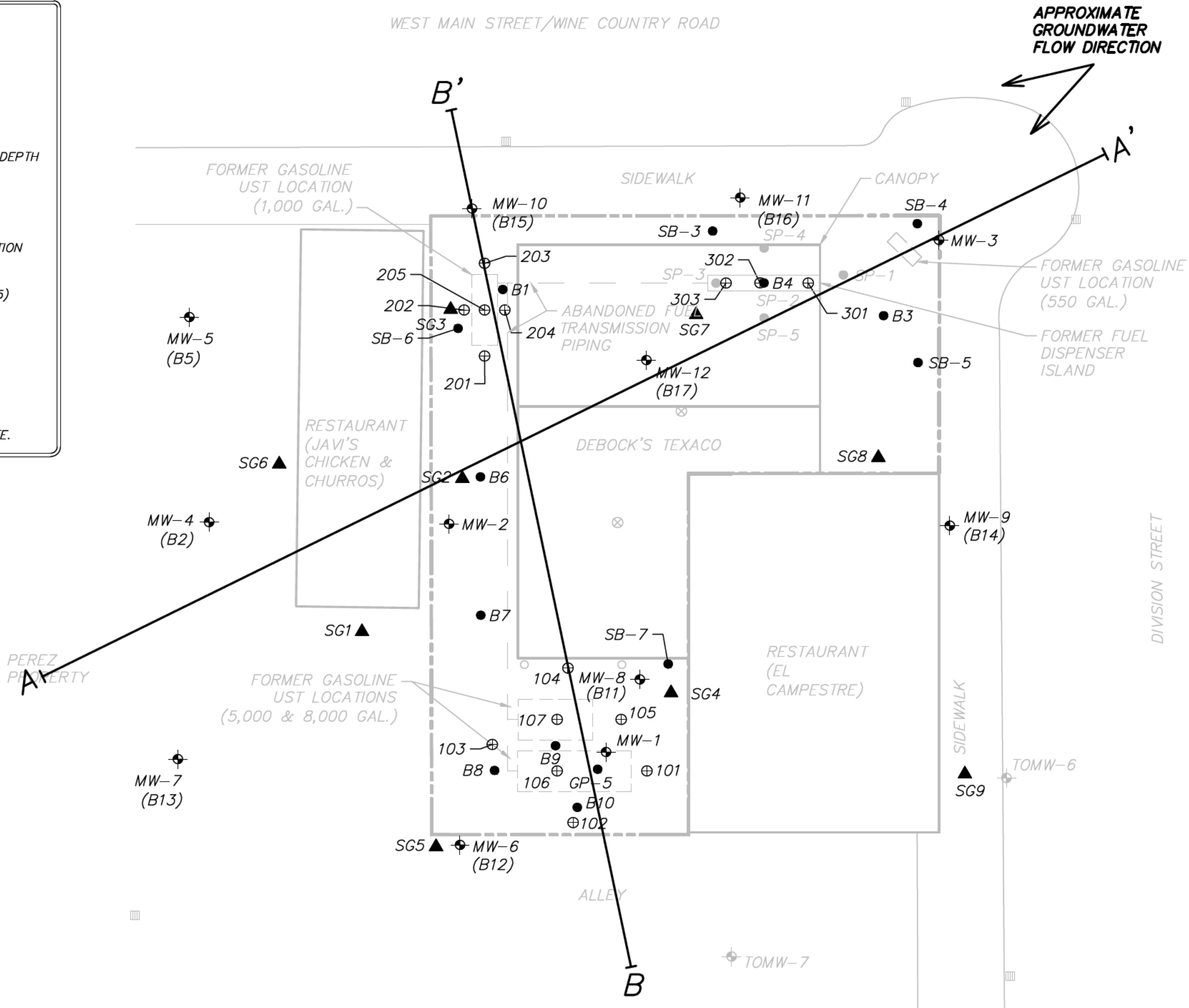
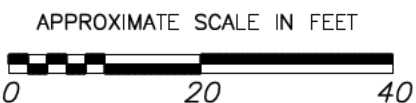
SOIL ANALYTICAL RESULTS
MARCH - APRIL 2018

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LEGEND

- PROPERTY LINE
 - MW-1  MONITORING WELL
 - TOMW-6  TIME OIL MONITORING WELL
 - B1 ● SOIL BORING (EES, 2018)
 - SG1 ▲ SOIL GAS SAMPLE LOCATION-5' DEPTH (EES, 2018)
 - SP-1 ● SOIL BORING LOCATION (BY OTHERS, 1995-2000)
 - 101 ⊕ EXCAVATION SOIL SAMPLE LOCATION (WSI, 1995)
 - SB-1 ● HAND AUGER BORING (OCT, 1995)
 - GP-1 ● GEOPROBE BORING (FEB, 1998)
 - ▤ CATCH BASIN
 - ⊗ DRAIN
 - UST FILL PORT
- SITE FEATURES ARE APPROXIMATE.



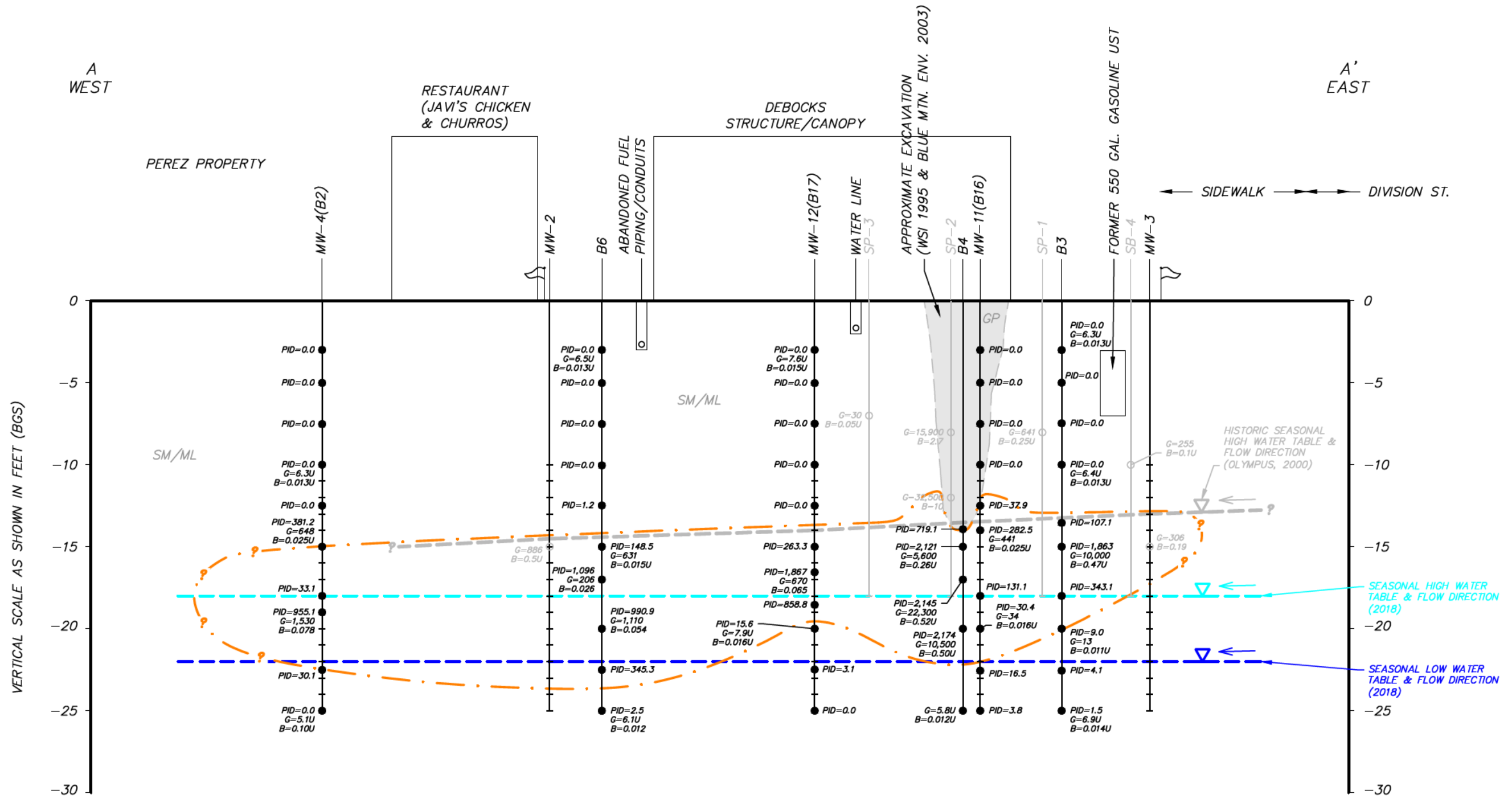
PROJECT NO.	11-29-18
FILE:	2093-01
DRAWN:	JJT
APPROVED:	DBP
FIGURE NO.	7A

CROSS SECTION LOCATIONS

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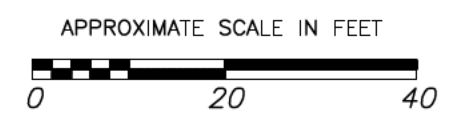


DATE:	11-29-18	PROJECT NO.	2093-01
FILE:	2093-01	DRAWN:	JJT
		APPROVED:	DBP
		FIGURE NO.	7B

CROSS SECTION A-A'

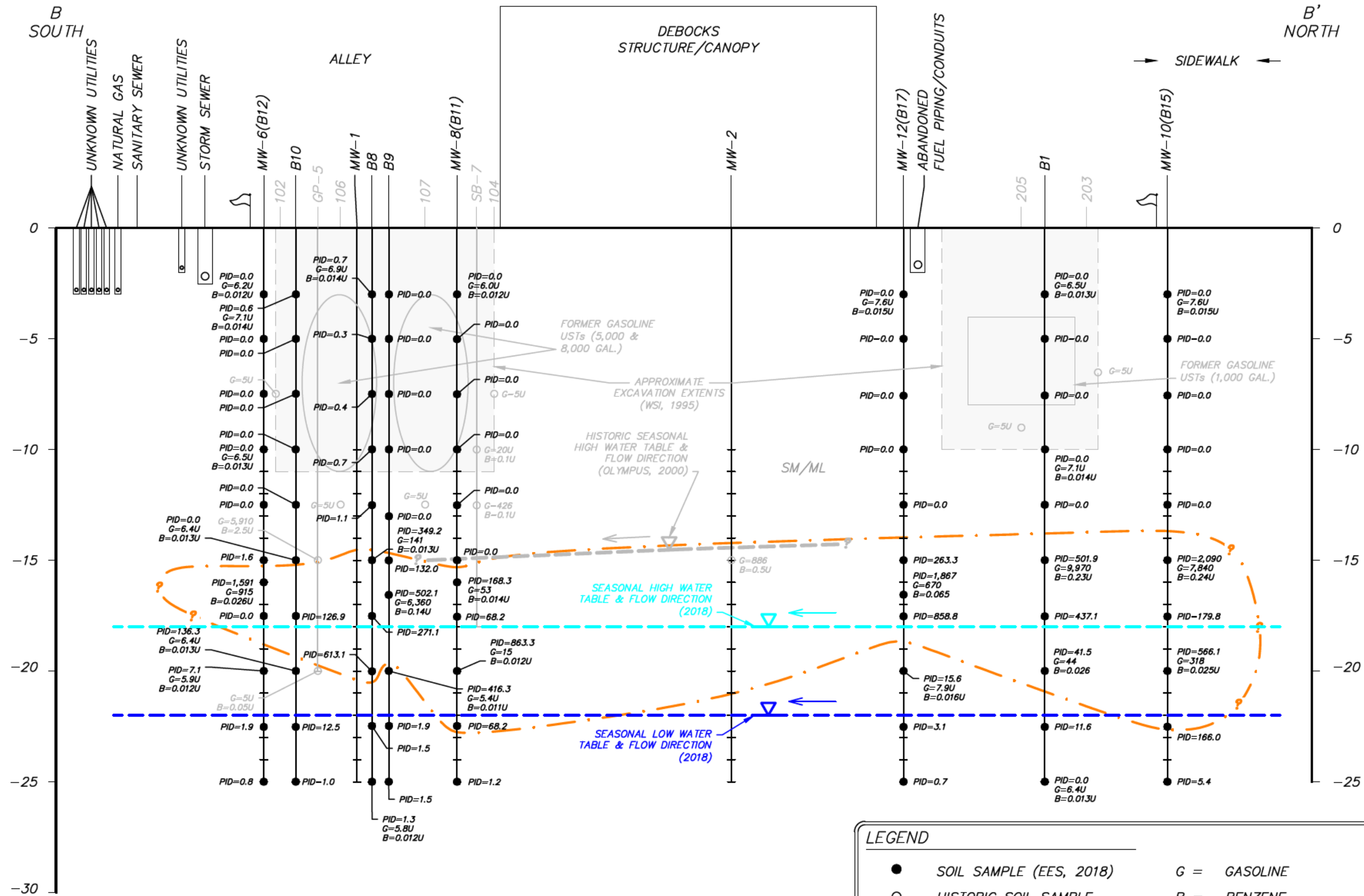
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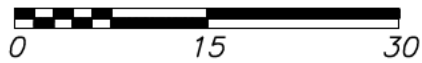


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VERTICAL SCALE AS SHOWN IN FEET (BGS)



APPROXIMATE SCALE IN FEET



LEGEND

- SOIL SAMPLE (EES, 2018)
- HISTORIC SOIL SAMPLE (BY OTHERS, 1995-2000)
- ▬ PROPERTY LINE
- SOIL RESULTS SHOWN IN MILLIGRAMS PER KILOGRAM (mg/kg)
- APPROXIMATE EXTENTS OF GASOLINE CONTAMINATION
- G = GASOLINE
- B = BENZENE
- U = CONCENTRATION NOT DETECTED ABOVE METHOD REPORTING LIMIT
- PID = VOLATILE ORGANIC COMPOUNDS MEASURED WITH PHOTOIONIZATION DETECTOR. RESULTS SHOWN IN PARTS PER MILLION BY VOLUME (ppmv)




DATE: 11-29-18	PROJECT NO. 2093-01
FILE: 2093-01	FIGURE NO. 7C
DRAWN: JJT	APPROVED: DBP

CROSS SECTION B-B'

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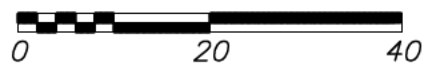
LEGEND

- PROPERTY LINE
- MW-1  MONITORING WELL
- TOMW-6  TIME OIL MONITORING WELL
- 790.46 GROUNDWATER ELEVATION (FEET)
- 791.0 - - - - APPROXIMATE GROUNDWATER ELEVATION ISOCONTOUR
-  APPROXIMATE GROUNDWATER FLOW DIRECTION

* UST CAVILTY WELLS WITH FREE PRODUCT ARE NOT INCLUDED IN POTENTIOMETRIC SURFACE ISOCONTOUR MAPPING

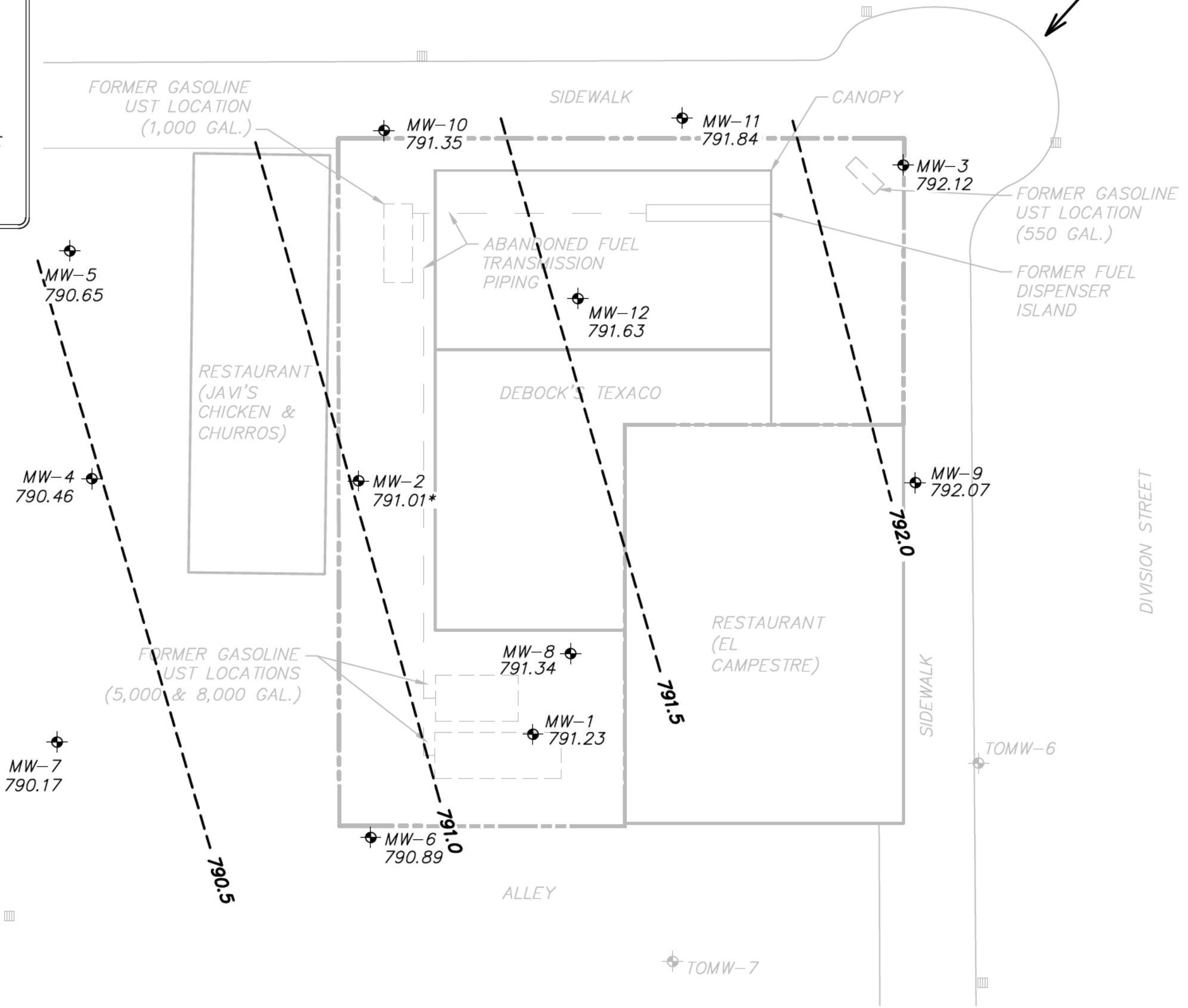
SITE FEATURES ARE APPROXIMATE.

APPROXIMATE SCALE IN FEET



WEST MAIN STREET/WINE COUNTRY ROAD

APPROXIMATE GROUNDWATER FLOW DIRECTION




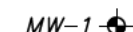

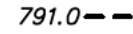

DATE: 11-29-18	PROJECT NO.
FILE: 2093-01	2093-01
DRAWN: JJT	FIGURE NO.
APPROVED: DBP	8A

GROUNDWATER ELEVATION
CONTOURS
APRIL 24-25, 2018

DEBOCK'S TEXACO
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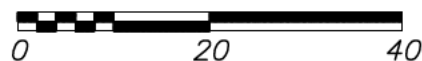
LEGEND

-  PROPERTY LINE
-  MW-1 MONITORING WELL
-  TOMW-6 TIME OIL MONITORING WELL
- 791.73 GROUNDWATER ELEVATION (FEET)
-  791.0 - - - APPROXIMATE GROUNDWATER ELEVATION ISOCONTOUR
-  APPROXIMATE GROUNDWATER FLOW DIRECTION

* UST CAVILTY WELLS WITH FREE PRODUCT ARE NOT INCLUDED IN POTENTIOMETRIC SURFACE ISOCONTOUR MAPPING

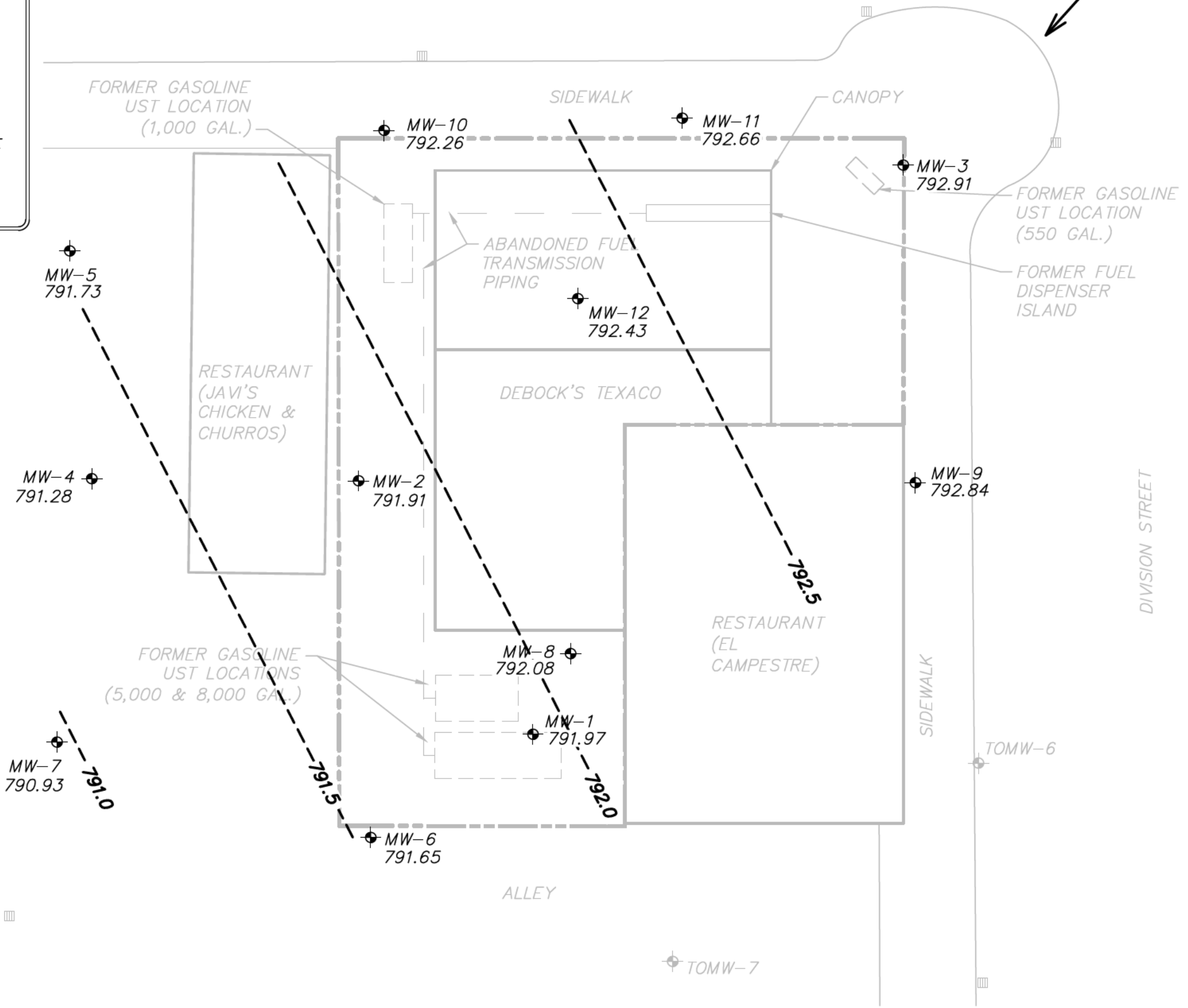
SITE FEATURES ARE APPROXIMATE.

APPROXIMATE SCALE IN FEET



WEST MAIN STREET/WINE COUNTRY ROAD

APPROXIMATE GROUNDWATER FLOW DIRECTION






PROJECT NO.	10-25-18
FILE:	2093-01
DRAWN:	JJT
APPROVED:	DBP
FIGURE NO.	8B

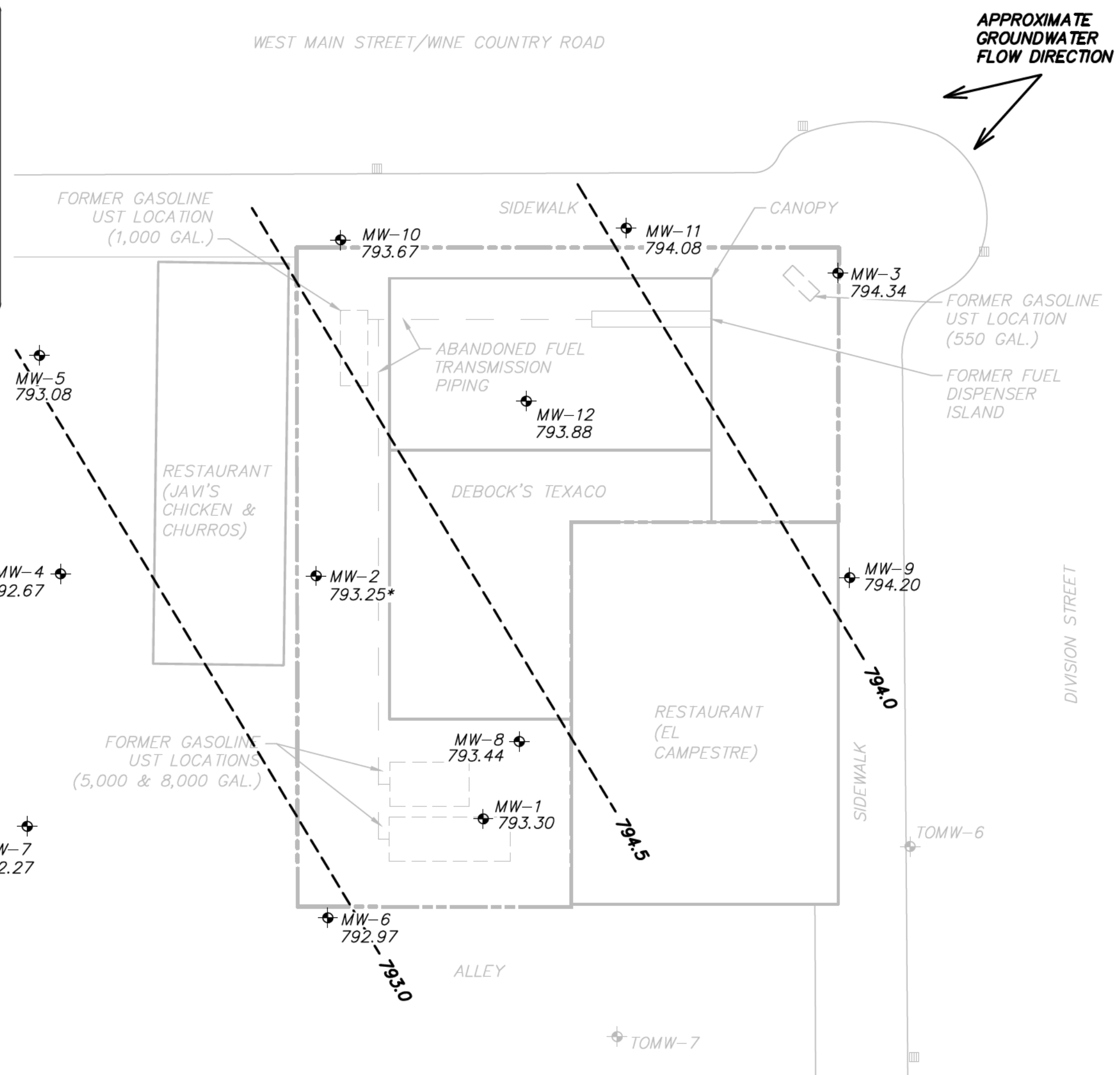
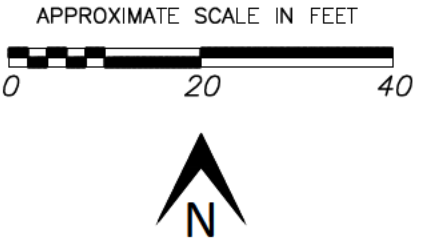
GROUNDWATER ELEVATION
CONTOURS
JULY 17, 2018

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GRANDVIEW, WA.

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LEGEND

- PROPERTY LINE
- MW-1  MONITORING WELL
- TOMW-6  TIME OIL MONITORING WELL
- 793.08 GROUNDWATER ELEVATION (FEET)
- 794.0 - - - - APPROXIMATE GROUNDWATER ELEVATION ISOCONTOUR
-  APPROXIMATE GROUNDWATER FLOW DIRECTION
- * GROUNDWATER ELEVATION ADJUSTED FOR FLOATING FREE PRODUCT
- SITE FEATURES ARE APPROXIMATE.



PROJECT NO.	11-29-18
FILE:	2093-01
DRAWN:	JJT
APPROVED:	DBP
FIGURE NO.	8C

GROUNDWATER ELEVATION
CONTOURS
OCTOBER 22, 2018

DEBOCK'S TEXACO
100 WEST MAIN ST.
GRANDVIEW, WA.

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LEGEND

- PROPERTY LINE
 - MW-1 MONITORING WELL
 - TOMW-6 TIME OIL MONITORING WELL
 - B1 SOIL BORING (EES, 2018)
 - SG1 SOIL GAS SAMPLE LOCATION-5' DEPTH (EES, 2018)
 - CATCH BASIN
 - DRAIN
 - UST FILL PORT
 - G= GASOLINE
 - B= BENZENE
 - N= NAPHTHALENE
 - D= DIESEL
 - U= NOT DETECTED AT METHOD REPORTING LIMIT
 - NOT ANALYZED
 - X= THE CHROMATOGRAPHIC PATTERN DOES NOT RESEMBLE THE FUEL STANDARD USED FOR QUANTIFICATION
 - Y= THE RESULT FOR DIESEL IS DUE TO OVERLAP FROM GASOLINE RANGE PRODUCT
 - - - - - APPROX. GASOLINE ISOCONTOUR (ug/L) MAXIMUM OBSERVED IN 2018
 - - - - - APPROX. BENZENE ISOCONTOUR (ug/L) MAXIMUM OBSERVED IN 2018
 - ***= DUPLICATE COLLECTED AT THIS SAMPLE LOCATION. HIGHER VALUE IS SHOWN.
- RESULTS SHOWN IN MICROGRAMS PER LITER (ug/L)
- SITE FEATURES ARE APPROXIMATE.

MW-10					
DATE	G	B	N	D	
***4/24/18	1,210	2.5	2.0U	---	
7/18/18	466	1.2	2.0	---	
10/23/18	1,910	3.5	2.0U	---	

B4-W					
DATE	G	B	N	D	
3/16/18	5,250	1.3	21	411Y	

MW-11					
DATE	G	B	N	D	
4/24/18	2,060	0.73	2.0U	---	
7/18/18	834	0.31	2.0U	---	
10/24/18	2,180	0.72	9.4	---	

B1-W					
DATE	G	B	N	D	
3/15/18	7,240	31	162	1,070Y	

MW-12					
DATE	G	B	N	D	
4/24/18	3,780	5.8	6.0	---	
7/19/18	2,070	2.3	20U	---	
10/24/18	2,060	5.1	6.9	---	

MW-5					
DATE	G	B	N	D	
4/25/18	390	0.24	2.0U	---	
7/19/18	100U	0.20U	2.0U	---	
10/23/18	767	0.33	2.0U	---	

B6-W					
DATE	G	B	N	D	
4/3/18	1,280	6.1	4.3	194U	

MW-4					
DATE	G	B	N	D	
4/25/18	521	0.53	2.0U	---	
7/19/18	121	0.21	2.0U	---	
10/23/18	653	1.2	2.0U	---	

B7-W					
DATE	G	B	N	D	
4/3/18	1,270	0.20U	6.2	190U	

MW-3					
DATE	G	B	N	D	
2/2/18	121	264X	2.0U	269X	
4/24/18	821	0.20U	2.0U	---	
7/18/18	715	0.20U	2.0U	---	
10/23/18	564	0.20U	2.0U	---	

B3-W					
DATE	G	B	N	D	
3/16/18	1,440	0.20U	2.0U	348Y	

MW-9					
DATE	G	B	N	D	
4/24/18	100U	0.20U	2.0U	---	
7/18/18	100U	0.20U	2.0U	---	
10/23/18	100U	0.20U	2.0U	---	

MW-2					
DATE	G	B	N	D	
2/1/18	FREE PRODUCT				
4/24/18	FREE PRODUCT				
7/18/18	14,500	12	193	948Y	
10/23/18	FREE PRODUCT				

MW-8					
DATE	G	B	N	D	
4/25/18	5,860	0.20U	58	---	
***7/18/18	1,590	0.20U	22	---	
***10/24/18	2,390	0.20U	35	---	

MW-7					
DATE	G	B	N	D	
4/25/18	100U	0.20U	2.0U	---	
7/19/18	100U	0.20U	2.0U	---	
10/24/18	100U	0.20U	2.0U	---	

B8-W					
DATE	G	B	N	D	
4/3/18	1,290	0.26	5.2	317Y	

MW-6					
DATE	G	B	N	D	
4/25/18	100U	0.20U	2.0U	---	
7/18/18	100U	0.20U	2.0U	---	
10/23/18	100U	0.20U	2.0U	---	

B9-W					
DATE	G	B	N	D	
4/3/18	725	0.20U	2.0U	238Y	

B10-W					
DATE	G	B	N	D	
4/4/18	449	0.20U	2.0U	389Y	

MW-1					
DATE	G	B	N	D	
2/2/18	928	0.20U	2.0U	866X	
4/24/18	725	0.20U	2.0U	---	
7/18/18	364	0.20U	2.0U	---	
10/23/18	250	0.20U	2.0U	---	

WEST MAIN STREET/WINE COUNTRY ROAD

APPROXIMATE GROUNDWATER FLOW DIRECTION

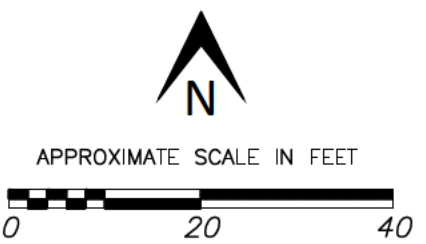
PROJECT NO.	2093-01
FIGURE NO.	9
DATE: 11-29-18	FILE: 2093-01
DRAWN: JJT	APPROVED: DBP

GROUNDWATER ANALYTICAL RESULTS
FEBRUARY - OCTOBER 2018

DEBOCK'S TEXACO
100 WEST MAIN ST.
GRANDVIEW, WA.

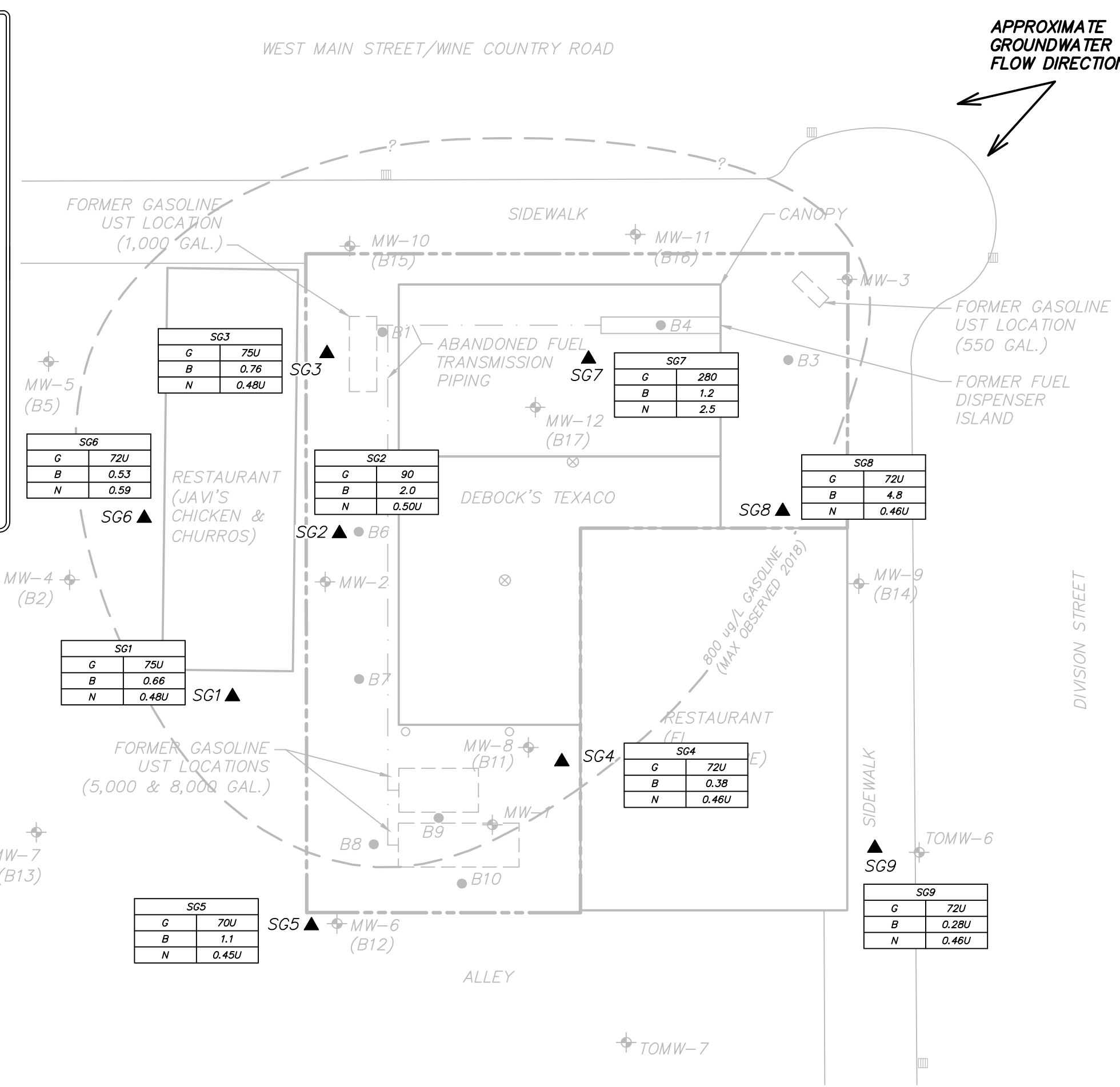
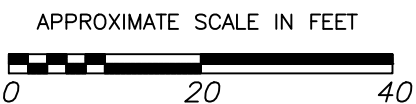
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LEGEND

- PROPERTY LINE
 - MW-1 MONITORING WELL
 - TOMW-6 TIME OIL MONITORING WELL
 - B1 ● SOIL BORING (EES, 2018)
 - SG1 ▲ SOIL GAS SAMPLE LOCATION-5' DEPTH (EES, 2018)
 - CATCH BASIN
 - DRAIN
 - UST FILL PORT
 - G= GASOLINE
 - B= BENZENE
 - N= NAPHTHALENE
 - U= NOT DETECTED AT METHOD REPORTING LIMIT
- SOIL GAS ANALYTICAL RESULTS IN MICROGRAMS PER CUBIC METER (ug/m³)
- APPROX. GASOLINE ISOCONTOUR (ug/L) MAXIMUM OBSERVED IN 2018
- SITE FEATURES ARE APPROXIMATE.



SG6	
G	72U
B	0.53
N	0.59

SG3	
G	75U
B	0.76
N	0.48U

SG2	
G	90
B	2.0
N	0.50U

SG7	
G	280
B	1.2
N	2.5

SG8	
G	72U
B	4.8
N	0.46U

SG1	
G	75U
B	0.66
N	0.48U

SG4	
G	72U
B	0.38
N	0.46U

SG5	
G	70U
B	1.1
N	0.45U

SG9	
G	72U
B	0.28U
N	0.46U

PROJECT NO.	12-14-18
FILE:	2093-01
DRAWN:	JJT
APPROVED:	DBP
FIGURE NO.	10

SOIL GAS ANALYTICAL RESULTS
MARCH 14-15, 2018

DEBOCK'S TEXACO
100 WEST MAIN ST.
GRANDVIEW, WA.

EES ENVIRONMENTAL CONSULTING, INC.
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Tables

TABLE H1
Historical Soil Analytical Results - Fuels and Related Constituents (mg/kg)

DeBock's Texaco
Grandview, Washington

Location	Date	Depth (feet bgs)	Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	Lead
Soil Screening Levels										
MTCA Method A Unrestricted Use ^a			30 ^b	0.03	7	6	9 ^c	0.1	5	250
MTCA Method B ^d			1,500 ^e	18.2	6,400	8,000	16,000	556	160	NA
White Shield - Tank Decommissioning										
REP-1295-101	03/14/1995	7.5	5 U	-	-	-	-	-	-	-
REP-1295-102	03/14/1995	7.5	5 U	-	-	-	-	-	-	-
REP-1295-103	03/14/1995	7.5	5 U	-	-	-	-	-	-	-
REP-1295-104	03/14/1995	7.5	5 U	-	-	-	-	-	-	-
REP-1295-105	03/14/1995	7.5	5 U	-	-	-	-	-	-	-
REP-1295-106	03/14/1995	12.5	5 U	-	-	-	-	-	-	-
REP-1295-107	03/14/1995	12.5	5 U	-	-	-	-	-	-	-
REP-1295-108sp/109sp ^e	03/15/1995	2	15	-	-	-	-	-	-	-
REP-1295-110sp	03/15/1995	2	5 U	-	-	-	-	-	-	-
REP-1295-202	03/14/1995	6.5	5 U	-	-	-	-	-	-	-
REP-1295-203	03/14/1995	6.5	5 U	-	-	-	-	-	-	-
REP-1295-204	03/14/1995	6.5	5 U	-	-	-	-	-	-	-
REP-1295-205	03/14/1995	9	5 U	-	-	-	-	-	-	-
REP-1295-206sp/207sp ^e	03/15/1995	2	1,600	-	-	-	-	-	-	-
REP-1295-208sp ^e	03/15/1995	2	5 U	-	-	-	-	-	-	-
Sage Earth Sciences - Limited Site Characterization										
SB3-10	10/20/1995	10	20 U	0.1 U	0.1 U	0.3 U	0.1 U	-	-	-
SB3-15	10/20/1995	15	1,800	0.1 U	0.1 U	1.7	4.1	-	-	25 U
SB4-10	10/20/1995	10	255 AG	0.1 U	0.1 U	0.3 U	0.1 U	-	-	25 U
SB5-10	10/20/1995	10	117 AG	0.1 U	0.1 U	0.3 U	0.1 U	-	-	-
SB6-10	10/23/1995	10	20 U	0.1 U	0.1 U	0.3 U	0.1 U	-	-	-
SB7-10	10/23/1995	10	20 U	0.1 U	0.1 U	0.3 U	0.1 U	-	-	-
SB7-12	10/23/1995	12	426 AG	0.1 U	0.1 U	0.3 U	0.1 U	-	-	25 U
Olympus Environmental - Site Investigation										
GP-1-15	02/20/1998	15	1,280	1.3	1.0	8.7	40	-	-	-
GP-2-15	02/20/1998	15	5 U	0.05 U	0.05 U	0.05 U	0.1 U	-	-	-
GP-3-15	02/20/1998	15	154	0.25 U	0.25 U	0.58	0.80	-	-	-
GP-4-15	02/20/1998	15	299	0.5 U	0.5 U	0.97	1.1	-	-	-
GP-5-15	02/20/1998	15	5,910	2.5 U	2.5 U	14	54	-	-	-
GP-5-20	02/20/1998	20	5 U	0.05 U	0.05 U	0.05 U	0.1 U	-	-	-

TABLE H1
Historical Soil Analytical Results - Fuels and Related Constituents (mg/kg)

DeBock's Texaco
Grandview, Washington

Location	Date	Depth (feet bgs)	Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	Lead
Soil Screening Levels										
MTCA Method A Unrestricted Use ^a			30 ^b	0.03	7	6	9 ^c	0.1	5	250
MTCA Method B ^d			1,500 ^e	18.2	6,400	8,000	16,000	556	160	NA
Olympus Environmental - Monitoring Well Installation										
SS2-15	03/26/1998	15	886	0.5 U	0.5 U	10 U	20 U	-	-	-
SS3-15	03/26/1998	15	306	0.19	0.29	1.0	3.5	-	-	-
Olympus Technical Services - Site Assessment										
SP-1-79	09/26/2000	7-9	641	0.25 U	0.35	0.59	12	-	-	-
SP-2-79	09/26/2000	7-9	15,900	2.7	7.8	20	1,090	-	-	-
SP-2-1113	09/26/2000	11-13	32,500	10	346	280	1,900	-	-	-
SP-3-79	09/26/2000	7-9	30	0.05 U	0.054	0.05 U	1.3	-	-	-
SP-4-79	09/26/2000	7-9	15	0.05 U	0.050	0.05 U	0.28	-	-	-
SP-5-79	09/26/2000	7-9	26	0.05 U	0.05 U	0.05 U	0.31	-	-	-
Blue Mountain Environmental Sample Results										
1216-01	12/16/2003	-	680 Z	0.023 U	0.11 U	0.17	0.88	-	-	11
1216-02	12/16/2003	-	5.4 U	0.054 U	0.011 U	0.054 U	0.11 U	0.054 U	-	5.6
1216-03	12/16/2003	-	5.5 U	0.011 U	0.055 U	0.055 U	0.11 U	-	-	6.3
1217-04	12/17/2003	-	5.4 U	0.011 U	0.054 U	0.054 U	0.11 U	0.054 U	-	5.4
1217-05	12/17/2003	-	5.4 U	0.011 U	0.054 U	0.054 U	0.11 U	-	-	5.7
1217-06	12/17/2003	-	5.4 U	0.011 U	0.054 U	0.054 U	0.11 U	0.054 U	-	6.6
1217-07	12/17/2003	-	5.4 U	0.011 U	0.054 U	0.054 U	0.11 U	-	-	6.9

Notes:

Data through 2003 taken from historical reports.

^a Model Toxics Control Act (MTCA) Cleanup Amendments, Method A Soil Cleanup Levels For Unrestricted Land Use (CLARC Tables, August 2015)

^b Per MTCA, the cleanup value for gasoline is 30 mg/kg if benzene is detected and/or if the sum of the toluene, ethylbenzene, and xylenes is greater than one percent of the gasoline concentration, and 100 mg/kg for all other gasoline mixtures.

^c Screening level shown is for m-Xylene

^d Model Toxics Control Act (MTCA) Cleanup Amendments, Method B Soil Cleanup Levels (WDOE, CLARC Database, August 2015)

^e Samples taken from soil stockpiles, not "in-place".

^f Draft - Model Remedies for Sites with Petroleum Impacts to Groundwater (Ecology Publication #16-09-057, August 2017)

AG = Aged Gasoline

Z = Laboratory Qualifier. Gasoline result is being impacted by the presence of diesel fuel.

bgs = below ground surface

NA = Not Available

mg/kg = milligrams per kilogram

- = not analyzed for this parameter

U = Undetected at method reporting limit shown

TABLE H2
Historical Groundwater Analytical Results (ug/L)
 DeBock's Texaco
 Grandview, Washington

Location	Date	Depth (feet bgs)	Gasoline	Benzene	Toluene	Ethylbenzene	Total Xylenes	Lead
MTCA Method A Screening Levels ^a			800 ^b	5	1,000	700	1,000	15
MTCA Method B Screening Levels ^a			n/a	0.795	640 ^c	800 ^c	1,600 ^c	n/a
<u>Sage Earth Sciences - Limited Site Characterization</u>								
SB3-16	10/20/1995	16	67	4.2	1.2 U	1.6	3.4	64
SB4-16	10/20/1995	16	53	0.16	0.83	1.3	5.8	47
SB5-16	10/20/1995	16	56	0.05 U	0.34	1.4	4.9	150
SB6-16	10/23/1995	16	185	3.5	1.9	2.4	5.7	96
SB7-16.5	10/23/1995	16.5	111	0.14	2.1	1.5	6.9	37
<u>Olympus Environmental - Site Investigation</u>								
GP-1-15W	02/20/1998	15	8,400	1,910	13 U	527	1,660	-
GP-2-15W	02/20/1998	15	78	5.3	2.5	1.8	6.6	-
GP-3-15W	02/20/1998	15	594	22	1.6	17	22	-
GP-4-15W	02/20/1998	15	1,220	92	3.9	72	14	-
GP-5-15W	02/20/1998	15	2,930	7.9	4.9	81	113	-
<u>Olympus Technical Services - Site Assessment</u>								
SP-1-1418	09/26/2000	14-18	12,600	153	100	430	1,030	-
SP-2-1418	09/26/2000	14-18	281,000	2,690	31,900	8,390	55,100	-
SP-3-1418	09/26/2000	14-18	26,400	365	2,090	718	4,040	-
SP-4-1418	09/26/2000	14-18	6,570	37	64	73	154	-
SP-5-1418	09/26/2000	14-18	34,200	630	2,400	1,120	6,060	-
MW-1	04/01/1998	-	1,370	2.2	2.9	24	62	-
	09/27/2000	-	120	0.78	0.53	1.3	3.5	-
MW-2	04/01/1998	-	5,970	94	30	217	396	-
	09/27/2000	-	11,700	1,040	74	649	710	-
MW-3	04/01/1998	-	2,590	19	3.5	61	205	-
	09/27/2000	-	2,270	15	2.0	74	48	-
(duplicate)	09/27/2000	-	1,440	7.1	1.1	26	26	-

Notes:

Historical data through 2000 obtained from historical reports.

^a Model Toxics Control Act (MTCA) Cleanup Amendments, Method A and B Groundwater Cleanup Levels (WDOE, CLARC August 2015)

^b Per MTCA, the cleanup value for gasoline is 800 ug/L if benzene is detected, and 1,000 ug/L if benzene is not detected.

^c MTCA Method B non-cancer endpoint

ug/L = micrograms per liter

U = Undetected at method reporting limit shown

bgs = below ground surface

- = Not analyzed for this parameter

TABLE 1
Groundwater Elevation + Product Thickness Data
 DeBock's Texaco
 Grandview, Washington

Well Identification	TOC Elevation (feet)	Date Measured	Depth to Water (feet below TOC)	Depth to Product (feet below TOC)	Product Thickness (feet)	Groundwater Elevation ^a (feet)			
MW-1	99.08	04/01/1998	17.34	-	0	81.74			
		09/27/2000	14.26	-	0	84.82			
		10/25/2017	18.59	-	0	80.49			
		11/07/2017	18.88	-	0	80.20			
		02/02/2018	20.18	-	0	78.90			
	812.37	03/06/2018	20.59	-	0	791.78			
		03/16/2018	20.71	-	0	791.66			
		04/02/2018	20.93	-	0	791.44			
		04/05/2018	20.96	-	0	791.41			
		04/24/2018	21.14	-	0	791.23			
		07/17/2018	20.40	-	0	791.97			
		10/22/2018	19.07	-	0	793.30			
		MW-2	99.55	04/01/1998	17.93	-	0	81.62	
09/27/2000	14.66			-	0	84.89			
10/25/2017	19.91			19.05	0.86	80.26			
11/07/2017	20.13			19.22	0.91	80.08			
02/01/2018	21.81			20.67	1.14	78.56			
02/02/2018	21.31			21.18	0.13	78.33			
02/03/2018	21.14			20.89	0.25	78.59			
812.91	03/06/2018			21.61	21.22	0.39	791.58		
	03/16/2018			21.73	21.32	0.41	791.48		
	04/02/2018			22.03	21.53	0.50	791.24		
	04/05/2018			22.03	21.56	0.47	791.22		
	04/24/2018			22.32	21.73	0.59	791.01		
	05/04/2018			22.42	21.83	0.59	790.91		
	06/05/2018			21.80	21.67	0.13	791.20		
	07/17/2018			21.00	-	0	791.91		
08/17/2018	20.53			20.40	0.13	792.38			
09/10/2018	19.86	19.78	0.08	793.05					
10/22/2018	19.73	19.63	0.10	793.18					
11/13/2018	20.13	20.06	0.07	792.78					
MW-3	99.23	04/01/1998	16.29	-	0	82.94			
		09/27/2000	13.01	-	0	86.22			
		10/25/2017	17.92	-	0	81.31			
		11/07/2017	18.18	-	0	81.05			
		02/02/2018	19.58	-	0	79.65			
		812.74	03/06/2018	19.99	-	0	792.75		
			03/16/2018	21.02	-	0	791.72		
			04/05/2018	20.38	-	0	792.36		
			04/24/2018	20.62	-	0	792.12		
			07/17/2018	19.83	-	0	792.91		
			10/22/2018	18.40	-	0	794.34		
			MW-4	811.94	03/16/2018	21.04	-	0	-
					04/02/2018	21.27	-	0	-
04/05/2018	21.30	-			0	-			
04/24/2018	21.48	-			0	790.46			
07/17/2018	20.66	-			0	791.28			
10/22/2018	19.27	-	0	792.67					
MW-5	811.64	04/05/2018	20.83	-	0	-			
		04/24/2018	20.99	-	0	790.65			
		07/17/2018	19.91	-	0	791.73			
		10/22/2018	18.56	-	0	793.08			
MW-6	811.99	04/05/2018	20.96	-	0	-			
		04/24/2018	21.10	-	0	790.89			

TABLE 1
Groundwater Elevation + Product Thickness Data
 DeBock's Texaco
 Grandview, Washington

Well Identification	TOC Elevation (feet)	Date Measured	Depth to Water (feet below TOC)	Depth to Product (feet below TOC)	Product Thickness (feet)	Groundwater Elevation ^a (feet)
MW-6 (cont'd)		07/17/2018	20.34	-	0	791.65
		10/22/2018	19.02	-	0	792.97
MW-7	811.92	04/05/2018	22.82	-	0	-
		04/24/2018	21.75	-	0	790.17
		07/17/2018	20.99	-	0	790.93
		10/22/2018	19.65	-	0	792.27
MW-8	812.28	04/05/2018	20.77	-	0	-
		04/24/2018	20.94	-	0	791.34
		07/17/2018	20.20	-	0	792.08
		10/22/2018	18.84	-	0	793.44
MW-9	812.76	04/05/2018	21.02	-	0	-
		04/24/2018	20.69	-	0	792.07
		07/17/2018	19.92	-	0	792.84
		10/22/2018	18.56	-	0	794.20
MW-10	812.05	04/05/2018	20.91	-	0	-
		04/24/2018	20.70	-	0	791.35
		07/17/2018	19.79	-	0	792.26
		10/22/2018	18.38	-	0	793.67
MW-11	812.13	04/05/2018	-	-	0	-
		04/24/2018	20.29	-	0	791.84
		07/17/2018	19.47	-	0	792.66
		10/22/2018	18.05	-	0	794.08
MW-12	812.81	04/05/2018	-	-	0	-
		04/24/2018	21.18	-	0	791.63
		07/17/2018	20.38	-	0	792.43
		10/22/2018	18.93	-	0	793.88

Notes:

^a Groundwater elevation is adjusted to account for floating gasoline product, where present.

Data prior to 2017 was obtained from historical reports.

Wells surveyed on 3/6/2018 and 4/24/2018 by PLSA of Yakima, Washington.

TOC = Top of Casing

- = Not measured

TABLE 2
Soil Analytical Results - Fuels and Related Constituents (mg/kg)

DeBock's Texaco
Grandview, Washington

Location	Date	Depth (feet bgs)	Gasoline	Diesel	Oil	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	Lead ^f
Soil Screening Levels											
MTCA Method A Unrestricted Use ^a			30 ^b	2,000	2,000	0.03	7	6	9 ^c	5	250
MTCA Method B ^d			1,500 ^e	NA	NA	18.2	6,400	8,000	16,000	160	NA
B1-3	03/15/2018	3	6.5 UJ	-	-	0.013 U	0.065 U	0.032 UJ	0.097 UJ	0.13 UJ	-
B1-10	03/15/2018	10	7.1 UJ	-	-	0.014 U	0.071 U	0.035 UJ	0.11 UJ	0.14 UJ	-
B1-15	03/15/2018	15	9,970 J	25 U	50 U	0.23 U	1.2 U	36 J	85 J	40 J	12
B1-20	03/15/2018	20	44	-	-	0.026	0.054 U	0.027 U	0.080 U	0.34	-
B1-25	03/15/2018	25	6.4 UJ	-	-	0.013 U	0.064 U	0.032 UJ	0.096 UJ	0.13 UJ	-
B2-10	03/15/2018	10	6.3 UJ	-	-	0.013 U	0.063 U	0.032 UJ	0.095 UJ	0.13 UJ	-
B2-15	03/15/2018	15	648	-	-	0.025 U	0.12 U	0.80	1.3	1.9	-
B2-19	03/15/2018	19	1,530	-	-	0.078	0.34 U	1.8	1.9	1.8	-
B2-25	03/15/2018	25	5.1 UJ	-	-	0.010 U	0.051 U	0.026 UJ	0.077 UJ	0.10 UJ	-
B3-3	03/16/2018	3	6.3 UJ	-	-	0.013 U	0.063 U	0.032 UJ	0.095 UJ	0.13 UJ	-
B3-10	03/16/2018	10	6.4 UJ	-	-	0.013 U	0.064 U	0.032 UJ	0.096 UJ	0.13 UJ	-
B3-15	03/16/2018	15	10,000 J	-	-	0.47 U	2.3 U	73 J	374 J	37 J	-
B3-20	03/16/2018	20	13	-	-	0.011 U	0.054 U	0.027 U	0.082 U	0.11 U	-
B3-25	03/16/2018	25	6.9 UJ ²	-	-	0.014 U	0.069 U	0.035 UJ	0.10 UJ	0.14 UJ	-
B4-15	03/16/2018	15	5,600 J	-	-	0.26 U	7.8	40 J	342 J	29 J	-
B4-17	03/16/2018	17	22,300 J	342 J ¹	52 U	0.52 U	98	276 J	1,870 J	126 J	10
B4-20	03/16/2018	20	10,500 J	-	-	0.50 U	15	71 J	343 J	39 J	-
B4-25	03/16/2018	25	5.8 UJ ²	-	-	0.012 U	0.058 U	0.029 UJ	0.086 UJ	0.12 UJ	-
B5-5	03/16/2018	5	6.2 UJ ²	-	-	0.012 U	0.062 U	0.031 UJ	0.093 UJ	0.12 UJ	-
B5-10	03/16/2018	10	5.6 UJ ²	-	-	0.011 U	0.056 U	0.028 UJ	0.084 UJ	0.11 UJ	-
B5-15	03/16/2018	15	82 J	-	-	0.011 U	0.057 U	0.029 UJ	0.09 UJ	0.19 J	-
B5-20	03/16/2018	20	2,300	-	-	0.012 U	0.088	8.1	19	9.1	-
B5-25	03/16/2018	20	6.8 UJ ²	-	-	0.014 UJ ²	0.068 UJ ²	0.034 UJ ²	0.10 UJ ²	0.14 UJ ²	-
B6-3	04/02/2018	3	6.5 U	-	-	0.013 U	0.065 U	0.032 U	0.097 U	0.13 U	-
B6-15	04/02/2018	15	631	-	-	0.015 U	0.073 U	1.1	6.6	2.7	-
B6-17	04/02/2018	17	206	25 U	50 U	0.026	0.077	1.5	6.0	0.86	-
B6-20	04/02/2018	20	1,110	-	-	0.054	0.23 U	5.4	12	2.7	-
B6-25	04/02/2018	25	6.1 U ²	-	-	0.012 U ²	0.061 U ²	0.031 U ²	0.092 U ²	0.12 U ²	-
B7-3	04/02/2018	3	6.8 U	-	-	0.014 U	0.068 U	0.034 U	0.10 U	0.14 U	-
B7-15	04/02/2018	15	4,190	-	-	0.045 U	0.23 U	2.5	5.2	7.6	8.5
B7-20	04/02/2018	20	9.5	-	-	0.011 U	0.056 U	0.028 U	0.084 U	0.11 U	-
B8-3	04/02/2018	3	6.9 U	-	-	0.014 U	0.069 U	0.035 U	0.10 U	0.14 U	-
B8-15	04/02/2018	15	141	-	-	0.013 U	0.067 U	0.033 U	0.10 U	0.23	-
B8-20	04/02/2018	20	367	-	-	0.013 U	0.065 U	1.2	2.9	0.60	-
B8-25	04/02/2018	25	5.8 U ²	-	-	0.012 U ²	0.058 U ²	0.029 U ²	0.087 U ²	0.12 U ²	-
B9-16.5	04/03/2018	16.5	6,360	51 ¹	50 U	0.14 U	0.70 U	15	61	11	-
B9-20	04/03/2018	20	5.4 U	-	-	0.011 U	0.054 U	0.041	0.082 U	0.11 U	-
B10-3	04/03/2018	3	7.1 U	-	-	0.014 U	0.071 U	0.035 U	0.11 U	0.14 U	-
B10-15	04/03/2018	15	6.4 U	-	-	0.013 U	0.064 U	0.032 U	0.096 U	0.13 U	-
B10-20	04/03/2018	20	6.4 U	-	-	0.013 U	0.064 U	0.032 U	0.096 U	0.13 U	-
B11-3	04/03/2018	3	6.0 U	-	-	0.012 U	0.060 U	0.030 U	0.091 U	0.12 U	-
B11-16	04/03/2018	16	53	26 U	52 U	0.014 U	0.070 U	0.11	0.61	0.34	-
B11-20	04/03/2018	20	15	-	-	0.012 U	0.061 U	0.36	1.5	0.13	-
B12-3	04/03/2018	3	6.2 U	-	-	0.012 U	0.062 U	0.031 U	0.093 U	0.12 U	-
B12-10	04/03/2018	10	6.5 U	-	-	0.013 U	0.065 U	0.033 U	0.098 U	0.13 U	-
B12-16	04/03/2018	16	915	-	-	0.026 U	0.129 U	0.39	0.19 U	1.8	7.6
B12-20	04/03/2018	20	5.9 U	-	-	0.012 U	0.059 U	0.030 U	0.089 U	0.12 U	-
B13-15	04/03/2018	15	6.4 U	-	-	0.013 U	0.064 U	0.032 U	0.095 U	0.13 U	-
B13-20	04/03/2018	20	4,530	-	-	0.24 U	1.2 U	3.8	6.1	2.5	-
B13-25	04/03/2018	25	6.3 U	-	-	0.013 U	0.063 U	0.032 U	0.095 U	0.13 U	-
B14-3	04/04/2018	3	6.4 U	-	-	0.013 U	0.064 U	0.032 U	0.096 U	0.13 U	-

TABLE 2
Soil Analytical Results - Fuels and Related Constituents (mg/kg)

DeBock's Texaco
Grandview, Washington

Location	Date	Depth (feet bgs)	Gasoline	Diesel	Oil	Benzene	Toluene	Ethylbenzene	Total Xylenes	Naphthalene	Lead ^f
Soil Screening Levels											
MTCA Method A Unrestricted Use ^a			30 ^b	2,000	2,000	0.03	7	6	9 ^c	5	250
MTCA Method B ^d			1,500 ^e	NA	NA	18.2	6,400	8,000	16,000	160	NA
B14-16	04/04/2018	16	108	-	-	0.014 U	0.071 U	0.035 U	0.11 U	0.14 U	-
B15-3	04/04/2018	3	7.6 U	-	-	0.015 U	0.076 U	0.038 U	0.11 U	0.15 U	-
B15-15	04/04/2018	15	7,840	-	-	<i>0.24 U</i>	1.2 U	16	39	24	-
B15-20	04/04/2018	20	318	-	-	0.025 U	0.12 U	0.061 U	0.18 U	0.25 U	-
B16-3	04/05/2018	3	7.0 U	-	-	0.014 U	0.070 U	0.035 U	0.10 U	0.14 U	-
B16-14	04/05/2018	14	441	-	-	0.025 U	0.13 U	1.1	3.4	1.8	-
B16-20	04/05/2018	20	34	-	-	0.016 U	0.079 U	0.040 U	0.12 U	0.16 U	-
B17-3	04/05/2018	3	7.6 U	-	-	0.015 U	0.076 U	0.038 U	0.11 U	0.15 U	-
B17-16.5	04/05/2018	16.5	670	-	-	0.065	1.2	5.5	26	2.0	-
B17-20	04/05/2018	20	7.9 U	-	-	0.016 U	0.079 U	0.040 U	0.12 U	0.16 U	-

Notes:

Gasoline analyzed by NWTPH-Gx

Diesel and Oil analyzed by NWTPH-Dx

^a Model Toxics Control Act (MTCA) Cleanup Amendments, Method A Soil Cleanup Levels For Unrestricted Land Use (CLARC Tables, August 2015)

^b Per MTCA, the cleanup value for gasoline is 30 mg/kg if benzene is detected and/or if the sum of the toluene, ethylbenzene, and xylenes is greater than one percent of the gasoline concentration, and 100 mg/kg for all other gasoline

^c Screening level shown is for m-Xylene

^d Model Toxics Control Act (MTCA) Cleanup Amendments, Method B Soil Cleanup Levels (WDOE, CLARC Database, August 2015)

^e Draft - Model Remedies for Sites with Petroleum Impacts to Groundwater (Ecology Publication #16-09-057, August 2017)

^f Lead background concentration = 17 mg/kg. WDOE, Natural Background Soil Metals Concentrations in Washington State (Table 1, October 1994)

¹ Diesel result is estimated due to overlap from gasoline range organics or a gasoline range product.

² Sample was analyzed past the recommended holding time.

bgs = below ground surface

mg/kg = milligrams per kilogram

- = not analyzed for this parameter

U = Undetected at method reporting limit shown

BOLD values exceed the MTCA A screening level

Italicized reporting limits are above the MTCA A screening level

TABLE 4
Soil Analytical Results - Polynuclear Aromatic Hydrocarbons (mg/kg)
 DeBock's Texaco
 Grandview, Washington

Location	Date	Sample Depth (feet bgs)	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(g,h,i)perylene	Chrysene	Dibenzo(a,h)anthracene	Dibenzofuran	Fluoranthene	Fluorene	Indeno (1,2,3-c,d)pyrene	1-Methyl naphthalene	2-Methyl naphthalene	Naphthalene	Phenanthrene	Pyrene
Soil Screening Levels																					
MTCA Method A ^a			NA	NA	NA	NA	0.1 ^b	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	NA	NA
MTCA Method B ^c			4,800	NA	24,000	1.37	0.137 ^b	1.37	13.7	NA	137	0.137	80	3,200	3,200	1.37	34.5	320	1,600	NA	2,400
B4-17	03/16/2018	17	0.036 U	0.016 U	0.012 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.024 U	0.010	0.060	0.0086 U	5.3 U	10	9.8	0.098	0.014 J	

Notes:

Polynuclear Aromatic Hydrocarbons (PAHs) EPA Method 8270D SIM

^a Model Toxics Control Act (MTCA) Cleanup Amendments, Method A Soil Cleanup Levels for Unrestricted Land Use (CLARC, August 2015)

^b Cleanup level shown is for toxic equivalent concentration of all carcinogenic PAHs. (See TABLE 2B)

^c MTCA Cleanup Amendments, Method B Soil Cleanup Levels (CLARC, August 2015)

mg/kg = Milligrams per kilogram

bgs = below ground surface

NA = Not Available

U = Undetected at method reporting limit shown

J = Data Validation Qualifier. The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

TABLE 4
Groundwater Field Parameters
 Debock's Texaco
 Grandview, Washington

Well Name	Date	Dissolved Oxygen	Oxidation Reduction Potential	Ferrous Iron	pH	Turbidity (NTUs)	Specific Conductance
		(mg/L) DRI ^a	(mV) DRI ^a	(Fe 2+) (mg/L) HACH ^b	(unitless) DRI ^a		(ms/cm) DRI ^a
MW-1	02/02/2018	3.6	74	0.0	7.1	8.2	1.676
	04/24/2018	1.1	25	0.0	6.9	4.8	1.586
	07/18/2018	1.8	4.4	0.5	7.0	5.3	1.747
	10/23/2018	0.29	85	0.0	7.0	3.0	1.208
MW-2	02/02/2018 ¹	-	-	-	-	-	-
	04/25/2018 ¹	-	-	-	-	-	-
	07/18/2018	1.2	-181	5.5 ^c	7.6	0.40	1.895
	10/22/2018 ¹	-	-	-	-	-	-
MW-3	02/02/2018	0.79	25	0.0	7.2	33	1.334
	04/24/2018	0.80	-41	1.0 ^c	6.9	2.7	1.321
	07/18/2018	1.2	-57	3.0 ^c	7.1	1.0	1.632
	10/23/2018	0.35	-23	2.5 ^c	6.9	12	1.132
MW-4	04/25/2018	0.84	142	0.0	6.9	0.0	1.626
	07/19/2018	1.4	138	0.0	7.3	3.9	2.068
	10/23/2018	0.34	-29	2.5 ^c	6.9	4.8	1.488
MW-5	04/25/2018	2.0	122	0.0	7.2	0.0	0.878
	07/19/2018	2.0	205	0.0	7.6	2.1	1.083
	10/23/2018	0.53	-47	1.0 ^c	7.1	5.2	0.857
MW-6	04/25/2018	1.1	155	0.0	7.1	0.90	1.309
	07/18/2018	1.4	90	1.0 ^c	7.2	14	1.673
	10/23/2018	0.44	88	0.0	6.9	4.4	1.242
MW-7	04/25/2018	1.0	112	-	7.1	0.0	1.104
	07/19/2018	1.7	142	0.5	7.6	2.4	1.311
	10/24/2018	1.4	124	0.0	6.8	2.4	1.017
MW-8	04/25/2018	0.89	-38	0.5 ^c	7.0	50	1.612
	07/17/2018	1.5	-61	3.0 ^c	7.1	4.4	2.115
	10/24/2018	0.54	-64	6.5 ^c	6.9	3.9	1.443
MW-9	04/24/2018	2.4	124	0.0	7.2	2.8	1.419
	07/18/2018	3.0	216	0.0	7.1	16	1.738
	10/23/2018	0.52	116	0.0	7.0	2.8	1.514
MW-10	04/24/2018	1.1	46	0.0	7.0	16	1.550
	07/18/2018	1.5	0.70	0.5 ^c	7.1	27	1.879
	10/23/2018	0.31	-9.9	0.5 ^c	6.9	3.9	1.345
MW-11	04/24/2018	1.3	45	0.0	7.0	8.5	1.098
	07/18/2018	1.4	14	0.5 ^c	6.9	8.7	1.318
	10/24/2018	0.46	28	1.0 ^c	6.8	2.7	1.028
MW-12	04/24/2018	0.97	-30	0.0	7.0	22	1.644
	07/19/2018	1.5	-59	3.0 ^c	6.9	3.9	1.856
	10/24/2018	0.82	-40	3.5 ^c	6.9	3.0	1.396

TABLE 4
Groundwater Field Parameters
Debock's Texaco
Grandview, Washington

Notes:

- ^a DRI = Direct-Read Instrument
- ^b HACH = Colorimetric "Hach" Field Kit
- ^c Field filtered sample
- ¹ Free product observed - not measured
- mg/L = milligrams per liter
- mV = millivolts
- ms/cm = millisiemens per centimeter
- NTU = nephelometric turbidity units
- = not measured

TABLE 5
Groundwater Analytical Results - Fuels, Volatile Organic Compounds and Lead (ug/L)
 Debock's Texaco
 Grandview, Washington

Location	Date	Gasoline	Diesel	Oil	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	EDB	EDC	Total Lead	Dissolved Lead
Groundwater Screening Levels														
	Method A ^a	800	500	500	5	1,000	700	1,000	20	160	0.01	5	15	NA
	Method B ^b	NA	NA	NA	0.795	640	800	1,600	24.3	160	0.0219	0.481	NA	NA
MW-1	02/02/2018	928	866 J ⁷	385 U	0.20 U	1.0 U	0.50 U	1.5 U	1.0 U	2.0 U	0.033 U ^{2,4}	0.50 U	0.27	0.20 U
	04/24/2018	725	-	-	0.20 U	1.0 U	0.50 U	1.5 U	1.0 U	2.0 U	0.020 U ^{2,3,4}	0.50 U	0.20 U	0.20
	07/18/2018	364	-	-	0.20 U	1.0 U	0.50 U	1.5 U	-	2.0 U	-	-	0.20 U	-
	10/23/2018	250	-	-	0.20 U	1.0 U	0.50 U	1.5 U	1.0 U	2.0 U	0.50 U	0.50 U	0.20 U	-
MW-2 (free product)	02/01/2018 ^c	DET ¹	45,000,000 U ¹	90,100,000 U ¹	6,760 U	50,700	1,700,000	3,892,000	33,800 U	1,220,000	33,800 U	16,900 U	-	-
	04/24/2018 ^d	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-2 (groundwater)	07/18/2018	14,500	948 J ⁵	404 U	12	34	441	936	10 U	193	5.0 U	5.0 U	2.6	-
	10/23/2018 ^d	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-3	02/02/2018	121	269 J ⁷	377 U	0.20 U	1.0 U	0.50 U	1.5 U	1.0 U	2.0 U	0.010 U ^{2,3}	0.50 U	0.27	0.20 U
	04/24/2018	821	-	-	0.20 U	1.0 U	5.0	13	1.0 U	2.0 U	0.020 U ^{2,3,4}	0.50 U	0.20 U	0.44
	07/18/2018	715	-	-	0.20 U	1.0 U	12	20	-	2.0 U	-	-	0.20 U	-
	10/23/2018	564	-	-	0.20 U	1.0 U	0.50 U	1.5 U	1.0 U	2.0 U	0.50 U	0.50 U	0.20 U	-
MW-4	04/25/2018	521	-	-	0.53	1.0 U	0.50 U	1.5 U	1.0 U	2.0 U	0.010 U ^{2,3}	0.50 U	0.93	0.64
	07/19/2018	121	-	-	0.21	1.0 U	0.50 U	1.5 U	-	2.0 U	-	-	-	-
	10/23/2018	653	-	-	1.2	1.0 U	0.50 U	1.5 U	1.0 U	2.0 U	0.50 U	0.50 U	2.7	-
MW-5	04/25/2018	390	-	-	0.24	1.0 U	0.50 U	1.5 U	1.0 U	2.0 U	0.010 U ^{2,3}	0.50 U	0.94	0.71
	07/19/2018	100 U	-	-	0.20 U	1.0 U	0.50 U	1.5 U	-	2.0 U	-	-	-	-
	10/23/2018	767	-	-	0.33	1.0 U	1.3 J	2.2 J	1.0 U	2.0 U	0.50 U	0.50 U	1.1	-
MW-6	04/25/2018	100 U	-	-	0.20 U	1.0 U	0.50 U	1.5 U	1.0 U	2.0 U	0.010 U ^{2,3}	0.50 U	0.82	0.23
	07/18/2018	100 U	-	-	0.20 U	1.0 U	0.50 U	1.5 U	-	2.0 U	-	-	-	-
	10/23/2018	100 U	-	-	0.20 U	1.0 U	0.50 U	1.5 U	1.0 U	2.0 U	0.50 U	0.50 U	0.71	-
MW-7	04/25/2018	100 U	-	-	0.20 U	1.0 U	0.74	1.5 U	1.0 U	2.0 U	0.010 U ^{2,3}	0.50 U	1.5	0.71
	07/19/2018	100 U	-	-	0.20 U	1.0 U	0.50 U	1.5 U	-	2.0 U	-	-	-	-
	10/24/2018	100 U	-	-	0.20 U	1.0 U	0.50 U	1.5 U	1.0 U	2.0 U	0.50 U	0.50 U	0.63	-
MW-8	04/25/2018	5,860	-	-	0.20 U	3.9	75	299	1.0 U	58	0.020 U ^{2,3,4}	0.50 U	3.8	0.66
	07/18/2018	1,590	-	-	0.20 U	1.0 U	8.9	18	-	22	-	-	1.3	-
MW-50 (DUP)	07/18/2018	1,410	-	-	0.20 U	1.0 U	8.9	16	-	17	-	-	-	-
	10/24/2018	2,390	-	-	0.20 U	5.2	121 J	206 J	1.0 U	35 J	0.50 U	0.50 U	0.90	-
MW-50 (DUP)	10/24/2018	2,170	-	-	0.20 U	4.9	112 J	190 J	1.0 U	32 J	0.50 U	0.50 U	0.92	-
MW-9	04/24/2018	100 U	-	-	0.20 U	1.0 U	0.50 U	1.5 U	1.0 U	2.0 U	0.010 U ^{2,3}	0.50 U	2.5	0.20 U
	07/18/2018	100 U	-	-	0.20 U	1.0 U	0.50 U	1.5 U	-	2.0 U	-	-	-	-
	10/23/2018	100 U	-	-	0.20 U	1.0 U	0.50 U	1.5 U	1.0 U	2.0 U	0.50 U	0.50 U	0.28	-
MW-10	04/24/2018	1,210	-	-	2.5	1.0 U	9.2	13	1.0 U	2.0 U	0.020 U ^{2,3,4}	0.50 U	1.1	1.1
MW-50 (DUP)	04/24/2018	779	-	-	2.1	1.0 U	3.8	5.1	1.0 U	2.0 U	0.020 U ^{2,3,4,6}	0.50 U	0.95	0.85
	07/18/2018	466	-	-	1.2	1.0 U	0.50 U	1.5 U	-	2.0 U	-	-	1.4	-
	10/23/2018	1,910	-	-	3.5	1.0 U	2.3 J	3.0 J	1.0 U	2.0 U	0.50 U	0.50 U	1.8	-
MW-11	04/24/2018	2,060	-	-	0.73	1.5	1.6	16	1.0 U	2.0 U	0.020 U ^{2,3,4}	0.50 U	0.72	0.61
	07/18/2018	834	-	-	0.31	1.0 U	0.50 U	1.5 U	-	2.0 U	-	-	0.59	-
	10/24/2018	2,180	-	-	0.72	1.0 U	4.8 J	3.2 J	1.0 U	9.4 J	0.50 U	0.50 U	0.77	-
MW-12	04/24/2018	3,780	-	-	5.8	50	92	596	1.0 U	6.0	0.020 U ^{2,3,4}	0.50 U	0.91	1.1
	07/19/2018	2,070	-	-	2.3	10 U	15	281	-	20 U	-	-	0.51	-
	10/24/2018	2,060	-	-	5.1	2.5	17	59	1.0 U	6.9	0.50 U	0.50 U	0.60	-
B1-W	03/15/2018	7,240	1,070 J ⁵	1,960 U	31	6.9	98	195	5.0 U	162	2.5 U	2.5 U	7.6	1.3

TABLE 5
Groundwater Analytical Results - Fuels, Volatile Organic Compounds and Lead (ug/L)
 Debock's Texaco
 Grandview, Washington

Location	Date	Gasoline	Diesel	Oil	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	EDB	EDC	Total Lead	Dissolved Lead
Groundwater Screening Levels														
	Method A ^a	800	500	500	5	1,000	700	1,000	20	160	0.01	5	15	NA
	Method B ^b	NA	NA	NA	0.795	640	800	1,600	24.3	160	0.0219	0.481	NA	NA
B3-W	03/16/2018	1,440	348 J ⁵	388 U	0.20 U	1.0 U	9.9	35	1.0 U	2.0 U	0.50 U	0.50 U	18	2.0 U
B4-W	03/16/2018	5,250	411 J ⁵	388 U	1.3	66	92	588	5.0 U	21	2.5 U	2.5 U	13	1.0 U
B6-W	04/03/2018	1,280	194 U	388 U	6.1	5.2	36	125	1.0 U	4.3	0.50 U	0.50 U	28	1.1
B7-W	04/03/2018	1,270	190 U	381 U	0.20 U	1.4	28	40	1.0 U	6.2	0.50 U	0.50 U	27	0.26
B8-W	04/03/2018	1,290	317 ⁵	381 U	0.26	13	39	68	1.0 U	5.2	0.50 U	0.50 U	26	0.20 U
B9-W	04/03/2018	725	238 ⁵	392 U	0.20 U	2.3	18	39	1.0 U	2.0 U	0.50 U	0.50 U	11	0.20 U
B10-W	04/04/2018	449	389 ⁵	374 U	0.20 U	3.9	0.50 U	1.5 U	1.0 U	2.0 U	0.50 U	0.50 U	4.3	0.20 U

Notes:

^a Model Toxics Control Act (MTCA) Cleanup Amendments, Method A Groundwater Cleanup Levels (WDOE, CLARC, August 2015)

^b MTCA Cleanup Amendments, Method B Groundwater Cleanup Levels (WDOE, CLARC, August 2015)

^c Concentrations are shown in units of micrograms per kilogram (ug/kg) wet

^d Free product observed - not sampled

Gasoline analyzed by Method NWTPH-Gx

Diesel and Oil analyzed by Method NWTPH-Dx

Volatile Organic Compounds (VOCs) by EPA Method 8260C

Lead by EPA Method 200.8 (ICPMS)

¹ Gasoline, Diesel and Oil analyzed by Method NWTPH-HCID

² EDB was analyzed by EPA Method 8260C-SIM

³ Analyte was reported down to the method detection limit (MDL)

⁴ The reporting limit for this analyte has been raised to account for interference from coeluting compounds and/or matrix interference.

⁵ The result for diesel (diesel range organics, C12-C24) is due to overlap from gasoline or a gasoline range product.

⁶ The sample aliquot was taken from a vial with headspace (air bubble greater than 6mm diameter).

⁷ The chromatographic pattern does not resemble the fuel standard used for quantitation.

ug/L = micrograms per liter

MTBE = Methyl tert-butyl ether

EDB = 1,2-Dibromoethane

EDC = 1,2-Dichloroethane

U = Undetected at method reporting limit shown

J = Data Validation Qualifier. The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

NA = Not Available

- = Not analyzed for this parameter

BOLD values exceed a screening level.

Italicized values indicate reporting limit was higher than the screening level.

TABLE 6
Groundwater Analytical Results - Polynuclear Aromatic Hydrocarbons (ug/L)
 Debock's Texaco
 Grandview, Washington

Location	Date	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	Fluoranthene	Fluorene	Indeno (1,2,3-cd)pyrene	1-Methyl naphthalene	2-Methyl naphthalene	Naphthalene	Phenanthrene	Pyrene
Groundwater Screening Levels																				
	Method A ^a	NA	NA	NA	NA	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	160	NA	NA
	Method B ^b	960	NA	4,800	0.12	0.012	0.12	NA	1.2	12	0.012	16	640	640	0.12	1.51	32	160	NA	480
MW-1	02/02/2018	0.042 U	0.083 U ¹	0.042 U	0.042 U	<i>0.042 U</i>	0.042 U	0.042 U	0.042 U	0.042 U	<i>0.042 U</i>	0.042 U	0.042 U	0.042 U	0.042 U	0.10 U ¹	0.083 U	0.20 U ¹	0.042 U	0.042 U
MW-3	02/02/2018	0.042 U	0.042 U	0.042 U	0.042 U	<i>0.042 U</i>	0.042 U	0.042 U	0.042 U	0.042 U	<i>0.042 U</i>	0.042 U	0.042 U	0.042 U	0.042 U	0.083 U	0.083 U	0.083 U	0.042 U	0.042 U
B1-W	03/15/2018	0.19 U	0.19 U	0.19 U	<i>0.19 U</i>	<i>0.19 U</i>	<i>0.19 U</i>	0.19 U	0.19 U	0.19 U	<i>0.19 U</i>	0.19 U	0.19 U	0.19 U	<i>0.19 U</i>	1.3	0.56	37	0.19 U	0.19 U
B4-W	03/16/2018	0.090 U	0.050 U	0.040 U	0.040 U	<i>0.040 U</i>	0.040 U	0.040 U	0.040 U	0.040 U	<i>0.040 U</i>	0.040 U	0.040 U	0.040 U	0.040 U	6.2	5.5	15	0.066	0.040 U

Notes:

^a Model Toxics Control Act (MTCA) Cleanup Amendments, Method A Groundwater Cleanup Levels (WDOE, CLARC Database, August 2015)

^b MTCA Cleanup Amendments, Method B Groundwater Cleanup Levels (WDOE, CLARC Database, August 2015)

Polyaromatic Hydrocarbons (PAHs) analyzed by EPA Method 8270D SIM

ug/L = micrograms per liter

U = Undetected at method reporting limit shown

J = Data Validation Qualifier. The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

¹ The reporting limit for this analyte has been raised to account for interference from coeluting compounds.

NA = Not Available

BOLD values exceed a screening level.

Italicized values indicate reporting limit was higher than a screening level.

TABLE 7
Soil Vapor Analytical Results - Gasoline and Volatile Organic Compounds (ug/m³)
 DeBock's Texaco
 Grandview, Washington

Location	Date	Depth (feet)	Field-Measured Biodegradation Parameters			Laboratory Analytical Testing Results													
			Oxygen (O ₂)	Carbon Dioxide (CO ₂)	Methane (CH ₄)	Gasoline	Benzene	Toluene	Ethylbenzene	o-Xylene	m,p-Xylene	MTBE	Naphthalene	EDB	EDC	1,2,4-TMB	1,3,5-TMB	Hexane	Ethanol
MTCA Soil Gas Screening Levels ^a																			
	Method B Sub-Slab		NA	NA	NA	NA	10.7	76,200	1,520	1,520	1,520 ^b	321	2.45	0.139	3.21	107	NA	10,700	NA
SG1	03/14/2018	5	19.0%	1.6%	0%	75 U	0.66	0.77	0.16	0.19	0.33	0.66 U	0.48 U	<i>0.28 U</i>	0.15 U	0.90 U	0.90 U	0.64 U	5.1
SG2	03/14/2018	5	19.1%	1.9%	0%	90	2.0	3.0	0.70	1.1	2.3	0.69 U	0.50 U	<i>0.29 U</i>	0.15 U	0.94 U	0.94 U	2.1	2.9
SG3	03/14/2018	5	19.5%	1.3%	0%	75 U	0.76	2.4	0.58	0.80	2.1	0.66 U	0.48 U	<i>0.28 U</i>	0.15 U	1.0	0.90 U	0.64 U	12
SG4	03/14/2018	5	20.3%	0.2%	0%	72 U	0.38	1.6	0.19	0.31	0.66	0.63 U	0.46 U	<i>0.27 U</i>	0.14 U	1.2	0.86 U	0.62 U	1.6 U
SG5	03/14/2018	5	17.3%	2.7%	0%	70 U	1.1	1.5	0.36	0.36	0.89	0.62 U	0.45 U	<i>0.26 U</i>	0.14 U	0.84 U	0.84 U	0.60 U	4.2
SG6	03/14/2018	5	20.1%	0.7%	0%	72 U	0.53	11	0.44	0.94	1.8	0.63 U	0.59	<i>0.27 U</i>	0.14 U	1.8	0.86 U	1.2	3.2
SG7	03/14/2018	5	18.5%	2.4%	0%	280	1.2	2.3	1.1	2.2	5.0	0.62 U	2.5	<i>0.26 U</i>	0.14 U	18	5.8	0.60 U	4.6
SG8	03/14/2018	5	16.8%	3.5%	0%	72 U	4.8	1.7	0.38	0.63	1.4	0.63 U	0.46 U	<i>0.27 U</i>	0.14 U	1.6	0.86 U	0.62 U	4.0
SG9	03/14/2018	5	20.6%	0.2%	0%	72 U	0.28 U	1.0	0.21	0.33	0.76	0.63 U	0.46 U	<i>0.27 U</i>	0.14 U	0.86 U	0.86 U	0.62 U	2.5

Notes:

Gasoline and Volatile Organic Compounds analyzed by EPA Method TO-15 modified.

^a Washington Department of Ecology (WDOE), Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action, CLARC Tables (August 2015)

^b Screening level shown is for m-Xylene

MTBE = Methyl tert butyl ether

EDB = 1,2-Dibromoethane

EDC = 1,2-Dichloroethane

TMB = Trimethylbenzene

U = Undetected at reporting limit shown

NA = Not available

BOLD values exceed the MTCA B screening level

Italicized reporting limits are above the MTCA B screening level

Charts

CHART 1
Historic and Current Depth to Water
 DeBock's Texaco
 Grandview, Washington

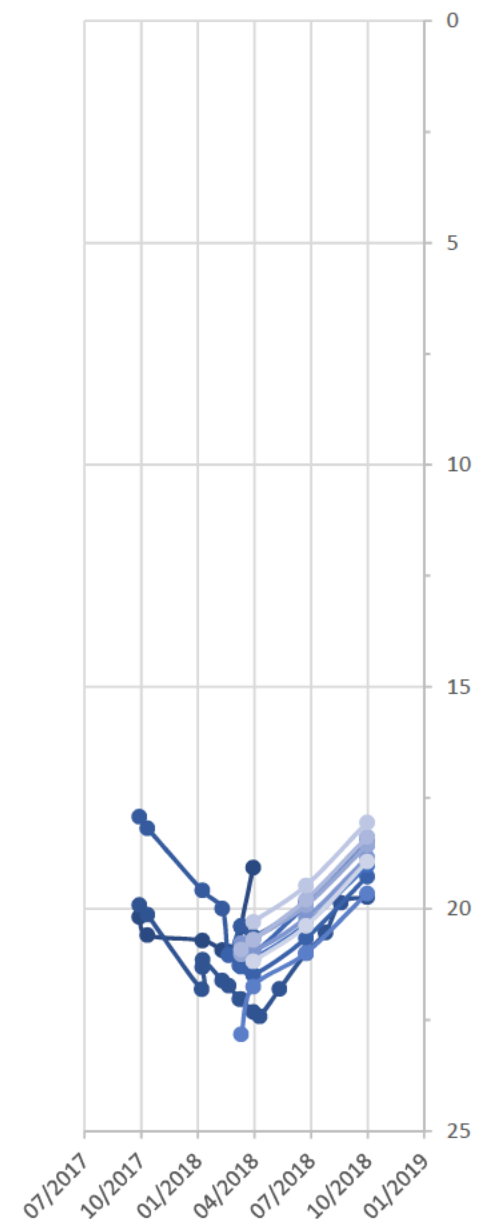
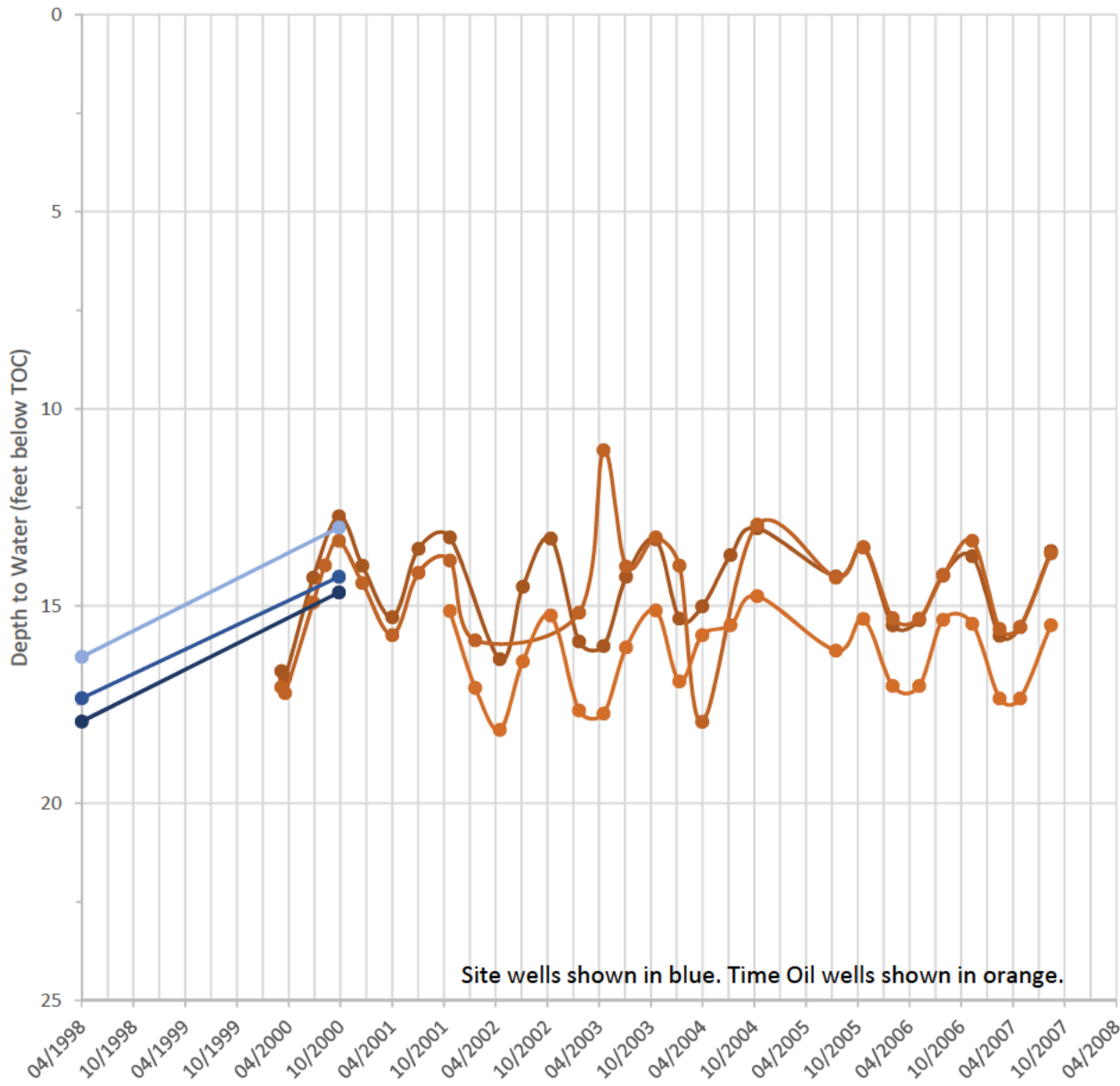


CHART 2
Product Thickness Trend
 DeBock's Texaco
 Grandview, Washington

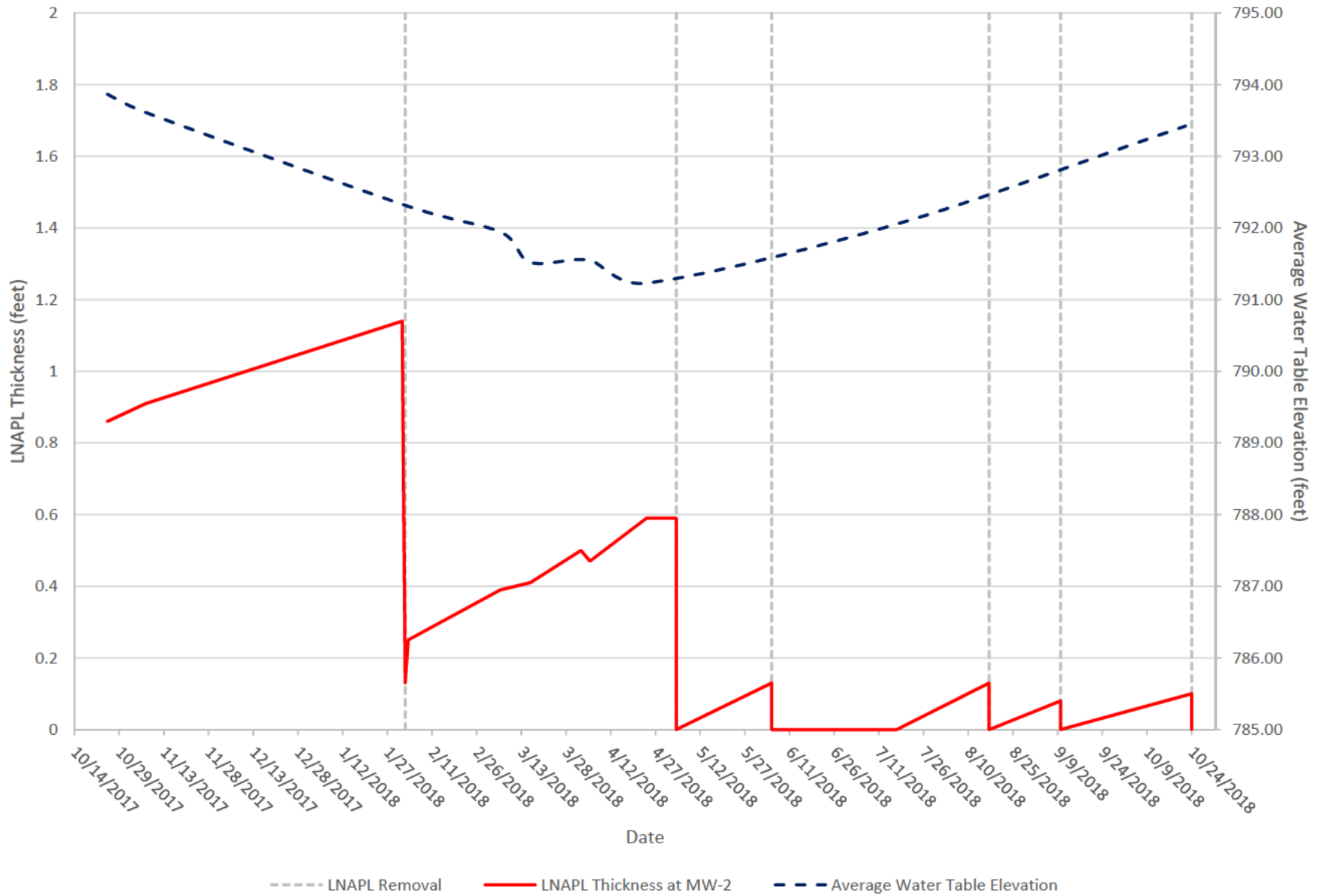
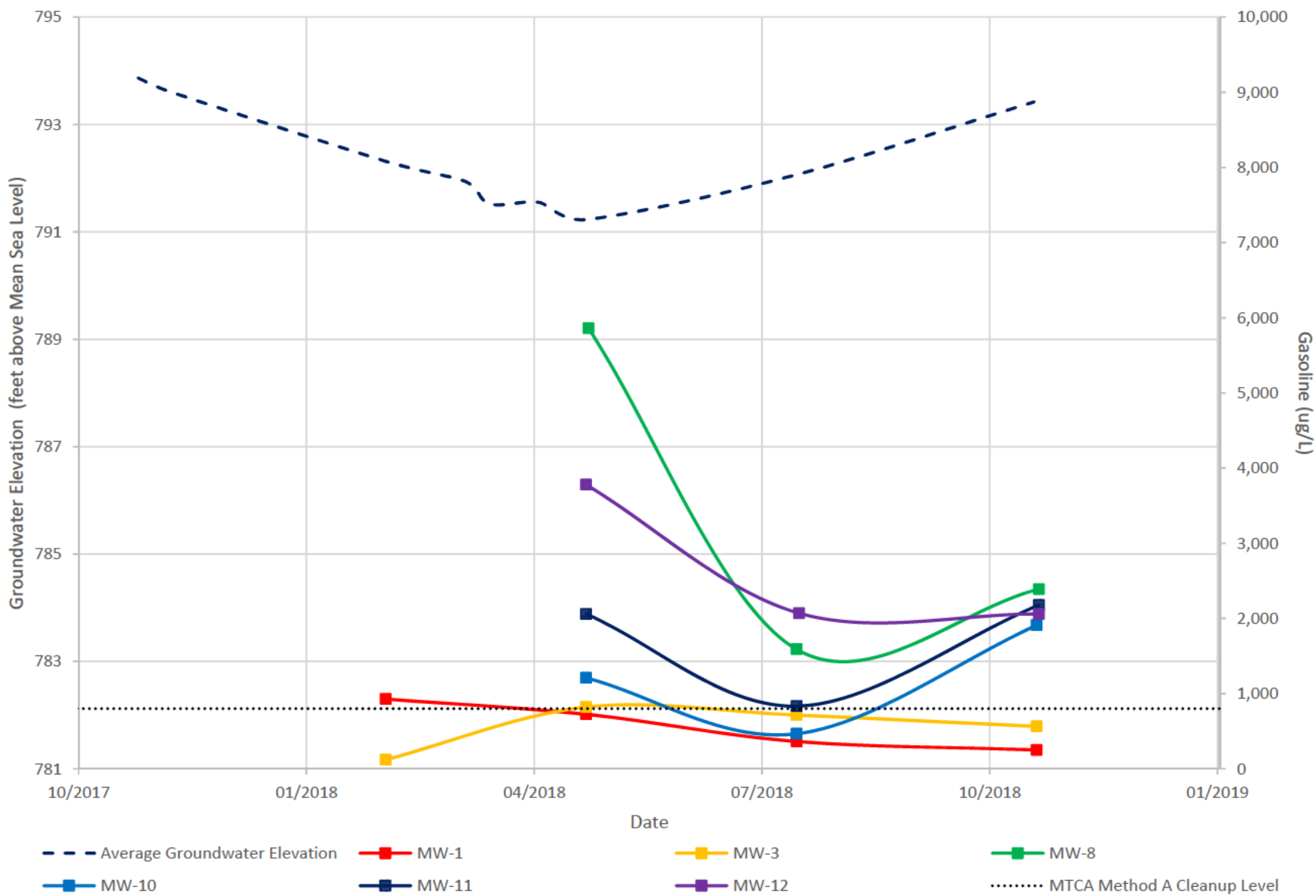


CHART 3
Groundwater Elevation vs. Gasoline Concentrations in Groundwater
 DeBock's Texaco
 Grandview, Washington



Attachment A

EES LOG WITH WELL & SHEEN - LOG A EWN03.GDT - 10/19/18 17:17 - C:\USERS\SIDAN.ELEIDROPBOX (EES ENVIRONMENTAL)\EES TEAM FOLDER (THE REAL ONE)\001EES ADMIN-MASTER\GINT\PROJECTS\2093-01 DEBOCKS 2018 10 09.GPJ

BORING NO. **B1**
 PROJECT **DeBock's Texaco**
 LOCATION **Grandview, Washington**
 PROJECT NO. **2093-01**
 LOGGED BY **DBP**

START CARD **RE15821** WELL ID
 COORDINATES
 SURFACE ELEVATION DATUM

SAMPLE INFORMATION						STRATA	DESCRIPTION	CONSTRUCTION DETAIL/ COMMENTS	ELEVATION FEET
DEPTH FEET	LAB SAMPLE ID	pH	PID (ppmV)	SHEEN	RECOVERY %				
0	B1-3		0.0	NO	100	Vegetation. Brown SILT (ML), trace sand, trace gravel; medium stiff, dry, sand is fine, gravel is coarse. Becomes moist.	Installed temporary 3/4-inch Sch 40 PVC well screened from 19 to 24 feet with 0.010-inch slots. Conductor casing left in place from 0 to 19 feet during groundwater sampling. Collected groundwater sample B1W.		
5			0.0	NO	100	Becomes without gravel.			
10	B1-10		0.0	NO	100	Gray-brown silty SAND (SM); medium loose, moist, fine. Medium sand lens.			
15	B1-15		501.9	SLIGHT	100	Brown SILT; stiff, moist, stratified 1-inch-thick medium sand layers every 1 foot from 11 to 14.5 feet. Becomes gray (stained).			
			437.1	SLIGHT		Gray to black (stained) SAND (SP), minor silt; loose, moist, fine.			
20	B1-20		41.5	NO	100	Gray-brown (stained) SILT (ML), minor sand; soft, wet, sand is fine. Gray-brown silty SAND (SM); medium dense, moist, fine.			
25	B1-25		11.6	NO		Brown SILT (ML), trace sand; soft, saturated, sand is fine.			
			0.0	NO					
25						Boring complete at 25 feet, backfilled with bentonite chips and finished at surface with existing soil.			

DRILLING CONTRACTOR **Cascade Drilling**
 DRILLING METHOD **Hand Auger/Direct Push**
 DRILLING EQUIPMENT **Geoprobe 7720DT**
 DRILLING STARTED **3/15/18** ENDED **3/15/18**

REMARKS **Boring advanced from 0 to 5 feet bgs using hand auger, then advanced to terminal depth using direct-push tooling.**

 See key sheet for symbols and abbreviations used above.

EES LOG WITH WELL & SHEEN - LOG A EWN03.GDT - 10/19/18 17:17 - C:\USERS\SIDAN ELEIDROPBOX (EES ENVIRONMENTAL)\EES TEAM FOLDER (THE REAL ONE)\001EES ADMIN-MASTER\GINT\PROJECTS\2093-01 DEBOCK'S 2018 10 09.GPJ

START CARD **RE15821** WELL ID **MW-4**
 COORDINATES
 SURFACE ELEVATION DATUM

SAMPLE INFORMATION						STRATA	DESCRIPTION	CONSTRUCTION DETAIL/ COMMENTS	ELEVATION FEET
DEPTH FEET	LAB SAMPLE ID	pH	PID (ppmV)	SHEEN	RECOVERY %				
0					100	Vegetation. Brown silty SAND (SM); loose, moist, fine.		Well is sealed at the surface using concrete, a flush-mounted traffic-rated steel monument and locking cap.	
5			0.0	NO	100				
			0.0	NO	100				
			0.0	VERY SLIGHT	100				
10	B2-10		0.0	NO	100				
			0.0	NO	100	Brown SILT (ML), minor sand; stiff, moist, sand is fine. 2-inch-thick coarse sand lens.			
15	B2-15		381.2	SLIGHT	100	Grades to gray (stained) SAND (SW); loose, moist, medium grain. Gray (stained) SILT (ML); stiff, moist. Hard drilling from 15 feet to 20 feet.			
			33.1	SLIGHT	100	Becomes with mottled black staining and saturated.			
20	B2-19		955.1	MOD.	100	Grades from gray to tan silty SAND (SM); dense, saturated, fine. Strong petroleum odor at 19 feet. Becomes loose.			
			27.2	NO	100	Becomes very dense; hard drilling from 22.5 feet to 25 feet.			
			30.1	NO	100				
25	B2-25		0.0	NO	100				
						Boring complete at 25 feet. Installed groundwater monitoring well.			

DRILLING CONTRACTOR **Cascade Drilling**
 DRILLING METHOD **Hand Auger/Direct Push**
 DRILLING EQUIPMENT **Geoprobe 7720DT**
 DRILLING STARTED **3/15/18** ENDED **3/15/18**

REMARKS **Boring advanced from 0 to 5 feet bgs using hand auger, then advanced to terminal depth using direct-push tooling.**

 See key sheet for symbols and abbreviations used above.

EES LOG WITH WELL & SHEEN - LOG A EWN03.GDT - 10/19/18 17:17 - C:\USERS\SIDAN.ELEIDROPBOX (EES ENVIRONMENTAL)\EES TEAM FOLDER (THE REAL ONE)\001EES ADMIN-MASTER\GINT\PROJECTS\2093-01 DEBOCKS 2018 10 09.GPJ

START CARD **RE15821** WELL ID
 COORDINATES
 SURFACE ELEVATION DATUM

SAMPLE INFORMATION						STRATA	DESCRIPTION	CONSTRUCTION DETAIL/ COMMENTS	ELEVATION FEET
DEPTH FEET	LAB SAMPLE ID	pH	PID (ppmV)	SHEEN	RECOVERY %				
0					100	Concrete.		Installed temporary 3/4-inch Sch 40 PVC well screened from 15 to 25 feet with 0.010-inch slots. Conductor casing left in place from 0 to 15 feet during groundwater sampling. Collected groundwater sample B3W.	
5	B3-3		0.0	VERY SLIGHT	100	Brown sandy SILT (SM); soft, damp, sand is fine.			
			0.0	NO		Becomes stiff.			
			0.0	NO		1-inch-thick sand lenses at 9 and 9.5 feet; sand is fine to medium.			
10	B3-10		0.0	NO	100	Brown SAND (SP), minor silt; loose, moist, medium grain.			
						Brown silty SAND (SM); medium dense, moist, fine.			
			107.1	NO		Gray (stained) SILT (ML), trace sand; stiff, moist, sand is fine.			
15	B3-15		215.3	SLIGHT	100	Fine sand lens from 14 to 14.5 feet.			
			1,863	MOD.		Gray with mottled black (stained) silty SAND (SM); dense, wet, sand is fine. Black (stained) lens from 15 to 15.2 feet; strong petroleum odor.			
			343.1	SLIGHT					
20	B3-20		9.0	NO	100	Grades to light-brown and becomes saturated. Becomes loose.	▼		
			4.1	NO		Becomes very dense.			
25	B3-25		1.5	NO					
						Boring complete at 25 feet, backfilled with bentonite chips and finished at surface with concrete.			

DRILLING CONTRACTOR **Cascade Drilling**
 DRILLING METHOD **Hand Auger/Direct Push**
 DRILLING EQUIPMENT **Geoprobe 7720DT**
 DRILLING STARTED **3/16/18** ENDED **3/16/18**

REMARKS **Boring advanced from 0 to 5 feet bgs using hand auger, then advanced to terminal depth using direct-push tooling.**
 See key sheet for symbols and abbreviations used above.

EES LOG WITH WELL & SHEEN - LOG A EWN03.GDT - 10/19/18 17:17 - C:\USERS\ADMIN-MASTER\GINT\PROJECTS\2093-01 DEBOCKS 2018 10 09.GPJ

START CARD **RE15821** WELL ID
 COORDINATES
 SURFACE ELEVATION DATUM

SAMPLE INFORMATION						STRATA	DESCRIPTION	CONSTRUCTION DETAIL/ COMMENTS	ELEVATION FEET
DEPTH FEET	LAB SAMPLE ID	pH	PID (ppmV)	SHEEN	RECOVERY %				
0					20	Concrete.		Installed temporary 3/4-inch Sch 40 PVC well screened from 15 to 25 feet with 0.010-inch slots. Conductor casing left in place from 0 to 15 feet during groundwater sampling. Collected groundwater sample B4W.	
2					0	Gray GRAVEL (GP); medium dense, dry, fine (pea gravel; fill). No recovery from 2 to 14 feet (pea gravel being pushed to side by shoe).			
15	B4-15		719.1 2,121	VERY SLIGHT HEAVY	100	Brown silty SAND (SM); medium dense, moist, fine. Becomes stained gray at 14.5 feet. Strong petroleum odor from 15.5 to 20 feet.			
18.5	B4-17		2,195	HEAVY		Gray (stained) SILT (ML), minor sand; medium stiff, saturated, sand is fine. Becomes medium soft; sheen on core from 16.5 to 18.5 feet. Becomes medium stiff.			
20	B4-20		2,774	HEAVY	100	Gray (stained) silty SAND (SM); very dense, wet, fine, stratified 0.5-inch-thick fine sand layers every 1 foot. Very hard drilling from 20 to 25 feet.	▼		
25	B4-25			NO					
							Boring complete at 25 feet, backfilled with bentonite chips, and finished at surface with concrete.		

DRILLING CONTRACTOR **Cascade Drilling**
 DRILLING METHOD **Hand Auger/Direct Push**
 DRILLING EQUIPMENT **Geoprobe 7720DT**
 DRILLING STARTED **3/16/18** ENDED **3/16/18**

REMARKS **Boring advanced to terminal depth using direct-push tooling.**

 See key sheet for symbols and abbreviations used above.

EES LOG WITH WELL & SHEEN - LOG A EWN03.GDT - 10/19/18 17:17 - C:\USERS\SIDAN.ELEIDROPBOX (EES ENVIRONMENTAL)\EES TEAM FOLDER (THE REAL ONE)\001EES ADMIN-MASTER\GINT\PROJECTS\2093-01 DEBOCKS 2018 10 09.GPJ

START CARD **RE15821** WELL ID **MW-5**
 COORDINATES
 SURFACE ELEVATION DATUM

SAMPLE INFORMATION						STRATA	DESCRIPTION	CONSTRUCTION DETAIL/ COMMENTS	ELEVATION FEET
DEPTH FEET	LAB SAMPLE ID	pH	PID (ppmV)	SHEEN	RECOVERY %				
0					100	Vegetation.		Well is sealed at the surface using concrete, a flush-mounted traffic-rated steel monument and locking cap.	
5	B5-5		1.0	VERY SLIGHT	100	Brown silty SAND (SM); very loose, dry, fine.			
			2.6	VERY SLIGHT	100				
10	B5-10		0.5	NO					
			0.2	VERY SLIGHT	100	Becomes dense.			
			1.5	SLIGHT					
15	B5-15		1,597	SLIGHT	100	Strong petroleum odor from 14.5 to 20 feet.		Well constructed using two-inch diameter threaded schedule-40 PVC casing and screened with machine-cut 0.020-inch slots. Filter media consists of #8/10 sand. Ecology Well Tag ID: BKR 329	
			8.1	SLIGHT		Gray to black (stained) SAND (SP) with silt; dense, dry, fine.			
			36.2	SLIGHT		Gray (stained) silty SAND (SM); dense, wet, fine.			
20	B5-20		44.0	SLIGHT	100	Brown SAND (SP) with silt; dense, moist, fine.			
			2.6	NO					
25	B5-25		0.5	NO		Brown sandy SILT (ML); dense, wet, sand is fine.			
						Boring complete at 25 feet. Installed groundwater monitoring well.			

DRILLING CONTRACTOR **Cascade Drilling**
 DRILLING METHOD **Hand Auger/Direct Push**
 DRILLING EQUIPMENT **Geoprobe 7720DT**
 DRILLING STARTED **3/16/18** ENDED **3/16/18**

REMARKS **Boring advanced from 0 to 5 feet bgs using hand auger, then advanced to terminal depth using direct-push tooling.**
 See key sheet for symbols and abbreviations used above.

EES LOG WITH WELL & SHEEN - LOG A EWN03.GDT - 10/19/18 17:17 - C:\USERS\SIDAN.ELEIDROPBOX (EES ENVIRONMENTAL)\EES TEAM FOLDER (THE REAL ONE)\001EES ADMIN-MASTER\GINT\PROJECTS\2093-01 DEBOCKS 2018 10 09.GPJ

BORING NO. **B6**
 PROJECT **DeBock's Texaco**
 LOCATION **Grandview, Washington**
 PROJECT NO. **2093-01**
 LOGGED BY **DBP**

START CARD **RE15821** WELL ID
 COORDINATES
 SURFACE ELEVATION DATUM

SAMPLE INFORMATION						STRATA	DESCRIPTION	CONSTRUCTION DETAIL/ COMMENTS	ELEVATION FEET
DEPTH FEET	LAB SAMPLE ID	pH	PID (ppmV)	SHEEN	RECOVERY %				
0					100	Vegetation and topsoil.			
0	B6-3		0.0	VERY SLIGHT	100	1-inch-thick asphalt layer.	Installed temporary 3/4-inch Sch 40 PVC well screened from 20 to 25 feet with 0.010-inch slots. Conductor casing left in place from 0 to 20 feet during groundwater sampling. Collected groundwater sample B6W.		
5			0.0	VERY SLIGHT	100	Gray-brown silty SAND (SM), minor gravel; loose, moist, fine, gravel is coarse. Gravel becomes trace.			
			0.0	NO		Becomes very dense.			
10			0.0	NO	100	Becomes brown.			
			1.2	NO					
15	B6-15		148.5	NO	100	Becomes gray (stained). Gray (stained) SAND (SP), trace silt; moist, fine to medium.			
	B6-17		1,096	SLIGHT		Gray (stained) silty SAND (SM); dense, moist, fine, stratified 1- to 2-inch-thick fine to medium sand layers every 1 to 2 feet from 14.5 to 20 feet. Strong petroleum odor from 17 to 23 feet.			
20	B6-20		990.9	SLIGHT	100	Light-brown SILT (ML) with sand; soft, saturated, sand is fine. Strong petroleum odor.			
			345.3	SLIGHT		Light-brown silty SAND (SM); very dense, saturated, sand is fine.			
25	B6-25		2.5	NO		Boring complete at 25 feet, backfilled with bentonite chips, and finished at surface with existing soil.			

DRILLING CONTRACTOR **Cascade Drilling**
 DRILLING METHOD **Hand Auger/Direct Push**
 DRILLING EQUIPMENT **Geoprobe 7720DT**
 DRILLING STARTED **4/2/18** ENDED **4/4/18**

REMARKS **Boring advanced from 0 to 5 feet bgs using hand auger, then advanced to terminal depth using direct-push tooling.**

 See key sheet for symbols and abbreviations used above.

EES LOG WITH WELL & SHEEN - LOG A EWN03.GDT - 10/19/18 17:17 - C:\USERS\SDAN.ELEIDROPBOX (EES ENVIRONMENTAL)\EES TEAM FOLDER (THE REAL ONE)\001EES ADMIN-MASTER\GINT\PROJECTS\2093-01 DEBOCKS 2018 10 09.GPJ

START CARD **RE15821** WELL ID
 COORDINATES
 SURFACE ELEVATION DATUM

SAMPLE INFORMATION						STRATA	DESCRIPTION	CONSTRUCTION DETAIL/ COMMENTS	ELEVATION FEET
DEPTH FEET	LAB SAMPLE ID	pH	PID (ppmV)	SHEEN	RECOVERY %				
0					100	Vegetation and topsoil.			
0	B7-3		0.0	NO	100	1-inch-thick asphalt layer. Gray-brown silty SAND (SM), trace gravel; loose, moist, fine, gravel is coarse.	Installed temporary 3/4-inch Sch 40 PVC well screened from 20 to 25 feet with 0.010-inch slots. Conductor casing left in place from 0 to 20 feet during groundwater sampling. Collected groundwater sample B7W.		
5			0.5	NO	100	Becomes medium dense and without gravel.			
			0.7	NO					
10			0.7	NO	100	Mottled rust-red color from 9 to 9.5 feet.			
15	B7-15		276.0	HEAVY NO	100	Black staining at 14 feet. Strong petroleum odor from 14 to 20 feet. Becomes gray (stained). 1-inch-thick fine to medium sand lens at 14.5 feet. Becomes medium loose.			
20	B7-20		1,076	SLIGHT	100	Gray SILT (ML), with fine sand; loose, saturated, sand is fine. Grades to light-brown.			
			11.5	NO					
25			3.7	NO		Light-brown silty SAND (SM); medium dense, saturated, fine.			
25						Boring complete at 25 feet, backfilled with bentonite chips, and finished at surface with existing soil.			

DRILLING CONTRACTOR **Cascade Drilling**
 DRILLING METHOD **Hand Auger/Direct Push**
 DRILLING EQUIPMENT **Geoprobe 7720DT**
 DRILLING STARTED **4/2/18** ENDED **4/3/18**

REMARKS **Boring advanced from 0 to 5 feet bgs using hand
 auger, then advanced to terminal depth using direct-push
 tooling.**

 See key sheet for symbols and abbreviations used above.

EES LOG WITH WELL & SHEEN - LOG A EWN03.GDT - 10/19/18 17:17 - C:\USERS\SIDAN.ELEIDROPBOX (EES ENVIRONMENTAL)\EES TEAM FOLDER (THE REAL ONE)\001EES ADMIN-MASTER\GINT\PROJECTS\2093-01 DEBOCKS 2018 10 09.GPJ

START CARD **RE15821** WELL ID
 COORDINATES
 SURFACE ELEVATION DATUM

SAMPLE INFORMATION						STRATA	DESCRIPTION	CONSTRUCTION DETAIL/ COMMENTS	ELEVATION FEET
DEPTH FEET	LAB SAMPLE ID	pH	PID (ppmV)	SHEEN	RECOVERY %				
0	B8-3		0.7	NO	100		Gray GRAVEL (GP); dry, coarse (fill). Gray-brown silty SAND (SM); medium loose, moist, fine.	Installed temporary 3/4-inch Sch 40 PVC well screened from 20 to 25 feet with 0.010-inch slots. Conductor casing left in place from 0 to 20 feet during groundwater sampling. Collected groundwater sample B8W.	
5			0.3	NO	100		Becomes brown and sand becomes fine to medium.		
			0.4	NO			Becomes very dense.		
10			0.7	NO	100		Becomes stained gray. Strong petroleum odor from 14 to 20 feet. 2-inch-thick fine to medium sand lens.		
			1.1	NO			Becomes medium dense.		
15	B8-15		349.2	SLIGHT	100		Grades to light-brown. Becomes loose and saturated.		
			271.1	SLIGHT		Light-brown sandy SILT (ML); soft, saturated, sand is fine.			
20	B8-20		613.1	SLIGHT	100	Light-brown, silty SAND (SM); very dense, saturated, fine.			
			1.5	NO					
25	B8-25		1.3	NO			Boring complete at 25 feet, backfilled with bentonite chips, and finished at surface with existing gravel.		

DRILLING CONTRACTOR **Cascade Drilling**
 DRILLING METHOD **Hand Auger/Direct Push**
 DRILLING EQUIPMENT **Geoprobe 7720DT**
 DRILLING STARTED **4/2/18** ENDED **4/3/18**

REMARKS **Boring advanced from 0 to 10 feet bgs using hand auger, then advanced to terminal depth using direct-push tooling.**

 See key sheet for symbols and abbreviations used above.

EES LOG WITH WELL & SHEEN - LOG A EWN03.GDT - 10/19/18 17:17 - C:\USERS\SIDAN.ELEIDROPBOX (EES ENVIRONMENTAL)\EES TEAM FOLDER (THE REAL ONE)\001EES ADMIN-MASTER\GINT\PROJECTS\2093-01 DEBOCKS 2018 10 09.GPJ

START CARD **RE15821** WELL ID
 COORDINATES
 SURFACE ELEVATION DATUM

SAMPLE INFORMATION						STRATA	DESCRIPTION	CONSTRUCTION DETAIL/ COMMENTS	ELEVATION FEET
DEPTH FEET	LAB SAMPLE ID	pH	PID (ppmV)	SHEEN	RECOVERY %				
5	B9-16.5		0.0	SLIGHT	100		Gray GRAVEL (GP); dry, coarse (fill).	Installed temporary 3/4-inch Sch 40 PVC well screened from 20 to 25 feet with 0.010-inch slots. Conductor casing left in place from 0 to 20 feet during groundwater sampling. Collected groundwater sample B9W.	
			0.0	SLIGHT	100		Brown silty SAND (SM), minor gravel; medium loose, moist, fine to medium, gravel is coarse (fill).		
			0.0	VERY SLIGHT	100		Pieces of brick from 3 to 8 feet.		
			0.0	SLIGHT	100		Cobble at 6.5 feet.		
			0.0	NO	100		Gray-brown SILT (ML), minor sand; dense, moist, sand is fine (native).		
			132.0	SLIGHT	100		1-inch-thick black (stained) fine sand lens at 14 feet.		
15	B9-20		502.1	HEAVY	100	Gray (stained) silty SAND (SM); dense, moist, fine.			
			416.3	SLIGHT		Gray (stained) SILT (ML), minor sand; medium stiff, wet, sand is fine, mottled black staining. Strong petroleum odor at 16.5 feet.			
			1.9	NO		Gray (stained) silty SAND (SM); medium dense, moist, fine.			
20	B9-20		1.9	NO	100	Grades to light-brown; becomes loose and saturated.			
			1.5	NO		Becomes medium dense. Becomes dense.			
25							Boring complete at 25 feet, backfilled with bentonite chips, and finished at surface with existing gravel.		

DRILLING CONTRACTOR **Cascade Drilling**
 DRILLING METHOD **Hand Auger/Direct Push**
 DRILLING EQUIPMENT **Geoprobe 7720DT**
 DRILLING STARTED **4/3/18** ENDED **4/3/18**

REMARKS **Boring advanced from 0 to 6.5 feet bgs using hand auger, then advanced to terminal depth using direct-push tooling.**
 See key sheet for symbols and abbreviations used above.

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BORING NO. **B10**
 PROJECT **DeBock's Texaco**
 LOCATION **Grandview, Washington**
 PROJECT NO. **2093-01**
 LOGGED BY **DBP**

START CARD **RE15821** WELL ID
 COORDINATES
 SURFACE ELEVATION DATUM

SAMPLE INFORMATION						STRATA	DESCRIPTION	CONSTRUCTION DETAIL/ COMMENTS	ELEVATION FEET	
DEPTH FEET	LAB SAMPLE ID	pH	PID (ppmV)	SHEEN	RECOVERY %					
5	B10-3		0.6	SLIGHT	100		Gray GRAVEL (GP); dry, coarse (fill).	Installed temporary 3/4-inch Sch 40 PVC well screened from 20 to 25 feet with 0.010-inch slots. Conductor casing left in place from 0 to 20 feet during groundwater sampling. Collected groundwater sample B10W.		
			0.0	SLIGHT	100		Gray-brown silty SAND (SM); medium loose, moist, fine.			
			0.0	VERY SLIGHT	100		Sand becomes fine to medium.			
			0.0	VERY SLIGHT	100					
15	B10-15		0.0	NO	100	Gray-brown SILT (ML), with sand; stiff, moist, sand is fine.				
			126.9	MOD.		1-inch-thick black (stained) fine sand lens; strong petroleum odor. Becomes gray (stained).				
20	B10-20		136.3	NO	100	Gray (stained) silty SAND (SM); dense, moist, fine. Grades to light-brown.				
			12.5	NO		Becomes loose and saturated.				
			1.0	NO		Becomes very dense.				
25						Boring complete at 25 feet, backfilled with bentonite chips, and finished at surface with existing gravel.				

DRILLING CONTRACTOR **Cascade Drilling**
 DRILLING METHOD **Hand Auger/Direct Push**
 DRILLING EQUIPMENT **Geoprobe 7720DT**
 DRILLING STARTED **4/3/18** ENDED **4/4/18**

REMARKS **Boring advanced from 0 to 10 feet bgs using hand auger, then advanced to terminal depth using direct-push tooling.**
 See key sheet for symbols and abbreviations used above.

EES LOG WITH WELL & SHEEN - LOG A EWN03.GDT - 10/19/18 17:17 - C:\USERS\SIDAN ELEIDROPBOX (EES ENVIRONMENTAL)\EES TEAM FOLDER (THE REAL ONE)\001EES ADMIN-MASTER\GINT\PROJECTS\2093-01 DEBOCK'S 2018 10 09.GPJ

START CARD **RE15821** WELL ID **MW-8**
 COORDINATES
 SURFACE ELEVATION DATUM

SAMPLE INFORMATION						STRATA	DESCRIPTION	CONSTRUCTION DETAIL/ COMMENTS	ELEVATION FEET
DEPTH FEET	LAB SAMPLE ID	pH	PID (ppmV)	SHEEN	RECOVERY %				
0	B11-3		0.0	SLIGHT	100	Gray GRAVEL (GP); dry, coarse (fill). Brown silty SAND (SM), minor gravel; medium loose, moist, fine to medium, gravel is coarse (fill).	<p>Well is sealed at the surface using concrete, a flush-mounted traffic-rated steel monument and locking cap.</p> <p>Well constructed using two-inch diameter threaded schedule-40 PVC casing and screened with machine-cut 0.020-inch slots. Filter media consists of #8/10 sand. Ecology Well Tag ID: BKR 333</p> <p>0.5-inch-thick layer of LNAPL observed floating on water column.</p>	0	
5			0.0	NO	100	Gray-brown silty SAND (SM); medium dense, moist, fine (native).			
			0.0	NO					
10			0.0	NO	100				
			0.0	NO					
15	B11-16		168.3	SLIGHT	100	Gray-brown SILT (ML), trace sand; medium soft, moist, sand is fine. Becomes stained gray. Strong petroleum odor from 16.5 to 20 feet. Becomes medium stiff.			
20	B11-20		863.3	MOD.	100	Gray (stained) silty SAND (SM); dense, moist to wet, fine. Grades to gray-brown from 18.5 to 19.5 feet. Becomes medium loose and saturated.			
			68.2	NO					
			1.2	NO					
25						Boring complete at 25 feet. Installed groundwater monitoring well.			

DRILLING CONTRACTOR **Cascade Drilling**
 DRILLING METHOD **Hand Auger/Direct Push**
 DRILLING EQUIPMENT **Geoprobe 7720DT**
 DRILLING STARTED **4/3/18** ENDED **4/4/18**

REMARKS **Boring advanced from 0 to 10 feet bgs using hand auger, then advanced to terminal depth using direct-push tooling.**
 See key sheet for symbols and abbreviations used above.

EES LOG WITH WELL & SHEEN - LOG A EWN03.GDT - 10/19/18 17:17 - C:\USERS\SIDAN.ELEIDROPBOX (EES ENVIRONMENTAL)\EES TEAM FOLDER (THE REAL ONE)\001EES ADMIN-MASTER\GINT\PROJECTS\2093-01 DEBOCKS 2018 10 09.GPJ

START CARD **RE15821** WELL ID **MW-7**
 COORDINATES
 SURFACE ELEVATION DATUM

SAMPLE INFORMATION						STRATA	DESCRIPTION	CONSTRUCTION DETAIL/ COMMENTS	ELEVATION FEET
DEPTH FEET	LAB SAMPLE ID	pH	PID (ppmV)	SHEEN	RECOVERY %				
0					100	Vegetation.		Well is sealed at the surface using concrete, a flush-mounted traffic-rated steel monument and locking cap.	
0-5			0.0	VERY SLIGHT	100	Gray-brown silty SAND (SM); medium loose, dry, fine.			
5			0.0	VERY SLIGHT	100	Becomes moist.			
5-10			0.0	NO	100	3-inch-thick medium sand lens.			
10-15	B13-15		0.0	NO	100	Gray-brown SILT (ML), minor sand; medium stiff, moist, sand is fine.		Well constructed using two-inch diameter threaded schedule-40 PVC casing and screened with machine-cut 0.020-inch slots. Filter media consists of #8/10 sand. Ecology Well Tag ID: BKR 332	
15			78.9	MOD.	100	1-inch-thick black (stained) sand lens. Becomes gray (stained).			
15-20					100	1-inch-thick medium sand lens.			
20	B13-20		472.1	MOD.	100	Gray (stained) silty SAND (SM); medium dense, wet, fine. Mottled black staining; strong petroleum odor. Grades to light-brown. Becomes loose and saturated. Becomes medium dense.			
20-25			7.8	VERY SLIGHT	100	Becomes dense.			
25	B13-25		0.7	NO	100	Boring complete at 25 feet. Installed groundwater monitoring well.			

DRILLING CONTRACTOR **Cascade Drilling**
 DRILLING METHOD **Hand Auger/Direct Push**
 DRILLING EQUIPMENT **Geoprobe 7720DT**
 DRILLING STARTED **4/3/18** ENDED **4/3/18**

REMARKS **Boring advanced from 0 to 5 feet bgs using hand auger, then advanced to terminal depth using direct-push tooling.**
 See key sheet for symbols and abbreviations used above.

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START CARD **RE15821** WELL ID **MW-9**
 COORDINATES
 SURFACE ELEVATION DATUM

SAMPLE INFORMATION						STRATA	DESCRIPTION	CONSTRUCTION DETAIL/ COMMENTS	ELEVATION FEET
DEPTH FEET	LAB SAMPLE ID	pH	PID (ppmV)	SHEEN	RECOVERY %				
0	B14-3		0.0	VERY SLIGHT	100	Concrete.	Well is sealed at the surface using concrete, a flush-mounted traffic-rated steel monument and locking cap.		
5			0.0	NO	100	Gray GRAVEL (GP); dry, coarse (fill). Gray-brown silty SAND (SM); medium loose, moist, fine.			
7			0.0	NO		Stratified 1- to 1.5-inch-thick medium sand layers every 1 to 1.5 feet from 7 to 14 feet.			
10			0.0	NO	100				
15	B14-16		0.0	NO	100	Becomes moist and dense.	Well constructed using two-inch diameter threaded schedule-40 PVC casing and screened with machine-cut 0.020-inch slots. Filter media consists of #8/10 sand. Ecology Well Tag ID: BKR 334		
20			169.0	MOD.		Becomes gray (stained).			
22			0.8	NO	100	Becomes loose and saturated. Grades to light-brown.			
25			0.0	NO	100	Becomes medium dense. Becomes loose.			
25			0.0	NO		Becomes very dense.			
						Boring complete at 25 feet. Installed groundwater monitoring well.			

DRILLING CONTRACTOR **Cascade Drilling**
 DRILLING METHOD **Hand Auger/Direct Push**
 DRILLING EQUIPMENT **Geoprobe 7720DT**
 DRILLING STARTED **4/4/18** ENDED **4/4/18**

REMARKS **Boring advanced from 0 to 5 feet bgs using hand auger, then advanced to terminal depth using direct-push tooling.**
 See key sheet for symbols and abbreviations used above.

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START CARD **RE15821** WELL ID **MW-10**
 COORDINATES
 SURFACE ELEVATION DATUM

SAMPLE INFORMATION						STRATA	DESCRIPTION	CONSTRUCTION DETAIL/ COMMENTS	ELEVATION FEET
DEPTH FEET	LAB SAMPLE ID	pH	PID (ppmV)	SHEEN	RECOVERY %				
0	B15-3		0.0	VERY SLIGHT	100	Concrete. Gray GRAVEL (GP); dry, coarse (fill). Gray-brown silty SAND (SM); medium loose, moist, fine.	Well is sealed at the surface using concrete, a flush-mounted traffic-rated steel monument and locking cap.	0	
5			0.0	NO	100	Stratified 1- to 2-inch-thick medium sand layers every 1 to 1.5 feet from 6 to 13.5 feet.			
10			0.0	NO	100		Becomes medium dense. Becomes gray (stained). Strong petroleum odor at 15 feet.		
15	B15-15		2,090	MOD.	100	Becomes loose and saturated. Grades to gray-brown (stained). Becomes medium dense.		Well constructed using two-inch diameter threaded schedule-40 PVC casing and screened with machine-cut 0.020-inch slots. Filter media consists of #8/10 sand. Ecology Well Tag ID: BKR 335	
20	B15-20		566.1	NO	100		Grades to light-brown. Becomes dense.		
25			166.0	NO		Boring complete at 25 feet. Installed groundwater monitoring well.			
			5.4	NO					

DRILLING CONTRACTOR **Cascade Drilling**
 DRILLING METHOD **Hand Auger/Direct Push**
 DRILLING EQUIPMENT **Geoprobe 7720DT**
 DRILLING STARTED **4/4/18** ENDED **4/4/18**

REMARKS **Boring advanced from 0 to 5 feet bgs using hand auger, then advanced to terminal depth using direct-push tooling.**
 See key sheet for symbols and abbreviations used above.

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START CARD **RE15821** WELL ID **MW-11**
 COORDINATES
 SURFACE ELEVATION DATUM

SAMPLE INFORMATION						STRATA	DESCRIPTION	CONSTRUCTION DETAIL/ COMMENTS	ELEVATION FEET
DEPTH FEET	LAB SAMPLE ID	pH	PID (ppmV)	SHEEN	RECOVERY %				
0					100	Concrete.		Well is sealed at the surface using concrete, a flush-mounted traffic-rated steel monument and locking cap.	
0					100	Gray GRAVEL (GP); dry, coarse (fill). Gray-brown silty SAND (SM); medium loose, moist, fine.			
5	B16-3		0.0	NO	100			Well constructed using two-inch diameter threaded schedule-40 PVC casing and screened with machine-cut 0.020-inch slots. Filter media consists of #8/10 sand. Ecology Well Tag ID: BKR 335	
			0.0	NO	100				
			0.0	NO	100				
10			0.0	NO	100	Stratified 1- to 2-inch-thick medium sand layers every 1 to 1.5 feet from 8 to 15 feet.			
			37.9	SLIGHT	100	Black (stained) silt lens. Becomes gray (stained). Strong petroleum odor from 12 to 14 feet.			
15	B16-14		282.5	SLIGHT	100				
			131.1	NO	100	Becomes loose and saturated.			
20	B16-20		30.4	NO	100	Becomes medium dense.			
			16.5	NO	100	Becomes medium loose.			
			3.8	NO	100	Becomes medium dense.			
25						Boring complete at 25 feet. Installed groundwater monitoring well.			

DRILLING CONTRACTOR **Cascade Drilling**
 DRILLING METHOD **Hand Auger/Direct Push**
 DRILLING EQUIPMENT **Geoprobe 7720DT**
 DRILLING STARTED **4/5/18** ENDED **4/5/18**

REMARKS **Boring advanced from 0 to 5 feet bgs using hand auger, then advanced to terminal depth using direct-push tooling.**
 See key sheet for symbols and abbreviations used above.

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START CARD **RE15821** WELL ID **MW-12**
 COORDINATES
 SURFACE ELEVATION DATUM

SAMPLE INFORMATION						STRATA	DESCRIPTION	CONSTRUCTION DETAIL/ COMMENTS	ELEVATION FEET
DEPTH FEET	LAB SAMPLE ID	pH	PID (ppmV)	SHEEN	RECOVERY %				
0	B17-3		0.0	VERY SLIGHT	100	Concrete. Gray GRAVEL (GP); dry, coarse (fill), brick at 1 foot. Gray-brown silty SAND (SM); medium loose, moist, fine.	Well is sealed at the surface using concrete, a flush-mounted traffic-rated steel monument and locking cap.		
5			0.0	NO	100				
			0.0	NO					
10			0.0	NO	100				
			0.0	NO					
15	B17-16.5		263.3		100	Becomes gray (stained). Strong petroleum odor from 14 to 18.5 feet.	Well constructed using two-inch diameter threaded schedule-40 PVC casing and screened with machine-cut 0.020-inch slots. Filter media consists of #8/10 sand. Ecology Well Tag ID: BKR 336		
			1,867	VERY SLIGHT		Stratified 1- to 2-inch-thick medium sand layers every 1 to 1.5 feet from 15.5 to 20 feet.			
			858.8	VERY SLIGHT		Becomes loose and saturated.			
20	B17-20		15.6	NO	100	Grades to light-gray (stained). Grades to light-brown.			
			3.1	NO					
25			0.7	NO		Becomes very dense.			
						Boring complete at 25 feet. Installed groundwater monitoring well.			

DRILLING CONTRACTOR **Cascade Drilling**
 DRILLING METHOD **Hand Auger/Direct Push**
 DRILLING EQUIPMENT **Geoprobe 7720DT**
 DRILLING STARTED **4/5/18** ENDED **4/5/18**

REMARKS **Boring advanced from 0 to 5 feet bgs using hand
 auger, then advanced to terminal depth using direct-push
 tooling.**

 See key sheet for symbols and abbreviations used above.

Attachment B

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Monday, February 26, 2018

Chris Rhea
EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

RE: Debocks Texaco / 2093-01

Enclosed are the results of analyses for work order A8B0101, which was received by the laboratory on 2/5/2018 at 9:50:00AM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: KFriscia@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Kevin J. Friscia, Project Manager

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
02/26/18 16:35

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW1	A8B0101-01	Water	02/02/18 08:53	02/05/18 09:50
MW3	A8B0101-02	Water	02/02/18 10:36	02/05/18 09:50
MW2	A8B0101-03	Oil	02/01/18 14:35	02/05/18 09:50

Apex Laboratories



Kevin J. Friscia, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

EES Environmental Inc
 240 N Broadway Ste 203
 Portland, OR 97227

Project: **Debocks Texaco**
 Project Number: 2093-01
 Project Manager: Chris Rhea

Reported:
 02/26/18 16:35

ANALYTICAL SAMPLE RESULTS

Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
MW2 (A8B0101-03)			Matrix: Oil		Batch: 8020494			
Gasoline Range Organics	DET	---	18000	mg/kg	100	02/08/18 03:52	NWTPH-HCID	
Diesel Range Organics	ND	---	45000	"	"	"	"	
Oil Range Organics	ND	---	90100	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: %</i>	<i>Limits: 50-150 %</i>	"	"	"	<i>S-01</i>
<i>4-Bromofluorobenzene (Surr)</i>			<i>%</i>	<i>Limits: 50-150 %</i>	"	"	"	<i>S-01</i>

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
 240 N Broadway Ste 203
 Portland, OR 97227

Project: **Debocks Texaco**
 Project Number: 2093-01
 Project Manager: Chris Rhea

Reported:
 02/26/18 16:35

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
MW1 (A8B0101-01)			Matrix: Water		Batch: 8020432			
Diesel	0.866	---	0.192	mg/L	1	02/06/18 21:59	NWTPH-Dx	F-13
Oil	ND	---	0.385	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 86 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
MW3 (A8B0101-02)			Matrix: Water		Batch: 8020432			
Diesel	0.269	---	0.189	mg/L	1	02/06/18 22:22	NWTPH-Dx	F-13
Oil	ND	---	0.377	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 88 %</i>	<i>Limits: 50-150 %</i>	"	"	"	

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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
MW1 (A8B0101-01)			Matrix: Water		Batch: 8020370			
Gasoline Range Organics	0.928	---	0.100	mg/L	1	02/05/18 21:13	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 113 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
<i>1,4-Difluorobenzene (Sur)</i>			<i>105 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
MW3 (A8B0101-02)			Matrix: Water		Batch: 8020370			
Gasoline Range Organics	0.121	---	0.100	mg/L	1	02/05/18 20:46	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 106 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
<i>1,4-Difluorobenzene (Sur)</i>			<i>104 %</i>	<i>Limits: 50-150 %</i>	"	"	"	

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ANALYTICAL SAMPLE RESULTS

RBDM Compounds (BTEX+) by EPA 8260C

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
MW1 (A8B0101-01)			Matrix: Water		Batch: 8020370			
Benzene	ND	---	0.200	ug/L	1	02/05/18 21:13	EPA 8260C	
1,2-Dichloroethane (EDC)	ND	---	0.500	"	"	"	"	
Ethylbenzene	ND	---	0.500	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	"	"	"	"	
Naphthalene	ND	---	2.00	"	"	"	"	
Toluene	ND	---	1.00	"	"	"	"	
Xylenes, total	ND	---	1.50	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 103 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>Toluene-d8 (Surr)</i>			<i>97 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>98 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
MW3 (A8B0101-02)			Matrix: Water		Batch: 8020370			
Benzene	ND	---	0.200	ug/L	1	02/05/18 20:46	EPA 8260C	
1,2-Dichloroethane (EDC)	ND	---	0.500	"	"	"	"	
Ethylbenzene	ND	---	0.500	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	"	"	"	"	
Naphthalene	ND	---	2.00	"	"	"	"	
Toluene	ND	---	1.00	"	"	"	"	
Xylenes, total	ND	---	1.50	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>Toluene-d8 (Surr)</i>			<i>95 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>97 %</i>	<i>Limits: 80-120 %</i>	"	"	"	

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ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 5035A/8260C

Analyte	Result	MDL	Reporting			Date Analyzed	Method	Notes
			Limit	Units	Dilution			
MW2 (A8B0101-03)			Matrix: Oil		Batch: 8020374			V-16
Acetone	ND	---	676000	ug/kg wet	10000	02/05/18 21:53	5035A/8260C	
Acrylonitrile	ND	---	169000	"	"	"	"	R-02
Benzene	ND	---	6760	"	"	"	"	
Bromobenzene	ND	---	16900	"	"	"	"	
Bromochloromethane	ND	---	33800	"	"	"	"	
Bromodichloromethane	ND	---	33800	"	"	"	"	
Bromoform	ND	---	67600	"	"	"	"	
Bromomethane	ND	---	338000	"	"	"	"	
2-Butanone (MEK)	ND	---	473000	"	"	"	"	R-02
n-Butylbenzene	477000	---	33800	"	"	"	"	M-02
sec-Butylbenzene	414000	---	33800	"	"	"	"	
tert-Butylbenzene	ND	---	33800	"	"	"	"	
Carbon disulfide	ND	---	338000	"	"	"	"	
Carbon tetrachloride	ND	---	33800	"	"	"	"	
Chlorobenzene	ND	---	16900	"	"	"	"	
Chloroethane	ND	---	338000	"	"	"	"	
Chloroform	ND	---	33800	"	"	"	"	
Chloromethane	ND	---	169000	"	"	"	"	
2-Chlorotoluene	ND	---	33800	"	"	"	"	
4-Chlorotoluene	ND	---	33800	"	"	"	"	
Dibromochloromethane	ND	---	67600	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	---	169000	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	---	33800	"	"	"	"	
Dibromomethane	ND	---	33800	"	"	"	"	
1,2-Dichlorobenzene	55700	---	16900	"	"	"	"	
1,3-Dichlorobenzene	ND	---	16900	"	"	"	"	
1,4-Dichlorobenzene	ND	---	16900	"	"	"	"	
Dichlorodifluoromethane	ND	---	67600	"	"	"	"	
1,1-Dichloroethane	ND	---	16900	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	---	16900	"	"	"	"	
1,1-Dichloroethene	ND	---	16900	"	"	"	"	
cis-1,2-Dichloroethene	ND	---	16900	"	"	"	"	
trans-1,2-Dichloroethene	ND	---	16900	"	"	"	"	
1,2-Dichloropropane	ND	---	16900	"	"	"	"	
1,3-Dichloropropane	ND	---	33800	"	"	"	"	
2,2-Dichloropropane	ND	---	33800	"	"	"	"	
1,1-Dichloropropene	ND	---	33800	"	"	"	"	

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02/26/18 16:35

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 5035A/8260C

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
			Matrix: Oil		Batch: 8020374			V-16
cis-1,3-Dichloropropene	ND	---	33800	ug/kg wet	10000	"	5035A/8260C	
trans-1,3-Dichloropropene	ND	---	33800	"	"	"	"	
Ethylbenzene	1700000	---	16900	"	"	"	"	
Hexachlorobutadiene	ND	---	67600	"	"	"	"	
2-Hexanone	ND	---	338000	"	"	"	"	
Isopropylbenzene	557000	---	33800	"	"	"	"	
4-Isopropyltoluene	414000	---	33800	"	"	"	"	M-02
Methylene chloride	ND	---	169000	"	"	"	"	
4-Methyl-2-pentanone (MiBK)	ND	---	338000	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	---	33800	"	"	"	"	
Naphthalene	1220000	---	67600	"	"	"	"	
n-Propylbenzene	1460000	---	16900	"	"	"	"	
Styrene	ND	---	33800	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	---	16900	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	---	33800	"	"	"	"	
Tetrachloroethene (PCE)	ND	---	16900	"	"	"	"	
Toluene	50700	---	33800	"	"	"	"	
1,2,3-Trichlorobenzene	ND	---	169000	"	"	"	"	
1,2,4-Trichlorobenzene	ND	---	169000	"	"	"	"	
1,1,1-Trichloroethane	ND	---	16900	"	"	"	"	
1,1,2-Trichloroethane	ND	---	16900	"	"	"	"	
Trichloroethene (TCE)	ND	---	16900	"	"	"	"	
Trichlorofluoromethane	ND	---	67600	"	"	"	"	
1,2,3-Trichloropropane	ND	---	67600	"	"	"	"	R-02
1,2,4-Trimethylbenzene	6150000	---	33800	"	"	"	"	
1,3,5-Trimethylbenzene	2010000	---	33800	"	"	"	"	
Vinyl chloride	ND	---	16900	"	"	"	"	
m,p-Xylene	3360000	---	33800	"	"	"	"	
o-Xylene	532000	---	16900	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 96 %</i>	<i>Limits: 80-120 %</i>	1	"	"	
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>97 %</i>	<i>Limits: 80-120 %</i>	"	"	"	

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ANALYTICAL SAMPLE RESULTS

1,2-Dibromoethane (EDB) by EPA 8260C SIM

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
MW1 (A8B0101-01RE1)			Matrix: Water		Batch: 8020385			
1,2-Dibromoethane (EDB)	ND	0.0330	0.0330	ug/L	1	02/05/18 19:36	EPA 8260C SIM	R-02
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 70-130 %</i>		"	"	"
<i>Toluene-d8 (Surr)</i>		<i>106 %</i>		<i>Limits: 70-130 %</i>		"	"	"
<i>4-Bromofluorobenzene (Surr)</i>		<i>85 %</i>		<i>Limits: 70-130 %</i>		"	"	"
MW3 (A8B0101-02RE1)			Matrix: Water		Batch: 8020385			
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	02/06/18 12:36	EPA 8260C SIM	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 94 %</i>		<i>Limits: 70-130 %</i>		"	"	"
<i>Toluene-d8 (Surr)</i>		<i>100 %</i>		<i>Limits: 70-130 %</i>		"	"	"
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>Limits: 70-130 %</i>		"	"	"

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ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
MW1 (A8B0101-01)			Matrix: Water		Batch: 8020544			
Acenaphthene	ND	---	0.0417	ug/L	1	02/09/18 14:05	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0833	"	"	"	"	R-02
Anthracene	ND	---	0.0417	"	"	"	"	
Benz(a)anthracene	ND	---	0.0417	"	"	"	"	
Benzo(a)pyrene	ND	---	0.0417	"	"	"	"	
Benzo(b)fluoranthene	ND	---	0.0417	"	"	"	"	
Benzo(k)fluoranthene	ND	---	0.0417	"	"	"	"	
Benzo(g,h,i)perylene	ND	---	0.0417	"	"	"	"	
Chrysene	ND	---	0.0417	"	"	"	"	
Dibenz(a,h)anthracene	ND	---	0.0417	"	"	"	"	
Dibenzofuran	ND	---	0.0417	"	"	"	"	
Fluoranthene	ND	---	0.0417	"	"	"	"	
Fluorene	ND	---	0.0417	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	---	0.0417	"	"	"	"	
1-Methylnaphthalene	ND	---	0.104	"	"	"	"	R-02
2-Methylnaphthalene	ND	---	0.0833	"	"	"	"	
Naphthalene	ND	---	0.198	"	"	"	"	R-02
Phenanthrene	ND	---	0.0417	"	"	"	"	
Pyrene	ND	---	0.0417	"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>			<i>Recovery: 67 %</i>	<i>Limits: 44-120 %</i>	"	"	"	
<i>p-Terphenyl-d14 (Surr)</i>			<i>76 %</i>	<i>Limits: 50-133 %</i>	"	"	"	

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ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
MW3 (A8B0101-02)			Matrix: Water		Batch: 8020544			
Acenaphthene	ND	---	0.0417	ug/L	1	02/09/18 14:31	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.0417	"	"	"	"	
Anthracene	ND	---	0.0417	"	"	"	"	
Benz(a)anthracene	ND	---	0.0417	"	"	"	"	
Benzo(a)pyrene	ND	---	0.0417	"	"	"	"	
Benzo(b)fluoranthene	ND	---	0.0417	"	"	"	"	
Benzo(k)fluoranthene	ND	---	0.0417	"	"	"	"	
Benzo(g,h,i)perylene	ND	---	0.0417	"	"	"	"	
Chrysene	ND	---	0.0417	"	"	"	"	
Dibenz(a,h)anthracene	ND	---	0.0417	"	"	"	"	
Dibenzofuran	ND	---	0.0417	"	"	"	"	
Fluoranthene	ND	---	0.0417	"	"	"	"	
Fluorene	ND	---	0.0417	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	---	0.0417	"	"	"	"	
1-Methylnaphthalene	ND	---	0.0833	"	"	"	"	
2-Methylnaphthalene	ND	---	0.0833	"	"	"	"	
Naphthalene	ND	---	0.0833	"	"	"	"	
Phenanthrene	ND	---	0.0417	"	"	"	"	
Pyrene	ND	---	0.0417	"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>			<i>Recovery: 60 %</i>	<i>Limits: 44-120 %</i>	"	"	"	
<i>p-Terphenyl-d14 (Surr)</i>			<i>83 %</i>	<i>Limits: 50-133 %</i>	"	"	"	

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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW1 (A8B0101-01)								
Matrix: Water								
Batch: 8020692								
Lead	0.267	---	0.200	ug/L	1	02/15/18 13:42	EPA 200.8	
MW3 (A8B0101-02)								
Matrix: Water								
Batch: 8020692								
Lead	0.267	---	0.200	ug/L	1	02/15/18 13:46	EPA 200.8	

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ANALYTICAL SAMPLE RESULTS

Dissolved Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
MW1 (A8B0101-01)								
Matrix: Water								
Batch: 8020683								
Lead	ND	---	0.200	ug/L	1	02/15/18 15:04	EPA 200.8 (Diss)	
MW3 (A8B0101-02)								
Matrix: Water								
Batch: 8020683								
Lead	ND	---	0.200	ug/L	1	02/15/18 15:09	EPA 200.8 (Diss)	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020494 - NWTPH-HCID (Soil)						Oil						
Blank (8020494-BLK1)						Prepared: 02/07/18 15:20 Analyzed: 02/08/18 03:29						
NWTPH-HCID												
Gasoline Range Organics	ND	---	100	mg/kg	1	---	---	---	---	---	---	---
Diesel Range Organics	ND	---	250	"	"	---	---	---	---	---	---	---
Oil Range Organics	ND	---	500	"	"	---	---	---	---	---	---	---
<i>Surr: o-Terphenyl (Surr)</i>			<i>Recovery: 94 %</i>	<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>85 %</i>	<i>50-150 %</i>		<i>"</i>						
Duplicate (8020494-DUP1)						Prepared: 02/07/18 15:20 Analyzed: 02/08/18 04:15						
QC Source Sample: MW2 (A8B0101-03)												
NWTPH-HCID												
Gasoline Range Organics	DET	---	18000	mg/kg	100	---	ND	---	---	---	30%	
Diesel Range Organics	ND	---	45000	"	"	---	ND	---	---	---	30%	
Oil Range Organics	ND	---	90100	"	"	---	ND	---	---	---	30%	
<i>Surr: o-Terphenyl (Surr)</i>			<i>Recovery: %</i>	<i>Limits: 50-150 %</i>		<i>Dilution: 100x</i>						<i>S-01</i>
<i>4-Bromofluorobenzene (Surr)</i>			<i>%</i>	<i>50-150 %</i>		<i>"</i>						<i>S-01</i>

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020432 - EPA 3510C (Fuels/Acid Ext.)						Water						
Blank (8020432-BLK1)						Prepared: 02/06/18 13:32 Analyzed: 02/06/18 20:50						
NWTPH-Dx												
Diesel	ND	---	0.182	mg/L	1	---	---	---	---	---	---	
Oil	ND	---	0.364	"	"	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 93 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
LCS (8020432-BS1)						Prepared: 02/06/18 13:32 Analyzed: 02/06/18 21:13						
NWTPH-Dx												
Diesel	1.03	---	0.200	mg/L	1	1.25	---	82	58-115	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 96 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
LCS Dup (8020432-BSD1)						Prepared: 02/06/18 13:32 Analyzed: 02/06/18 21:36						
NWTPH-Dx												
Diesel	0.830	---	0.200	mg/L	1	1.25	---	66	58-115	21	20%	Q-24
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 92 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
02/26/18 16:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch 8020370 - EPA 5030B						Water						
Blank (8020370-BLK1)						Prepared: 02/05/18 09:40 Analyzed: 02/05/18 11:01						
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	0.100	mg/L	1	---	---	---	---	---	---	---
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 109 %			Limits: 50-150 %			Dilution: 1x			
1,4-Difluorobenzene (Sur)			110 %			50-150 %			"			
LCS (8020370-BS2)						Prepared: 02/05/18 09:40 Analyzed: 02/05/18 10:34						
NWTPH-Gx (MS)												
Gasoline Range Organics	0.539	---	0.100	mg/L	1	0.500	---	108	80-120	---	---	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 101 %			Limits: 50-150 %			Dilution: 1x			
1,4-Difluorobenzene (Sur)			102 %			50-150 %			"			
Duplicate (8020370-DUP1)						Prepared: 02/05/18 10:23 Analyzed: 02/05/18 11:56						
QC Source Sample: Other (A8B0093-01)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	0.100	mg/L	1	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 110 %			Limits: 50-150 %			Dilution: 1x			
1,4-Difluorobenzene (Sur)			113 %			50-150 %			"			
Duplicate (8020370-DUP2)						Prepared: 02/05/18 10:23 Analyzed: 02/05/18 19:25						
QC Source Sample: Other (A8B0092-04)												
NWTPH-Gx (MS)												
Gasoline Range Organics	2.09	---	1.00	mg/L	10	---	2.20	---	---	5	30%	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 99 %			Limits: 50-150 %			Dilution: 1x			
1,4-Difluorobenzene (Sur)			104 %			50-150 %			"			

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EES Environmental Inc
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Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
02/26/18 16:35

QUALITY CONTROL (QC) SAMPLE RESULTS

RBDM Compounds (BTEX+) by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020370 - EPA 5030B												
Water												
Blank (8020370-BLK1)												
Prepared: 02/05/18 09:40 Analyzed: 02/05/18 11:01												
EPA 8260C												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
1,2-Dibromoethane (EDB)	ND	---	0.500	"	"	---	---	---	---	---	---	---
1,2-Dichloroethane (EDC)	ND	---	0.500	"	"	---	---	---	---	---	---	---
Ethylbenzene	ND	---	0.500	"	"	---	---	---	---	---	---	---
Isopropylbenzene	ND	---	1.00	"	"	---	---	---	---	---	---	---
Methyl tert-butyl ether (MTBE)	ND	---	1.00	"	"	---	---	---	---	---	---	---
Naphthalene	ND	---	2.00	"	"	---	---	---	---	---	---	---
Toluene	ND	---	1.00	"	"	---	---	---	---	---	---	---
1,2,4-Trimethylbenzene	ND	---	1.00	"	"	---	---	---	---	---	---	---
1,3,5-Trimethylbenzene	ND	---	1.00	"	"	---	---	---	---	---	---	---
Xylenes, total	ND	---	1.50	"	"	---	---	---	---	---	---	---

Surr: 1,4-Difluorobenzene (Surr) Recovery: 108 % Limits: 80-120 % Dilution: 1x
Toluene-d8 (Surr) 96 % 80-120 % "
4-Bromofluorobenzene (Surr) 101 % 80-120 % "

LCS (8020370-BS1)

Prepared: 02/05/18 09:40 Analyzed: 02/05/18 10:07

EPA 8260C												
Benzene	19.2	---	0.200	ug/L	1	20.0	---	96	80-120	---	---	---
1,2-Dibromoethane (EDB)	20.5	---	0.500	"	"	"	---	103	"	---	---	---
1,2-Dichloroethane (EDC)	17.3	---	0.500	"	"	"	---	87	"	---	---	---
Ethylbenzene	19.8	---	0.500	"	"	"	---	99	"	---	---	---
Isopropylbenzene	21.3	---	1.00	"	"	"	---	106	"	---	---	---
Methyl tert-butyl ether (MTBE)	19.9	---	1.00	"	"	"	---	100	"	---	---	---
Naphthalene	18.4	---	2.00	"	"	"	---	92	"	---	---	---
Toluene	19.7	---	1.00	"	"	"	---	99	"	---	---	---
1,2,4-Trimethylbenzene	21.5	---	1.00	"	"	"	---	108	"	---	---	---
1,3,5-Trimethylbenzene	20.9	---	1.00	"	"	"	---	105	"	---	---	---
Xylenes, total	59.1	---	1.50	"	"	60.0	---	99	"	---	---	---

Surr: 1,4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % Dilution: 1x
Toluene-d8 (Surr) 96 % 80-120 % "
4-Bromofluorobenzene (Surr) 97 % 80-120 % "

Duplicate (8020370-DUP1)

Prepared: 02/05/18 10:23 Analyzed: 02/05/18 11:56

QC Source Sample: Other (A8B0093-01)

EPA 8260C

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Kevin J. Friscia, Project Manager

EES Environmental Inc
 240 N Broadway Ste 203
 Portland, OR 97227

Project: **Debocks Texaco**
 Project Number: 2093-01
 Project Manager: Chris Rhea

Reported:
 02/26/18 16:35

QUALITY CONTROL (QC) SAMPLE RESULTS

RBDM Compounds (BTEX+) by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020370 - EPA 5030B												
Water												
Duplicate (8020370-DUP1) Prepared: 02/05/18 10:23 Analyzed: 02/05/18 11:56												
QC Source Sample: Other (A8B0093-01)												
EPA 8260C												
Benzene	ND	---	0.200	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	---	0.500	"	"	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Naphthalene	ND	---	2.00	"	"	---	ND	---	---	---	30%	
Toluene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Xylenes, total	ND	---	1.50	"	"	---	ND	---	---	---	30%	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 111 % Limits: 80-120 % Dilution: 1x
 Toluene-d8 (Surr) 97 % 80-120 % "
 4-Bromofluorobenzene (Surr) 100 % 80-120 % "

Duplicate (8020370-DUP2) Prepared: 02/05/18 10:23 Analyzed: 02/05/18 19:25 V-01												
QC Source Sample: Other (A8B0092-04)												
EPA 8260C												
Benzene	7.91	---	2.00	ug/L	10	---	7.83	---	---	1	30%	
1,2-Dibromoethane (EDB)	ND	---	5.00	"	"	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	5.00	"	"	---	ND	---	---	---	30%	
Ethylbenzene	77.2	---	5.00	"	"	---	76.7	---	---	0.6	30%	
Isopropylbenzene	10.0	---	10.0	"	"	---	9.83	---	---	2	30%	
Methyl tert-butyl ether (MTBE)	ND	---	10.0	"	"	---	ND	---	---	---	30%	
Naphthalene	ND	---	20.0	"	"	---	17.8	---	---	7	30%	
Toluene	ND	---	10.0	"	"	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	78.6	---	10.0	"	"	---	83.5	---	---	6	30%	
1,3,5-Trimethylbenzene	12.6	---	10.0	"	"	---	13.3	---	---	5	30%	
Xylenes, total	65.5	---	15.0	"	"	---	67.2	---	---	3	30%	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 102 % Limits: 80-120 % Dilution: 1x
 Toluene-d8 (Surr) 99 % 80-120 % "
 4-Bromofluorobenzene (Surr) 97 % 80-120 % "

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
 240 N Broadway Ste 203
 Portland, OR 97227

Project: **Debocks Texaco**
 Project Number: 2093-01
 Project Manager: Chris Rhea

Reported:
 02/26/18 16:35

QUALITY CONTROL (QC) SAMPLE RESULTS

RBDM Compounds (BTEX+) by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020370 - EPA 5030B												
Water												
Matrix Spike (8020370-MS1)			Prepared: 02/05/18 10:23 Analyzed: 02/05/18 15:47									
QC Source Sample: Other (A8B0093-08)												
EPA 8260C												
Benzene	19.2	---	0.200	ug/L	1	20.0	ND	96	79-120	---	---	
1,2-Dibromoethane (EDB)	20.0	---	0.500	"	"	"	ND	100	77-121	---	---	
1,2-Dichloroethane (EDC)	16.9	---	0.500	"	"	"	ND	84	73-128	---	---	
Ethylbenzene	19.7	---	0.500	"	"	"	ND	98	79-121	---	---	
Isopropylbenzene	21.4	---	1.00	"	"	"	ND	107	72-131	---	---	
Methyl tert-butyl ether (MTBE)	18.4	---	1.00	"	"	"	ND	92	71-124	---	---	
Naphthalene	17.5	---	2.00	"	"	"	ND	88	61-128	---	---	
Toluene	19.8	---	1.00	"	"	"	ND	99	80-121	---	---	
1,2,4-Trimethylbenzene	21.2	---	1.00	"	"	"	ND	106	76-124	---	---	
1,3,5-Trimethylbenzene	20.9	---	1.00	"	"	"	ND	105	75-124	---	---	
Xylenes, total	59.1	---	1.50	"	"	60.0	ND	98	79-121	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 98 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>93 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>98 %</i>	<i>80-120 %</i>		<i>"</i>						

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 Portland, OR 97227

Project: **Debocks Texaco**
 Project Number: 2093-01
 Project Manager: Chris Rhea

Reported:
 02/26/18 16:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 5035A/8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020374 - EPA 5035A						Soil						
Blank (8020374-BLK1)						Prepared: 02/05/18 09:00 Analyzed: 02/05/18 13:52						
5035A/8260C												
Acetone	ND	---	667	ug/kg wet	50	---	---	---	---	---	---	---
Acrylonitrile	ND	---	66.7	"	"	---	---	---	---	---	---	---
Benzene	ND	---	6.67	"	"	---	---	---	---	---	---	---
Bromobenzene	ND	---	16.7	"	"	---	---	---	---	---	---	---
Bromochloromethane	ND	---	33.3	"	"	---	---	---	---	---	---	---
Bromodichloromethane	ND	---	33.3	"	"	---	---	---	---	---	---	---
Bromoform	ND	---	66.7	"	"	---	---	---	---	---	---	---
Bromomethane	ND	---	333	"	"	---	---	---	---	---	---	---
2-Butanone (MEK)	ND	---	333	"	"	---	---	---	---	---	---	---
n-Butylbenzene	ND	---	33.3	"	"	---	---	---	---	---	---	---
sec-Butylbenzene	ND	---	33.3	"	"	---	---	---	---	---	---	---
tert-Butylbenzene	ND	---	33.3	"	"	---	---	---	---	---	---	---
Carbon disulfide	ND	---	333	"	"	---	---	---	---	---	---	---
Carbon tetrachloride	ND	---	33.3	"	"	---	---	---	---	---	---	---
Chlorobenzene	ND	---	16.7	"	"	---	---	---	---	---	---	---
Chloroethane	ND	---	333	"	"	---	---	---	---	---	---	---
Chloroform	ND	---	33.3	"	"	---	---	---	---	---	---	---
Chloromethane	ND	---	167	"	"	---	---	---	---	---	---	---
2-Chlorotoluene	ND	---	33.3	"	"	---	---	---	---	---	---	---
4-Chlorotoluene	ND	---	33.3	"	"	---	---	---	---	---	---	---
Dibromochloromethane	ND	---	66.7	"	"	---	---	---	---	---	---	---
1,2-Dibromo-3-chloropropane	ND	---	167	"	"	---	---	---	---	---	---	---
1,2-Dibromoethane (EDB)	ND	---	33.3	"	"	---	---	---	---	---	---	---
Dibromomethane	ND	---	33.3	"	"	---	---	---	---	---	---	---
1,2-Dichlorobenzene	ND	---	16.7	"	"	---	---	---	---	---	---	---
1,3-Dichlorobenzene	ND	---	16.7	"	"	---	---	---	---	---	---	---
1,4-Dichlorobenzene	ND	---	16.7	"	"	---	---	---	---	---	---	---
Dichlorodifluoromethane	ND	---	66.7	"	"	---	---	---	---	---	---	---
1,1-Dichloroethane	ND	---	16.7	"	"	---	---	---	---	---	---	---
1,2-Dichloroethane (EDC)	ND	---	16.7	"	"	---	---	---	---	---	---	---
1,1-Dichloroethene	ND	---	16.7	"	"	---	---	---	---	---	---	---
cis-1,2-Dichloroethene	ND	---	16.7	"	"	---	---	---	---	---	---	---
trans-1,2-Dichloroethene	ND	---	16.7	"	"	---	---	---	---	---	---	---
1,2-Dichloropropane	ND	---	16.7	"	"	---	---	---	---	---	---	---

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EES Environmental Inc
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 Portland, OR 97227

Project: **Debocks Texaco**
 Project Number: 2093-01
 Project Manager: Chris Rhea

Reported:
 02/26/18 16:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 5035A/8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020374 - EPA 5035A						Soil						
Blank (8020374-BLK1)						Prepared: 02/05/18 09:00 Analyzed: 02/05/18 13:52						
5035A/8260C												
1,3-Dichloropropane	ND	---	33.3	ug/kg wet	"	---	---	---	---	---	---	
2,2-Dichloropropane	ND	---	33.3	"	"	---	---	---	---	---	---	
1,1-Dichloropropene	ND	---	33.3	"	"	---	---	---	---	---	---	
cis-1,3-Dichloropropene	ND	---	33.3	"	"	---	---	---	---	---	---	
trans-1,3-Dichloropropene	ND	---	33.3	"	"	---	---	---	---	---	---	
Ethylbenzene	ND	---	16.7	"	"	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	66.7	"	"	---	---	---	---	---	---	
2-Hexanone	ND	---	333	"	"	---	---	---	---	---	---	
Isopropylbenzene	ND	---	33.3	"	"	---	---	---	---	---	---	
4-Isopropyltoluene	ND	---	33.3	"	"	---	---	---	---	---	---	
Methylene chloride	ND	---	167	"	"	---	---	---	---	---	---	
4-Methyl-2-pentanone (MiBK)	ND	---	333	"	"	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	33.3	"	"	---	---	---	---	---	---	
Naphthalene	ND	---	66.7	"	"	---	---	---	---	---	---	
n-Propylbenzene	ND	---	16.7	"	"	---	---	---	---	---	---	
Styrene	ND	---	33.3	"	"	---	---	---	---	---	---	
1,1,1,2-Tetrachloroethane	ND	---	16.7	"	"	---	---	---	---	---	---	
1,1,2,2-Tetrachloroethane	ND	---	33.3	"	"	---	---	---	---	---	---	
Tetrachloroethene (PCE)	ND	---	16.7	"	"	---	---	---	---	---	---	
Toluene	ND	---	33.3	"	"	---	---	---	---	---	---	
1,2,3-Trichlorobenzene	ND	---	167	"	"	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	167	"	"	---	---	---	---	---	---	
1,1,1-Trichloroethane	ND	---	16.7	"	"	---	---	---	---	---	---	
1,1,2-Trichloroethane	ND	---	16.7	"	"	---	---	---	---	---	---	
Trichloroethene (TCE)	ND	---	16.7	"	"	---	---	---	---	---	---	
Trichlorofluoromethane	ND	---	66.7	"	"	---	---	---	---	---	---	
1,2,3-Trichloropropane	ND	---	33.3	"	"	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	33.3	"	"	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	33.3	"	"	---	---	---	---	---	---	
Vinyl chloride	ND	---	16.7	"	"	---	---	---	---	---	---	
m,p-Xylene	ND	---	33.3	"	"	---	---	---	---	---	---	
o-Xylene	ND	---	16.7	"	"	---	---	---	---	---	---	

Surr: 1,4-Difluorobenzene (Surr)
 Toluene-d8 (Surr)

Recovery: 96 % Limits: 80-120 % Dilution: 1x
 100 % 80-120 % "

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 Portland, OR 97227

Project: **Debocks Texaco**
 Project Number: 2093-01
 Project Manager: Chris Rhea

Reported:
 02/26/18 16:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 5035A/8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020374 - EPA 5035A						Soil						
Blank (8020374-BLK1)						Prepared: 02/05/18 09:00 Analyzed: 02/05/18 13:52						
5035A/8260C												
<i>Surr: 4-Bromofluorobenzene (Surr)</i>						<i>Recovery: 102 % Limits: 80-120 % Dilution: 1x</i>						
LCS (8020374-BS4)						Prepared: 02/05/18 09:00 Analyzed: 02/05/18 12:27						
5035A/8260C												
Acetone	1860	---	1000	ug/kg wet	50	2000	---	93	80-120	---	---	
Acrylonitrile	963	---	100	"	"	1000	---	96	"	---	---	
Benzene	882	---	10.0	"	"	"	---	88	"	---	---	
Bromobenzene	926	---	25.0	"	"	"	---	93	"	---	---	
Bromochloromethane	922	---	50.0	"	"	"	---	92	"	---	---	
Bromodichloromethane	850	---	50.0	"	"	"	---	85	"	---	---	
Bromoform	932	---	100	"	"	"	---	93	"	---	---	
Bromomethane	1070	---	500	"	"	"	---	107	"	---	---	
2-Butanone (MEK)	1760	---	500	"	"	2000	---	88	"	---	---	
n-Butylbenzene	934	---	50.0	"	"	1000	---	93	"	---	---	
sec-Butylbenzene	962	---	50.0	"	"	"	---	96	"	---	---	
tert-Butylbenzene	938	---	50.0	"	"	"	---	94	"	---	---	
Carbon disulfide	878	---	500	"	"	"	---	88	"	---	---	
Carbon tetrachloride	866	---	50.0	"	"	"	---	87	"	---	---	
Chlorobenzene	966	---	25.0	"	"	"	---	97	"	---	---	
Chloroethane	686	---	500	"	"	"	---	69	"	---	---	Q-55
Chloroform	886	---	50.0	"	"	"	---	89	"	---	---	
Chloromethane	718	---	250	"	"	"	---	72	"	---	---	Q-55
2-Chlorotoluene	934	---	50.0	"	"	"	---	93	"	---	---	
4-Chlorotoluene	932	---	50.0	"	"	"	---	93	"	---	---	
Dibromochloromethane	1050	---	100	"	"	"	---	105	"	---	---	
1,2-Dibromo-3-chloropropane	954	---	250	"	"	"	---	95	"	---	---	
1,2-Dibromoethane (EDB)	1010	---	50.0	"	"	"	---	101	"	---	---	
Dibromomethane	904	---	50.0	"	"	"	---	90	"	---	---	
1,2-Dichlorobenzene	933	---	25.0	"	"	"	---	93	"	---	---	
1,3-Dichlorobenzene	953	---	25.0	"	"	"	---	95	"	---	---	
1,4-Dichlorobenzene	934	---	25.0	"	"	"	---	93	"	---	---	
Dichlorodifluoromethane	779	---	100	"	"	"	---	78	"	---	---	Q-55
1,1-Dichloroethane	888	---	25.0	"	"	"	---	89	"	---	---	
1,2-Dichloroethane (EDC)	986	---	25.0	"	"	"	---	99	"	---	---	
1,1-Dichloroethene	1010	---	25.0	"	"	"	---	101	"	---	---	

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
02/26/18 16:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 5035A/8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020374 - EPA 5035A						Soil						
LCS (8020374-BS4)						Prepared: 02/05/18 09:00 Analyzed: 02/05/18 12:27						
5035A/8260C												
cis-1,2-Dichloroethene	927	---	25.0	ug/kg wet	"	"	---	93	"	---	---	
trans-1,2-Dichloroethene	902	---	25.0	"	"	"	---	90	"	---	---	
1,2-Dichloropropane	897	---	25.0	"	"	"	---	90	"	---	---	
1,3-Dichloropropane	978	---	50.0	"	"	"	---	98	"	---	---	
2,2-Dichloropropane	993	---	50.0	"	"	"	---	99	"	---	---	
1,1-Dichloropropene	912	---	50.0	"	"	"	---	91	"	---	---	
cis-1,3-Dichloropropene	973	---	50.0	"	"	"	---	97	"	---	---	
trans-1,3-Dichloropropene	979	---	50.0	"	"	"	---	98	"	---	---	
Ethylbenzene	937	---	25.0	"	"	"	---	94	"	---	---	
Hexachlorobutadiene	967	---	100	"	"	"	---	97	"	---	---	
2-Hexanone	1870	---	500	"	"	2000	---	94	"	---	---	
Isopropylbenzene	966	---	50.0	"	"	1000	---	97	"	---	---	
4-Isopropyltoluene	944	---	50.0	"	"	"	---	94	"	---	---	
Methylene chloride	838	---	250	"	"	"	---	84	"	---	---	
4-Methyl-2-pentanone (MiBK)	1910	---	500	"	"	2000	---	96	"	---	---	
Methyl tert-butyl ether (MTBE)	898	---	50.0	"	"	1000	---	90	"	---	---	
Naphthalene	1020	---	100	"	"	"	---	102	"	---	---	
n-Propylbenzene	970	---	25.0	"	"	"	---	97	"	---	---	
Styrene	950	---	50.0	"	"	"	---	95	"	---	---	
1,1,1,2-Tetrachloroethane	915	---	25.0	"	"	"	---	92	"	---	---	
1,1,2,2-Tetrachloroethane	973	---	50.0	"	"	"	---	97	"	---	---	
Tetrachloroethene (PCE)	968	---	25.0	"	"	"	---	97	"	---	---	
Toluene	939	---	50.0	"	"	"	---	94	"	---	---	
1,2,3-Trichlorobenzene	996	---	250	"	"	"	---	100	"	---	---	
1,2,4-Trichlorobenzene	998	---	250	"	"	"	---	100	"	---	---	
1,1,1-Trichloroethane	914	---	25.0	"	"	"	---	91	"	---	---	
1,1,2-Trichloroethane	975	---	25.0	"	"	"	---	98	"	---	---	
Trichloroethene (TCE)	938	---	25.0	"	"	"	---	94	"	---	---	
Trichlorofluoromethane	677	---	100	"	"	"	---	68	"	---	---	Q-55
1,2,3-Trichloropropane	962	---	50.0	"	"	"	---	96	"	---	---	
1,2,4-Trimethylbenzene	893	---	50.0	"	"	"	---	89	"	---	---	
1,3,5-Trimethylbenzene	937	---	50.0	"	"	"	---	94	"	---	---	
Vinyl chloride	923	---	25.0	"	"	"	---	92	"	---	---	
m,p-Xylene	1940	---	50.0	"	"	2000	---	97	"	---	---	

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
02/26/18 16:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 5035A/8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020374 - EPA 5035A						Soil						
LCS (8020374-BS4)						Prepared: 02/05/18 09:00 Analyzed: 02/05/18 12:27						
5035A/8260C												
o-Xylene	948	---	25.0	ug/kg wet	"	1000	---	95	"	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 97 %</i>			<i>Limits: 80-120 %</i>			<i>Dilution: 1x</i>			
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>			<i>80-120 %</i>			<i>"</i>			
<i>4-Bromofluorobenzene (Surr)</i>			<i>98 %</i>			<i>80-120 %</i>			<i>"</i>			
Duplicate (8020374-DUP1)						Prepared: 02/02/18 08:40 Analyzed: 02/05/18 18:20						
QC Source Sample: Other (A8B0071-CW)												
5035A/8260C												
Acetone	ND	---	1350	ug/kg dry	50	---	ND	---	---	---	30%	
Acrylonitrile	ND	---	135	"	"	---	ND	---	---	---	30%	
Benzene	ND	---	13.5	"	"	---	ND	---	---	---	30%	
Bromobenzene	ND	---	33.6	"	"	---	ND	---	---	---	30%	
Bromochloromethane	ND	---	67.3	"	"	---	ND	---	---	---	30%	
Bromodichloromethane	ND	---	67.3	"	"	---	ND	---	---	---	30%	
Bromoform	ND	---	135	"	"	---	ND	---	---	---	30%	
Bromomethane	ND	---	673	"	"	---	ND	---	---	---	30%	
2-Butanone (MEK)	ND	---	673	"	"	---	ND	---	---	---	30%	
n-Butylbenzene	ND	---	67.3	"	"	---	ND	---	---	---	30%	
sec-Butylbenzene	ND	---	67.3	"	"	---	ND	---	---	---	30%	
tert-Butylbenzene	ND	---	67.3	"	"	---	ND	---	---	---	30%	
Carbon disulfide	ND	---	673	"	"	---	ND	---	---	---	30%	
Carbon tetrachloride	ND	---	67.3	"	"	---	ND	---	---	---	30%	
Chlorobenzene	ND	---	33.6	"	"	---	ND	---	---	---	30%	
Chloroethane	ND	---	673	"	"	---	ND	---	---	---	30%	
Chloroform	ND	---	67.3	"	"	---	ND	---	---	---	30%	
Chloromethane	ND	---	336	"	"	---	ND	---	---	---	30%	
2-Chlorotoluene	ND	---	67.3	"	"	---	ND	---	---	---	30%	
4-Chlorotoluene	ND	---	67.3	"	"	---	ND	---	---	---	30%	
Dibromochloromethane	ND	---	135	"	"	---	ND	---	---	---	30%	
1,2-Dibromo-3-chloropropane	ND	---	336	"	"	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	---	67.3	"	"	---	ND	---	---	---	30%	
Dibromomethane	ND	---	67.3	"	"	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	---	33.6	"	"	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	---	33.6	"	"	---	ND	---	---	---	30%	

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
 240 N Broadway Ste 203
 Portland, OR 97227

Project: **Debocks Texaco**
 Project Number: 2093-01
 Project Manager: Chris Rhea

Reported:
 02/26/18 16:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 5035A/8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020374 - EPA 5035A						Soil						
Duplicate (8020374-DUP1)						Prepared: 02/02/18 08:40 Analyzed: 02/05/18 18:20				COMP		
QC Source Sample: Other (A8B0071-CW)												
5035A/8260C												
1,4-Dichlorobenzene	ND	---	33.6	ug/kg dry	"	---	ND	---	---	---	30%	
Dichlorodifluoromethane	ND	---	135	"	"	---	ND	---	---	---	30%	
1,1-Dichloroethane	ND	---	33.6	"	"	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	33.6	"	"	---	ND	---	---	---	30%	
1,1-Dichloroethene	ND	---	33.6	"	"	---	ND	---	---	---	30%	
cis-1,2-Dichloroethene	ND	---	33.6	"	"	---	ND	---	---	---	30%	
trans-1,2-Dichloroethene	ND	---	33.6	"	"	---	ND	---	---	---	30%	
1,2-Dichloropropane	ND	---	33.6	"	"	---	ND	---	---	---	30%	
1,3-Dichloropropane	ND	---	67.3	"	"	---	ND	---	---	---	30%	
2,2-Dichloropropane	ND	---	67.3	"	"	---	ND	---	---	---	30%	
1,1-Dichloropropene	ND	---	67.3	"	"	---	ND	---	---	---	30%	
cis-1,3-Dichloropropene	ND	---	67.3	"	"	---	ND	---	---	---	30%	
trans-1,3-Dichloropropene	ND	---	67.3	"	"	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	33.6	"	"	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	---	135	"	"	---	ND	---	---	---	30%	
2-Hexanone	ND	---	673	"	"	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	67.3	"	"	---	ND	---	---	---	30%	
4-Isopropyltoluene	ND	---	67.3	"	"	---	ND	---	---	---	30%	
Methylene chloride	ND	---	336	"	"	---	ND	---	---	---	30%	
4-Methyl-2-pentanone (MiBK)	ND	---	673	"	"	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	67.3	"	"	---	ND	---	---	---	30%	
Naphthalene	ND	---	135	"	"	---	ND	---	---	---	30%	
n-Propylbenzene	ND	---	33.6	"	"	---	ND	---	---	---	30%	
Styrene	ND	---	67.3	"	"	---	ND	---	---	---	30%	
1,1,1,2-Tetrachloroethane	ND	---	33.6	"	"	---	ND	---	---	---	30%	
1,1,2,2-Tetrachloroethane	ND	---	67.3	"	"	---	ND	---	---	---	30%	
Tetrachloroethene (PCE)	ND	---	33.6	"	"	---	ND	---	---	---	30%	
Toluene	ND	---	67.3	"	"	---	ND	---	---	---	30%	
1,2,3-Trichlorobenzene	ND	---	336	"	"	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	---	336	"	"	---	ND	---	---	---	30%	
1,1,1-Trichloroethane	ND	---	33.6	"	"	---	ND	---	---	---	30%	
1,1,2-Trichloroethane	ND	---	33.6	"	"	---	ND	---	---	---	30%	
Trichloroethene (TCE)	ND	---	33.6	"	"	---	ND	---	---	---	30%	

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
 240 N Broadway Ste 203
 Portland, OR 97227

Project: **Debocks Texaco**
 Project Number: 2093-01
 Project Manager: Chris Rhea

Reported:
 02/26/18 16:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 5035A/8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020374 - EPA 5035A						Soil						
Duplicate (8020374-DUP1)						Prepared: 02/02/18 08:40 Analyzed: 02/05/18 18:20						COMP
QC Source Sample: Other (A8B0071-CW)												
5035A/8260C												
Trichlorofluoromethane	ND	---	135	ug/kg dry	"	---	ND	---	---	---	30%	
1,2,3-Trichloropropane	ND	---	67.3	"	"	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	67.3	"	"	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	67.3	"	"	---	ND	---	---	---	30%	
Vinyl chloride	ND	---	33.6	"	"	---	ND	---	---	---	30%	
m,p-Xylene	ND	---	67.3	"	"	---	ND	---	---	---	30%	
o-Xylene	ND	---	33.6	"	"	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)			Recovery: 95 %	Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)			100 %	80-120 %		"						
4-Bromofluorobenzene (Surr)			99 %	80-120 %		"						
Matrix Spike (8020374-MS1)						Prepared: 02/01/18 15:45 Analyzed: 02/05/18 20:07						COMP
QC Source Sample: Other (A8B0071-CZ)												
5035A/8260C												
Acetone	2550	---	1320	ug/kg dry	50	2650	ND	96	36-164	---	---	
Acrylonitrile	1310	---	132	"	"	1320	ND	99	65-134	---	---	
Benzene	1270	---	13.2	"	"	"	ND	96	77-121	---	---	
Bromobenzene	1380	---	33.1	"	"	"	ND	104	78-121	---	---	
Bromochloromethane	1320	---	66.1	"	"	"	ND	100	78-125	---	---	
Bromodichloromethane	1100	---	66.1	"	"	"	ND	83	75-127	---	---	
Bromoform	1110	---	132	"	"	"	ND	84	67-132	---	---	
Bromomethane	1730	---	661	"	"	"	ND	131	53-143	---	---	
2-Butanone (MEK)	2370	---	661	"	"	2650	ND	89	51-148	---	---	
n-Butylbenzene	1330	---	66.1	"	"	1320	ND	100	70-128	---	---	
sec-Butylbenzene	1390	---	66.1	"	"	"	ND	105	73-126	---	---	
tert-Butylbenzene	1370	---	66.1	"	"	"	ND	103	73-125	---	---	
Carbon disulfide	1200	---	661	"	"	"	ND	91	63-132	---	---	
Carbon tetrachloride	1150	---	66.1	"	"	"	ND	87	70-135	---	---	
Chlorobenzene	1380	---	33.1	"	"	"	ND	105	79-120	---	---	
Chloroethane	1270	---	661	"	"	"	ND	96	59-139	---	---	Q-54
Chloroform	1270	---	66.1	"	"	"	ND	96	78-123	---	---	
Chloromethane	1030	---	331	"	"	"	ND	78	50-136	---	---	Q-54c
2-Chlorotoluene	1340	---	66.1	"	"	"	ND	102	75-122	---	---	

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 Portland, OR 97227

Project: **Debocks Texaco**
 Project Number: 2093-01
 Project Manager: Chris Rhea

Reported:
 02/26/18 16:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 5035A/8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020374 - EPA 5035A						Soil						
Matrix Spike (8020374-MS1)						Prepared: 02/01/18 15:45 Analyzed: 02/05/18 20:07						COMP
QC Source Sample: Other (A8B0071-CZ)												
5035A/8260C												
4-Chlorotoluene	1360	---	66.1	ug/kg dry	"	"	ND	103	72-124	---	---	
Dibromochloromethane	1310	---	132	"	"	"	ND	99	74-126	---	---	
1,2-Dibromo-3-chloropropane	1220	---	331	"	"	"	ND	92	61-132	---	---	
1,2-Dibromoethane (EDB)	1380	---	66.1	"	"	"	ND	104	78-122	---	---	
Dibromomethane	1220	---	66.1	"	"	"	ND	92	78-125	---	---	
1,2-Dichlorobenzene	1350	---	33.1	"	"	"	ND	102	78-121	---	---	
1,3-Dichlorobenzene	1360	---	33.1	"	"	"	ND	103	77-121	---	---	
1,4-Dichlorobenzene	1330	---	33.1	"	"	"	ND	100	75-120	---	---	
Dichlorodifluoromethane	1150	---	132	"	"	"	ND	87	29-149	---	---	Q-54b
1,1-Dichloroethane	1290	---	33.1	"	"	"	ND	98	76-125	---	---	
1,2-Dichloroethane (EDC)	1380	---	33.1	"	"	"	ND	105	73-128	---	---	
1,1-Dichloroethene	1450	---	33.1	"	"	"	ND	110	70-131	---	---	
cis-1,2-Dichloroethene	1330	---	33.1	"	"	"	ND	100	77-123	---	---	
trans-1,2-Dichloroethene	1300	---	33.1	"	"	"	ND	98	74-125	---	---	
1,2-Dichloropropane	1270	---	33.1	"	"	"	ND	96	76-123	---	---	
1,3-Dichloropropane	1370	---	66.1	"	"	"	ND	103	77-121	---	---	
2,2-Dichloropropane	1170	---	66.1	"	"	"	ND	88	67-133	---	---	
1,1-Dichloropropene	1330	---	66.1	"	"	"	ND	100	76-125	---	---	
cis-1,3-Dichloropropene	1310	---	66.1	"	"	"	ND	99	74-126	---	---	
trans-1,3-Dichloropropene	1270	---	66.1	"	"	"	ND	96	71-130	---	---	
Ethylbenzene	1370	---	33.1	"	"	"	ND	103	76-122	---	---	
Hexachlorobutadiene	1360	---	132	"	"	"	ND	102	61-135	---	---	
2-Hexanone	2550	---	661	"	"	2650	ND	96	53-145	---	---	
Isopropylbenzene	1400	---	66.1	"	"	1320	ND	106	68-134	---	---	
4-Isopropyltoluene	1350	---	66.1	"	"	"	ND	102	73-127	---	---	
Methylene chloride	1200	---	331	"	"	"	ND	91	70-128	---	---	
4-Methyl-2-pentanone (MiBK)	2540	---	661	"	"	2650	ND	96	65-135	---	---	
Methyl tert-butyl ether (MTBE)	1220	---	66.1	"	"	1320	ND	92	73-125	---	---	
Naphthalene	1400	---	132	"	"	"	ND	106	62-129	---	---	
n-Propylbenzene	1400	---	33.1	"	"	"	ND	106	73-125	---	---	
Styrene	1390	---	66.1	"	"	"	ND	105	76-124	---	---	
1,1,1,2-Tetrachloroethane	1220	---	33.1	"	"	"	ND	92	78-125	---	---	
1,1,2,2-Tetrachloroethane	1310	---	66.1	"	"	"	ND	99	70-124	---	---	

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Kevin J. Friscia, Project Manager

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Project: **Debocks Texaco**
 Project Number: 2093-01
 Project Manager: Chris Rhea

Reported:
 02/26/18 16:35

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 5035A/8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020374 - EPA 5035A						Soil						
Matrix Spike (8020374-MS1)						Prepared: 02/01/18 15:45 Analyzed: 02/05/18 20:07				COMP		
QC Source Sample: Other (A8B0071-CZ)												
5035A/8260C												
Tetrachloroethene (PCE)	1390	---	33.1	ug/kg dry	"	"	ND	105	73-128	---	---	
Toluene	1350	---	66.1	"	"	"	ND	102	77-121	---	---	
1,2,3-Trichlorobenzene	1390	---	331	"	"	"	ND	105	66-130	---	---	
1,2,4-Trichlorobenzene	1390	---	331	"	"	"	ND	105	67-129	---	---	
1,1,1-Trichloroethane	1330	---	33.1	"	"	"	ND	101	73-130	---	---	
1,1,2-Trichloroethane	1370	---	33.1	"	"	"	ND	103	78-121	---	---	
Trichloroethene (TCE)	1350	---	33.1	"	"	"	ND	102	77-123	---	---	
Trichlorofluoromethane	1080	---	132	"	"	"	ND	82	62-140	---	---	Q-54a
1,2,3-Trichloropropane	1330	---	66.1	"	"	"	ND	100	73-125	---	---	
1,2,4-Trimethylbenzene	1310	---	66.1	"	"	"	ND	99	75-123	---	---	
1,3,5-Trimethylbenzene	1340	---	66.1	"	"	"	ND	101	73-124	---	---	
Vinyl chloride	1430	---	33.1	"	"	"	ND	108	56-135	---	---	
m,p-Xylene	2810	---	66.1	"	"	2650	ND	106	77-124	---	---	
o-Xylene	1370	---	33.1	"	"	1320	ND	103	77-123	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 96 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>80-120 %</i>		<i>"</i>						



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Project: **Debocks Texaco**
 Project Number: 2093-01
 Project Manager: Chris Rhea

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QUALITY CONTROL (QC) SAMPLE RESULTS

1,2-Dibromoethane (EDB) by EPA 8260C SIM

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC %REC	RPD RPD	Notes	
Batch 8020385 - EPA 5030B						Water					
Blank (8020385-BLK1)						Prepared: 02/05/18 12:30 Analyzed: 02/05/18 15:14					
EPA 8260C SIM											
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 96 %</i>		<i>Limits: 70-130 %</i>		<i>Dilution: 1x</i>					
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>70-130 %</i>		<i>"</i>					
<i>4-Bromofluorobenzene (Surr)</i>		<i>112 %</i>		<i>70-130 %</i>		<i>"</i>					
LCS (8020385-BS2)						Prepared: 02/05/18 12:30 Analyzed: 02/05/18 14:47					
EPA 8260C SIM											
1,2-Dibromoethane (EDB)	0.239	0.0100	0.0200	ug/L	1	0.200	---	120	80-120	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 70-130 %</i>		<i>Dilution: 1x</i>					
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>70-130 %</i>		<i>"</i>					
<i>4-Bromofluorobenzene (Surr)</i>		<i>105 %</i>		<i>70-130 %</i>		<i>"</i>					
Duplicate (8020385-DUP1)						Prepared: 02/05/18 15:00 Analyzed: 02/05/18 16:08					
QC Source Sample: Other (A8B0077-01)											
EPA 8260C SIM											
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	---	ND	---	---	---	30%
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 70-130 %</i>		<i>Dilution: 1x</i>					
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>70-130 %</i>		<i>"</i>					
<i>4-Bromofluorobenzene (Surr)</i>		<i>113 %</i>		<i>70-130 %</i>		<i>"</i>					
Matrix Spike (8020385-MS1)						Prepared: 02/05/18 15:00 Analyzed: 02/05/18 17:02					
QC Source Sample: Other (A8B0077-02)											
EPA 8260C SIM											
1,2-Dibromoethane (EDB)	0.240	0.0100	0.0200	ug/L	1	0.200	ND	120	77-121	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 70-130 %</i>		<i>Dilution: 1x</i>					
<i>Toluene-d8 (Surr)</i>		<i>101 %</i>		<i>70-130 %</i>		<i>"</i>					
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>70-130 %</i>		<i>"</i>					

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Project Manager: Chris Rhea

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QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020544 - EPA 3510C (Acid Extraction)						Water						
Blank (8020544-BLK1)						Prepared: 02/09/18 09:05 Analyzed: 02/09/18 12:46						
EPA 8270D (SIM)												
Acenaphthene	ND	---	0.0364	ug/L	1	---	---	---	---	---	---	---
Acenaphthylene	ND	---	0.0364	"	"	---	---	---	---	---	---	---
Anthracene	ND	---	0.0364	"	"	---	---	---	---	---	---	---
Benz(a)anthracene	ND	---	0.0364	"	"	---	---	---	---	---	---	---
Benzo(a)pyrene	ND	---	0.0364	"	"	---	---	---	---	---	---	---
Benzo(b)fluoranthene	ND	---	0.0364	"	"	---	---	---	---	---	---	---
Benzo(k)fluoranthene	ND	---	0.0364	"	"	---	---	---	---	---	---	---
Benzo(g,h,i)perylene	ND	---	0.0364	"	"	---	---	---	---	---	---	---
Chrysene	ND	---	0.0364	"	"	---	---	---	---	---	---	---
Dibenz(a,h)anthracene	ND	---	0.0364	"	"	---	---	---	---	---	---	---
Dibenzofuran	ND	---	0.0364	"	"	---	---	---	---	---	---	---
Fluoranthene	ND	---	0.0364	"	"	---	---	---	---	---	---	---
Fluorene	ND	---	0.0364	"	"	---	---	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	ND	---	0.0364	"	"	---	---	---	---	---	---	---
1-Methylnaphthalene	ND	---	0.0727	"	"	---	---	---	---	---	---	---
2-Methylnaphthalene	ND	---	0.0727	"	"	---	---	---	---	---	---	---
Naphthalene	ND	---	0.0727	"	"	---	---	---	---	---	---	---
Phenanthrene	ND	---	0.0364	"	"	---	---	---	---	---	---	---
Pyrene	ND	---	0.0364	"	"	---	---	---	---	---	---	---

Surr: 2-Fluorobiphenyl (Surr)
p-Terphenyl-d14 (Surr)

Recovery: 83 % Limits: 44-120 % Dilution: 1x
90 % 50-133 % "

LCS (8020544-BS1)

Prepared: 02/09/18 09:05 Analyzed: 02/09/18 13:12

EPA 8270D (SIM)												
Acenaphthene	6.69	---	0.0400	ug/L	1	8.00	---	84	47-122	---	---	---
Acenaphthylene	6.22	---	0.0400	"	"	"	---	78	41-130	---	---	---
Anthracene	6.66	---	0.0400	"	"	"	---	83	57-123	---	---	---
Benz(a)anthracene	6.86	---	0.0400	"	"	"	---	86	58-125	---	---	---
Benzo(a)pyrene	6.94	---	0.0400	"	"	"	---	87	54-128	---	---	---
Benzo(b)fluoranthene	6.98	---	0.0400	"	"	"	---	87	53-131	---	---	---
Benzo(k)fluoranthene	7.11	---	0.0400	"	"	"	---	89	57-129	---	---	---
Benzo(g,h,i)perylene	7.42	---	0.0400	"	"	"	---	93	50-134	---	---	---
Chrysene	7.22	---	0.0400	"	"	"	---	90	59-123	---	---	---
Dibenz(a,h)anthracene	7.23	---	0.0400	"	"	"	---	90	51-134	---	---	---
Dibenzofuran	6.37	---	0.0400	"	"	"	---	80	53-120	---	---	---

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Kevin J. Friscia, Project Manager

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 Project Manager: Chris Rhea

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QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020544 - EPA 3510C (Acid Extraction) Water												
LCS (8020544-BS1)						Prepared: 02/09/18 09:05 Analyzed: 02/09/18 13:12						
EPA 8270D (SIM)												
Fluoranthene	6.63	---	0.0400	ug/L	"	"	---	83	57-128	---	---	
Fluorene	6.47	---	0.0400	"	"	"	---	81	52-124	---	---	
Indeno(1,2,3-cd)pyrene	7.22	---	0.0400	"	"	"	---	90	52-133	---	---	
1-Methylnaphthalene	6.25	---	0.0800	"	"	"	---	78	41-120	---	---	
2-Methylnaphthalene	6.04	---	0.0800	"	"	"	---	76	40-121	---	---	
Naphthalene	6.05	---	0.0800	"	"	"	---	76	"	---	---	
Phenanthrene	6.70	---	0.0400	"	"	"	---	84	59-120	---	---	
Pyrene	6.58	---	0.0400	"	"	"	---	82	57-126	---	---	

Surr: 2-Fluorobiphenyl (Surr) Recovery: 82 % Limits: 44-120 % Dilution: 1x
 p-Terphenyl-d14 (Surr) 87 % 50-133 % "

LCS Dup (8020544-BSD1)												Q-19
Prepared: 02/09/18 09:05 Analyzed: 02/09/18 13:39												
EPA 8270D (SIM)												
Acenaphthene	7.07	---	0.0400	ug/L	1	8.00	---	88	47-122	6	30%	
Acenaphthylene	6.58	---	0.0400	"	"	"	---	82	41-130	6	30%	
Anthracene	6.93	---	0.0400	"	"	"	---	87	57-123	4	30%	
Benz(a)anthracene	7.20	---	0.0400	"	"	"	---	90	58-125	5	30%	
Benzo(a)pyrene	7.09	---	0.0400	"	"	"	---	89	54-128	2	30%	
Benzo(b)fluoranthene	7.61	---	0.0400	"	"	"	---	95	53-131	9	30%	
Benzo(k)fluoranthene	7.20	---	0.0400	"	"	"	---	90	57-129	1	30%	
Benzo(g,h,i)perylene	7.82	---	0.0400	"	"	"	---	98	50-134	5	30%	
Chrysene	7.34	---	0.0400	"	"	"	---	92	59-123	2	30%	
Dibenz(a,h)anthracene	7.51	---	0.0400	"	"	"	---	94	51-134	4	30%	
Dibenzofuran	6.77	---	0.0400	"	"	"	---	85	53-120	6	30%	
Fluoranthene	6.99	---	0.0400	"	"	"	---	87	57-128	5	30%	
Fluorene	6.87	---	0.0400	"	"	"	---	86	52-124	6	30%	
Indeno(1,2,3-cd)pyrene	7.54	---	0.0400	"	"	"	---	94	52-133	4	30%	
1-Methylnaphthalene	6.72	---	0.0800	"	"	"	---	84	41-120	7	30%	
2-Methylnaphthalene	6.49	---	0.0800	"	"	"	---	81	40-121	7	30%	
Naphthalene	6.50	---	0.0800	"	"	"	---	81	"	7	30%	
Phenanthrene	7.00	---	0.0400	"	"	"	---	87	59-120	4	30%	
Pyrene	6.92	---	0.0400	"	"	"	---	87	57-126	5	30%	

Surr: 2-Fluorobiphenyl (Surr) Recovery: 84 % Limits: 44-120 % Dilution: 1x
 p-Terphenyl-d14 (Surr) 85 % 50-133 % "

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020692 - EPA 3015A						Water						
Blank (8020692-BLK1)						Prepared: 02/14/18 16:01		Analyzed: 02/15/18 13:35				
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (8020692-BS1)						Prepared: 02/14/18 16:01		Analyzed: 02/15/18 13:38				
EPA 200.8												
Lead	58.0	---	0.200	ug/L	1	55.6	---	104	85-115	---	---	---
Duplicate (8020692-DUP1)						Prepared: 02/14/18 16:01		Analyzed: 02/15/18 13:56				
QC Source Sample: Other (A8B0114-02)												
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	ND	---	---	---	---	20%
Matrix Spike (8020692-MS1)						Prepared: 02/14/18 16:01		Analyzed: 02/15/18 14:00				
QC Source Sample: Other (A8B0114-02)												
EPA 200.8												
Lead	55.5	---	0.200	ug/L	1	55.6	ND	100	70-130	---	---	---
Matrix Spike (8020692-MS2)						Prepared: 02/14/18 16:01		Analyzed: 02/15/18 15:28				
QC Source Sample: Other (A8B0346-01)												
EPA 200.8												
Lead	56.1	---	0.200	ug/L	1	55.6	0.656	100	70-130	---	---	---

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QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8020683 - Matrix Matched Direct Inject						Water						
Blank (8020683-BLK1)						Prepared: 02/14/18 13:47 Analyzed: 02/15/18 14:46						
EPA 200.8 (Diss)												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (8020683-BS1)						Prepared: 02/14/18 13:47 Analyzed: 02/15/18 14:50						
EPA 200.8 (Diss)												
Lead	55.9	---	0.200	ug/L	1	55.6	---	101	85-115	---	---	---
Duplicate (8020683-DUP1)						Prepared: 02/14/18 13:47 Analyzed: 02/15/18 15:14						
QC Source Sample: MW3 (A8B0101-02)												
EPA 200.8 (Diss)												
Lead	ND	---	0.200	ug/L	1	---	ND	---	---	---	---	20%
Matrix Spike (8020683-MS1)						Prepared: 02/14/18 13:47 Analyzed: 02/15/18 15:19						
QC Source Sample: MW3 (A8B0101-02)												
EPA 200.8 (Diss)												
Lead	56.5	---	0.200	ug/L	1	55.6	ND	102	70-130	---	---	---

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SAMPLE PREPARATION INFORMATION

Hydrocarbon Identification Screen by NWTPH-HCID

Prep: NWTPH-HCID (Soil)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: <u>8020494</u>							
A8B0101-03	Oil	NWTPH-HCID	02/01/18 14:35	02/07/18 15:20	1.11g/10mL	1g/10mL	0.90

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: <u>8020432</u>							
A8B0101-01	Water	NWTPH-Dx	02/02/18 08:53	02/06/18 13:32	1040mL/5mL	1000mL/5mL	0.96
A8B0101-02	Water	NWTPH-Dx	02/02/18 10:36	02/06/18 13:32	1060mL/5mL	1000mL/5mL	0.94

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: <u>8020370</u>							
A8B0101-01	Water	NWTPH-Gx (MS)	02/02/18 08:53	02/05/18 10:23	5mL/5mL	5mL/5mL	1.00
A8B0101-02	Water	NWTPH-Gx (MS)	02/02/18 10:36	02/05/18 10:23	5mL/5mL	5mL/5mL	1.00

RBDM Compounds (BTEX+) by EPA 8260C

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: <u>8020370</u>							
A8B0101-01	Water	EPA 8260C	02/02/18 08:53	02/05/18 10:23	5mL/5mL	5mL/5mL	1.00
A8B0101-02	Water	EPA 8260C	02/02/18 10:36	02/05/18 10:23	5mL/5mL	5mL/5mL	1.00

Volatile Organic Compounds by EPA 5035A/8260C

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: <u>8020374</u>							
A8B0101-03	Oil	5035A/8260C	02/01/18 14:35	02/05/18 17:25	1.48g/5mL	5g/5mL	3.38

1,2-Dibromoethane (EDB) by EPA 8260C SIM

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SAMPLE PREPARATION INFORMATION

1,2-Dibromoethane (EDB) by EPA 8260C SIM

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8020385							
A8B0101-01RE	Water	EPA 8260C SIM	02/02/18 08:53	02/05/18 15:00	5mL/5mL	5mL/5mL	1.00
A8B0101-02RE	Water	EPA 8260C SIM	02/02/18 10:36	02/06/18 12:00	5mL/5mL	5mL/5mL	1.00

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Prep: EPA 3510C (Acid Extraction)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8020544							
A8B0101-01	Water	EPA 8270D (SIM)	02/02/18 08:53	02/09/18 09:05	960mL/2mL	1000mL/2mL	1.04
A8B0101-02	Water	EPA 8270D (SIM)	02/02/18 10:36	02/09/18 09:05	960mL/2mL	1000mL/2mL	1.04

Total Metals by EPA 200.8 (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8020692							
A8B0101-01	Water	EPA 200.8	02/02/18 08:53	02/14/18 16:01	45mL/50mL	45mL/50mL	1.00
A8B0101-02	Water	EPA 200.8	02/02/18 10:36	02/14/18 16:01	45mL/50mL	45mL/50mL	1.00

Dissolved Metals by EPA 200.8 (ICPMS)

Prep: Matrix Matched Direct Inject

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8020683							
A8B0101-01	Water	EPA 200.8 (Diss)	02/02/18 08:53	02/14/18 13:47	45mL/50mL	45mL/50mL	1.00
A8B0101-02	Water	EPA 200.8 (Diss)	02/02/18 10:36	02/14/18 13:47	45mL/50mL	45mL/50mL	1.00

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Notes and Definitions

Qualifiers:

- COMP Sample is a composite of discrete samples. See prep information for details.
- F-13 The chromatographic pattern does not resemble the fuel standard used for quantitation
- M-02 Due to matrix interference, this analyte cannot be accurately quantified. The reported result is estimated.
- Q-19 Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- Q-24 RPD for spike and spike duplicate is above established control limit. Recoveries for both spike and spike duplicate are within control limits.
- Q-54 Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260C/8270D by -11.4%. The results are reported as Estimated Values.
- Q-54a Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260C/8270D by -12.3%. The results are reported as Estimated Values.
- Q-54b Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260C/8270D by -2.1%. The results are reported as Estimated Values.
- Q-54c Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260C/8270D by -8.3%. The results are reported as Estimated Values.
- Q-55 Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260C, however there is adequate sensitivity to ensure detection at the reporting level.
- R-02 The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- S-01 Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
- V-01 Sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
- V-16 Sample aliquot was subsampled from the sample container in the laboratory. The subsampled aliquot was not preserved within 48 hours of sampling.

Notes and Conventions:

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry' designation are not dry weight corrected.
- RPD Relative Percent Difference
- MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
- WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
- Batch QC In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.

Apex Laboratories



Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
02/26/18 16:35

Blank Policy Apex assesses blank data for potential high bias down to a level equal to ½ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses.

For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.

Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.

--- QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

*** Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).



EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**

Project Number: 2093-01

Project Manager: Chris Rhea

Reported:
02/26/18 16:35

Lab # A830101 of 1

CHAIN OF CUSTODY

APEX LABS

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: EES		Project Mgr: CHRIS RHEA		Project Name: DEBOCKS TEXACO		Project # 2093-01	
Address: 240 N Broadway Suite 203, Astoria, OR		Phone: 771-302-8734		Fax: -		Email: CHRIS@EES-ENV.COM	
Sampled by: Nicolas Each		Date: 2/2/18		Time: 10:56		Matrix: W	
Site Location: OR (WA)		Date: 2/1/18		Time: 14:35		Matrix: P	
Other: (WA)		Date: 2/1/18		Time: 14:35		Matrix: P	
LAB ID #		DATE		TIME		MATRIX	
1 MW 1		2/2/18		0853		W	
2 MW 3		2/1/18		1056		W	
3 MW 2		2/1/18		1435		P	
4							
5							
6							
7							
8							
9							
10							

ANALYSIS REQUEST	1200-Z
AL, SB, AS, BA, BB, BC, CD	1200-COLS
CE, CF, CG, CH, CI, CJ, CK, CL	TOTAL DISS TCLP
CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ	HE, MG, MN, MO, NI, NR, NS, NT, NV, NW, NX, NY, NZ
DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ	TCLP Metals (8)
EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ	RCA Metals (8)
FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ	600 TTO
GA, GB, GC, GD, GE, GF, GG, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ	8082 PCBs
HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ	8270 SIM PAHs
IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ	8270 SVOC
JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ	8260 BTEX VOCs
KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ	8260 HVOCs
LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ	8260 RBDM VOCs
MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MM, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ	8260 VOCs Full List
NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NN, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ	NWTPH-Gx
OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ	NWTPH-Dx
PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ	NWTPH-ICID

Normal Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): **3 Day**

RECEIVED BY: **Nicolas Each** Date: **2/13/18** Signature: *[Signature]* Date: **2/13/18**

RELINQUISHED BY: **Nicolas Each** Date: **3/02/18** Signature: *[Signature]* Printed Name: **CHRIS RHEA** Time: **15:00**

RECEIVED BY: **CHRIS RHEA** Date: **2/15/18** Signature: *[Signature]* Date: **2/15/18**

RELINQUISHED BY: **CHRIS RHEA** Date: **2/15/18** Signature: *[Signature]* Printed Name: **CHRIS RHEA** Time: **15:00**

Company: **EES**

Apex Laboratories



Kevin J. Friscia, Project Manager

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EES Environmental Inc
 240 N Broadway Ste 203
 Portland, OR 97227

Project: **Debocks Texaco**
 Project Number: 2093-01
 Project Manager: Chris Rhea

Reported:
 02/26/18 16:35

APEX LABS COOLER RECEIPT FORM

Client: EES Element WO#: A8 B0101

Project/Project #: Debrocks Texaco 2093-01

Delivery info:

Date/Time Received: 2/5/18 @ 950 By: CFH

Delivered by: Apex Client ESS FedEx UPS Swift Senvoy SDS Other

Cooler Inspection Inspected by: CFH : 2/5/18 @ 1103

Chain of Custody Included? Yes No Custody Seals? Yes No

Signed/Dated by Client? Yes No

Signed/Dated by Apex? Yes No

Cooler #1 Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #6 Cooler #7

Temperature (deg. C) _____

Received on Ice? (Y) (N) _____

Temp. Blanks? (Y) (N) 5.8 _____

Ice Type: (Gel/Real/Other) _____

Condition: Good _____

Cooler out of temp? (Y) (N) Possible reason why: _____

If some coolers are in temp and some out, were green dot applied to out of temperature samples? Yes/No/NA

Samples Inspection: Inspected by: CFH : 2/5/18 @ 1132

All Samples Intact? Yes No Comments: _____

Bottle Labels/COCs agree? Yes No Comments: MW2 containers need

MW-2 LNAPL, MW3 no info on HCl amber + FE HND3 poly

Containers/Volumes Received Appropriate for Analysis? Yes No Comments: _____

Do VOA Vials have Visible Headspace? Yes No NA

Comments: _____

Water Samples: pH Checked and Appropriate (except VOAs): Yes No NA

Comments: _____

Additional Information: TBS # 1710 + 1711 not used on CoC

Labeled by: _____ Witness: _____ Cooler Inspected by: _____ See Project Contact Form: Y

CFH

CFH

CFH



Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Thursday, April 26, 2018

Chris Rhea
EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

RE: Debocks Texaco / 2093-01

Enclosed are the results of analyses for work order A8C0745, which was received by the laboratory on 3/19/2018 at 10:48:00AM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: KFriscia@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories



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Kevin J. Friscia, Project Manager

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B1-3	A8C0745-01	Soil	03/15/18 12:15	03/19/18 10:48
B1-10	A8C0745-03	Soil	03/15/18 12:30	03/19/18 10:48
B1-15	A8C0745-04	Soil	03/15/18 12:35	03/19/18 10:48
B1-20	A8C0745-05	Soil	03/15/18 12:55	03/19/18 10:48
B1-25	A8C0745-06	Soil	03/15/18 13:10	03/19/18 10:48
B1-W	A8C0745-07	Water	03/15/18 14:10	03/19/18 10:48
B2-10	A8C0745-10	Soil	03/15/18 15:40	03/19/18 10:48
B2-15	A8C0745-11	Soil	03/15/18 15:50	03/19/18 10:48
B2-19	A8C0745-12	Soil	03/15/18 16:10	03/19/18 10:48
B2-25	A8C0745-13	Soil	03/15/18 16:30	03/19/18 10:48
B3-3	A8C0745-14	Soil	03/16/18 08:40	03/19/18 10:48
B3-10	A8C0745-16	Soil	03/16/18 09:10	03/19/18 10:48
B3-15	A8C0745-18	Soil	03/16/18 09:30	03/19/18 10:48
B3-20	A8C0745-19	Soil	03/16/18 09:35	03/19/18 10:48
B3-25	A8C0745-20	Soil	03/16/18 10:15	03/19/18 10:48
B3-W	A8C0745-21	Water	03/16/18 10:47	03/19/18 10:48
B4-15	A8C0745-22	Soil	03/16/18 11:55	03/19/18 10:48
B4-17	A8C0745-23	Soil	03/16/18 12:05	03/19/18 10:48
B4-20	A8C0745-24	Soil	03/16/18 12:00	03/19/18 10:48
B4-25	A8C0745-25	Soil	03/16/18 12:55	03/19/18 10:48
B5-5	A8C0745-27	Soil	03/16/18 15:33	03/19/18 10:48
B5-10	A8C0745-28	Soil	03/16/18 15:38	03/19/18 10:48
B5-15	A8C0745-29	Soil	03/16/18 15:50	03/19/18 10:48
B5-20	A8C0745-30	Soil	03/16/18 16:04	03/19/18 10:48
B5-25	A8C0745-31	Soil	03/16/18 16:15	03/19/18 10:48
B4-W	A8C0745-32	Water	03/16/18 13:30	03/19/18 10:48

Apex Laboratories



Kevin J. Friscia, Project Manager

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Reported: 04/26/18 08:39
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ANALYTICAL CASE NARRATIVE

Work Order: A8C0745

Subcontract

This report is not complete without the attached subcontract laboratory report for EPH/VPH from Fremont Analytical.

Kevin Friscia
Project Manager
4/26/2018



Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
B1-15 (A8C0745-04)			Matrix: Soil		Batch: 8031277			
Diesel	ND	---	25.0	mg/kg dry	1	03/28/18 21:22	NWTPH-Dx	
Oil	ND	---	50.0	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 81 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
B1-W (A8C0745-07)			Matrix: Water		Batch: 8030971			
Diesel	1.07	---	0.980	mg/L	5	03/22/18 01:50	NWTPH-Dx	F-18
Oil	ND	---	1.96	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 95 %</i>	<i>Limits: 50-150 %</i>	"	"	"	S-05
B3-W (A8C0745-21)			Matrix: Water		Batch: 8030971			
Diesel	0.348	---	0.194	mg/L	1	03/22/18 02:37	NWTPH-Dx	F-18
Oil	ND	---	0.388	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 91 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
B4-17 (A8C0745-23)			Matrix: Soil		Batch: 8031277			
Diesel	342	---	25.9	mg/kg dry	1	03/28/18 22:03	NWTPH-Dx	F-20
Oil	ND	---	51.9	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 89 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
B4-W (A8C0745-32)			Matrix: Water		Batch: 8030971			
Diesel	0.411	---	0.194	mg/L	1	03/22/18 03:00	NWTPH-Dx	F-18
Oil	ND	---	0.388	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 90 %</i>	<i>Limits: 50-150 %</i>	"	"	"	

Apex Laboratories



Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris RheaReported:
04/26/18 08:39

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting			Dilution	Date Analyzed	Method	Notes
			Limit	Units					
B1-3 (A8C0745-01)			Matrix: Soil		Batch: 8030985				
Gasoline Range Organics	ND	---	6.47	mg/kg dry	50	03/21/18 14:17	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 109 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			102 %	Limits: 50-150 %	"	"	"		
B1-10 (A8C0745-03)			Matrix: Soil		Batch: 8030985				
Gasoline Range Organics	ND	---	7.09	mg/kg dry	50	03/21/18 14:44	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 110 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			102 %	Limits: 50-150 %	"	"	"		
B1-15 (A8C0745-04RE1)			Matrix: Soil		Batch: 8030985				
Gasoline Range Organics	9970	---	1170	mg/kg dry	10000	03/21/18 20:05	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 114 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			106 %	Limits: 50-150 %	"	"	"		
B1-20 (A8C0745-05)			Matrix: Soil		Batch: 8031223				
Gasoline Range Organics	43.5	---	5.36	mg/kg dry	50	03/28/18 14:55	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 103 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			96 %	Limits: 50-150 %	"	"	"		
B1-25 (A8C0745-06)			Matrix: Soil		Batch: 8030985				
Gasoline Range Organics	ND	---	6.39	mg/kg dry	50	03/21/18 16:31	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 110 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			103 %	Limits: 50-150 %	"	"	"		
B1-W (A8C0745-07)			Matrix: Water		Batch: 8030978				
Gasoline Range Organics	7.24	---	0.500	mg/L	5	03/21/18 20:54	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 119 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			117 %	Limits: 50-150 %	"	"	"		
B2-10 (A8C0745-10)			Matrix: Soil		Batch: 8030985				
Gasoline Range Organics	ND	---	6.32	mg/kg dry	50	03/21/18 16:58	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 111 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			103 %	Limits: 50-150 %	"	"	"		
B2-15 (A8C0745-11RE1)			Matrix: Soil		Batch: 8031041				
Gasoline Range Organics	648	---	12.3	mg/kg dry	100	03/22/18 14:13	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 150 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			109 %	Limits: 50-150 %	"	"	"		
B2-19 (A8C0745-12RE1)			Matrix: Soil		Batch: 8031041				
Gasoline Range Organics	1530	---	33.8	mg/kg dry	250	03/22/18 13:47	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 140 %	Limits: 50-150 %	1	"	"		

Apex Laboratories



Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris RheaReported:
04/26/18 08:39

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
B2-19 (A8C0745-12RE1)			Matrix: Soil		Batch: 8031041			
Surrogate: 1,4-Difluorobenzene (Sur)			Recovery: 110 %	Limits: 50-150 %	1	"	NWTPH-Gx (MS)	
B2-25 (A8C0745-13)			Matrix: Soil		Batch: 8030985			
Gasoline Range Organics	ND	---	5.11	mg/kg dry	50	03/21/18 18:45	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 109 %	Limits: 50-150 %	1	"	"	
1,4-Difluorobenzene (Sur)			103 %	Limits: 50-150 %	"	"	"	
B3-3 (A8C0745-14)			Matrix: Soil		Batch: 8030985			
Gasoline Range Organics	ND	---	6.34	mg/kg dry	50	03/21/18 19:12	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 110 %	Limits: 50-150 %	1	"	"	
1,4-Difluorobenzene (Sur)			103 %	Limits: 50-150 %	"	"	"	
B3-10 (A8C0745-16)			Matrix: Soil		Batch: 8030985			
Gasoline Range Organics	ND	---	6.41	mg/kg dry	50	03/21/18 19:39	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 112 %	Limits: 50-150 %	1	"	"	
1,4-Difluorobenzene (Sur)			104 %	Limits: 50-150 %	"	"	"	
B3-15 (A8C0745-18)			Matrix: Soil		Batch: 8030958			
Gasoline Range Organics	10000	---	233	mg/kg dry	2000	03/21/18 14:35	NWTPH-Gx (MS) Q-42	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 114 %	Limits: 50-150 %	1	"	"	
1,4-Difluorobenzene (Sur)			106 %	Limits: 50-150 %	"	"	"	
B3-20 (A8C0745-19)			Matrix: Soil		Batch: 8031223			
Gasoline Range Organics	12.5	---	5.44	mg/kg dry	50	03/28/18 15:48	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 102 %	Limits: 50-150 %	1	"	"	
1,4-Difluorobenzene (Sur)			96 %	Limits: 50-150 %	"	"	"	
B3-25 (A8C0745-20)			Matrix: Soil		Batch: 8030958			
Gasoline Range Organics	ND	---	6.93	mg/kg dry	50	03/21/18 14:08	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 111 %	Limits: 50-150 %	1	"	"	
1,4-Difluorobenzene (Sur)			100 %	Limits: 50-150 %	"	"	"	
B3-W (A8C0745-21RE1)			Matrix: Water		Batch: 8031031			
Gasoline Range Organics	1.44	---	0.100	mg/L	1	03/22/18 15:47	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 102 %	Limits: 50-150 %	"	"	"	
1,4-Difluorobenzene (Sur)			104 %	Limits: 50-150 %	"	"	"	
B4-15 (A8C0745-22)			Matrix: Soil		Batch: 8030958			
Gasoline Range Organics	5600	---	130	mg/kg dry	1000	03/21/18 15:28	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 108 %	Limits: 50-150 %	1	"	"	
1,4-Difluorobenzene (Sur)			110 %	Limits: 50-150 %	"	"	"	
B4-17 (A8C0745-23)			Matrix: Soil		Batch: 8030958			

Apex Laboratories



Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris RheaReported:
04/26/18 08:39

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting			Dilution	Date Analyzed	Method	Notes
			Limit	Units					
B4-17 (A8C0745-23)			Matrix: Soil			Batch: 8030958			
Gasoline Range Organics	22300	---	260	mg/kg dry	2000	03/21/18 15:55	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 108 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			122 %	Limits: 50-150 %	"	"	"		
B4-20 (A8C0745-24)			Matrix: Soil			Batch: 8030958			
Gasoline Range Organics	10500	---	252	mg/kg dry	2000	03/21/18 16:22	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 111 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			124 %	Limits: 50-150 %	"	"	"		
B4-25 (A8C0745-25RE1)			Matrix: Soil			Batch: 8030958			
Gasoline Range Organics	ND	---	5.76	mg/kg dry	50	03/21/18 19:58	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 111 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			101 %	Limits: 50-150 %	"	"	"		
B5-5 (A8C0745-27)			Matrix: Soil			Batch: 8030958			
Gasoline Range Organics	ND	---	6.20	mg/kg dry	50	03/21/18 17:16	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 108 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			101 %	Limits: 50-150 %	"	"	"		
B5-10 (A8C0745-28)			Matrix: Soil			Batch: 8030958			
Gasoline Range Organics	ND	---	5.62	mg/kg dry	50	03/21/18 17:43	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 109 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			102 %	Limits: 50-150 %	"	"	"		
B5-15 (A8C0745-29)			Matrix: Soil			Batch: 8030958			
Gasoline Range Organics	81.8	---	5.72	mg/kg dry	50	03/21/18 18:37	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 138 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			109 %	Limits: 50-150 %	"	"	"		
B5-20 (A8C0745-30RE1)			Matrix: Soil			Batch: 8031302			
Gasoline Range Organics	2300	---	120	mg/kg dry	1000	03/29/18 14:14	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 133 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			99 %	Limits: 50-150 %	"	"	"		
B5-25 (A8C0745-31)			Matrix: Soil			Batch: 8040535			
Gasoline Range Organics	ND	---	6.76	mg/kg dry	50	04/06/18 16:45	NWTPH-Gx (MS)	H-01	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 102 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			96 %	Limits: 50-150 %	"	"	"		
B4-W (A8C0745-32)			Matrix: Water			Batch: 8030978			
Gasoline Range Organics	5.25	---	0.500	mg/L	5	03/21/18 21:22	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 121 %	Limits: 50-150 %	1	"	"		

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Kevin J. Friscia, Project Manager

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Reported: 04/26/18 08:39
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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B4-W (A8C0745-32)								
			Matrix: Water		Batch: 8030978			
<i>Surrogate: 1,4-Difluorobenzene (Sur)</i>			<i>Recovery: 115 %</i>	<i>Limits: 50-150 %</i>	1	"	NWTPH-Gx (MS)	

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
B1-3 (A8C0745-01)			Matrix: Soil		Batch: 8030985			
Benzene	ND	---	12.9	ug/kg dry	50	03/21/18 14:17	5035A/8260C	
Toluene	ND	---	64.7	"	"	"	"	
Ethylbenzene	ND	---	32.3	"	"	"	"	
Xylenes, total	ND	---	97.0	"	"	"	"	
Naphthalene	ND	---	129	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 107 %</i>	<i>Limits: 80-120 %</i>	1	"	"	
<i>Toluene-d8 (Surr)</i>			<i>99 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
B1-10 (A8C0745-03)			Matrix: Soil		Batch: 8030985			
Benzene	ND	---	14.2	ug/kg dry	50	03/21/18 14:44	5035A/8260C	
Toluene	ND	---	70.9	"	"	"	"	
Ethylbenzene	ND	---	35.4	"	"	"	"	
Xylenes, total	ND	---	106	"	"	"	"	
Naphthalene	ND	---	142	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 107 %</i>	<i>Limits: 80-120 %</i>	1	"	"	
<i>Toluene-d8 (Surr)</i>			<i>99 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>98 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
B1-15 (A8C0745-04)			Matrix: Soil		Batch: 8030985			
Benzene	ND	---	234	ug/kg dry	1000	03/21/18 15:11	5035A/8260C	
Toluene	ND	---	1170	"	"	"	"	
Ethylbenzene	36400	---	584	"	"	"	"	
Xylenes, total	84600	---	1750	"	"	"	"	
Naphthalene	39800	---	2340	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 109 %</i>	<i>Limits: 80-120 %</i>	1	"	"	
<i>Toluene-d8 (Surr)</i>			<i>103 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
B1-20 (A8C0745-05)			Matrix: Soil		Batch: 8031223			
Benzene	26.3	---	10.7	ug/kg dry	50	03/28/18 14:55	5035A/8260C	
Toluene	ND	---	53.6	"	"	"	"	
Ethylbenzene	ND	---	26.8	"	"	"	"	
Xylenes, total	ND	---	80.4	"	"	"	"	
Naphthalene	339	---	107	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>	1	"	"	
<i>Toluene-d8 (Surr)</i>			<i>98 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>100 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
B1-25 (A8C0745-06)			Matrix: Soil		Batch: 8030985			

Apex Laboratories



Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting			Dilution	Date Analyzed	Method	Notes
			Limit	Units					
B1-25 (A8C0745-06)			Matrix: Soil			Batch: 8030985			
Benzene	ND	---	12.8	ug/kg dry	50	03/21/18 16:31	5035A/8260C		
Toluene	ND	---	63.9	"	"	"	"		
Ethylbenzene	ND	---	31.9	"	"	"	"		
Xylenes, total	ND	---	95.8	"	"	"	"		
Naphthalene	ND	---	128	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 108 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>99 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B2-10 (A8C0745-10)			Matrix: Soil			Batch: 8030985			
Benzene	ND	---	12.6	ug/kg dry	50	03/21/18 16:58	5035A/8260C		
Toluene	ND	---	63.2	"	"	"	"		
Ethylbenzene	ND	---	31.6	"	"	"	"		
Xylenes, total	ND	---	94.8	"	"	"	"		
Naphthalene	ND	---	126	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 108 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>99 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>98 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B2-15 (A8C0745-11RE1)			Matrix: Soil			Batch: 8031041			
Benzene	ND	---	24.5	ug/kg dry	100	03/22/18 14:13	5035A/8260C		
Toluene	ND	---	123	"	"	"	"		
Ethylbenzene	800	---	61.3	"	"	"	"		
Xylenes, total	1250	---	184	"	"	"	"		
Naphthalene	1870	---	245	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 110 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>98 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B2-19 (A8C0745-12RE1)			Matrix: Soil			Batch: 8031041			
Benzene	77.6	---	67.5	ug/kg dry	250	03/22/18 13:47	5035A/8260C		
Toluene	ND	---	338	"	"	"	"		
Ethylbenzene	1820	---	169	"	"	"	"		
Xylenes, total	1930	---	506	"	"	"	"		
Naphthalene	1790	---	675	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 110 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>97 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B2-25 (A8C0745-13)			Matrix: Soil			Batch: 8030985			

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
B2-25 (A8C0745-13)			Matrix: Soil		Batch: 8030985			
Benzene	ND	---	10.2	ug/kg dry	50	03/21/18 18:45	5035A/8260C	
Toluene	ND	---	51.1	"	"	"	"	
Ethylbenzene	ND	---	25.5	"	"	"	"	
Xylenes, total	ND	---	76.6	"	"	"	"	
Naphthalene	ND	---	102	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 109 %</i>	<i>Limits: 80-120 %</i>	1	"	"	
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>98 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
B3-3 (A8C0745-14)			Matrix: Soil		Batch: 8030985			
Benzene	ND	---	12.7	ug/kg dry	50	03/21/18 19:12	5035A/8260C	
Toluene	ND	---	63.4	"	"	"	"	
Ethylbenzene	ND	---	31.7	"	"	"	"	
Xylenes, total	ND	---	95.0	"	"	"	"	
Naphthalene	ND	---	127	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 109 %</i>	<i>Limits: 80-120 %</i>	1	"	"	
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
B3-10 (A8C0745-16)			Matrix: Soil		Batch: 8030985			
Benzene	ND	---	12.8	ug/kg dry	50	03/21/18 19:39	5035A/8260C	
Toluene	ND	---	64.1	"	"	"	"	
Ethylbenzene	ND	---	32.0	"	"	"	"	
Xylenes, total	ND	---	96.1	"	"	"	"	
Naphthalene	ND	---	128	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 109 %</i>	<i>Limits: 80-120 %</i>	1	"	"	
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>98 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
B3-15 (A8C0745-18)			Matrix: Soil		Batch: 8030958			
Benzene	ND	---	467	ug/kg dry	2000	03/21/18 14:35	5035A/8260C	
Toluene	ND	---	2330	"	"	"	"	
Ethylbenzene	72700	---	1170	"	"	"	"	Q-42
Xylenes, total	374000	---	3500	"	"	"	"	Q-42
Naphthalene	37300	---	4670	"	"	"	"	Q-42
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 103 %</i>	<i>Limits: 80-120 %</i>	1	"	"	
<i>Toluene-d8 (Surr)</i>			<i>99 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>103 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
B3-20 (A8C0745-19)			Matrix: Soil		Batch: 8031223			

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Kevin J. Friscia, Project Manager

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Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting			Dilution	Date Analyzed	Method	Notes
			Limit	Units					
B3-20 (A8C0745-19)			Matrix: Soil			Batch: 8031223			
Benzene	ND	---	10.9	ug/kg dry	50	03/28/18 15:48	5035A/8260C		
Toluene	ND	---	54.4	"	"	"	"		
Ethylbenzene	ND	---	27.2	"	"	"	"		
Xylenes, total	ND	---	81.7	"	"	"	"		
Naphthalene	ND	---	109	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>98 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>98 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B3-25 (A8C0745-20)			Matrix: Soil			Batch: 8030958			
Benzene	ND	---	13.9	ug/kg dry	50	03/21/18 14:08	5035A/8260C		
Toluene	ND	---	69.3	"	"	"	"		
Ethylbenzene	ND	---	34.7	"	"	"	"		
Xylenes, total	ND	---	104	"	"	"	"		
Naphthalene	ND	---	139	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>98 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>103 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B4-15 (A8C0745-22)			Matrix: Soil			Batch: 8030958			
Benzene	ND	---	261	ug/kg dry	1000	03/21/18 15:28	5035A/8260C		
Toluene	7750	---	1300	"	"	"	"		
Ethylbenzene	40400	---	652	"	"	"	"		
Xylenes, total	342000	---	1950	"	"	"	"		
Naphthalene	28900	---	2610	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>99 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>103 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B4-17 (A8C0745-23)			Matrix: Soil			Batch: 8030958			
Benzene	ND	---	519	ug/kg dry	2000	03/21/18 15:55	5035A/8260C		
Toluene	97500	---	2600	"	"	"	"		
Ethylbenzene	276000	---	1300	"	"	"	"		
Naphthalene	126000	---	5190	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>101 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B4-17 (A8C0745-23RE1)			Matrix: Soil			Batch: 8030958			
Xylenes, total	1870000	---	38900	ug/kg dry	20000	03/21/18 20:25	5035A/8260C		

Apex Laboratories



Kevin J. Friscia, Project Manager

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ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
B4-17 (A8C0745-23RE1)			Matrix: Soil		Batch: 8030958			
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 103 %</i>	<i>Limits: 80-120 %</i>	1	"	5035A/8260C	
<i>Toluene-d8 (Surr)</i>			98 %	Limits: 80-120 %	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			101 %	Limits: 80-120 %	"	"	"	
B4-20 (A8C0745-24)			Matrix: Soil		Batch: 8030958			
Benzene	ND	---	503	ug/kg dry	2000	03/21/18 16:22	5035A/8260C	
Toluene	15200	---	2520	"	"	"	"	
Ethylbenzene	70600	---	1260	"	"	"	"	
Xylenes, total	343000	---	3770	"	"	"	"	
Naphthalene	38600	---	5030	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 103 %</i>	<i>Limits: 80-120 %</i>	1	"	"	
<i>Toluene-d8 (Surr)</i>			100 %	Limits: 80-120 %	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			103 %	Limits: 80-120 %	"	"	"	
B4-25 (A8C0745-25RE1)			Matrix: Soil		Batch: 8030958			
Benzene	ND	---	11.5	ug/kg dry	50	03/21/18 19:58	5035A/8260C	
Toluene	ND	---	57.6	"	"	"	"	
Ethylbenzene	ND	---	28.8	"	"	"	"	
Xylenes, total	ND	---	86.4	"	"	"	"	
Naphthalene	ND	---	115	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 103 %</i>	<i>Limits: 80-120 %</i>	1	"	"	
<i>Toluene-d8 (Surr)</i>			98 %	Limits: 80-120 %	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			103 %	Limits: 80-120 %	"	"	"	
B5-5 (A8C0745-27)			Matrix: Soil		Batch: 8030958			
Benzene	ND	---	12.4	ug/kg dry	50	03/21/18 17:16	5035A/8260C	
Toluene	ND	---	62.0	"	"	"	"	
Ethylbenzene	ND	---	31.0	"	"	"	"	
Xylenes, total	ND	---	93.1	"	"	"	"	
Naphthalene	ND	---	124	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>	1	"	"	
<i>Toluene-d8 (Surr)</i>			98 %	Limits: 80-120 %	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			102 %	Limits: 80-120 %	"	"	"	
B5-10 (A8C0745-28)			Matrix: Soil		Batch: 8030958			
Benzene	ND	---	11.2	ug/kg dry	50	03/21/18 17:43	5035A/8260C	
Toluene	ND	---	56.2	"	"	"	"	
Ethylbenzene	ND	---	28.1	"	"	"	"	
Xylenes, total	ND	---	84.3	"	"	"	"	
Naphthalene	ND	---	112	"	"	"	"	

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes	
			Limit	Units					
B5-10 (A8C0745-28)			Matrix: Soil		Batch: 8030958				
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 103 %</i>	<i>Limits: 80-120 %</i>	1	"	5035A/8260C		
<i>Toluene-d8 (Surr)</i>			<i>97 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>102 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B5-15 (A8C0745-29)			Matrix: Soil		Batch: 8030958				
Benzene	ND	---	11.4	ug/kg dry	50	03/21/18 18:37	5035A/8260C		
Toluene	ND	---	57.2	"	"	"	"		
Ethylbenzene	ND	---	28.6	"	"	"	"		
Xylenes, total	ND	---	85.9	"	"	"	"		
Naphthalene	186	---	114	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>95 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>104 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B5-20 (A8C0745-30)			Matrix: Soil		Batch: 8031223				
Benzene	ND	---	12.0	ug/kg dry	50	03/28/18 16:15	5035A/8260C		
Toluene	87.6	---	60.0	"	"	"	"		
Ethylbenzene	8110	---	30.0	"	"	"	"		
Xylenes, total	18900	---	90.0	"	"	"	"		
Naphthalene	9100	---	120	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>104 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B5-25 (A8C0745-31)			Matrix: Soil		Batch: 8040535				H-01
Benzene	ND	---	13.5	ug/kg dry	50	04/06/18 16:45	5035A/8260C		
Toluene	ND	---	67.6	"	"	"	"		
Ethylbenzene	ND	---	33.8	"	"	"	"		
Xylenes, total	ND	---	101	"	"	"	"		
Naphthalene	ND	---	135	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>Limits: 80-120 %</i>	"	"	"		

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

ANALYTICAL SAMPLE RESULTS

RBDM Compounds (BTEX+) by EPA 8260C

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
B1-W (A8C0745-07)			Matrix: Water		Batch: 8030978			
Benzene	30.8	---	1.00	ug/L	5	03/21/18 20:54	EPA 8260C	
1,2-Dibromoethane (EDB)	ND	---	2.50	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	---	2.50	"	"	"	"	
Ethylbenzene	97.9	---	2.50	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	---	5.00	"	"	"	"	
Naphthalene	162	---	10.0	"	"	"	"	
Toluene	6.92	---	5.00	"	"	"	"	
Xylenes, total	195	---	7.50	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 107 %</i>	<i>Limits: 80-120 %</i>	1	"	"	
<i>Toluene-d8 (Surr)</i>			<i>103 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>93 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
B3-W (A8C0745-21RE1)			Matrix: Water		Batch: 8031031			
Benzene	ND	---	0.200	ug/L	1	03/22/18 15:47	EPA 8260C	
1,2-Dibromoethane (EDB)	ND	---	0.500	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	---	0.500	"	"	"	"	
Ethylbenzene	9.93	---	0.500	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	"	"	"	"	
Naphthalene	ND	---	2.00	"	"	"	"	
Toluene	ND	---	1.00	"	"	"	"	
Xylenes, total	34.7	---	1.50	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 104 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>Toluene-d8 (Surr)</i>			<i>102 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
B4-W (A8C0745-32)			Matrix: Water		Batch: 8030978			
Benzene	1.28	---	1.00	ug/L	5	03/21/18 21:22	EPA 8260C	
1,2-Dibromoethane (EDB)	ND	---	2.50	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	---	2.50	"	"	"	"	
Ethylbenzene	92.1	---	2.50	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	---	5.00	"	"	"	"	
Naphthalene	21.2	---	10.0	"	"	"	"	
Toluene	66.2	---	5.00	"	"	"	"	
Xylenes, total	588	---	7.50	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 107 %</i>	<i>Limits: 80-120 %</i>	1	"	"	
<i>Toluene-d8 (Surr)</i>			<i>102 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>95 %</i>	<i>Limits: 80-120 %</i>	"	"	"	

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Kevin J. Friscia, Project Manager

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Reported: 04/26/18 08:39
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ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
B1-W (A8C0745-07)			Matrix: Water		Batch: 8031033			
Acenaphthene	ND	---	0.190	ug/L	5	03/22/18 14:54	EPA 8270D (SIM)	
Acenaphthylene	ND	---	0.190	"	"	"	"	
Anthracene	ND	---	0.190	"	"	"	"	
Benz(a)anthracene	ND	---	0.190	"	"	"	"	
Benzo(a)pyrene	ND	---	0.190	"	"	"	"	
Benzo(b)fluoranthene	ND	---	0.190	"	"	"	"	
Benzo(k)fluoranthene	ND	---	0.190	"	"	"	"	
Benzo(g,h,i)perylene	ND	---	0.190	"	"	"	"	
Chrysene	ND	---	0.190	"	"	"	"	
Dibenz(a,h)anthracene	ND	---	0.190	"	"	"	"	
Dibenzofuran	ND	---	0.190	"	"	"	"	
Fluoranthene	ND	---	0.190	"	"	"	"	
Fluorene	ND	---	0.190	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	---	0.190	"	"	"	"	
1-Methylnaphthalene	1.31	---	0.381	"	"	"	"	
2-Methylnaphthalene	0.561	---	0.381	"	"	"	"	
Naphthalene	37.3	---	0.381	"	"	"	"	
Phenanthrene	ND	---	0.190	"	"	"	"	
Pyrene	ND	---	0.190	"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>			<i>Recovery: 71 %</i>	<i>Limits: 44-120 %</i>	"	"	"	
<i>p-Terphenyl-d14 (Surr)</i>			<i>72 %</i>	<i>Limits: 50-133 %</i>	"	"	"	

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris RheaReported:
04/26/18 08:39

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
B4-17 (A8C0745-23)			Matrix: Soil		Batch: 8031281			
Acenaphthene	ND	---	36.3	ug/kg dry	1	03/29/18 14:28	EPA 8270D (SIM)	R-02
Acenaphthylene	ND	---	15.6	"	"	"	"	R-02
Anthracene	ND	---	12.1	"	"	"	"	R-02
Benz(a)anthracene	ND	---	8.64	"	"	"	"	
Benzo(a)pyrene	ND	---	8.64	"	"	"	"	
Benzo(b)fluoranthene	ND	---	8.64	"	"	"	"	
Benzo(k)fluoranthene	ND	---	8.64	"	"	"	"	
Benzo(g,h,i)perylene	ND	---	8.64	"	"	"	"	
Chrysene	ND	---	8.64	"	"	"	"	
Dibenz(a,h)anthracene	ND	---	8.64	"	"	"	"	
Dibenzofuran	ND	---	24.2	"	"	"	"	R-02
Fluoranthene	10.4	---	8.64	"	"	"	"	
Fluorene	60.0	---	8.64	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	---	8.64	"	"	"	"	
Phenanthrene	98.1	---	8.64	"	"	"	"	
Pyrene	14.1	---	8.64	"	"	"	"	M-02
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>			<i>Recovery: 48 %</i>	<i>Limits: 44-120 %</i>	"	"	"	
<i>p-Terphenyl-d14 (Surr)</i>			<i>51 %</i>	<i>Limits: 54-127 %</i>	"	"	"	S-06

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris RheaReported:
04/26/18 08:39

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
B4-17 (A8C0745-23RE1)			Matrix: Soil		Batch: 8031281			
1-Methylnaphthalene	5300	---	864	ug/kg dry	100	03/29/18 19:45	EPA 8270D (SIM)	
2-Methylnaphthalene	10100	---	864	"	"	"	"	
Naphthalene	9790	---	864	"	"	"	"	
B4-W (A8C0745-32)			Matrix: Water		Batch: 8031033			
Acenaphthene	ND	---	0.0900	ug/L	1	03/22/18 15:47	EPA 8270D (SIM)	R-02
Acenaphthylene	ND	---	0.0500	"	"	"	"	R-02
Anthracene	ND	---	0.0400	"	"	"	"	
Benz(a)anthracene	ND	---	0.0400	"	"	"	"	
Benzo(a)pyrene	ND	---	0.0400	"	"	"	"	
Benzo(b)fluoranthene	ND	---	0.0400	"	"	"	"	
Benzo(k)fluoranthene	ND	---	0.0400	"	"	"	"	
Benzo(g,h,i)perylene	ND	---	0.0400	"	"	"	"	
Chrysene	ND	---	0.0400	"	"	"	"	
Dibenz(a,h)anthracene	ND	---	0.0400	"	"	"	"	
Dibenzofuran	ND	---	0.0400	"	"	"	"	
Fluoranthene	ND	---	0.0400	"	"	"	"	
Fluorene	ND	---	0.0400	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	---	0.0400	"	"	"	"	
1-Methylnaphthalene	6.22	---	0.0800	"	"	"	"	
2-Methylnaphthalene	5.54	---	0.0800	"	"	"	"	
Naphthalene	14.7	---	0.0800	"	"	"	"	
Phenanthrene	0.0663	---	0.0400	"	"	"	"	
Pyrene	ND	---	0.0400	"	"	"	"	
Surrogate: 2-Fluorobiphenyl (Surr)			Recovery: 66 %		Limits: 44-120 %		"	
p-Terphenyl-d14 (Surr)			73 %		Limits: 50-133 %		"	

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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B1-15 (A8C0745-04)			Matrix: Soil					
Batch: 8040678								
Lead	12.1	---	1.34	mg/kg dry	10	04/11/18 15:27	EPA 6020A	
B4-17 (A8C0745-23)			Matrix: Soil					
Batch: 8040678								
Lead	10.3	---	1.38	mg/kg dry	10	04/11/18 15:30	EPA 6020A	

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240 N Broadway Ste 203
Portland, OR 97227Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris RheaReported:
04/26/18 08:39

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B1-W (A8C0745-07) Matrix: Water								
Batch: 8031158								
Lead	7.62	---	0.200	ug/L	1	03/26/18 22:48	EPA 200.8	
B3-W (A8C0745-21) Matrix: Water								
Batch: 8031158								
Lead	18.1	---	0.200	ug/L	1	03/26/18 22:53	EPA 200.8	
B4-W (A8C0745-32) Matrix: Water								
Batch: 8031167								
Lead	13.0	---	0.200	ug/L	1	03/26/18 19:56	EPA 200.8	

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris RheaReported:
04/26/18 08:39

ANALYTICAL SAMPLE RESULTS

Dissolved Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
B1-W (A8C0745-07RE1)			Matrix: Water					
Batch: 8031191								
Lead	1.33	---	1.00	ug/L	5	03/29/18 00:12	EPA 200.8 (Diss)	
B3-W (A8C0745-21RE1)			Matrix: Water					
Batch: 8031191								
Lead	ND	---	2.00	ug/L	10	03/29/18 00:16	EPA 200.8 (Diss)	R-04
B4-W (A8C0745-32RE1)			Matrix: Water					
Batch: 8031191								
Lead	ND	---	1.00	ug/L	5	03/29/18 00:20	EPA 200.8 (Diss)	R-04

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting			Date Analyzed	Method	Notes
			Limit	Units	Dilution			
B1-3 (A8C0745-01)			Matrix: Soil		Batch: 8031003			
% Solids	86.2	---	1.00	% by Weight	1	03/22/18 08:12	EPA 8000C	
B1-10 (A8C0745-03)			Matrix: Soil		Batch: 8031003			
% Solids	85.1	---	1.00	% by Weight	1	03/22/18 08:12	EPA 8000C	
B1-15 (A8C0745-04)			Matrix: Soil		Batch: 8031003			
% Solids	81.5	---	1.00	% by Weight	1	03/22/18 08:12	EPA 8000C	
B1-20 (A8C0745-05)			Matrix: Soil		Batch: 8031322			
% Solids	84.0	---	1.00	% by Weight	1	03/30/18 08:58	EPA 8000C	
B1-25 (A8C0745-06)			Matrix: Soil		Batch: 8031003			
% Solids	77.7	---	1.00	% by Weight	1	03/22/18 08:12	EPA 8000C	
B2-10 (A8C0745-10)			Matrix: Soil		Batch: 8031003			
% Solids	78.3	---	1.00	% by Weight	1	03/22/18 08:12	EPA 8000C	
B2-15 (A8C0745-11)			Matrix: Soil		Batch: 8031003			
% Solids	77.9	---	1.00	% by Weight	1	03/22/18 08:12	EPA 8000C	
B2-19 (A8C0745-12)			Matrix: Soil		Batch: 8031003			
% Solids	76.3	---	1.00	% by Weight	1	03/22/18 08:12	EPA 8000C	
B2-25 (A8C0745-13)			Matrix: Soil		Batch: 8031003			
% Solids	81.8	---	1.00	% by Weight	1	03/22/18 08:12	EPA 8000C	
B3-3 (A8C0745-14)			Matrix: Soil		Batch: 8031003			
% Solids	85.5	---	1.00	% by Weight	1	03/22/18 08:12	EPA 8000C	
B3-10 (A8C0745-16)			Matrix: Soil		Batch: 8031003			
% Solids	77.6	---	1.00	% by Weight	1	03/22/18 08:12	EPA 8000C	
B3-15 (A8C0745-18)			Matrix: Soil		Batch: 8031003			
% Solids	80.6	---	1.00	% by Weight	1	03/22/18 08:12	EPA 8000C	
B3-20 (A8C0745-19)			Matrix: Soil		Batch: 8031322			
% Solids	79.0	---	1.00	% by Weight	1	03/30/18 08:58	EPA 8000C	
B3-25 (A8C0745-20)			Matrix: Soil		Batch: 8031003			
% Solids	78.2	---	1.00	% by Weight	1	03/22/18 08:12	EPA 8000C	
B4-15 (A8C0745-22)			Matrix: Soil		Batch: 8031003			
% Solids	81.1	---	1.00	% by Weight	1	03/22/18 08:12	EPA 8000C	
B4-17 (A8C0745-23)			Matrix: Soil		Batch: 8031003			
% Solids	75.8	---	1.00	% by Weight	1	03/22/18 08:12	EPA 8000C	

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Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
B4-20 (A8C0745-24)				Matrix: Soil	Batch: 8031003			
% Solids	79.8	---	1.00	% by Weight	1	03/22/18 08:12	EPA 8000C	
B4-25 (A8C0745-25)				Matrix: Soil	Batch: 8031003			
% Solids	83.9	---	1.00	% by Weight	1	03/22/18 08:12	EPA 8000C	
B5-5 (A8C0745-27)				Matrix: Soil	Batch: 8031003			
% Solids	86.7	---	1.00	% by Weight	1	03/22/18 08:12	EPA 8000C	
B5-10 (A8C0745-28)				Matrix: Soil	Batch: 8031003			
% Solids	83.1	---	1.00	% by Weight	1	03/22/18 08:12	EPA 8000C	
B5-15 (A8C0745-29)				Matrix: Soil	Batch: 8031003			
% Solids	90.2	---	1.00	% by Weight	1	03/22/18 08:12	EPA 8000C	
B5-20 (A8C0745-30)				Matrix: Soil	Batch: 8031272			
% Solids	80.4	---	1.00	% by Weight	1	03/29/18 08:29	EPA 8000C	
B5-25 (A8C0745-31)				Matrix: Soil	Batch: 8040635			
% Solids	80.2	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8030971 - EPA 3510C (Fuels/Acid Ext.)						Water						
Blank (8030971-BLK1)						Prepared: 03/21/18 05:19 Analyzed: 03/22/18 01:50						
NWTPH-Dx												
Diesel	ND	---	0.182	mg/L	1	---	---	---	---	---	---	
Oil	ND	---	0.364	"	"	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>			Recovery: 98 %		Limits: 50-150 %		Dilution: 1x					
LCS (8030971-BS1)						Prepared: 03/21/18 05:19 Analyzed: 03/22/18 02:14						
NWTPH-Dx												
Diesel	1.13	---	0.200	mg/L	1	1.25	---	90	58-115	---	---	
<i>Surr: o-Terphenyl (Surr)</i>			Recovery: 100 %		Limits: 50-150 %		Dilution: 1x					
LCS Dup (8030971-BSD1)						Prepared: 03/21/18 05:19 Analyzed: 03/22/18 02:37						
NWTPH-Dx												
Diesel	1.13	---	0.200	mg/L	1	1.25	---	91	58-115	0.4	20%	Q-19
<i>Surr: o-Terphenyl (Surr)</i>			Recovery: 106 %		Limits: 50-150 %		Dilution: 1x					
Batch 8031277 - EPA 3546 (Fuels)						Soil						
Blank (8031277-BLK1)						Prepared: 03/28/18 13:38 Analyzed: 03/28/18 20:41						
NWTPH-Dx												
Diesel	ND	---	25.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	50.0	"	"	---	---	---	---	---	---	
Mineral Oil	ND	---	36.4	"	"	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>			Recovery: 93 %		Limits: 50-150 %		Dilution: 1x					
LCS (8031277-BS1)						Prepared: 03/28/18 13:38 Analyzed: 03/28/18 21:01						
NWTPH-Dx												
Diesel	110	---	25.0	mg/kg wet	1	125	---	88	76-115	---	---	
<i>Surr: o-Terphenyl (Surr)</i>			Recovery: 98 %		Limits: 50-150 %		Dilution: 1x					
Duplicate (8031277-DUP1)						Prepared: 03/28/18 13:38 Analyzed: 03/28/18 21:43						
QC Source Sample: B1-15 (A8C0745-04)												
NWTPH-Dx												
Diesel	ND	---	25.0	mg/kg dry	1	---	ND	---	---	---	30%	
Oil	ND	---	50.0	"	"	---	ND	---	---	---	30%	
Mineral Oil	ND	---	45.0	"	"	---	ND	---	---	---	30%	
<i>Surr: o-Terphenyl (Surr)</i>			Recovery: 82 %		Limits: 50-150 %		Dilution: 1x					

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Project Number: 2093-01
Project Manager: Chris RheaReported:
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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8031277 - EPA 3546 (Fuels)						Soil						
Duplicate (8031277-DUP2)						Prepared: 03/28/18 13:38 Analyzed: 03/29/18 05:59						TEMP
QC Source Sample: Other (A8C1108-02)												
NWTPH-Dx												
Diesel	ND	---	25.0	mg/kg dry	1	---	ND	---	---	---	30%	
Oil	ND	---	50.0	"	"	---	ND	---	---	---	30%	
Mineral Oil	ND	---	44.8	"	"	---	ND	---	---	---	30%	
Surr: <i>o</i> -Terphenyl (Surr)			Recovery: 85 %			Limits: 50-150 %			Dilution: 1x			

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
Batch 8030958 - EPA 5035A						Soil						
Blank (8030958-BLK1)						Prepared: 03/21/18 09:30 Analyzed: 03/21/18 13:41						
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	---
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 108 %	Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)			98 %	50-150 %		"						
LCS (8030958-BS2)						Prepared: 03/21/18 09:30 Analyzed: 03/21/18 13:14						
NWTPH-Gx (MS)												
Gasoline Range Organics	24.3	---	5.00	mg/kg wet	50	25.0	---	97	80-120	---	---	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 111 %	Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)			100 %	50-150 %		"						
Duplicate (8030958-DUP1)						Prepared: 03/16/18 09:30 Analyzed: 03/21/18 15:01						
QC Source Sample: B3-15 (A8C0745-18)												
NWTPH-Gx (MS)												
Gasoline Range Organics	2790	---	251	mg/kg dry	2000	---	10000	---	---	113	30%	Q-04
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 111 %	Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)			102 %	50-150 %		"						
Duplicate (8030958-DUP2)						Prepared: 03/16/18 15:38 Analyzed: 03/21/18 18:10						
QC Source Sample: B5-10 (A8C0745-28)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	5.68	mg/kg dry	50	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 110 %	Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)			100 %	50-150 %		"						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch 8030978 - EPA 5030B						Water						
Blank (8030978-BLK1)						Prepared: 03/21/18 09:00 Analyzed: 03/21/18 11:54						
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	0.100	mg/L	1	---	---	---	---	---	---	---
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 112 %	Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)			110 %	50-150 %		"						
LCS (8030978-BS3)						Prepared: 03/21/18 09:00 Analyzed: 03/21/18 11:26						
NWTPH-Gx (MS)												
Gasoline Range Organics	0.521	---	0.100	mg/L	1	0.500	---	104	80-120	---	---	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 117 %	Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)			114 %	50-150 %		"						
Duplicate (8030978-DUP1)						Prepared: 03/21/18 11:31 Analyzed: 03/21/18 18:31						
QC Source Sample: Other (A8C0757-20)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	0.100	mg/L	1	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 116 %	Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)			114 %	50-150 %		"						
Duplicate (8030978-DUP2)						Prepared: 03/21/18 11:31 Analyzed: 03/21/18 21:50						
QC Source Sample: B4-W (A8C0745-32)												
NWTPH-Gx (MS)												
Gasoline Range Organics	5.09	---	0.500	mg/L	5	---	5.25	---	---	3	30%	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 122 %	Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)			130 %	50-150 %		"						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch 8030985 - EPA 5035A						Soil						
Blank (8030985-BLK1)						Prepared: 03/21/18 09:30 Analyzed: 03/21/18 11:37						
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	---
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 107 %	Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)			103 %	50-150 %		"						
LCS (8030985-BS2)						Prepared: 03/21/18 09:30 Analyzed: 03/21/18 11:10						
NWTPH-Gx (MS)												
Gasoline Range Organics	29.8	---	5.00	mg/kg wet	50	25.0	---	119	80-120	---	---	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 105 %	Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)			104 %	50-150 %		"						
Duplicate (8030985-DUP1)						Prepared: 03/20/18 12:00 Analyzed: 03/21/18 13:50						
QC Source Sample: Other (A8C0765-01)												
NWTPH-Gx (MS)												
Gasoline Range Organics	13.3	---	6.02	mg/kg dry	50	---	11.1	---	---	18	30%	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 114 %	Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)			104 %	50-150 %		"						
Duplicate (8030985-DUP2)						Prepared: 03/15/18 16:10 Analyzed: 03/21/18 18:18						
QC Source Sample: B2-19 (A8C0745-12)												
NWTPH-Gx (MS)												
Gasoline Range Organics	162	---	136	mg/kg dry	1000	---	1190	---	---	152	30%	Q-04
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 111 %	Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)			107 %	50-150 %		"						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch 8031031 - EPA 5030B						Water						
Blank (8031031-BLK1)						Prepared: 03/22/18 09:30 Analyzed: 03/22/18 10:50						
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	0.100	mg/L	1	---	---	---	---	---	---	---
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 100 %			Limits: 50-150 %		Dilution: 1x				
1,4-Difluorobenzene (Sur)			101 %			50-150 %		"				
LCS (8031031-BS2)						Prepared: 03/22/18 09:30 Analyzed: 03/22/18 10:23						
NWTPH-Gx (MS)												
Gasoline Range Organics	0.547	---	0.100	mg/L	1	0.500	---	109	80-120	---	---	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 102 %			Limits: 50-150 %		Dilution: 1x				
1,4-Difluorobenzene (Sur)			102 %			50-150 %		"				
Duplicate (8031031-DUP1)						Prepared: 03/22/18 10:13 Analyzed: 03/22/18 16:41						
QC Source Sample: Other (A8C0801-18)												
NWTPH-Gx (MS)												
Gasoline Range Organics	29.4	---	1.00	mg/L	10	---	30.5	---	---	4	30%	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 99 %			Limits: 50-150 %		Dilution: 1x				
1,4-Difluorobenzene (Sur)			101 %			50-150 %		"				
Duplicate (8031031-DUP2)						Prepared: 03/22/18 10:13 Analyzed: 03/22/18 20:17						
QC Source Sample: Other (A8C0825-02)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	0.100	mg/L	1	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 99 %			Limits: 50-150 %		Dilution: 1x				
1,4-Difluorobenzene (Sur)			103 %			50-150 %		"				

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8031041 - EPA 5035A						Soil						
Blank (8031041-BLK1)						Prepared: 03/22/18 09:30 Analyzed: 03/22/18 12:00						
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	---
Surr: 4-Bromofluorobenzene (Sur) Recovery: 110 % Limits: 50-150 % Dilution: 1x												
1,4-Difluorobenzene (Sur) 105 % 50-150 % "												
LCS (8031041-BS2)						Prepared: 03/22/18 09:30 Analyzed: 03/22/18 11:33						
NWTPH-Gx (MS)												
Gasoline Range Organics	29.2	---	5.00	mg/kg wet	50	25.0	---	117	80-120	---	---	---
Surr: 4-Bromofluorobenzene (Sur) Recovery: 109 % Limits: 50-150 % Dilution: 1x												
1,4-Difluorobenzene (Sur) 106 % 50-150 % "												
Duplicate (8031041-DUP1)						Prepared: 03/20/18 10:50 Analyzed: 03/22/18 16:54						
QC Source Sample: Other (A8C0825-03)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	4.21	mg/kg dry	50	---	ND	---	---	---	---	30%
Surr: 4-Bromofluorobenzene (Sur) Recovery: 107 % Limits: 50-150 % Dilution: 1x												
1,4-Difluorobenzene (Sur) 103 % 50-150 % "												

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8031223 - EPA 5035A						Soil						
Blank (8031223-BLK1)						Prepared: 03/28/18 10:00 Analyzed: 03/28/18 12:41						
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	---
Surr: 4-Bromofluorobenzene (Sur) Recovery: 99 % Limits: 50-150 % Dilution: 1x												
1,4-Difluorobenzene (Sur) 99 % 50-150 % "												
LCS (8031223-BS2)						Prepared: 03/28/18 10:00 Analyzed: 03/28/18 12:14						
NWTPH-Gx (MS)												
Gasoline Range Organics	28.2	---	5.00	mg/kg wet	50	25.0	---	113	80-120	---	---	
Surr: 4-Bromofluorobenzene (Sur) Recovery: 102 % Limits: 50-150 % Dilution: 1x												
1,4-Difluorobenzene (Sur) 100 % 50-150 % "												
Duplicate (8031223-DUP1)						Prepared: 03/15/18 12:55 Analyzed: 03/28/18 15:21						
QC Source Sample: B1-20 (A8C0745-05)												
NWTPH-Gx (MS)												
Gasoline Range Organics	36.4	---	5.61	mg/kg dry	50	---	43.5	---	---	18	30%	
Surr: 4-Bromofluorobenzene (Sur) Recovery: 99 % Limits: 50-150 % Dilution: 1x												
1,4-Difluorobenzene (Sur) 96 % 50-150 % "												

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8031302 - EPA 5035A						Soil						
Blank (8031302-BLK1)						Prepared: 03/29/18 09:30 Analyzed: 03/29/18 11:05						
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	---
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 105 %	Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)			96 %	50-150 %		"						
LCS (8031302-BS2)						Prepared: 03/29/18 09:30 Analyzed: 03/29/18 10:38						
NWTPH-Gx (MS)												
Gasoline Range Organics	23.3	---	5.00	mg/kg wet	50	25.0	---	93	80-120	---	---	---
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 107 %	Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)			98 %	50-150 %		"						
Duplicate (8031302-DUP1)						Prepared: 03/28/18 14:50 Analyzed: 03/29/18 16:02						
QC Source Sample: Other (A8C1141-01)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	5.99	mg/kg dry	50	---	ND	---	---	---	---	30%
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 109 %	Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)			98 %	50-150 %		"						

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris RheaReported:
04/26/18 08:39

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040535 - EPA 5035A						Soil						
Blank (8040535-BLK1)						Prepared: 04/06/18 07:35 Analyzed: 04/06/18 10:43						
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	---
Surr: 4-Bromofluorobenzene (Sur) Recovery: 100 % Limits: 50-150 % Dilution: 1x												
1,4-Difluorobenzene (Sur) 97 % 50-150 % "												
LCS (8040535-BS3)						Prepared: 04/06/18 07:35 Analyzed: 04/06/18 10:16						
NWTPH-Gx (MS)												
Gasoline Range Organics	24.8	---	5.00	mg/kg wet	50	25.0	---	99	80-120	---	---	
Surr: 4-Bromofluorobenzene (Sur) Recovery: 97 % Limits: 50-150 % Dilution: 1x												
1,4-Difluorobenzene (Sur) 98 % 50-150 % "												
Duplicate (8040535-DUP1)						Prepared: 04/05/18 19:50 Analyzed: 04/06/18 14:31						
QC Source Sample: Other (A8D0169-03)												
NWTPH-Gx (MS)												
Gasoline Range Organics	90.8	---	17.8	mg/kg dry	200	---	83.7	---	---	8	30%	
Surr: 4-Bromofluorobenzene (Sur) Recovery: 109 % Limits: 50-150 % Dilution: 1x												
1,4-Difluorobenzene (Sur) 96 % 50-150 % "												

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris RheaReported:
04/26/18 08:39

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8030958 - EPA 5035A						Soil						
Blank (8030958-BLK1)						Prepared: 03/21/18 09:30 Analyzed: 03/21/18 13:41						
5035A/8260C												
Benzene	ND	---	6.67	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	33.3	"	"	---	---	---	---	---	---	
Ethylbenzene	ND	---	16.7	"	"	---	---	---	---	---	---	
Xylenes, total	ND	---	50.0	"	"	---	---	---	---	---	---	
Naphthalene	ND	---	66.7	"	"	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 100 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>97 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>103 %</i>	<i>80-120 %</i>		<i>"</i>						
LCS (8030958-BS1)						Prepared: 03/21/18 09:30 Analyzed: 03/21/18 12:36						
5035A/8260C												
Benzene	1060	---	10.0	ug/kg wet	50	1000	---	106	80-120	---	---	
Toluene	967	---	50.0	"	"	"	---	97	"	---	---	
Ethylbenzene	1060	---	25.0	"	"	"	---	106	"	---	---	
Xylenes, total	3350	---	75.0	"	"	3000	---	112	"	---	---	
Naphthalene	933	---	100	"	"	1000	---	93	"	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 101 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>98 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>103 %</i>	<i>80-120 %</i>		<i>"</i>						
Duplicate (8030958-DUP1)						Prepared: 03/16/18 09:30 Analyzed: 03/21/18 15:01						
QC Source Sample: B3-15 (A8C0745-18)												
5035A/8260C												
Benzene	ND	---	502	ug/kg dry	2000	---	ND	---	---	---	30%	
Toluene	ND	---	2510	"	"	---	ND	---	---	---	30%	
Ethylbenzene	21200	---	1250	"	"	---	72700	---	---	110	30%	Q-04
Xylenes, total	95400	---	3760	"	"	---	374000	---	---	119	30%	Q-04
Naphthalene	8020	---	5020	"	"	---	37300	---	---	129	30%	Q-04
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 101 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>99 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>102 %</i>	<i>80-120 %</i>		<i>"</i>						
Duplicate (8030958-DUP2)						Prepared: 03/16/18 15:38 Analyzed: 03/21/18 18:10						
QC Source Sample: B5-10 (A8C0745-28)												
5035A/8260C												

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Kevin J. Friscia, Project Manager

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12232 S.W. Garden Place
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503-718-2323 Phone
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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8030958 - EPA 5035A						Soil						
Duplicate (8030958-DUP2)						Prepared: 03/16/18 15:38 Analyzed: 03/21/18 18:10						
QC Source Sample: B5-10 (A8C0745-28)												
5035A/8260C												
Benzene	ND	---	11.4	ug/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	---	56.8	"	"	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	28.4	"	"	---	ND	---	---	---	30%	
Xylenes, total	ND	---	85.3	"	"	---	ND	---	---	---	30%	
Naphthalene	ND	---	114	"	"	---	ND	---	---	---	30%	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 102 % Limits: 80-120 % Dilution: 1x
Toluene-d8 (Surr) 96 % 80-120 % "
4-Bromofluorobenzene (Surr) 102 % 80-120 % "

Matrix Spike (8030958-MS1) Prepared: 03/16/18 15:50 Analyzed: 03/21/18 19:04

QC Source Sample: B5-15 (A8C0745-29)												
5035A/8260C												
Benzene	1190	---	11.4	ug/kg dry	50	1140	ND	104	77-121	---	---	
Toluene	1060	---	57.2	"	"	"	ND	93	"	---	---	
Ethylbenzene	1170	---	28.6	"	"	"	15.8	101	76-122	---	---	
Xylenes, total	3760	---	85.9	"	"	3430	50.3	108	78-124	---	---	
Naphthalene	1380	---	114	"	"	1140	186	104	62-129	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 103 % Limits: 80-120 % Dilution: 1x
Toluene-d8 (Surr) 97 % 80-120 % "
4-Bromofluorobenzene (Surr) 103 % 80-120 % "

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8030985 - EPA 5035A						Soil						
Blank (8030985-BLK1)						Prepared: 03/21/18 09:30 Analyzed: 03/21/18 11:37						
5035A/8260C												
Benzene	ND	---	6.67	ug/kg wet	50	---	---	---	---	---	---	---
Toluene	ND	---	33.3	"	"	---	---	---	---	---	---	---
Ethylbenzene	ND	---	16.7	"	"	---	---	---	---	---	---	---
Xylenes, total	ND	---	50.0	"	"	---	---	---	---	---	---	---
Naphthalene	ND	---	66.7	"	"	---	---	---	---	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 108 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>97 %</i>	<i>80-120 %</i>		<i>"</i>						
LCS (8030985-BS1)						Prepared: 03/21/18 09:30 Analyzed: 03/21/18 10:44						
5035A/8260C												
Benzene	1060	---	10.0	ug/kg wet	50	1000	---	106	80-120	---	---	---
Toluene	994	---	50.0	"	"	"	---	99	"	---	---	---
Ethylbenzene	966	---	25.0	"	"	"	---	97	"	---	---	---
Xylenes, total	2910	---	75.0	"	"	3000	---	97	"	---	---	---
Naphthalene	969	---	100	"	"	1000	---	97	"	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 107 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>96 %</i>	<i>80-120 %</i>		<i>"</i>						
Duplicate (8030985-DUP1)						Prepared: 03/20/18 12:00 Analyzed: 03/21/18 13:50						
QC Source Sample: Other (A8C0765-01)												
5035A/8260C												
Benzene	ND	---	12.0	ug/kg dry	50	---	ND	---	---	---	30%	---
Toluene	ND	---	60.2	"	"	---	ND	---	---	---	30%	---
Ethylbenzene	ND	---	30.1	"	"	---	ND	---	---	---	30%	---
Xylenes, total	ND	---	90.3	"	"	---	ND	---	---	---	30%	---
Naphthalene	ND	---	120	"	"	---	ND	---	---	---	30%	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 108 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>100 %</i>	<i>80-120 %</i>		<i>"</i>						
Duplicate (8030985-DUP2)						Prepared: 03/15/18 16:10 Analyzed: 03/21/18 18:18						
QC Source Sample: B2-19 (A8C0745-12)												
5035A/8260C												

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8030985 - EPA 5035A												
Soil												
Duplicate (8030985-DUP2)						Prepared: 03/15/18 16:10 Analyzed: 03/21/18 18:18						
QC Source Sample: B2-19 (A8C0745-12)												
5035A/8260C												
Benzene	ND	---	272	ug/kg dry	1000	---	ND	---	---	---	30%	
Toluene	ND	---	1360	"	"	---	ND	---	---	---	30%	
Ethylbenzene	951	---	679	"	"	---	1890	---	---	66	30%	Q-04
Xylenes, total	ND	---	2040	"	"	---	2050	---	---	200	30%	Q-04
Naphthalene	ND	---	2720	"	"	---	1890	---	---	200	30%	Q-04

Surr: 1,4-Difluorobenzene (Surr) Recovery: 109 % Limits: 80-120 % Dilution: 1x
Toluene-d8 (Surr) 101 % 80-120 % "
4-Bromofluorobenzene (Surr) 100 % 80-120 % "

Matrix Spike (8030985-MS1) Prepared: 03/15/18 12:35 Analyzed: 03/21/18 15:37

QC Source Sample: B1-15 (A8C0745-04)												
5035A/8260C												
Benzene	26700	---	234	ug/kg dry	1000	23400	128	114	77-121	---	---	
Toluene	25200	---	1170	"	"	"	888	104	"	---	---	
Ethylbenzene	57700	---	584	"	"	"	36400	91	76-122	---	---	
Xylenes, total	150000	---	1750	"	"	70100	84600	94	78-124	---	---	
Naphthalene	64900	---	2340	"	"	23400	39800	107	62-129	---	---	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 109 % Limits: 80-120 % Dilution: 1x
Toluene-d8 (Surr) 103 % 80-120 % "
4-Bromofluorobenzene (Surr) 100 % 80-120 % "

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QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8031041 - EPA 5035A												
Soil												
Blank (8031041-BLK1)												
						Prepared: 03/22/18 09:30		Analyzed: 03/22/18 12:00				
5035A/8260C												
Benzene	ND	---	6.67	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	33.3	"	"	---	---	---	---	---	---	
Ethylbenzene	ND	---	16.7	"	"	---	---	---	---	---	---	
Xylenes, total	ND	---	50.0	"	"	---	---	---	---	---	---	
Naphthalene	ND	---	66.7	"	"	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 110 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>102 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>96 %</i>	<i>80-120 %</i>		<i>"</i>						
LCS (8031041-BS1)												
						Prepared: 03/22/18 09:30		Analyzed: 03/22/18 11:00				
5035A/8260C												
Benzene	1070	---	10.0	ug/kg wet	50	1000	---	107	80-120	---	---	
Toluene	996	---	50.0	"	"	"	---	100	"	---	---	
Ethylbenzene	976	---	25.0	"	"	"	---	98	"	---	---	
Xylenes, total	2930	---	75.0	"	"	3000	---	98	"	---	---	
Naphthalene	994	---	100	"	"	1000	---	99	"	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 108 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>96 %</i>	<i>80-120 %</i>		<i>"</i>						
Duplicate (8031041-DUP1)												
						Prepared: 03/20/18 10:50		Analyzed: 03/22/18 16:54				
QC Source Sample: Other (A8C0825-03)												
5035A/8260C												
Benzene	ND	---	8.41	ug/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	---	42.1	"	"	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	21.0	"	"	---	ND	---	---	---	30%	
Xylenes, total	ND	---	63.1	"	"	---	ND	---	---	---	30%	
Naphthalene	ND	---	84.1	"	"	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 108 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>98 %</i>	<i>80-120 %</i>		<i>"</i>						
Matrix Spike (8031041-MS1)												
						Prepared: 03/21/18 17:43		Analyzed: 03/22/18 20:55				
QC Source Sample: Other (A8C0805-06)												
5035A/8260C												

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
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Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8031041 - EPA 5035A						Soil						
Matrix Spike (8031041-MS1)						Prepared: 03/21/18 17:43 Analyzed: 03/22/18 20:55						V-15
QC Source Sample: Other (A8C0805-06)												
5035A/8260C												
Benzene	86600	---	763	ug/kg wet	1000	76300	1180	112	77-121	---	---	
Toluene	78500	---	3820	"	"	"	ND	103	"	---	---	
Ethylbenzene	74700	---	1910	"	"	"	ND	98	76-122	---	---	
Xylenes, total	219000	---	5730	"	"	229000	ND	96	78-124	---	---	
Naphthalene	61400	---	7630	"	"	76300	ND	80	62-129	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 109 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>					
<i>Toluene-d8 (Surr)</i>			<i>102 %</i>		<i>80-120 %</i>		<i>"</i>					
<i>4-Bromofluorobenzene (Surr)</i>			<i>94 %</i>		<i>80-120 %</i>		<i>"</i>					

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Project Number: 2093-01
Project Manager: Chris RheaReported:
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QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8031223 - EPA 5035A												
Soil												
Blank (8031223-BLK1)												
						Prepared: 03/28/18 10:00		Analyzed: 03/28/18 12:41				
5035A/8260C												
Benzene	ND	---	6.67	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	33.3	"	"	---	---	---	---	---	---	
Ethylbenzene	ND	---	16.7	"	"	---	---	---	---	---	---	
Xylenes, total	ND	---	50.0	"	"	---	---	---	---	---	---	
Naphthalene	ND	---	66.7	"	"	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 105 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>98 %</i>	<i>80-120 %</i>		<i>"</i>						
LCS (8031223-BS1)												
						Prepared: 03/28/18 10:00		Analyzed: 03/28/18 11:37				
5035A/8260C												
Benzene	1100	---	10.0	ug/kg wet	50	1000	---	110	80-120	---	---	
Toluene	1050	---	50.0	"	"	"	---	105	"	---	---	
Ethylbenzene	1020	---	25.0	"	"	"	---	102	"	---	---	
Xylenes, total	3020	---	75.0	"	"	3000	---	101	"	---	---	
Naphthalene	967	---	100	"	"	1000	---	97	"	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 106 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>102 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>96 %</i>	<i>80-120 %</i>		<i>"</i>						
Duplicate (8031223-DUP1)												
						Prepared: 03/15/18 12:55		Analyzed: 03/28/18 15:21				
QC Source Sample: B1-20 (A8C0745-05)												
5035A/8260C												
Benzene	30.3	---	11.2	ug/kg dry	50	---	26.3	---	---	14	30%	
Toluene	ND	---	56.1	"	"	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	28.0	"	"	---	ND	---	---	---	30%	
Xylenes, total	ND	---	84.1	"	"	---	ND	---	---	---	30%	
Naphthalene	329	---	112	"	"	---	339	---	---	3	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 101 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>100 %</i>	<i>80-120 %</i>		<i>"</i>						
Matrix Spike (8031223-MS1)												
						Prepared: 03/16/18 16:04		Analyzed: 03/28/18 16:42				
QC Source Sample: B5-20 (A8C0745-30)												
5035A/8260C												

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8031223 - EPA 5035A						Soil						
Matrix Spike (8031223-MS1)						Prepared: 03/16/18 16:04 Analyzed: 03/28/18 16:42						
QC Source Sample: B5-20 (A8C0745-30)												
5035A/8260C												
Benzene	1230	---	12.0	ug/kg dry	50	1200	6.60	102	77-121	---	---	
Toluene	1300	---	60.0	"	"	"	87.6	101	"	---	---	
Ethylbenzene	9000	---	30.0	"	"	"	8110	74	76-122	---	---	Q-03
Xylenes, total	21400	---	90.0	"	"	3600	18900	70	78-124	---	---	Q-03
Naphthalene	10100	---	120	"	"	1200	9100	86	62-129	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 101 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>104 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>98 %</i>	<i>80-120 %</i>		<i>"</i>						

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240 N Broadway Ste 203
Portland, OR 97227Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris RheaReported:
04/26/18 08:39

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040535 - EPA 5035A						Soil						
Blank (8040535-BLK1)						Prepared: 04/06/18 07:35 Analyzed: 04/06/18 10:43						
5035A/8260C												
Benzene	ND	---	6.67	ug/kg wet	50	---	---	---	---	---	---	---
Toluene	ND	---	33.3	"	"	---	---	---	---	---	---	---
Ethylbenzene	ND	---	16.7	"	"	---	---	---	---	---	---	---
Xylenes, total	ND	---	50.0	"	"	---	---	---	---	---	---	---
Naphthalene	ND	---	66.7	"	"	---	---	---	---	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 103 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>97 %</i>	<i>80-120 %</i>		<i>"</i>						
LCS (8040535-BS2)						Prepared: 04/06/18 09:00 Analyzed: 04/06/18 09:47						
5035A/8260C												
Benzene	993	---	10.0	ug/kg wet	50	1000	---	99	80-120	---	---	---
Toluene	992	---	50.0	"	"	"	---	99	"	---	---	---
Ethylbenzene	966	---	25.0	"	"	"	---	97	"	---	---	---
Xylenes, total	2890	---	75.0	"	"	3000	---	96	"	---	---	---
Naphthalene	976	---	100	"	"	1000	---	98	"	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 101 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>98 %</i>	<i>80-120 %</i>		<i>"</i>						
Duplicate (8040535-DUP1)						Prepared: 04/05/18 19:50 Analyzed: 04/06/18 14:31						
QC Source Sample: Other (A8D0169-03)												
5035A/8260C												
Benzene	ND	---	35.6	ug/kg dry	200	---	ND	---	---	---	30%	---
Toluene	ND	---	178	"	"	---	ND	---	---	---	30%	---
Ethylbenzene	ND	---	89.0	"	"	---	ND	---	---	---	30%	---
Xylenes, total	ND	---	267	"	"	---	ND	---	---	---	30%	---
Naphthalene	ND	---	356	"	"	---	ND	---	---	---	30%	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 103 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>98 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>80-120 %</i>		<i>"</i>						
Matrix Spike (8040535-MS1)						Prepared: 04/05/18 19:50 Analyzed: 04/06/18 15:51						
QC Source Sample: Other (A8D0169-09)												
5035A/8260C												

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Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040535 - EPA 5035A						Soil						
Matrix Spike (8040535-MS1)						Prepared: 04/05/18 19:50 Analyzed: 04/06/18 15:51						V-15
QC Source Sample: Other (A8D0169-09)												
5035A/8260C												
Benzene	1240	---	11.9	ug/kg dry	50	1190	ND	104	77-121	---	---	
Toluene	1240	---	59.5	"	"	"	ND	104	"	---	---	
Ethylbenzene	1200	---	29.7	"	"	"	ND	101	76-122	---	---	
Xylenes, total	3610	---	89.2	"	"	3570	ND	101	78-124	---	---	
Naphthalene	1230	---	119	"	"	1190	ND	103	62-129	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 101 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>80-120 %</i>		<i>"</i>						

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Project Manager: Chris Rhea

Reported:
04/26/18 08:39

QUALITY CONTROL (QC) SAMPLE RESULTS

RBDM Compounds (BTEX+) by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8030978 - EPA 5030B												
Water												
Blank (8030978-BLK1)			Prepared: 03/21/18 09:00 Analyzed: 03/21/18 11:54									
EPA 8260C												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	0.500	"	"	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	0.500	"	"	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	"	"	---	---	---	---	---	---	
Isopropylbenzene	ND	---	1.00	"	"	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	"	"	---	---	---	---	---	---	
Naphthalene	ND	---	2.00	"	"	---	---	---	---	---	---	
Toluene	ND	---	1.00	"	"	---	---	---	---	---	---	
1,2,4-Trimethylbenzene	ND	---	1.00	"	"	---	---	---	---	---	---	
1,3,5-Trimethylbenzene	ND	---	1.00	"	"	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	"	"	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 106 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>103 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>97 %</i>	<i>80-120 %</i>		<i>"</i>						

LCS (8030978-BS2)												
Prepared: 03/21/18 09:00 Analyzed: 03/21/18 10:57												
EPA 8260C												
Benzene	20.8	---	0.200	ug/L	1	20.0	---	104	80-120	---	---	
1,2-Dibromoethane (EDB)	19.1	---	0.500	"	"	"	---	95	"	---	---	
1,2-Dichloroethane (EDC)	25.1	---	0.500	"	"	"	---	126	"	---	---	Q-56
Ethylbenzene	20.9	---	0.500	"	"	"	---	104	"	---	---	
Isopropylbenzene	20.9	---	1.00	"	"	"	---	104	"	---	---	
Methyl tert-butyl ether (MTBE)	20.6	---	1.00	"	"	"	---	103	"	---	---	
Naphthalene	17.7	---	2.00	"	"	"	---	88	"	---	---	
Toluene	19.8	---	1.00	"	"	"	---	99	"	---	---	
1,2,4-Trimethylbenzene	21.3	---	1.00	"	"	"	---	106	"	---	---	
1,3,5-Trimethylbenzene	21.0	---	1.00	"	"	"	---	105	"	---	---	
Xylenes, total	62.9	---	1.50	"	"	60.0	---	105	"	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 105 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>102 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>93 %</i>	<i>80-120 %</i>		<i>"</i>						

Duplicate (8030978-DUP1) Prepared: 03/21/18 11:31 Analyzed: 03/21/18 18:31

QC Source Sample: Other (A8C0757-20)

EPA 8260C

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Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

QUALITY CONTROL (QC) SAMPLE RESULTS

RBDM Compounds (BTEX+) by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8030978 - EPA 5030B												
Water												
Duplicate (8030978-DUP1) Prepared: 03/21/18 11:31 Analyzed: 03/21/18 18:31												
QC Source Sample: Other (A8C0757-20)												
EPA 8260C												
Benzene	ND	---	0.200	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	---	0.500	"	"	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Naphthalene	ND	---	2.00	"	"	---	ND	---	---	---	30%	
Toluene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Xylenes, total	ND	---	1.50	"	"	---	ND	---	---	---	30%	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 108 % Limits: 80-120 % Dilution: 1x
Toluene-d8 (Surr) 103 % 80-120 % "
4-Bromofluorobenzene (Surr) 98 % 80-120 % "

Duplicate (8030978-DUP2) Prepared: 03/21/18 11:31 Analyzed: 03/21/18 21:50

QC Source Sample: B4-W (A8C0745-32)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8260C												
Benzene	1.39	---	1.00	ug/L	5	---	1.28	---	---	8	30%	
1,2-Dibromoethane (EDB)	ND	---	2.50	"	"	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	2.50	"	"	---	ND	---	---	---	30%	
Ethylbenzene	89.2	---	2.50	"	"	---	92.1	---	---	3	30%	
Isopropylbenzene	5.98	---	5.00	"	"	---	6.36	---	---	6	30%	
Methyl tert-butyl ether (MTBE)	ND	---	5.00	"	"	---	ND	---	---	---	30%	
Naphthalene	18.0	---	10.0	"	"	---	21.2	---	---	16	30%	
Toluene	64.9	---	5.00	"	"	---	66.2	---	---	2	30%	
1,2,4-Trimethylbenzene	85.4	---	5.00	"	"	---	88.0	---	---	3	30%	
1,3,5-Trimethylbenzene	25.4	---	5.00	"	"	---	26.4	---	---	4	30%	
Xylenes, total	583	---	7.50	"	"	---	588	---	---	0.9	30%	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 106 % Limits: 80-120 % Dilution: 1x
Toluene-d8 (Surr) 102 % 80-120 % "
4-Bromofluorobenzene (Surr) 95 % 80-120 % "

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Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

QUALITY CONTROL (QC) SAMPLE RESULTS

RBDM Compounds (BTEX+) by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8030978 - EPA 5030B												
Water												
Matrix Spike (8030978-MS1)						Prepared: 03/21/18 11:31 Analyzed: 03/21/18 19:28						
QC Source Sample: Other (A8C0757-21)												
EPA 8260C												
Benzene	21.6	---	0.200	ug/L	1	20.0	ND	108	79-120	---	---	
1,2-Dibromoethane (EDB)	19.4	---	0.500	"	"	"	ND	97	77-121	---	---	
1,2-Dichloroethane (EDC)	26.7	---	0.500	"	"	"	ND	133	73-128	---	---	Q-54
Ethylbenzene	21.8	---	0.500	"	"	"	ND	109	79-121	---	---	
Isopropylbenzene	21.7	---	1.00	"	"	"	ND	108	72-131	---	---	
Methyl tert-butyl ether (MTBE)	21.9	---	1.00	"	"	"	ND	110	71-124	---	---	
Naphthalene	19.1	---	2.00	"	"	"	ND	95	61-128	---	---	
Toluene	20.4	---	1.00	"	"	"	ND	102	80-121	---	---	
1,2,4-Trimethylbenzene	21.5	---	1.00	"	"	"	ND	108	76-124	---	---	
1,3,5-Trimethylbenzene	21.4	---	1.00	"	"	"	ND	107	75-124	---	---	
Xylenes, total	65.6	---	1.50	"	"	60.0	ND	109	79-121	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery:</i>	<i>105 %</i>	<i>Limits:</i>	<i>80-120 %</i>	<i>Dilution:</i>	<i>1x</i>				
<i>Toluene-d8 (Surr)</i>				<i>102 %</i>		<i>80-120 %</i>		<i>"</i>				
<i>4-Bromofluorobenzene (Surr)</i>				<i>92 %</i>		<i>80-120 %</i>		<i>"</i>				

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Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

QUALITY CONTROL (QC) SAMPLE RESULTS

RBDM Compounds (BTEX+) by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8031031 - EPA 5030B												
Water												
Blank (8031031-BLK1)												
Prepared: 03/22/18 09:30 Analyzed: 03/22/18 10:50												
EPA 8260C												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
1,2-Dibromoethane (EDB)	ND	---	0.500	"	"	---	---	---	---	---	---	---
1,2-Dichloroethane (EDC)	ND	---	0.500	"	"	---	---	---	---	---	---	---
Ethylbenzene	ND	---	0.500	"	"	---	---	---	---	---	---	---
Isopropylbenzene	ND	---	1.00	"	"	---	---	---	---	---	---	---
Methyl tert-butyl ether (MTBE)	ND	---	1.00	"	"	---	---	---	---	---	---	---
Naphthalene	ND	---	2.00	"	"	---	---	---	---	---	---	---
Toluene	ND	---	1.00	"	"	---	---	---	---	---	---	---
1,2,4-Trimethylbenzene	ND	---	1.00	"	"	---	---	---	---	---	---	---
1,3,5-Trimethylbenzene	ND	---	1.00	"	"	---	---	---	---	---	---	---
Xylenes, total	ND	---	1.50	"	"	---	---	---	---	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr) 100 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr) 101 % 80-120 % "</i>												

LCS (8031031-BS1)												
Prepared: 03/22/18 09:30 Analyzed: 03/22/18 09:56												
EPA 8260C												
Benzene	18.9	---	0.200	ug/L	1	20.0	---	95	80-120	---	---	---
1,2-Dibromoethane (EDB)	18.0	---	0.500	"	"	"	---	90	"	---	---	---
1,2-Dichloroethane (EDC)	20.5	---	0.500	"	"	"	---	103	"	---	---	---
Ethylbenzene	19.3	---	0.500	"	"	"	---	96	"	---	---	---
Isopropylbenzene	19.6	---	1.00	"	"	"	---	98	"	---	---	---
Methyl tert-butyl ether (MTBE)	16.5	---	1.00	"	"	"	---	82	"	---	---	---
Naphthalene	19.6	---	2.00	"	"	"	---	98	"	---	---	---
Toluene	18.2	---	1.00	"	"	"	---	91	"	---	---	---
1,2,4-Trimethylbenzene	19.4	---	1.00	"	"	"	---	97	"	---	---	---
1,3,5-Trimethylbenzene	20.2	---	1.00	"	"	"	---	101	"	---	---	---
Xylenes, total	57.4	---	1.50	"	"	60.0	---	96	"	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr) Recovery: 101 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr) 100 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr) 99 % 80-120 % "</i>												

Duplicate (8031031-DUP1)												
Prepared: 03/22/18 10:13 Analyzed: 03/22/18 16:41												
QC Source Sample: Other (A8C0801-18)												
EPA 8260C												

Apex Laboratories



Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

QUALITY CONTROL (QC) SAMPLE RESULTS

RBDM Compounds (BTEX+) by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8031031 - EPA 5030B												
Water												
Duplicate (8031031-DUP1)						Prepared: 03/22/18 10:13 Analyzed: 03/22/18 16:41						
QC Source Sample: Other (A8C0801-18)												
EPA 8260C												
Benzene	1980	---	2.00	ug/L	10	---	2070	---	---	4	30%	
1,2-Dibromoethane (EDB)	ND	---	5.00	"	"	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	5.00	"	"	---	ND	---	---	---	30%	
Ethylbenzene	2350	---	5.00	"	"	---	2400	---	---	2	30%	E
Isopropylbenzene	81.4	---	10.0	"	"	---	83.3	---	---	2	30%	
Methyl tert-butyl ether (MTBE)	ND	---	10.0	"	"	---	ND	---	---	---	30%	
Naphthalene	787	---	20.0	"	"	---	779	---	---	1	30%	
Toluene	70.3	---	10.0	"	"	---	71.3	---	---	1	30%	
1,2,4-Trimethylbenzene	ND	---	10.0	"	"	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	22.3	---	10.0	"	"	---	22.3	---	---	0.2	30%	
Xylenes, total	395	---	15.0	"	"	---	401	---	---	1	30%	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 101 % Limits: 80-120 % Dilution: 1x
Toluene-d8 (Surr) 101 % 80-120 % "
4-Bromofluorobenzene (Surr) 98 % 80-120 % "

Duplicate (8031031-DUP2) Prepared: 03/22/18 10:13 Analyzed: 03/22/18 20:17

QC Source Sample: Other (A8C0825-02)

EPA 8260C												
Benzene	ND	---	0.200	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	---	0.500	"	"	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Naphthalene	ND	---	2.00	"	"	---	ND	---	---	---	30%	
Toluene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Xylenes, total	ND	---	1.50	"	"	---	ND	---	---	---	30%	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 102 % Limits: 80-120 % Dilution: 1x
Toluene-d8 (Surr) 101 % 80-120 % "
4-Bromofluorobenzene (Surr) 99 % 80-120 % "

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Kevin J. Friscia, Project Manager

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240 N Broadway Ste 203
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Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

QUALITY CONTROL (QC) SAMPLE RESULTS

RBDM Compounds (BTEX+) by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8031031 - EPA 5030B						Water						
Matrix Spike (8031031-MS1)						Prepared: 03/22/18 10:13 Analyzed: 03/22/18 21:11						
QC Source Sample: Other (A8C0825-04)												
EPA 8260C												
Benzene	20.3	---	0.200	ug/L	1	20.0	ND	101	79-120	---	---	
1,2-Dibromoethane (EDB)	18.9	---	0.500	"	"	"	ND	94	77-121	---	---	
1,2-Dichloroethane (EDC)	21.9	---	0.500	"	"	"	ND	110	73-128	---	---	
Ethylbenzene	19.7	---	0.500	"	"	"	ND	98	79-121	---	---	
Isopropylbenzene	19.7	---	1.00	"	"	"	ND	98	72-131	---	---	
Methyl tert-butyl ether (MTBE)	16.4	---	1.00	"	"	"	ND	82	71-124	---	---	
Naphthalene	18.7	---	2.00	"	"	"	ND	94	61-128	---	---	
Toluene	19.2	---	1.00	"	"	"	ND	96	80-121	---	---	
1,2,4-Trimethylbenzene	17.1	---	1.00	"	"	"	ND	86	76-124	---	---	
1,3,5-Trimethylbenzene	19.7	---	1.00	"	"	"	ND	99	75-124	---	---	
Xylenes, total	57.3	---	1.50	"	"	60.0	ND	96	79-121	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 103 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>98 %</i>	<i>80-120 %</i>		<i>"</i>						

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris RheaReported:
04/26/18 08:39

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8031033 - EPA 3510C (Acid Extraction)						Water						
Blank (8031033-BLK1)						Prepared: 03/22/18 09:06 Analyzed: 03/22/18 13:08						
EPA 8270D (SIM)												
Acenaphthene	ND	---	0.0364	ug/L	1	---	---	---	---	---	---	---
Acenaphthylene	ND	---	0.0364	"	"	---	---	---	---	---	---	---
Anthracene	ND	---	0.0364	"	"	---	---	---	---	---	---	---
Benz(a)anthracene	ND	---	0.0364	"	"	---	---	---	---	---	---	---
Benzo(a)pyrene	ND	---	0.0364	"	"	---	---	---	---	---	---	---
Benzo(b)fluoranthene	ND	---	0.0364	"	"	---	---	---	---	---	---	---
Benzo(k)fluoranthene	ND	---	0.0364	"	"	---	---	---	---	---	---	---
Benzo(g,h,i)perylene	ND	---	0.0364	"	"	---	---	---	---	---	---	---
Chrysene	ND	---	0.0364	"	"	---	---	---	---	---	---	---
Dibenz(a,h)anthracene	ND	---	0.0364	"	"	---	---	---	---	---	---	---
Dibenzofuran	ND	---	0.0364	"	"	---	---	---	---	---	---	---
Fluoranthene	ND	---	0.0364	"	"	---	---	---	---	---	---	---
Fluorene	ND	---	0.0364	"	"	---	---	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	ND	---	0.0364	"	"	---	---	---	---	---	---	---
1-Methylnaphthalene	ND	---	0.0727	"	"	---	---	---	---	---	---	---
2-Methylnaphthalene	ND	---	0.0727	"	"	---	---	---	---	---	---	---
Naphthalene	ND	---	0.0727	"	"	---	---	---	---	---	---	---
Phenanthrene	ND	---	0.0364	"	"	---	---	---	---	---	---	---
Pyrene	ND	---	0.0364	"	"	---	---	---	---	---	---	---

Surr: 2-Fluorobiphenyl (Surr)
p-Terphenyl-d14 (Surr)Recovery: 70 % Limits: 44-120 % Dilution: 1x
85 % 50-133 % "

LCS (8031033-BS1)

Prepared: 03/22/18 09:06 Analyzed: 03/22/18 13:35

EPA 8270D (SIM)												
Acenaphthene	5.88	---	0.0400	ug/L	1	8.00	---	73	47-122	---	---	---
Acenaphthylene	5.62	---	0.0400	"	"	"	---	70	41-130	---	---	---
Anthracene	6.22	---	0.0400	"	"	"	---	78	57-123	---	---	---
Benz(a)anthracene	6.59	---	0.0400	"	"	"	---	82	58-125	---	---	---
Benzo(a)pyrene	7.33	---	0.0400	"	"	"	---	92	54-128	---	---	---
Benzo(b)fluoranthene	7.91	---	0.0400	"	"	"	---	99	53-131	---	---	---
Benzo(k)fluoranthene	7.63	---	0.0400	"	"	"	---	95	57-129	---	---	---
Benzo(g,h,i)perylene	6.29	---	0.0400	"	"	"	---	79	50-134	---	---	---
Chrysene	6.79	---	0.0400	"	"	"	---	85	59-123	---	---	---
Dibenz(a,h)anthracene	6.72	---	0.0400	"	"	"	---	84	51-134	---	---	---
Dibenzofuran	6.03	---	0.0400	"	"	"	---	75	53-120	---	---	---

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8031033 - EPA 3510C (Acid Extraction)												
Water												
LCS (8031033-BS1)												
Prepared: 03/22/18 09:06 Analyzed: 03/22/18 13:35												
EPA 8270D (SIM)												
Fluoranthene	6.52	---	0.0400	ug/L	"	"	---	82	57-128	---	---	
Fluorene	6.18	---	0.0400	"	"	"	---	77	52-124	---	---	
Indeno(1,2,3-cd)pyrene	6.67	---	0.0400	"	"	"	---	83	52-133	---	---	
1-Methylnaphthalene	4.99	---	0.0800	"	"	"	---	62	41-120	---	---	
2-Methylnaphthalene	4.89	---	0.0800	"	"	"	---	61	40-121	---	---	
Naphthalene	4.51	---	0.0800	"	"	"	---	56	"	---	---	
Phenanthrene	6.28	---	0.0400	"	"	"	---	78	59-120	---	---	
Pyrene	6.56	---	0.0400	"	"	"	---	82	57-126	---	---	

Surr: 2-Fluorobiphenyl (Surr)
p-Terphenyl-d14 (Surr)

Recovery: 72 %
94 %

Limits: 44-120 %
50-133 %

Dilution: 1x
"

LCS Dup (8031033-BSD1)

Prepared: 03/22/18 09:06 Analyzed: 03/22/18 14:01

Q-19

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8270D (SIM)												
Acenaphthene	6.27	---	0.0400	ug/L	1	8.00	---	78	47-122	6	30%	
Acenaphthylene	6.03	---	0.0400	"	"	"	---	75	41-130	7	30%	
Anthracene	6.51	---	0.0400	"	"	"	---	81	57-123	4	30%	
Benz(a)anthracene	6.69	---	0.0400	"	"	"	---	84	58-125	2	30%	
Benzo(a)pyrene	7.01	---	0.0400	"	"	"	---	88	54-128	4	30%	
Benzo(b)fluoranthene	7.34	---	0.0400	"	"	"	---	92	53-131	7	30%	
Benzo(k)fluoranthene	7.06	---	0.0400	"	"	"	---	88	57-129	8	30%	
Benzo(g,h,i)perylene	6.58	---	0.0400	"	"	"	---	82	50-134	5	30%	
Chrysene	6.96	---	0.0400	"	"	"	---	87	59-123	2	30%	
Dibenz(a,h)anthracene	6.93	---	0.0400	"	"	"	---	87	51-134	3	30%	
Dibenzofuran	6.39	---	0.0400	"	"	"	---	80	53-120	6	30%	
Fluoranthene	6.91	---	0.0400	"	"	"	---	86	57-128	6	30%	
Fluorene	6.45	---	0.0400	"	"	"	---	81	52-124	4	30%	
Indeno(1,2,3-cd)pyrene	6.86	---	0.0400	"	"	"	---	86	52-133	3	30%	
1-Methylnaphthalene	5.81	---	0.0800	"	"	"	---	73	41-120	15	30%	
2-Methylnaphthalene	5.86	---	0.0800	"	"	"	---	73	40-121	18	30%	
Naphthalene	5.59	---	0.0800	"	"	"	---	70	"	21	30%	
Phenanthrene	6.57	---	0.0400	"	"	"	---	82	59-120	5	30%	
Pyrene	7.01	---	0.0400	"	"	"	---	88	57-126	7	30%	

Surr: 2-Fluorobiphenyl (Surr)
p-Terphenyl-d14 (Surr)

Recovery: 74 %
89 %

Limits: 44-120 %
50-133 %

Dilution: 1x
"

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris RheaReported:
04/26/18 08:39

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8031281 - EPA 3546						Soil						
Blank (8031281-BLK1)						Prepared: 03/28/18 14:29 Analyzed: 03/29/18 10:30						
EPA 8270D (SIM)												
Acenaphthene	ND	---	6.25	ug/kg wet	1	---	---	---	---	---	---	---
Acenaphthylene	ND	---	6.25	"	"	---	---	---	---	---	---	---
Anthracene	ND	---	6.25	"	"	---	---	---	---	---	---	---
Benz(a)anthracene	ND	---	6.25	"	"	---	---	---	---	---	---	---
Benzo(a)pyrene	ND	---	6.25	"	"	---	---	---	---	---	---	---
Benzo(b)fluoranthene	ND	---	6.25	"	"	---	---	---	---	---	---	---
Benzo(k)fluoranthene	ND	---	6.25	"	"	---	---	---	---	---	---	---
Benzo(g,h,i)perylene	ND	---	6.25	"	"	---	---	---	---	---	---	---
Chrysene	ND	---	6.25	"	"	---	---	---	---	---	---	---
Dibenz(a,h)anthracene	ND	---	6.25	"	"	---	---	---	---	---	---	---
Dibenzofuran	ND	---	6.25	"	"	---	---	---	---	---	---	---
Fluoranthene	ND	---	6.25	"	"	---	---	---	---	---	---	---
Fluorene	ND	---	6.25	"	"	---	---	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	ND	---	6.25	"	"	---	---	---	---	---	---	---
1-Methylnaphthalene	ND	---	6.25	"	"	---	---	---	---	---	---	---
2-Methylnaphthalene	ND	---	6.25	"	"	---	---	---	---	---	---	---
Naphthalene	ND	---	6.25	"	"	---	---	---	---	---	---	---
Phenanthrene	ND	---	6.25	"	"	---	---	---	---	---	---	---
Pyrene	ND	---	6.25	"	"	---	---	---	---	---	---	---
<i>Surr: 2-Fluorobiphenyl (Surr)</i>			<i>Recovery: 76 %</i>	<i>Limits: 44-120 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>			<i>85 %</i>	<i>54-127 %</i>		<i>"</i>						

LCS (8031281-BS1)

Prepared: 03/28/18 14:29 Analyzed: 03/29/18 10:56

EPA 8270D (SIM)												
Acenaphthene	392	---	6.67	ug/kg wet	1	533	---	74	40-122	---	---	---
Acenaphthylene	387	---	6.67	"	"	"	---	73	32-132	---	---	---
Anthracene	396	---	6.67	"	"	"	---	74	47-123	---	---	---
Benz(a)anthracene	395	---	6.67	"	"	"	---	74	49-126	---	---	---
Benzo(a)pyrene	410	---	6.67	"	"	"	---	77	45-129	---	---	---
Benzo(b)fluoranthene	423	---	6.67	"	"	"	---	79	45-132	---	---	---
Benzo(k)fluoranthene	410	---	6.67	"	"	"	---	77	47-132	---	---	---
Benzo(g,h,i)perylene	370	---	6.67	"	"	"	---	69	43-134	---	---	---
Chrysene	405	---	6.67	"	"	"	---	76	50-124	---	---	---
Dibenz(a,h)anthracene	414	---	6.67	"	"	"	---	78	45-134	---	---	---
Dibenzofuran	395	---	6.67	"	"	"	---	74	44-120	---	---	---

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Kevin J. Friscia, Project Manager

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris RheaReported:
04/26/18 08:39

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8031281 - EPA 3546												
Soil												
LCS (8031281-BS1)												
						Prepared: 03/28/18 14:29 Analyzed: 03/29/18 10:56						
EPA 8270D (SIM)												
Fluoranthene	420	---	6.67	ug/kg wet	"	"	---	79	50-127	---	---	
Fluorene	405	---	6.67	"	"	"	---	76	43-125	---	---	
Indeno(1,2,3-cd)pyrene	380	---	6.67	"	"	"	---	71	45-133	---	---	
1-Methylnaphthalene	397	---	6.67	"	"	"	---	74	40-120	---	---	
2-Methylnaphthalene	393	---	6.67	"	"	"	---	74	38-122	---	---	
Naphthalene	382	---	6.67	"	"	"	---	72	35-123	---	---	
Phenanthrene	394	---	6.67	"	"	"	---	74	50-121	---	---	
Pyrene	422	---	6.67	"	"	"	---	79	47-127	---	---	
<i>Surr: 2-Fluorobiphenyl (Surr)</i>												
<i>Recovery: 71 % Limits: 44-120 % Dilution: 1x</i>												
<i>p-Terphenyl-d14 (Surr)</i>												
<i>83 % 54-127 % "</i>												
Duplicate (8031281-DUP1)												
						Prepared: 03/28/18 14:29 Analyzed: 03/29/18 12:42						
QC Source Sample: Other (A8C1121-02)												
EPA 8270D (SIM)												
Acenaphthene	ND	---	12.5	ug/kg dry	1	---	ND	---	---	---	30%	
Acenaphthylene	ND	---	12.5	"	"	---	ND	---	---	---	30%	
Anthracene	ND	---	12.5	"	"	---	ND	---	---	---	30%	
Benz(a)anthracene	ND	---	12.5	"	"	---	ND	---	---	---	30%	
Benzo(a)pyrene	ND	---	12.5	"	"	---	ND	---	---	---	30%	
Benzo(b)fluoranthene	ND	---	12.5	"	"	---	ND	---	---	---	30%	
Benzo(k)fluoranthene	ND	---	12.5	"	"	---	ND	---	---	---	30%	
Benzo(g,h,i)perylene	ND	---	12.5	"	"	---	ND	---	---	---	30%	
Chrysene	ND	---	12.5	"	"	---	ND	---	---	---	30%	
Dibenz(a,h)anthracene	ND	---	12.5	"	"	---	ND	---	---	---	30%	
Dibenzofuran	ND	---	12.5	"	"	---	ND	---	---	---	30%	
Fluoranthene	ND	---	12.5	"	"	---	ND	---	---	---	30%	
Fluorene	ND	---	12.5	"	"	---	ND	---	---	---	30%	
Indeno(1,2,3-cd)pyrene	ND	---	12.5	"	"	---	ND	---	---	---	30%	
1-Methylnaphthalene	385	---	12.5	"	"	---	452	---	---	16	30%	
2-Methylnaphthalene	967	---	12.5	"	"	---	1140	---	---	17	30%	
Naphthalene	1700	---	12.5	"	"	---	2190	---	---	26	30%	
Phenanthrene	ND	---	12.5	"	"	---	6.71	---	---	200	30%	Q-05
Pyrene	ND	---	12.5	"	"	---	ND	---	---	---	30%	
<i>Surr: 2-Fluorobiphenyl (Surr)</i>												
<i>Recovery: 59 % Limits: 44-120 % Dilution: 1x</i>												

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Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8031281 - EPA 3546						Soil						
Duplicate (8031281-DUP1)						Prepared: 03/28/18 14:29 Analyzed: 03/29/18 12:42						
QC Source Sample: Other (A8C1121-02)												
EPA 8270D (SIM)												
Surr: <i>p-Terphenyl-d14 (Surr)</i> Recovery: 72 % Limits: 54-127 % Dilution: 1x												
Matrix Spike (8031281-MS1)						Prepared: 03/28/18 14:29 Analyzed: 03/29/18 13:08						
QC Source Sample: Other (A8C1121-02)												
EPA 8270D (SIM)												
Acenaphthene	700	---	12.5	ug/kg dry	1	1000	ND	70	40-122	---	---	
Acenaphthylene	678	---	12.5	"	"	"	ND	68	32-132	---	---	
Anthracene	684	---	12.5	"	"	"	ND	68	47-123	---	---	
Benz(a)anthracene	673	---	12.5	"	"	"	ND	67	49-126	---	---	
Benzo(a)pyrene	714	---	12.5	"	"	"	ND	71	45-129	---	---	
Benzo(b)fluoranthene	719	---	12.5	"	"	"	ND	72	45-132	---	---	
Benzo(k)fluoranthene	709	---	12.5	"	"	"	ND	71	47-132	---	---	
Benzo(g,h,i)perylene	634	---	12.5	"	"	"	ND	63	43-134	---	---	
Chrysene	690	---	12.5	"	"	"	ND	69	50-124	---	---	
Dibenz(a,h)anthracene	707	---	12.5	"	"	"	ND	71	45-134	---	---	
Dibenzofuran	687	---	12.5	"	"	"	ND	69	44-120	---	---	
Fluoranthene	745	---	12.5	"	"	"	ND	74	50-127	---	---	
Fluorene	716	---	12.5	"	"	"	ND	71	43-125	---	---	
Indeno(1,2,3-cd)pyrene	640	---	12.5	"	"	"	ND	64	45-133	---	---	
1-Methylnaphthalene	1120	---	12.5	"	"	"	452	67	40-120	---	---	
2-Methylnaphthalene	1700	---	12.5	"	"	"	1140	55	38-122	---	---	
Naphthalene	2470	---	12.5	"	"	"	2190	28	35-123	---	---	Q-01
Phenanthrene	686	---	12.5	"	"	"	6.71	68	50-121	---	---	
Pyrene	755	---	12.5	"	"	"	ND	75	47-127	---	---	
Surr: <i>2-Fluorobiphenyl (Surr)</i> Recovery: 63 % Limits: 44-120 % Dilution: 1x												
<i>p-Terphenyl-d14 (Surr)</i> 74 % 54-127 % "												

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040678 - EPA 3051A						Soil						
Blank (8040678-BLK1)						Prepared: 04/11/18 09:59 Analyzed: 04/11/18 15:12						
EPA 6020A												
Lead	ND	---	0.962	mg/kg wet	10	---	---	---	---	---	---	
LCS (8040678-BS1)						Prepared: 04/11/18 09:59 Analyzed: 04/11/18 15:15						
EPA 6020A												
Lead	50.5	---	1.00	mg/kg wet	10	50.0	---	101	80-120	---	---	
Duplicate (8040678-DUP2)						Prepared: 04/11/18 09:59 Analyzed: 04/11/18 17:14						
QC Source Sample: Other (A8D0306-01RE1)												
EPA 6020A												
Lead	41100	---	162	mg/kg dry	1000	---	33600	---	---	20	40%	Q-16
Matrix Spike (8040678-MS2)						Prepared: 04/11/18 09:59 Analyzed: 04/11/18 17:18						
QC Source Sample: Other (A8D0306-01RE1)												
EPA 6020A												
Lead	33800	---	160	mg/kg dry	1000	79.8	33600	217	75-125	---	---	Q-03, Q-16

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8031158 - EPA 3015A						Water						
Blank (8031158-BLK1)						Prepared: 03/26/18 09:07 Analyzed: 03/26/18 21:15						
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (8031158-BS1)						Prepared: 03/26/18 09:07 Analyzed: 03/26/18 21:20						
EPA 200.8												
Lead	55.0	---	0.200	ug/L	1	55.6	---	99	85-115	---	---	---
Matrix Spike (8031158-MS1)						Prepared: 03/26/18 09:07 Analyzed: 03/26/18 21:57						
QC Source Sample: Other (A8C0315-05)												
EPA 200.8												
Lead	55.7	---	0.200	ug/L	1	55.6	ND	100	70-130	---	---	---
Matrix Spike (8031158-MS2)						Prepared: 03/26/18 09:07 Analyzed: 03/26/18 23:16						
QC Source Sample: Other (A8C0864-04)												
EPA 200.8												
Lead	54.8	---	0.200	ug/L	1	55.6	ND	99	70-130	---	---	---
Matrix Spike Dup (8031158-MSD1)						Prepared: 03/26/18 09:07 Analyzed: 03/26/18 22:02						
QC Source Sample: Other (A8C0315-05)												
EPA 200.8												
Lead	55.2	---	0.200	ug/L	1	55.6	ND	99	70-130	0.9	20%	---

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8031167 - EPA 3015A						Water						
Blank (8031167-BLK1)						Prepared: 03/26/18 11:06 Analyzed: 03/26/18 18:12						
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (8031167-BS1)						Prepared: 03/26/18 11:06 Analyzed: 03/26/18 18:17						
EPA 200.8												
Lead	55.1	---	0.200	ug/L	1	55.6	---	99	85-115	---	---	---
Duplicate (8031167-DUP1)						Prepared: 03/26/18 11:06 Analyzed: 03/26/18 18:50						
QC Source Sample: Other (A8C0334-03)												
EPA 200.8												
Lead	26.1	---	0.200	ug/L	1	---	25.9	---	---	0.9	20%	---
Matrix Spike (8031167-MS1)						Prepared: 03/26/18 11:06 Analyzed: 03/26/18 18:55						
QC Source Sample: Other (A8C0334-03)												
EPA 200.8												
Lead	82.2	---	0.200	ug/L	1	55.6	25.9	101	70-130	---	---	---
Matrix Spike (8031167-MS2)						Prepared: 03/26/18 11:06 Analyzed: 03/26/18 20:19						
QC Source Sample: Other (A8C0992-03)												
EPA 200.8												
Lead	55.4	---	1.00	ug/L	5	55.6	ND	100	70-130	---	---	---

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QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8031191 - Matrix Matched Direct Inject						Water						
Blank (8031191-BLK2)						Prepared: 03/27/18 09:12 Analyzed: 03/28/18 22:47						
EPA 200.8 (Diss)												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	Q-16
LCS (8031191-BS1)						Prepared: 03/27/18 09:12 Analyzed: 03/27/18 22:59						
EPA 200.8 (Diss)												
Lead	51.4	---	2.00	ug/L	1	55.6	---	93	85-115	---	---	
Duplicate (8031191-DUP2)						Prepared: 03/27/18 09:12 Analyzed: 03/28/18 23:18						
QC Source Sample: Other (A8C0458-01RE1)												
EPA 200.8 (Diss)												
Lead	ND	---	0.200	ug/L	1	---	0.178	---	---	6	20%	Q-16
Matrix Spike (8031191-MS3)						Prepared: 03/27/18 09:12 Analyzed: 03/28/18 23:22						
QC Source Sample: Other (A8C0458-01RE1)												
EPA 200.8 (Diss)												
Lead	51.7	---	0.200	ug/L	1	55.6	0.178	93	70-130	---	---	Q-16
Matrix Spike (8031191-MS4)						Prepared: 03/27/18 09:12 Analyzed: 03/29/18 00:23						
QC Source Sample: B4-W (A8C0745-32RE1)												
EPA 200.8 (Diss)												
Lead	49.9	---	1.00	ug/L	5	55.6	ND	90	70-130	---	---	Q-16

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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8031003 - Total Solids (Dry Weight)						Soil						
Duplicate (8031003-DUP1)						Prepared: 03/21/18 13:17 Analyzed: 03/22/18 08:12						
QC Source Sample: B1-3 (A8C0745-01)												
EPA 8000C												
% Solids	86.2	---	1.00	% by Weight	1	---	86.2	---	---	0.03	10%	
Duplicate (8031003-DUP2)						Prepared: 03/21/18 13:17 Analyzed: 03/22/18 08:12						
QC Source Sample: B3-15 (A8C0745-18)												
EPA 8000C												
% Solids	80.7	---	1.00	% by Weight	1	---	80.6	---	---	0.09	10%	
Duplicate (8031003-DUP3)						Prepared: 03/21/18 13:17 Analyzed: 03/22/18 08:12						
QC Source Sample: Other (A8C0754-02)												
EPA 8000C												
% Solids	89.0	---	1.00	% by Weight	1	---	88.6	---	---	0.5	10%	
Duplicate (8031003-DUP4)						Prepared: 03/21/18 18:20 Analyzed: 03/22/18 08:12						
QC Source Sample: Other (A8C0800-01)												
EPA 8000C												
% Solids	92.5	---	1.00	% by Weight	1	---	91.7	---	---	0.9	10%	
Duplicate (8031003-DUP5)						Prepared: 03/21/18 21:22 Analyzed: 03/22/18 08:12						
QC Source Sample: Other (A8C0807-01)												
EPA 8000C												
% Solids	86.9	---	1.00	% by Weight	1	---	86.7	---	---	0.2	10%	
Duplicate (8031003-DUP6)						Prepared: 03/21/18 21:22 Analyzed: 03/22/18 08:12						
QC Source Sample: Other (A8C0815-02)												
EPA 8000C												
% Solids	86.7	---	1.00	% by Weight	1	---	86.1	---	---	0.6	10%	
Batch 8031272 - Total Solids (Dry Weight)						Soil						
Duplicate (8031272-DUP1)						Prepared: 03/28/18 12:41 Analyzed: 03/29/18 08:29						
QC Source Sample: Other (A8C0723-02)												
EPA 8000C												

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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8031272 - Total Solids (Dry Weight)						Soil						
Duplicate (8031272-DUP1)						Prepared: 03/28/18 12:41 Analyzed: 03/29/18 08:29						
QC Source Sample: Other (A8C0723-02)												
EPA 8000C												
% Solids	86.9	---	1.00	% by Weight	1	---	86.9	---	---	0.03	10%	
Duplicate (8031272-DUP2)						Prepared: 03/28/18 12:41 Analyzed: 03/29/18 08:29						
QC Source Sample: Other (A8C0723-22)												
EPA 8000C												
% Solids	79.5	---	1.00	% by Weight	1	---	79.9	---	---	0.5	10%	
Duplicate (8031272-DUP3)						Prepared: 03/28/18 12:41 Analyzed: 03/29/18 08:29						
QC Source Sample: Other (A8C0723-42)												
EPA 8000C												
% Solids	74.9	---	1.00	% by Weight	1	---	75.2	---	---	0.4	10%	
Duplicate (8031272-DUP4)						Prepared: 03/28/18 18:19 Analyzed: 03/29/18 08:29						
QC Source Sample: Other (A8C1127-01)												
EPA 8000C												
% Solids	80.1	---	1.00	% by Weight	1	---	80.0	---	---	0.1	10%	
Duplicate (8031272-DUP5)						Prepared: 03/28/18 18:19 Analyzed: 03/29/18 08:29						
QC Source Sample: Other (A8C1137-03)												
EPA 8000C												
% Solids	87.4	---	1.00	% by Weight	1	---	86.1	---	---	1	10%	

Batch 8031322 - Total Solids (Dry Weight)

Soil

Duplicate (8031322-DUP1)						Prepared: 03/29/18 12:39 Analyzed: 03/30/18 08:58						
QC Source Sample: B1-20 (A8C0745-05)												
EPA 8000C												
% Solids	83.9	---	1.00	% by Weight	1	---	84.0	---	---	0.1	10%	
Duplicate (8031322-DUP2)						Prepared: 03/29/18 12:39 Analyzed: 03/30/18 08:58						
QC Source Sample: Other (A8C1103-02)												
EPA 8000C												

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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8031322 - Total Solids (Dry Weight)						Soil						
Duplicate (8031322-DUP2)						Prepared: 03/29/18 12:39 Analyzed: 03/30/18 08:58						
QC Source Sample: Other (A8C1103-02)												
EPA 8000C												
% Solids	87.3	---	1.00	% by Weight	1	---	87.6	---	---	0.3	10%	
Duplicate (8031322-DUP3)						Prepared: 03/29/18 12:39 Analyzed: 03/30/18 08:58						
QC Source Sample: Other (A8C1113-01)												
EPA 8000C												
% Solids	87.8	---	1.00	% by Weight	1	---	86.9	---	---	1	10%	
Duplicate (8031322-DUP4)						Prepared: 03/29/18 12:39 Analyzed: 03/30/18 08:58						
QC Source Sample: Other (A8C1142-02)												
EPA 8000C												
% Solids	72.8	---	1.00	% by Weight	1	---	72.3	---	---	0.8	10%	
Duplicate (8031322-DUP5)						Prepared: 03/29/18 19:29 Analyzed: 03/30/18 08:58						
QC Source Sample: Other (A8C1161-01)												
EPA 8000C												
% Solids	75.3	---	1.00	% by Weight	1	---	75.4	---	---	0.2	10%	
Duplicate (8031322-DUP6)						Prepared: 03/29/18 19:29 Analyzed: 03/30/18 08:58						
QC Source Sample: Other (A8C1164-07)												
EPA 8000C												
% Solids	86.2	---	1.00	% by Weight	1	---	86.1	---	---	0.1	10%	
Duplicate (8031322-DUP7)						Prepared: 03/29/18 19:29 Analyzed: 03/30/18 08:58						
QC Source Sample: Other (A8C1179-02)												
EPA 8000C												
% Solids	82.6	---	1.00	% by Weight	1	---	81.4	---	---	2	10%	
Duplicate (8031322-DUP8)						Prepared: 03/29/18 19:29 Analyzed: 03/30/18 08:58						
QC Source Sample: Other (A8C1184-02)												
EPA 8000C												
% Solids	77.8	---	1.00	% by Weight	1	---	77.9	---	---	0.1	10%	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040635 - Total Solids (Dry Weight)						Soil						
Duplicate (8040635-DUP1)						Prepared: 04/10/18 10:06		Analyzed: 04/11/18 09:08				
QC Source Sample: B5-25 (A8C0745-31)												
EPA 8000C												
% Solids	80.4	---	1.00	% by Weight	1	---	80.2	---	---	0.3	10%	
Duplicate (8040635-DUP2)						Prepared: 04/10/18 10:06		Analyzed: 04/11/18 09:08				
QC Source Sample: Other (A8D0220-12)												
EPA 8000C												
% Solids	78.6	---	1.00	% by Weight	1	---	77.9	---	---	0.9	10%	
Duplicate (8040635-DUP3)						Prepared: 04/10/18 10:34		Analyzed: 04/11/18 09:08				
QC Source Sample: Other (A8D0026-02)												
EPA 8000C												
% Solids	97.6	---	1.00	% by Weight	1	---	97.6	---	---	0.02	10%	
Duplicate (8040635-DUP4)						Prepared: 04/10/18 17:07		Analyzed: 04/11/18 09:08				
QC Source Sample: Other (A8D0239-01)												
EPA 8000C												
% Solids	87.2	---	1.00	% by Weight	1	---	87.2	---	---	0.03	10%	
Duplicate (8040635-DUP5)						Prepared: 04/10/18 17:07		Analyzed: 04/11/18 09:08				
QC Source Sample: Other (A8D0239-24)												
EPA 8000C												
% Solids	84.9	---	1.00	% by Weight	1	---	84.6	---	---	0.3	10%	
Duplicate (8040635-DUP6)						Prepared: 04/10/18 17:07		Analyzed: 04/11/18 09:08				
QC Source Sample: Other (A8D0239-47)												
EPA 8000C												
% Solids	76.5	---	1.00	% by Weight	1	---	76.6	---	---	0.2	10%	
Duplicate (8040635-DUP7)						Prepared: 04/10/18 17:07		Analyzed: 04/11/18 09:08				
QC Source Sample: Other (A8D0239-74)												
EPA 8000C												
% Solids	87.4	---	1.00	% by Weight	1	---	87.3	---	---	0.1	10%	
Duplicate (8040635-DUP8)						Prepared: 04/10/18 19:56		Analyzed: 04/11/18 09:08				
QC Source Sample: Other (A8D0316-01)												

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040635 - Total Solids (Dry Weight)						Soil						
Duplicate (8040635-DUP8)						Prepared: 04/10/18 19:56 Analyzed: 04/11/18 09:08						
QC Source Sample: Other (A8D0316-01)												
EPA 8000C												
% Solids	82.5	---	1.00	% by Weight	1	---	78.6	---	---	5	10%	
Duplicate (8040635-DUP9)						Prepared: 04/10/18 19:56 Analyzed: 04/11/18 09:08						
QC Source Sample: Other (A8D0325-02)												
EPA 8000C												
% Solids	84.1	---	1.00	% by Weight	1	---	84.6	---	---	0.6	10%	
Duplicate (8040635-DUPA)						Prepared: 04/10/18 19:56 Analyzed: 04/11/18 09:08						
QC Source Sample: Other (A8D0330-02)												
EPA 8000C												
% Solids	73.2	---	1.00	% by Weight	1	---	73.1	---	---	0.2	10%	

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Project Manager: Chris Rhea

Reported:
04/26/18 08:39

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8030971							
A8C0745-07	Water	NWTPH-Dx	03/15/18 14:10	03/21/18 12:28	1020mL/5mL	1000mL/5mL	0.98
A8C0745-21	Water	NWTPH-Dx	03/16/18 10:47	03/21/18 12:28	1030mL/5mL	1000mL/5mL	0.97
A8C0745-32	Water	NWTPH-Dx	03/16/18 13:30	03/21/18 12:28	1030mL/5mL	1000mL/5mL	0.97

Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8031277							
A8C0745-04	Soil	NWTPH-Dx	03/15/18 12:35	03/28/18 13:38	10.89g/5mL	10g/5mL	0.92
A8C0745-23	Soil	NWTPH-Dx	03/16/18 12:05	03/28/18 13:38	10.18g/5mL	10g/5mL	0.98

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8030978							
A8C0745-07	Water	NWTPH-Gx (MS)	03/15/18 14:10	03/21/18 11:31	5mL/5mL	5mL/5mL	1.00
A8C0745-32	Water	NWTPH-Gx (MS)	03/16/18 13:30	03/21/18 11:31	5mL/5mL	5mL/5mL	1.00

Batch: 8031031

A8C0745-21RE	Water	NWTPH-Gx (MS)	03/16/18 10:47	03/22/18 10:13	5mL/5mL	5mL/5mL	1.00
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Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8030958							
A8C0745-18	Soil	NWTPH-Gx (MS)	03/16/18 09:30	03/16/18 09:30	6.7g/5mL	5g/5mL	0.75
A8C0745-20	Soil	NWTPH-Gx (MS)	03/16/18 10:15	03/16/18 10:15	5.78g/5mL	5g/5mL	0.87
A8C0745-22	Soil	NWTPH-Gx (MS)	03/16/18 11:55	03/16/18 11:55	5.76g/5mL	5g/5mL	0.87
A8C0745-23	Soil	NWTPH-Gx (MS)	03/16/18 12:05	03/16/18 12:05	6.75g/5mL	5g/5mL	0.74
A8C0745-24	Soil	NWTPH-Gx (MS)	03/16/18 12:00	03/16/18 12:00	6.24g/5mL	5g/5mL	0.80
A8C0745-25RE	Soil	NWTPH-Gx (MS)	03/16/18 12:55	03/16/18 12:55	6.21g/5mL	5g/5mL	0.81
A8C0745-27	Soil	NWTPH-Gx (MS)	03/16/18 15:33	03/16/18 15:33	5.31g/5mL	5g/5mL	0.94
A8C0745-28	Soil	NWTPH-Gx (MS)	03/16/18 15:38	03/16/18 15:38	6.53g/5mL	5g/5mL	0.77
A8C0745-29	Soil	NWTPH-Gx (MS)	03/16/18 15:50	03/16/18 15:50	5.35g/5mL	5g/5mL	0.94

Batch: 8030985

A8C0745-01	Soil	NWTPH-Gx (MS)	03/15/18 12:15	03/15/18 12:15	5.12g/5mL	5g/5mL	0.98
A8C0745-03	Soil	NWTPH-Gx (MS)	03/15/18 12:30	03/15/18 12:30	4.73g/5mL	5g/5mL	1.06

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Portland, OR 97227

Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

SAMPLE PREPARATION INFORMATION

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A8C0745-04RE	Soil	NWTPH-Gx (MS)	03/15/18 12:35	03/15/18 12:35	6.52g/5mL	5g/5mL	0.77
A8C0745-06	Soil	NWTPH-Gx (MS)	03/15/18 13:10	03/15/18 13:10	6.49g/5mL	5g/5mL	0.77
A8C0745-10	Soil	NWTPH-Gx (MS)	03/15/18 15:40	03/15/18 15:40	6.47g/5mL	5g/5mL	0.77
A8C0745-13	Soil	NWTPH-Gx (MS)	03/15/18 16:30	03/15/18 16:30	7.64g/5mL	5g/5mL	0.65
A8C0745-14	Soil	NWTPH-Gx (MS)	03/16/18 08:40	03/16/18 08:40	5.33g/5mL	5g/5mL	0.94
A8C0745-16	Soil	NWTPH-Gx (MS)	03/16/18 09:10	03/16/18 09:10	6.49g/5mL	5g/5mL	0.77
Batch: 8031041							
A8C0745-11RE	Soil	NWTPH-Gx (MS)	03/15/18 15:50	03/15/18 15:50	6.82g/5mL	5g/5mL	0.73
A8C0745-12RE	Soil	NWTPH-Gx (MS)	03/15/18 16:10	03/15/18 16:10	6.3g/5mL	5g/5mL	0.79
Batch: 8031223							
A8C0745-05	Soil	NWTPH-Gx (MS)	03/15/18 12:55	03/15/18 12:55	6.76g/5mL	5g/5mL	0.74
A8C0745-19	Soil	NWTPH-Gx (MS)	03/16/18 09:35	03/16/18 09:35	7.69g/5mL	5g/5mL	0.65
Batch: 8031302							
A8C0745-30RE	Soil	NWTPH-Gx (MS)	03/16/18 16:04	03/16/18 16:04	6.51g/5mL	5g/5mL	0.77
Batch: 8040535							
A8C0745-31	Soil	NWTPH-Gx (MS)	03/16/18 16:15	03/16/18 16:15	5.64g/5mL	5g/5mL	0.89

BTEX+N Compounds by EPA 8260C

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8030958							
A8C0745-18	Soil	5035A/8260C	03/16/18 09:30	03/16/18 09:30	6.7g/5mL	5g/5mL	0.75
A8C0745-20	Soil	5035A/8260C	03/16/18 10:15	03/16/18 10:15	5.78g/5mL	5g/5mL	0.87
A8C0745-22	Soil	5035A/8260C	03/16/18 11:55	03/16/18 11:55	5.76g/5mL	5g/5mL	0.87
A8C0745-23	Soil	5035A/8260C	03/16/18 12:05	03/16/18 12:05	6.75g/5mL	5g/5mL	0.74
A8C0745-23RE	Soil	5035A/8260C	03/16/18 12:05	03/16/18 12:05	6.75g/5mL	5g/5mL	0.74
A8C0745-24	Soil	5035A/8260C	03/16/18 12:00	03/16/18 12:00	6.24g/5mL	5g/5mL	0.80
A8C0745-25RE	Soil	5035A/8260C	03/16/18 12:55	03/16/18 12:55	6.21g/5mL	5g/5mL	0.81
A8C0745-27	Soil	5035A/8260C	03/16/18 15:33	03/16/18 15:33	5.31g/5mL	5g/5mL	0.94
A8C0745-28	Soil	5035A/8260C	03/16/18 15:38	03/16/18 15:38	6.53g/5mL	5g/5mL	0.77
A8C0745-29	Soil	5035A/8260C	03/16/18 15:50	03/16/18 15:50	5.35g/5mL	5g/5mL	0.94
Batch: 8030985							
A8C0745-01	Soil	5035A/8260C	03/15/18 12:15	03/15/18 12:15	5.12g/5mL	5g/5mL	0.98
A8C0745-03	Soil	5035A/8260C	03/15/18 12:30	03/15/18 12:30	4.73g/5mL	5g/5mL	1.06

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EES Environmental Inc
240 N Broadway Ste 203
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Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

SAMPLE PREPARATION INFORMATION

BTEX+N Compounds by EPA 8260C

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A8C0745-04	Soil	5035A/8260C	03/15/18 12:35	03/15/18 12:35	6.52g/5mL	5g/5mL	0.77
A8C0745-06	Soil	5035A/8260C	03/15/18 13:10	03/15/18 13:10	6.49g/5mL	5g/5mL	0.77
A8C0745-10	Soil	5035A/8260C	03/15/18 15:40	03/15/18 15:40	6.47g/5mL	5g/5mL	0.77
A8C0745-13	Soil	5035A/8260C	03/15/18 16:30	03/15/18 16:30	7.64g/5mL	5g/5mL	0.65
A8C0745-14	Soil	5035A/8260C	03/16/18 08:40	03/16/18 08:40	5.33g/5mL	5g/5mL	0.94
A8C0745-16	Soil	5035A/8260C	03/16/18 09:10	03/16/18 09:10	6.49g/5mL	5g/5mL	0.77

Batch: 8031041

A8C0745-11RE	Soil	5035A/8260C	03/15/18 15:50	03/15/18 15:50	6.82g/5mL	5g/5mL	0.73
A8C0745-12RE	Soil	5035A/8260C	03/15/18 16:10	03/15/18 16:10	6.3g/5mL	5g/5mL	0.79

Batch: 8031223

A8C0745-05	Soil	5035A/8260C	03/15/18 12:55	03/15/18 12:55	6.76g/5mL	5g/5mL	0.74
A8C0745-19	Soil	5035A/8260C	03/16/18 09:35	03/16/18 09:35	7.69g/5mL	5g/5mL	0.65
A8C0745-30	Soil	5035A/8260C	03/16/18 16:04	03/16/18 16:04	6.51g/5mL	5g/5mL	0.77

Batch: 8040535

A8C0745-31	Soil	5035A/8260C	03/16/18 16:15	03/16/18 16:15	5.64g/5mL	5g/5mL	0.89
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RBDM Compounds (BTEX+) by EPA 8260C

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A8C0745-07	Water	EPA 8260C	03/15/18 14:10	03/21/18 11:31	5mL/5mL	5mL/5mL	1.00
A8C0745-32	Water	EPA 8260C	03/16/18 13:30	03/21/18 11:31	5mL/5mL	5mL/5mL	1.00
A8C0745-21RE	Water	EPA 8260C	03/16/18 10:47	03/22/18 10:13	5mL/5mL	5mL/5mL	1.00

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Prep: EPA 3510C (Acid Extraction)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A8C0745-07	Water	EPA 8270D (SIM)	03/15/18 14:10	03/22/18 09:06	1050mL/2mL	1000mL/2mL	0.95
A8C0745-32	Water	EPA 8270D (SIM)	03/16/18 13:30	03/22/18 09:06	1000mL/2mL	1000mL/2mL	1.00

Prep: EPA 3546

Sample	Default	RL Prep
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Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

SAMPLE PREPARATION INFORMATION

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8031281							
A8C0745-23	Soil	EPA 8270D (SIM)	03/16/18 12:05	03/28/18 14:29	15.28g/5mL	10g/5mL	0.65
A8C0745-23RE	Soil	EPA 8270D (SIM)	03/16/18 12:05	03/28/18 14:29	15.28g/5mL	10g/5mL	0.65

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8040678							
A8C0745-04	Soil	EPA 6020A	03/15/18 12:35	04/11/18 09:59	0.459g/50mL	0.5g/50mL	1.09
A8C0745-23	Soil	EPA 6020A	03/16/18 12:05	04/11/18 09:59	0.477g/50mL	0.5g/50mL	1.05

Total Metals by EPA 200.8 (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8031158							
A8C0745-07	Water	EPA 200.8	03/15/18 14:10	03/26/18 09:07	45mL/50mL	45mL/50mL	1.00
A8C0745-21	Water	EPA 200.8	03/16/18 10:47	03/26/18 09:07	45mL/50mL	45mL/50mL	1.00
Batch: 8031167							
A8C0745-32	Water	EPA 200.8	03/16/18 13:30	03/26/18 11:06	45mL/50mL	45mL/50mL	1.00

Dissolved Metals by EPA 200.8 (ICPMS)

Prep: Matrix Matched Direct Inject

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8031191							
A8C0745-07RE	Water	EPA 200.8 (Diss)	03/15/18 14:10	03/27/18 09:12	45mL/50mL	45mL/50mL	1.00
A8C0745-21RE	Water	EPA 200.8 (Diss)	03/16/18 10:47	03/27/18 09:12	45mL/50mL	45mL/50mL	1.00
A8C0745-32RE	Water	EPA 200.8 (Diss)	03/16/18 13:30	03/27/18 09:12	45mL/50mL	45mL/50mL	1.00

Percent Dry Weight

Prep: Total Solids (Dry Weight)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8031003							
A8C0745-01	Soil	EPA 8000C	03/15/18 12:15	03/21/18 13:17	1N/A/1N/A	1N/A/1N/A	NA

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Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

SAMPLE PREPARATION INFORMATION

Percent Dry Weight

Prep: Total Solids (Dry Weight)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A8C0745-03	Soil	EPA 8000C	03/15/18 12:30	03/21/18 13:17	1N/A/1N/A	1N/A/1N/A	NA
A8C0745-04	Soil	EPA 8000C	03/15/18 12:35	03/21/18 13:17	1N/A/1N/A	1N/A/1N/A	NA
A8C0745-06	Soil	EPA 8000C	03/15/18 13:10	03/21/18 13:17	1N/A/1N/A	1N/A/1N/A	NA
A8C0745-10	Soil	EPA 8000C	03/15/18 15:40	03/21/18 13:17	1N/A/1N/A	1N/A/1N/A	NA
A8C0745-11	Soil	EPA 8000C	03/15/18 15:50	03/21/18 13:17	1N/A/1N/A	1N/A/1N/A	NA
A8C0745-12	Soil	EPA 8000C	03/15/18 16:10	03/21/18 13:17	1N/A/1N/A	1N/A/1N/A	NA
A8C0745-13	Soil	EPA 8000C	03/15/18 16:30	03/21/18 13:17	1N/A/1N/A	1N/A/1N/A	NA
A8C0745-14	Soil	EPA 8000C	03/16/18 08:40	03/21/18 13:17	1N/A/1N/A	1N/A/1N/A	NA
A8C0745-16	Soil	EPA 8000C	03/16/18 09:10	03/21/18 13:17	1N/A/1N/A	1N/A/1N/A	NA
A8C0745-18	Soil	EPA 8000C	03/16/18 09:30	03/21/18 13:17	1N/A/1N/A	1N/A/1N/A	NA
A8C0745-20	Soil	EPA 8000C	03/16/18 10:15	03/21/18 13:17	1N/A/1N/A	1N/A/1N/A	NA
A8C0745-22	Soil	EPA 8000C	03/16/18 11:55	03/21/18 13:17	1N/A/1N/A	1N/A/1N/A	NA
A8C0745-23	Soil	EPA 8000C	03/16/18 12:05	03/21/18 13:17	1N/A/1N/A	1N/A/1N/A	NA
A8C0745-24	Soil	EPA 8000C	03/16/18 12:00	03/21/18 13:17	1N/A/1N/A	1N/A/1N/A	NA
A8C0745-25	Soil	EPA 8000C	03/16/18 12:55	03/21/18 13:17	1N/A/1N/A	1N/A/1N/A	NA
A8C0745-27	Soil	EPA 8000C	03/16/18 15:33	03/21/18 13:17	1N/A/1N/A	1N/A/1N/A	NA
A8C0745-28	Soil	EPA 8000C	03/16/18 15:38	03/21/18 13:17	1N/A/1N/A	1N/A/1N/A	NA
A8C0745-29	Soil	EPA 8000C	03/16/18 15:50	03/21/18 13:17	1N/A/1N/A	1N/A/1N/A	NA
<u>Batch: 8031272</u>							
A8C0745-30	Soil	EPA 8000C	03/16/18 16:04	03/28/18 20:04	1N/A/1N/A	1N/A/1N/A	NA
<u>Batch: 8031322</u>							
A8C0745-05	Soil	EPA 8000C	03/15/18 12:55	03/29/18 12:39	1N/A/1N/A	1N/A/1N/A	NA
A8C0745-19	Soil	EPA 8000C	03/16/18 09:35	03/29/18 12:39	1N/A/1N/A	1N/A/1N/A	NA
<u>Batch: 8040635</u>							
A8C0745-31	Soil	EPA 8000C	03/16/18 16:15	04/10/18 10:06	1N/A/1N/A	1N/A/1N/A	NA

Apex Laboratories



Kevin J. Friscia, Project Manager

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

Notes and Definitions

Qualifiers:

- E Estimated Value. The result is above the calibration range of the instrument.
- F-18 Result for Diesel (Diesel Range Organics, C12-C24) is due to overlap from Gasoline or a Gasoline Range product.
- F-20 Result for Diesel is Estimated due to overlap from Gasoline Range Organics or other VOCs.
- H-01 This sample was analyzed outside the recommended holding time.
- M-02 Due to matrix interference, this analyte cannot be accurately quantified. The reported result is estimated.
- Q-01 Spike recovery and/or RPD is outside acceptance limits.
- Q-03 Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
- Q-04 Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-05 Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- Q-16 Reanalysis of an original Batch QC sample.
- Q-19 Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- Q-42 Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
- Q-54 Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260C/8270D by +6%. The results are reported as Estimated Values.
- Q-56 Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260C
- R-02 The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- R-04 Reporting levels elevated due to dilution necessary for analysis.
- S-05 Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- S-06 Surrogate recovery is outside of established control limits.
- TEMP Sample(s) received outside of recommended temperature. See Case Narrative.
- V-15 Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.

Notes and Conventions:

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit

Apex Laboratories



Kevin J. Friscia, Project Manager

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Project: Debocks Texaco

Project Number: 2093-01
Project Manager: Chris Rhea

Reported:

04/26/18 08:39

NR Not Reported

dry Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry' designation are not dry weight corrected.

RPD Relative Percent Difference

MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.

WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.

Batch In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.

Blank Policy Apex assesses blank data for potential high bias down to a level equal to ½ the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses.

For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.

Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.

--- QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

*** Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Laboratories



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Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

Lab # A8C0745 coc 1 of 4

CHAIN OF CUSTODY

APEX LABS

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: EES ENVIRONMENTAL		Project Mgr: CHRIS RHEA		Project Name: DEBOCKS TEXACO		Project # 2093-01	
Address: 240 N BROADWAY STE 203, PORTLAND, OR 97227		Phone: 503-241-7740		Fax: -		Email: CHRIS@EES-ENV.COM	
Sampled by: DANIELE PETERS		ANALYSIS REQUEST					
Site Location: OR (WA)	Other: _____	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	
1	B1-3	31618	1215	S		3	1200-Z
2	B1-5		1220	S		3	1200-COLS
3	B1-10		1230	S		3	TOTAL DISS TCLP Se, Ag, Na, TL, V, Zn
4	B1-15		1235	S		3	Hg, Mg, Mn, Mo, Ni, Rb, Sr, Tl, U, Zn
5	B1-20		1255	S		3	Al, Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, Zn
6	B1-25		1310	S		3	TCLP Metals (8)
7	B1-W		1410	W		7	RCRA Metals (8)
8	B2-3		1455	S		3	600 TIO
9	B2-5		1500	S		3	8082 PCBs
10	B2-10		1540	S		3	8270 SIM PAHS
							8270 SVOC
							8260 BTEX VOCs
							8260 HVOCS
							8260 RBDM VOCs
							8260 VOCs Full List
							NWTPH-Cx
							NWTPH-Dx
							NWTPH-CD
SPECIAL INSTRUCTIONS:							
Normal Turn Around Time (TAT) = 10 Business Days				YES NO			
TAT Requested (circle)		1 Day	2 Day	3 Day	Other: _____		
SAMPLES ARE HELD FOR 30 DAYS							
RELINQUISHED BY:		RECEIVED BY:					
Signature: <i>Danielle Peters</i>		Signature: <i>[Signature]</i>					
Date: <u>3/14/18</u>		Date: <u>3/14/18</u>					
Printed Name: <u>DANIELE PETERS</u>		Printed Name: <u>M. N. N. N.</u>					
Time: <u>1048</u>		Time: <u>1048</u>					
Company: <u>EES</u>		Company: <u>Apex Labs</u>					

Apex Laboratories



Kevin J. Friscia, Project Manager

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

CHAIN OF CUSTODY

Lab# A800745 PO# _____ COC 2 of 4

Company: **EES ENVIRONMENTAL** Project Mgr: **CHRIS RHEA** Project Name: **DEBOCKS TEXACO** Project # **2093-01**
 Address: **240 N BROADWAY STE 203, PORTLAND, OR 97227** Phone: **503.241.2740** Fax: **-** Email: **CHELS@EES-ENV.COM**
 Sampled by: **DAMIELE PETERS**

Site Location: OR (WA) Other: _____

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	ANALYSIS REQUEST		
						YES	NO	NO
B2-15		3/15/18	1550	S	3	600 TTO		
B2-19		↓	1610	S	6	8082 PCBS		
B2-25		↓	1630	S	3	8270 SVOC		
B3-3		3/16/18	0840	S	3	8260 BTEX VOCs		
B3-5		↓	0850	S	3	8260 HVOCs		
B3-10		↓	0910	S	3	8260 RBDM VOCs		
B3-13		↓	0925	S	3	8260 VOCs Full List		
B3-15		↓	0930	S	6	NWTPH-Gx		
B3-20		↓	0935	S	3	NWTPH-Dx		
B3-25		↓	1015	S	3	NWTPH-HCID		


SPECIAL INSTRUCTIONS:

TAT Requested (circle) 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: _____

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Damiele Peters Date: 3/15/18 Signature: [Signature]
 RECEIVED BY: _____ Date: _____ Signature: _____
 Printed Name: DAMIELE PETERS Date: 10/18 Printed Name: M. Mathis Time: 10:17
 Company: EES Company: Apex Labs

Apex Laboratories



Kevin J. Friscia, Project Manager

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Apex Labs

12232 S.W. Garden Place
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503-718-2323 Phone
503-718-0333 Fax

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

APEX LABS **CHAIN OF CUSTODY** Lab # AS00745 COC 3 of 4

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: **EES ENVIRONMENTAL** Project Mgr: **CHRIS RHEA** Project Name: **DEBOCK'S TEXACO** Project # **2093-01**

Address: **140 N BROADWAY STE 203 PORTLAND, OR** Phone: **503 947 2740** Fax: Email: **CHRS@EES-ENV.COM**

Sampled by: **DANIELE PETERS**

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	WVTPH-CID	WVTPH-DX	WVTPH-CX	8260 VOCs Full List	8260 RBDM VOCs	8260 HVOCs	8260 BTEX VOCs	8270 SVOC	8270 SIM PAHS	8082 PCBs	600 TTO	RCA Metals (8)	TCLP Metals (8)	AL, SB, AS, BA, BE, CD, CR, CO, CU, FE, PB, HG, MG, MN, MO, NI, K, SE, AP, NA, TL, V, ZN, TOTAL DIS TCLP	1200-COLS	1200-Z
B3-W	3-16-18	1047	W	7																
B4-15		1155	S	3																
B4-17		1205	S	6																
B4-20		1200	J	3																
B4-25		1155	S	3																
B5-3		1530	S	3																
B5-5		1533	S	3																
B5-10		1538	S	3																
B5-15		1550	S	3																
B5-20		1604	S	3																

Normal Turn Around Time (TAT) = 10 Business Days

SPECIAL INSTRUCTIONS:

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other:

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Daniele Peters Date: 3/16/18 Signature: [Signature] RECEIVED BY: Date: Signature:

Printed Name: DANIELE PETERS Time: 1048 Printed Name: Michael Rhea Time: 1048 Date: 3-16-18 Date:

Company: EES Company: Apex Labs

Apex Laboratories



Kevin J. Friscia, Project Manager

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

APEX LABS
 CHAIN OF CUSTODY
 Lab # A800745
 COC 4 of 4

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333
 Company: **EES ENVIRONMENTAL** Project Mgr: **CHRIS RHEA**
 Address: **240 N BROADWAY STE 203, PORTLAND, OR** Project Name: **DEBOCK'S TEXACO** Project # **2093-01**
 Sampled by: **DANIELE PETERS** Phone: **503.847.2740** Fax: **-** Email: **CHRIS@EES-ENV.COM**

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	ANALYSIS REQUEST
B525	3-16-18	1615	S	3	600 TTO
B4-U	↓	1320	W	7	RCRA Metals (8)
					TCLP Metals (8)
					Al, Sb, As, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Mn, Ni, K, Hg, Mg, Mo, Ni, Rb, Se, Ag, Na, Tl, V, Zn
					TOTAL DISS TCLP
					1200-COLS
					1200-Z

Site Location: OR (WA) Other: _____
 SAMPLE ID: B525, B4-U
 Normal Turn Around Time (TAT) = 10 Business Days
 TAT Requested (circle): 1 Day, 2 Day, 3 Day, 4 DAY, 5 DAY, Other: _____
 SPECIAL INSTRUCTIONS: _____
 SAMPLES ARE HELD FOR 30 DAYS
 RELINQUISHED BY: Danielle Peters Date: 3/17/18 Signature: [Signature]
 RECEIVED BY: DANIELE PETERS Date: 3-16-18 Signature: [Signature]
 Printed Name: DANIELE PETERS Time: 10:48 Printed Name: [Signature] Time: 10:48
 Company: EES Company: Apex Labs

Apex Laboratories



Kevin J. Friscia, Project Manager

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Apex Labs

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

Lab# **A8C0745** run! COC 1 of 2

CHAIN OF CUSTODY

APEX LABS

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: EES ENVIRONMENTAL		Project Name: DEBOCKS TEXACO		Project # 2093-01	
Address: 240 N BROADWAY STE 203 PORTLAND, OR 97227		Phone: 503-718-2323		Fax: 503-718-0333	
Sampled by: CHRISTOPHER PETERS		Project Mgr: CHRIS RHEA		Email: CHRIS@EES-ENV.COM	
Site Location: OR		Matrix: MATRIX		# OF CONTAINERS	
Other: (WA)		DATE		TIME	
SAMPLE ID		LAB ID #		TAT Requested (circle)	
1 B1-B		2018 1215		1 Day	
2 B1-5		1 1210		2 Day	
3 B1-4		1 1230		3 Day	
4 B1-10		1 1235		4 DAY	
5 B1-11		1 1255		5 DAY	
6 B1-15		1 1310		Other: _____	
7 B1-8		1 1410			
8 B2-3		1 1455			
9 B2-5		1 1500			
10 B2-10		1 1510			
Normal Turn Around Time (TAT) = 10 Business Days		YES		NO	
SPECIAL INSTRUCTIONS:					
RECEIVED BY:		Signature: <i>[Signature]</i>		Date: 2/1/18	
RECEIVED BY:		Signature: <i>[Signature]</i>		Date: 2/1/18	
RECEIVED BY:		Signature: <i>[Signature]</i>		Date: 2/1/18	

Apex Laboratories



Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

CHAIN OF CUSTODY

Lab # A8C0745 Rev. 1 COC # of 4

Company: **APEX LABS** 12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Project Mgr: **CHRIS RHEA** Project Name: **DEBOCK TEXACO** Project # **2093-01**

Address: **200 N BROADWAY STE 203, PORTLAND, OR 97227** Phone: **503-274-7740** Fax: **503-274-7740** Email: **CHESS@EES-ENV.COM**

Sampled by: **VINNIE PETERS**

Site Location: OR WA Other: _____

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	ANALYSIS REQUEST		SPECIAL INSTRUCTIONS:
						YES	NO	
KL-15		3/15/18	1550	S	3			
KL-19		3/15/18	1610	S	6			
KL-25		3/15/18	1630	S	3			
KL-27		3/15/18	0820	S	3			
KL-28		3/15/18	0910	S	3			
KL-29		3/15/18	0925	S	3			
KL-30		3/15/18	0920	S	6			
KL-31		3/15/18	0925	S	3			
KL-32		3/15/18	1015	S	3			

Normal Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: _____

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Kevin J. Friscia Date: 3/15/18 Signature: [Signature]

RECEIVED BY: [Signature] Date: 3/15/18 Signature: [Signature]

Printed Name: VINNIE PETERS Time: 1017 Printed Name: [Name] Time: [Time]

Company: EES Company: [Company]

Apex Laboratories



Kevin J. Friscia, Project Manager

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Apex Labs

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503-718-2323 Phone
503-718-0333 Fax

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

PO# **ARCO745**
Lab # **2093-01**

CHAIN OF CUSTODY

APEX LABS

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: EES ENVIRONMENTAL		Project Name: DEBOCKS TEXACO		Project # 2093-01		
Address: 240 N BROADWAY STE 203 PORTLAND, OR		Phone: 503-718-2323		Fac: _____		
Sampled by: DANIEL PETERK		Project Mgr: CHRIS RHEA		Email: CHRIS.EES@EES-ENV.COM		
Site Location: OR (WA)	Other: _____	ANALYSIS REQUEST				
LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	YES	NO
82-00	8-16-18	10:47	W	7		
82-01	8-16-18	11:55	S	3		
82-02	8-16-18	12:05	S	3		
82-03	8-16-18	12:06	S	3		
82-04	8-16-18	11:55	S	3		
82-05	8-16-18	15:30	S	3		
82-06	8-16-18	15:30	S	3		
82-07	8-16-18	16:20	S	3		
82-08	8-16-18	16:20	S	3		
82-09	8-16-18	16:20	S	3		
82-10	8-16-18	16:40	S	3		

Normal Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: _____

SPECIAL INSTRUCTIONS:

RECEIVED BY: _____ Date: _____

RELINQUISHED BY: _____ Date: _____

Signature: _____ Date: _____

Printed Name: _____ Time: _____

Company: _____

Apex Laboratories



Kevin J. Friscia, Project Manager

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503-718-2323 Phone
503-718-0333 Fax

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

PO# 2042-01
Project # 2042-01
Email: CHRIS.RHEA@EES-ENV.COM

CHAIN OF CUSTODY

APEX LABS

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: **EES ENVIRONMENTAL** Project Mgr: **CHRIS RHEA** Project Name: **DEBOCK TEXACO** Lab # A8C0745 Rev. 1 COC 1 of 1

Address: **240 N BROADWAY STE 203 PORTLAND, OR** Phone: **503-718-2323** Fax: **503-718-0333**

Sampled by: **CHRIS RHEA**

Site Location: OR (WA) Other: _____

SAMPLE ID: _____ DATE: _____ TIME: _____

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWPH-HClD	NWPH-DX	NWPH-CX	8260 VOCs Full List	8260 RBDM VOCs	8260 HVOCS	8260 BTEX VOCs	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TTO	RCA Metals (9)	TCLP Metals (9)	AL, SR, AR, BA, BR, CA, CR, CN, CO, CU, FE, PB, Hg, Mn, Ni, Ni, V, Zn	TOTAL DISS TCLP	1200-Z	LEAD	ED8 + EDCT	MTBE		
1	3-29-18	10:53	SB	7		XX																			
2	3-29-18	10:53	SB	7		XX																			
3	3-29-18	10:53	SB	7		XX																			

Normal Turn Around Time (TAT) = 10 Business Days YES NO

TAT Requested (circle) 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: _____

SAMPLES ARE HELD FOR 30 DAYS

RECEIVED BY: _____ Date: 3/16/18 Signature: _____

RELINQUISHED BY: _____ Date: _____ Signature: _____

Printed Name: _____ Time: 10:48 Printed Name: _____ Time: _____

Company: **EES** Company: **Apex Labs**

Apex Laboratories



Kevin J. Friscia, Project Manager

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503-718-2323 Phone
503-718-0333 Fax

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/26/18 08:39

APEX LABS COOLER RECEIPT FORM

Client: EES Element WO#: A8 C0745

Project/Project #: Debocks Texaco / 2093-01

Delivery info:

Date/Time Received: 3-12-18 @ 1048 By: MK

Delivered by: Apex Client ESS FedEx UPS Swift Senvoy SDS Other

Cooler Inspection Inspected by: MK : 3-12-18 @ 1250

Chain of Custody Included? Yes No Custody Seals? Yes No

Signed/Dated by Client? Yes No

Signed/Dated by Apex? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (deg. C)	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
Received on Ice? (Y/N)	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>	<u>Y</u>
Temp. Blanks? (Y/N)	<u>4.2</u>	<u>4.5</u>	<u>3.1</u>	<u>5.2</u>	<u>-</u>	<u>-</u>	<u>-</u>
Ice Type: (Gel/Real/Other)	<u>Real</u>	<u>Real</u>	<u>Real</u>	<u>Real</u>	<u>-</u>	<u>-</u>	<u>-</u>
Condition:	<u>good</u>	<u> </u>	<u> </u>	<u> </u>	<u>-</u>	<u>-</u>	<u>-</u>

Cooler out of temp? (Y/N) Possible reason why: If some coolers are in temp and some out, were green dot applied to out of temperature samples? Yes/No/NA

Samples Inspection: Inspected by: (Signature) : 3/19/18 @ 1455

All Samples Intact? Yes No Comments: _____

Bottle Labels/COCs agree? Yes No Comments: Samples B-2 & B2-7, B4-14 +

Imp blank #1743 received but not listed on CoC

Containers/Volumes Received Appropriate for Analysis? Yes No Comments: _____

Do VOA Vials have Visible Headspace? Yes No NA

Comments: _____

Water Samples: pH Checked and Appropriate (except VOAs): Yes No NA

Comments: All HCl ampoules pH ≈ 7

Additional Information: _____

Labeled by: (Signature) Witness: (Signature) Cooler Inspected by: (Signature) See Project Contact Form: Y



3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Apex Laboratories
Kevin Friscia
12232 S.W. Garden Place
Tigard, OR 97223

RE: A8C0745
Work Order Number: 1803292

April 05, 2018

Attention Kevin Friscia:

Fremont Analytical, Inc. received 2 sample(s) on 3/22/2018 for the analyses presented in the following report.

Extractable Petroleum Hydrocarbons by NWEPH
Sample Moisture (Percent Moisture)
Volatile Petroleum Hydrocarbons by NWVPH

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike C. Ridgeway", written in a cursive style.

Mike Ridgeway
Laboratory Director



CLIENT: Apex Laboratories
Project: A8C0745
Work Order: 1803292

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1803292-001	B2-19	03/15/2018 4:10 PM	03/22/2018 1:40 PM
1803292-002	B4-17	03/16/2018 12:05 PM	03/22/2018 1:40 PM



Case Narrative

WO#: 1803292

Date: 4/5/2018

CLIENT: Apex Laboratories**Project:** A8C0745

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



Qualifiers & Acronyms

WO#: 1803292

Date Reported: 4/5/2018

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

Original



Analytical Report

Work Order: 1803292
Date Reported: 4/5/2018

Client: Apex Laboratories

Collection Date: 3/15/2018 4:10:00 PM

Project: A8C0745

Lab ID: 1803292-001

Matrix: Soil

Client Sample ID: B2-19

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 20134

Analyst: SB

Aliphatic Hydrocarbon (C8-C10)	105	25.7	*	mg/Kg-dry	1	4/3/2018 12:37:00 PM
Aliphatic Hydrocarbon (C10-C12)	93.5	12.9		mg/Kg-dry	1	4/3/2018 12:37:00 PM
Aliphatic Hydrocarbon (C12-C16)	ND	12.9		mg/Kg-dry	1	4/3/2018 12:37:00 PM
Aliphatic Hydrocarbon (C16-C21)	ND	12.9		mg/Kg-dry	1	4/3/2018 12:37:00 PM
Aliphatic Hydrocarbon (C21-C34)	ND	12.9		mg/Kg-dry	1	4/3/2018 12:37:00 PM
Aromatic Hydrocarbon (C8-C10)	30.6	12.9		mg/Kg-dry	1	4/3/2018 7:45:00 PM
Aromatic Hydrocarbon (C10-C12)	27.4	12.9		mg/Kg-dry	1	4/3/2018 7:45:00 PM
Aromatic Hydrocarbon (C12-C16)	ND	12.9		mg/Kg-dry	1	4/3/2018 7:45:00 PM
Aromatic Hydrocarbon (C16-C21)	ND	12.9		mg/Kg-dry	1	4/3/2018 7:45:00 PM
Aromatic Hydrocarbon (C21-C34)	ND	12.9		mg/Kg-dry	1	4/3/2018 7:45:00 PM
Surr: 1-Chlorooctadecane	129	60 - 140		%Rec	1	4/3/2018 12:37:00 PM
Surr: o-Terphenyl	98.7	60 - 140		%Rec	1	4/3/2018 7:45:00 PM

NOTES:

* - Flagged value is not within established control limits.

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 20170

Analyst: EM

Aliphatic Hydrocarbon (C5-C6)	2.48	1.62		mg/Kg-dry	1	3/28/2018 10:44:02 PM
Aliphatic Hydrocarbon (C6-C8)	62.5	23.1	D	mg/Kg-dry	10	3/29/2018 7:46:46 PM
Aliphatic Hydrocarbon (C8-C10)	52.2	12.9	D	mg/Kg-dry	10	3/29/2018 7:46:46 PM
Aliphatic Hydrocarbon (C10-C12)	68.2	13.8	D	mg/Kg-dry	10	3/29/2018 7:46:46 PM
Aromatic Hydrocarbon (C8-C10)	82.2	27.7	D	mg/Kg-dry	10	3/29/2018 7:46:46 PM
Aromatic Hydrocarbon (C10-C12)	68.3	5.54	D	mg/Kg-dry	10	3/29/2018 7:46:46 PM
Aromatic Hydrocarbon (C12-C13)	93.9	64.6	D	mg/Kg-dry	10	3/29/2018 7:46:46 PM
Benzene	ND	0.554		mg/Kg-dry	1	3/28/2018 10:44:02 PM
Toluene	1.13	0.646		mg/Kg-dry	1	3/29/2018 9:49:01 PM
Ethylbenzene	2.22	0.646		mg/Kg-dry	1	3/29/2018 9:49:01 PM
m,p-Xylene	1.97	1.20		mg/Kg-dry	1	3/29/2018 9:49:01 PM
o-Xylene	0.985	0.554		mg/Kg-dry	1	3/29/2018 9:49:01 PM
Naphthalene	3.74	0.462		mg/Kg-dry	1	3/28/2018 10:44:02 PM
Methyl tert-butyl ether (MTBE)	ND	0.462		mg/Kg-dry	1	3/28/2018 10:44:02 PM
Surr: 1,4-Difluorobenzene	116	65 - 140		%Rec	1	3/28/2018 10:44:02 PM
Surr: Bromofluorobenzene	118	65 - 140		%Rec	1	3/29/2018 9:49:01 PM

Sample Moisture (Percent Moisture)

Batch ID: R42429

Analyst: CG

Percent Moisture	23.8	0.500		wt%	1	3/26/2018 11:40:45 AM
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Analytical Report

Work Order: 1803292
Date Reported: 4/5/2018

Client: Apex Laboratories

Collection Date: 3/16/2018 12:05:00 PM

Project: A8C0745

Lab ID: 1803292-002

Matrix: Soil

Client Sample ID: B4-17

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 20134

Analyst: SB

Aliphatic Hydrocarbon (C8-C10)	1,140	22.9	*	mg/Kg-dry	1	4/3/2018 3:28:00 PM
Aliphatic Hydrocarbon (C10-C12)	495	11.4		mg/Kg-dry	1	4/3/2018 3:28:00 PM
Aliphatic Hydrocarbon (C12-C16)	164	11.4		mg/Kg-dry	1	4/3/2018 3:28:00 PM
Aliphatic Hydrocarbon (C16-C21)	104	11.4		mg/Kg-dry	1	4/3/2018 3:28:00 PM
Aliphatic Hydrocarbon (C21-C34)	ND	11.4		mg/Kg-dry	1	4/3/2018 3:28:00 PM
Aromatic Hydrocarbon (C8-C10)	443	11.4		mg/Kg-dry	1	4/3/2018 10:35:00 PM
Aromatic Hydrocarbon (C10-C12)	294	11.4		mg/Kg-dry	1	4/3/2018 10:35:00 PM
Aromatic Hydrocarbon (C12-C16)	128	11.4		mg/Kg-dry	1	4/3/2018 10:35:00 PM
Aromatic Hydrocarbon (C16-C21)	24.9	11.4		mg/Kg-dry	1	4/3/2018 10:35:00 PM
Aromatic Hydrocarbon (C21-C34)	ND	11.4		mg/Kg-dry	1	4/3/2018 10:35:00 PM
Surr: 1-Chlorooctadecane	138	60 - 140		%Rec	1	4/3/2018 3:28:00 PM
Surr: o-Terphenyl	102	60 - 140		%Rec	1	4/3/2018 10:35:00 PM

NOTES:

* - Flagged value is not within established control limits.

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 20170

Analyst: EM

Aliphatic Hydrocarbon (C5-C6)	3.89	1.64		mg/Kg-dry	1	3/29/2018 12:46:08 AM
Aliphatic Hydrocarbon (C6-C8)	92.5	46.9	D	mg/Kg-dry	20	3/29/2018 9:08:09 PM
Aliphatic Hydrocarbon (C8-C10)	173	26.3	D	mg/Kg-dry	20	3/29/2018 9:08:09 PM
Aliphatic Hydrocarbon (C10-C12)	129	28.1	D	mg/Kg-dry	20	3/29/2018 9:08:09 PM
Aromatic Hydrocarbon (C8-C10)	461	56.3	D	mg/Kg-dry	20	3/29/2018 9:08:09 PM
Aromatic Hydrocarbon (C10-C12)	468	11.3	D	mg/Kg-dry	20	3/29/2018 9:08:09 PM
Aromatic Hydrocarbon (C12-C13)	140	131	D	mg/Kg-dry	20	3/28/2018 10:03:12 PM
Benzene	ND	0.563		mg/Kg-dry	1	3/29/2018 12:46:08 AM
Toluene	22.3	0.656		mg/Kg-dry	1	3/29/2018 11:51:01 PM
Ethylbenzene	41.9	0.656		mg/Kg-dry	1	3/29/2018 11:51:01 PM
m,p-Xylene	147	24.4	D	mg/Kg-dry	20	3/29/2018 9:08:09 PM
o-Xylene	56.5	11.3	D	mg/Kg-dry	20	3/29/2018 9:08:09 PM
Naphthalene	17.9	9.38	D	mg/Kg-dry	20	3/28/2018 10:03:12 PM
Methyl tert-butyl ether (MTBE)	ND	0.469		mg/Kg-dry	1	3/29/2018 12:46:08 AM
Surr: 1,4-Difluorobenzene	104	65 - 140	D	%Rec	20	3/29/2018 9:08:09 PM
Surr: Bromofluorobenzene	110	65 - 140	D	%Rec	20	3/29/2018 9:08:09 PM

Sample Moisture (Percent Moisture)

Batch ID: R42429

Analyst: CG

Percent Moisture	23.3	0.500		wt%	1	3/26/2018 11:40:45 AM
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Work Order: 1803292
CLIENT: Apex Laboratories
Project: A8C0745

QC SUMMARY REPORT
Extractable Petroleum Hydrocarbons by NWEPH

Sample ID MB-20134	SampType: MBLK	Units: mg/Kg			Prep Date: 3/23/2018	RunNo: 42664					
Client ID: MBLKS	Batch ID: 20134				Analysis Date: 4/3/2018	SeqNo: 823787					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C8-C10)	ND	20.0									*
Aliphatic Hydrocarbon (C10-C12)	ND	10.0									
Aliphatic Hydrocarbon (C12-C16)	ND	10.0									
Aliphatic Hydrocarbon (C16-C21)	ND	10.0									
Aliphatic Hydrocarbon (C21-C34)	ND	10.0									
Surr: 1-Chlorooctadecane	142		100.0		142	60	140				S

NOTES:

S - Outlying surrogate recovery(ies) observed (high bias). Sample is non-detect; no further action required.
 * - Flagged value is not within established control limits.

Sample ID LCS-20134	SampType: LCS	Units: mg/Kg			Prep Date: 3/23/2018	RunNo: 42664					
Client ID: LCSS	Batch ID: 20134				Analysis Date: 4/3/2018	SeqNo: 823786					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C8-C10)	256	20.0	500.0	0	51.1	70	130				S
Aliphatic Hydrocarbon (C10-C12)	193	10.0	250.0	0	77.2	70	130				
Aliphatic Hydrocarbon (C12-C16)	282	10.0	250.0	0	113	70	130				
Aliphatic Hydrocarbon (C16-C21)	288	10.0	250.0	0	115	70	130				
Aliphatic Hydrocarbon (C21-C34)	279	10.0	250.0	0	112	70	130				
Surr: 1-Chlorooctadecane	122		100.0		122	60	140				

NOTES:

S - Outlying spike recovery observed (low bias). Samples will be qualified with a *.

Sample ID 1803292-001ADUP	SampType: DUP	Units: mg/Kg-dry			Prep Date: 3/23/2018	RunNo: 42664					
Client ID: B2-19	Batch ID: 20134				Analysis Date: 4/3/2018	SeqNo: 823785					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C8-C10)	104	25.2						105.0	0.869	30	*
Aliphatic Hydrocarbon (C10-C12)	92.5	12.6						93.51	1.05	30	
Aliphatic Hydrocarbon (C12-C16)	ND	12.6						0		30	
Aliphatic Hydrocarbon (C16-C21)	ND	12.6						0		30	
Aliphatic Hydrocarbon (C21-C34)	ND	12.6						0		30	



Work Order: 1803292
CLIENT: Apex Laboratories
Project: A8C0745

QC SUMMARY REPORT
Extractable Petroleum Hydrocarbons by NWEPH

Sample ID 1803292-001ADUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 3/23/2018	RunNo: 42664							
Client ID: B2-19	Batch ID: 20134		Analysis Date: 4/3/2018	SeqNo: 823785							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1-Chlorooctadecane	98.1		125.9		78.0	60	140			0	
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NOTES:

* - Flagged value is not within established control limits.

Sample ID 1803292-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 3/23/2018	RunNo: 42664							
Client ID: B2-19	Batch ID: 20134		Analysis Date: 4/3/2018	SeqNo: 823788							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aliphatic Hydrocarbon (C8-C10)	398	24.5	613.4	105.0	47.7	70	130				S
Aliphatic Hydrocarbon (C10-C12)	325	12.3	306.7	93.51	75.6	70	130				
Aliphatic Hydrocarbon (C12-C16)	355	12.3	306.7	11.30	112	70	130				
Aliphatic Hydrocarbon (C16-C21)	337	12.3	306.7	0	110	70	130				
Aliphatic Hydrocarbon (C21-C34)	325	12.3	306.7	0	106	70	130				
Surr: 1-Chlorooctadecane	142		122.7		116	60	140				

NOTES:

S - Outlying spike recovery(ies) observed.

Sample ID 1803292-001AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 3/23/2018	RunNo: 42664							
Client ID: B2-19	Batch ID: 20134		Analysis Date: 4/3/2018	SeqNo: 823789							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aliphatic Hydrocarbon (C8-C10)	417	22.3	558.6	105.0	55.9	70	130	397.9	4.72	30	S
Aliphatic Hydrocarbon (C10-C12)	335	11.2	279.3	93.51	86.5	70	130	325.3	2.98	30	
Aliphatic Hydrocarbon (C12-C16)	349	11.2	279.3	11.30	121	70	130	354.5	1.67	30	
Aliphatic Hydrocarbon (C16-C21)	336	11.2	279.3	0	120	70	130	336.8	0.309	30	
Aliphatic Hydrocarbon (C21-C34)	338	11.2	279.3	0	121	70	130	325.4	3.94	30	
Surr: 1-Chlorooctadecane	136		111.7		122	60	140		0		

NOTES:

S - Outlying spike recovery(ies) observed.

Work Order: 1803292
CLIENT: Apex Laboratories
Project: A8C0745

QC SUMMARY REPORT
Extractable Petroleum Hydrocarbons by NWEPH

Sample ID MB-20134	SampType: MBLK	Units: mg/Kg	Prep Date: 3/23/2018	RunNo: 42664							
Client ID: MBLKS	Batch ID: 20134		Analysis Date: 4/3/2018	SeqNo: 823796							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aromatic Hydrocarbon (C8-C10)	ND	10.0									
Aromatic Hydrocarbon (C10-C12)	ND	10.0									
Aromatic Hydrocarbon (C12-C16)	ND	10.0									
Aromatic Hydrocarbon (C16-C21)	ND	10.0									
Aromatic Hydrocarbon (C21-C34)	ND	10.0									
Surr: o-Terphenyl	101		100.0		101	60	140				

Sample ID LCS-20134	SampType: LCS	Units: mg/Kg	Prep Date: 3/23/2018	RunNo: 42664							
Client ID: LCSS	Batch ID: 20134		Analysis Date: 4/3/2018	SeqNo: 823795							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aromatic Hydrocarbon (C8-C10)	201	10.0	250.0	0	80.5	70	130				
Aromatic Hydrocarbon (C10-C12)	202	10.0	250.0	0	80.7	70	130				
Aromatic Hydrocarbon (C12-C16)	220	10.0	250.0	0	88.0	70	130				
Aromatic Hydrocarbon (C16-C21)	239	10.0	250.0	0	95.7	70	130				
Aromatic Hydrocarbon (C21-C34)	281	10.0	250.0	0	112	70	130				
Surr: o-Terphenyl	89.9		100.0		89.9	60	140				

Sample ID 1803292-001ADUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 3/23/2018	RunNo: 42664							
Client ID: B2-19	Batch ID: 20134		Analysis Date: 4/3/2018	SeqNo: 823794							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aromatic Hydrocarbon (C8-C10)	20.3	12.6						30.56	40.4	30	
Aromatic Hydrocarbon (C10-C12)	20.0	12.6						27.43	31.5	30	
Aromatic Hydrocarbon (C12-C16)	ND	12.6						0		30	
Aromatic Hydrocarbon (C16-C21)	ND	12.6						0		30	
Aromatic Hydrocarbon (C21-C34)	ND	12.6						0		30	
Surr: o-Terphenyl	110		125.9		87.2	60	140		0		

Work Order: 1803292
CLIENT: Apex Laboratories
Project: A8C0745

QC SUMMARY REPORT
Extractable Petroleum Hydrocarbons by NWEPH

Sample ID 1803292-001AMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 3/23/2018	RunNo: 42664							
Client ID: B2-19	Batch ID: 20134		Analysis Date: 4/3/2018	SeqNo: 823797							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aromatic Hydrocarbon (C8-C10)	251	12.3	306.7	30.56	71.8	70	130				
Aromatic Hydrocarbon (C10-C12)	277	12.3	306.7	27.43	81.2	70	130				
Aromatic Hydrocarbon (C12-C16)	267	12.3	306.7	9.917	83.7	70	130				
Aromatic Hydrocarbon (C16-C21)	289	12.3	306.7	0	94.3	70	130				
Aromatic Hydrocarbon (C21-C34)	315	12.3	306.7	0	103	70	130				
Surr: o-Terphenyl	103		122.7		84.2	60	140				

Sample ID 1803292-001AMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 3/23/2018	RunNo: 42664							
Client ID: B2-19	Batch ID: 20134		Analysis Date: 4/3/2018	SeqNo: 823798							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aromatic Hydrocarbon (C8-C10)	252	11.2	279.3	30.56	79.3	70	130	250.9	0.423	30	
Aromatic Hydrocarbon (C10-C12)	279	11.2	279.3	27.43	90.1	70	130	276.6	0.929	30	
Aromatic Hydrocarbon (C12-C16)	262	11.2	279.3	9.917	90.3	70	130	266.8	1.77	30	
Aromatic Hydrocarbon (C16-C21)	281	11.2	279.3	0	100	70	130	289.3	3.04	30	
Aromatic Hydrocarbon (C21-C34)	313	11.2	279.3	0	112	70	130	314.7	0.404	30	
Surr: o-Terphenyl	104		111.7		92.7	60	140		0		



Work Order: 1803292
CLIENT: Apex Laboratories
Project: A8C0745

QC SUMMARY REPORT
Sample Moisture (Percent Moisture)

Sample ID 1803278-002ADUP	SampType: DUP	Units: wt%	Prep Date: 3/26/2018	RunNo: 42429							
Client ID: BATCH	Batch ID: R42429	Analysis Date: 3/26/2018	SeqNo: 818463								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	5.89	0.500						5.196	12.6	20	



Work Order: 1803292
CLIENT: Apex Laboratories
Project: A8C0745

QC SUMMARY REPORT
Volatile Petroleum Hydrocarbons by NWVPH

Sample ID	LCS-20170	SampType:	LCS	Units:	mg/Kg	Prep Date:	3/27/2018	RunNo:	42555		
Client ID:	LCSS	Batch ID:	20170	Analysis Date:	3/28/2018	SeqNo:	821310				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	29.9	1.75	30.00	0	99.8	70	130				
Aliphatic Hydrocarbon (C6-C8)	9.74	2.50	10.00	0	97.4	70	130				
Aliphatic Hydrocarbon (C8-C10)	11.1	1.40	10.00	0	111	70	130				
Aliphatic Hydrocarbon (C10-C12)	11.0	1.50	10.00	0	110	70	130				
Aromatic Hydrocarbon (C8-C10)	47.4	3.00	40.00	0	118	70	130				
Aromatic Hydrocarbon (C10-C12)	11.1	0.600	10.00	0	111	70	130				
Aromatic Hydrocarbon (C12-C13)	9.21	7.00	10.00	0	92.1	70	130				
Benzene	11.7	0.600	10.00	0	117	70	130				
Toluene	11.7	0.700	10.00	0	117	70	130				
Ethylbenzene	11.8	0.700	10.00	0	118	70	130				
m,p-Xylene	23.8	1.30	20.00	0	119	70	130				
o-Xylene	11.6	0.600	10.00	0	116	70	130				
Naphthalene	9.77	0.500	10.00	0	97.7	70	130				
Methyl tert-butyl ether (MTBE)	9.16	0.500	10.00	0	91.6	70	130				
Surr: 1,4-Difluorobenzene	2.66		2.500		106	65	140				
Surr: Bromofluorobenzene	2.57		2.500		103	65	140				

Sample ID	MB-20170	SampType:	MBLK	Units:	mg/Kg	Prep Date:	3/27/2018	RunNo:	42555		
Client ID:	MBLKS	Batch ID:	20170	Analysis Date:	3/28/2018	SeqNo:	821311				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	ND	1.75		0	0						
Aliphatic Hydrocarbon (C6-C8)	ND	2.50		0	0						
Aliphatic Hydrocarbon (C8-C10)	ND	1.40		0	0						
Aliphatic Hydrocarbon (C10-C12)	ND	1.50		0	0						
Aromatic Hydrocarbon (C8-C10)	ND	3.00		0	0						
Aromatic Hydrocarbon (C10-C12)	ND	0.600		0	0						
Aromatic Hydrocarbon (C12-C13)	ND	7.00		0	0						
Benzene	ND	0.600		0	0						
Toluene	ND	0.700		0	0						



Work Order: 1803292
CLIENT: Apex Laboratories
Project: A8C0745

QC SUMMARY REPORT

Volatile Petroleum Hydrocarbons by NWVPH

Sample ID	MB-20170	SampType:	MBLK	Units:	mg/Kg	Prep Date:	3/27/2018	RunNo:	42555		
Client ID:	MBLKS	Batch ID:	20170	Analysis Date:	3/28/2018	SeqNo:	821311				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethylbenzene	ND	0.700		0	0						
m,p-Xylene	ND	1.30		0	0						
o-Xylene	ND	0.600		0	0						
Naphthalene	ND	0.500		0	0						
Methyl tert-butyl ether (MTBE)	ND	0.500		0	0						
Surr: 1,4-Difluorobenzene	2.45		2.500		97.9	65	140				
Surr: Bromofluorobenzene	2.55		2.500		102	65	140				

Sample ID	1803292-001BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	3/27/2018	RunNo:	42555		
Client ID:	B2-19	Batch ID:	20170	Analysis Date:	3/28/2018	SeqNo:	821303				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	1.74	1.62		0	0			2.478	35.0	25	
Benzene	ND	0.554		0	0			0		25	
Naphthalene	3.54	0.462		0	0			3.737	5.53	25	
Methyl tert-butyl ether (MTBE)	ND	0.462		0	0			0		25	
Surr: 1,4-Difluorobenzene	2.58		2.308		112	65	140		0		
Surr: Bromofluorobenzene	2.78		2.308		121	65	140		0		

Sample ID	1803292-002BMS	SampType:	MS	Units:	mg/Kg-dry	Prep Date:	3/27/2018	RunNo:	42555		
Client ID:	B4-17	Batch ID:	20170	Analysis Date:	3/29/2018	SeqNo:	821306				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	37.1	1.64	28.13	3.894	118	70	130				
Aliphatic Hydrocarbon (C6-C8)	201	2.34	9.377	193.9	74.0	70	130				E
Aliphatic Hydrocarbon (C8-C10)	184	1.31	9.377	218.9	-370	70	130				SE
Aliphatic Hydrocarbon (C10-C12)	137	1.41	9.377	212.6	-807	70	130				SE
Aromatic Hydrocarbon (C8-C10)	500	2.81	37.51	453.5	125	70	130				E
Aromatic Hydrocarbon (C10-C12)	281	0.563	9.377	267.7	138	70	130				SE
Aromatic Hydrocarbon (C12-C13)	>50	6.56	9.377	0	0	70	130				SE

Date: 4/5/2018



Work Order: 1803292
 CLIENT: Apex Laboratories
 Project: A8C0745

QC SUMMARY REPORT
Volatile Petroleum Hydrocarbons by NWVPH

Sample ID	1803292-002BMS	SampType:	MS	Units:	mg/Kg-dry	Prep Date:	3/27/2018	RunNo:	42555		
Client ID:	B4-17	Batch ID:	20170	Analysis Date:	3/29/2018	SeqNo:	821306				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	10.2	0.563	9.377	0	109	70	130				
Toluene	31.6	0.656	9.377	21.46	108	70	130				
Ethylbenzene	46.6	0.656	9.377	36.16	111	70	130				
m,p-Xylene	162	1.22	18.75	140.8	113	70	130				
o-Xylene	68.8	0.563	9.377	57.44	121	70	130				
Naphthalene	29.4	0.469	9.377	19.93	101	70	130				
Methyl tert-butyl ether (MTBE)	8.53	0.469	9.377	0	91.0	70	130				
Surr: 1,4-Difluorobenzene	4.39		2.344		187	65	140				S
Surr: Bromofluorobenzene	5.61		2.344		239	65	140				S

NOTES:

S - Analyte concentration was too high for accurate spike recovery(ies).

S - Outlying surrogate recovery attributed to TPH interference. The method is in control as indicated by the Method Blank (MB) & Laboratory Control Sample (LCS).

E - Estimated value. The amount exceeds the linear working range of the instrument.

>50 - Analyte concentration exceeds the linear working range of the instrument.

Sample ID	1803292-002BMSD	SampType:	MSD	Units:	mg/Kg-dry	Prep Date:	3/27/2018	RunNo:	42555		
Client ID:	B4-17	Batch ID:	20170	Analysis Date:	3/29/2018	SeqNo:	821307				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	36.9	1.64	28.13	3.894	117	70	130	37.12	0.656	30	
Aliphatic Hydrocarbon (C6-C8)	207	2.34	9.377	193.9	136	70	130	200.9	2.86	30	SE
Aliphatic Hydrocarbon (C8-C10)	200	1.31	9.377	218.9	-201	70	130	184.2	8.26	30	SE
Aliphatic Hydrocarbon (C10-C12)	171	1.41	9.377	212.6	-444	70	130	137.0	22.1	30	SE
Aromatic Hydrocarbon (C8-C10)	498	2.81	37.51	453.5	120	70	130	500.3	0.367	30	E
Aromatic Hydrocarbon (C10-C12)	285	0.563	9.377	267.7	182	70	130	280.6	1.46	30	SE
Aromatic Hydrocarbon (C12-C13)	>50	6.56	9.377	0	0	70	130	0		30	SE
Benzene	10.8	0.563	9.377	0	115	70	130	10.23	5.65	30	
Toluene	31.8	0.656	9.377	21.46	110	70	130	31.62	0.501	30	
Ethylbenzene	46.6	0.656	9.377	36.16	111	70	130	46.57	0.0615	30	
m,p-Xylene	162	1.22	18.75	140.8	111	70	130	161.9	0.213	30	
o-Xylene	69.0	0.563	9.377	57.44	123	70	130	68.83	0.227	30	

Work Order: 1803292
CLIENT: Apex Laboratories
Project: A8C0745

QC SUMMARY REPORT
Volatile Petroleum Hydrocarbons by NWVPH

Sample ID 1803292-002BMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 3/27/2018	RunNo: 42555							
Client ID: B4-17	Batch ID: 20170		Analysis Date: 3/29/2018	SeqNo: 821307							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	30.0	0.469	9.377	19.93	107	70	130	29.36	2.03	30	
Methyl tert-butyl ether (MTBE)	8.36	0.469	9.377	0	89.1	70	130	8.530	2.05	30	
Surr: 1,4-Difluorobenzene	2.52		2.344		108	65	140		0		
Surr: Bromofluorobenzene	3.32		2.344		142	65	140		0		S

NOTES:

- >50 - Analyte concentration exceeds the linear working range of the instrument.
- S - Analyte concentration was too high for accurate spike recovery(ies).
- S - Outlying surrogate recovery attributed to TPH interference. The method is in control as indicated by the Method Blank (MB) & Laboratory Control Sample (LCS).
- E - Estimated value. The amount exceeds the linear working range of the instrument.

Sample ID 1803292-001BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 3/27/2018	RunNo: 42555							
Client ID: B2-19	Batch ID: 20170		Analysis Date: 3/29/2018	SeqNo: 821314							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aliphatic Hydrocarbon (C6-C8)	42.0	23.1		0	0			62.46	39.2	25	D
Aliphatic Hydrocarbon (C8-C10)	47.9	12.9		0	0			52.16	8.59	25	D
Aliphatic Hydrocarbon (C10-C12)	67.3	13.8		0	0			68.17	1.25	25	D
Aromatic Hydrocarbon (C8-C10)	105	27.7		0	0			82.23	24.4	25	D
Aromatic Hydrocarbon (C10-C12)	88.7	5.54		0	0			68.28	26.1	25	DR
Aromatic Hydrocarbon (C12-C13)	92.0	64.6		0	0			93.91	2.08	25	D
Surr: 1,4-Difluorobenzene	24.0		23.08		104	65	140		0		D
Surr: Bromofluorobenzene	26.8		23.08		116	65	140		0		D

NOTES:

- R - High RPD observed. The method is in control as indicated by the LCS.

Sample ID 1803292-001BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 3/27/2018	RunNo: 42555							
Client ID: B2-19	Batch ID: 20170		Analysis Date: 3/29/2018	SeqNo: 821315							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Toluene	1.15	0.646		0	0			1.133	1.10	25	
Ethylbenzene	2.26	0.646		0	0			2.216	1.89	25	
m,p-Xylene	2.01	1.20		0	0			1.972	2.02	25	



Work Order: 1803292
CLIENT: Apex Laboratories
Project: A8C0745

QC SUMMARY REPORT
Volatile Petroleum Hydrocarbons by NWVPH

Sample ID 1803292-001BDUP	SampType: DUP	Units: mg/Kg-dry		Prep Date: 3/27/2018	RunNo: 42555						
Client ID: B2-19	Batch ID: 20170			Analysis Date: 3/29/2018	SeqNo: 821315						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	1.02	0.554		0	0			0.9849	3.15	25	
Surr: 1,4-Difluorobenzene	2.85		2.308		124	65	140		0		
Surr: Bromofluorobenzene	2.89		2.308		125	65	140		0		



Sample Log-In Check List

Client Name: **APEX**Work Order Number: **1803292**Logged by: **Brianna Barnes**Date Received: **3/22/2018 1:40:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? UPS

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Required
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of $>0^{\circ}\text{C}$ to 10.0°C^* ? Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Cooler	1.4
Sample	1.9
Temp Blank	2.4

* Note: DoD/ELAP and TNI require items to be received at $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$

SUBCONTRACT ORDER

3/20/18

97 of 97

Apex Laboratories

A8C0745

1803292

SENDING LABORATORY:

Apex Laboratories
12232 S.W. Garden Place
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 718-0333
Project Manager: Kevin J. Friscia

RECEIVING LABORATORY:

Fremont Analytical
3600 Fremont Avenue N.
Seattle, WA 98103
Phone : (206) 352-3790
Fax: (206) 352-7178


Sample Name: B2-19 **Soil** **Sampled: 03/15/18 16:10** (A8C0745-12)


Analysis	Due	Expires	Comments
NWTPH-EPH (Sub)	03/30/18 17:00	03/29/18 16:10	
NWTPH-VPH (Sub)	03/30/18 17:00	03/29/18 16:10	
<i>Containers Supplied:</i>			
(B)8 oz Glass Jar			
(E)40 mL VOA - 5035 (MeOH)			
(F)40 mL VOA - 5035 (MeOH)			

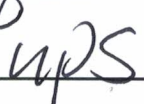
Sample Name: B4-17 **Soil** **Sampled: 03/16/18 12:05** (A8C0745-23)

Analysis	Due	Expires	Comments
NWTPH-EPH (Sub)	03/30/18 17:00	03/30/18 12:05	
NWTPH-VPH (Sub)	03/30/18 17:00	03/30/18 12:05	
<i>Containers Supplied:</i>			
(B)8 oz Glass Jar			
(E)40 mL VOA - 5035 (MeOH)			
(F)40 mL VOA - 5035 (MeOH)			

Standard TAT

Released By  Date 3/21/18

Received By  Date 3/22/18 1340

Released By  Date

Received By Date

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Friday, April 27, 2018

Chris Rhea
EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

RE: Debocks Texaco / 2093-01

Enclosed are the results of analyses for work order A8D0239, which was received by the laboratory on 4/6/2018 at 11:30:00AM.

Thank you for using Apex Labs. We appreciate your business and strive to provide the highest quality services to the environmental industry.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: KFriscia@apex-labs.com, or by phone at 503-718-2323.

Apex Laboratories



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Kevin J. Friscia, Project Manager

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B6-3	A8D0239-01	Soil	04/02/18 12:15	04/06/18 11:30
B7-3	A8D0239-04	Soil	04/02/18 13:45	04/06/18 11:30
B6-15	A8D0239-06	Soil	04/02/18 14:30	04/06/18 11:30
B8-3	A8D0239-08	Soil	04/02/18 14:40	04/06/18 11:30
B6-20	A8D0239-09	Soil	04/02/18 14:45	04/06/18 11:30
B6-17	A8D0239-10	Soil	04/02/18 14:50	04/06/18 11:30
B6-25	A8D0239-11	Soil	04/02/18 15:00	04/06/18 11:30
B7-15	A8D0239-16	Soil	04/02/18 15:45	04/06/18 11:30
B7-20	A8D0239-17	Soil	04/02/18 15:55	04/06/18 11:30
B8-15	A8D0239-19	Soil	04/02/18 16:30	04/06/18 11:30
B8-20	A8D0239-20	Soil	04/02/18 16:35	04/06/18 11:30
B8-25	A8D0239-21	Soil	04/02/18 16:45	04/06/18 11:30
B10-3	A8D0239-24	Soil	04/03/18 08:10	04/06/18 11:30
B10-15	A8D0239-27	Soil	04/03/18 08:40	04/06/18 11:30
B10-20	A8D0239-29	Soil	04/03/18 08:50	04/06/18 11:30
B9-16.5	A8D0239-34	Soil	04/03/18 09:35	04/06/18 11:30
B9-20	A8D0239-35	Soil	04/03/18 09:30	04/06/18 11:30
B11-3	A8D0239-37	Soil	04/03/18 10:10	04/06/18 11:30
B11-16	A8D0239-41	Soil	04/03/18 10:40	04/06/18 11:30
B11-20	A8D0239-42	Soil	04/03/18 10:45	04/06/18 11:30
B12-3	A8D0239-44	Soil	04/03/18 11:00	04/06/18 11:30
B12-10	A8D0239-46	Soil	04/03/18 11:10	04/06/18 11:30
B12-16	A8D0239-47	Soil	04/03/18 12:10	04/06/18 11:30
B12-20	A8D0239-48	Soil	04/03/18 12:15	04/06/18 11:30
B6-W	A8D0239-52	Water	04/03/18 13:05	04/06/18 11:30
B8-W	A8D0239-53	Water	04/03/18 13:20	04/06/18 11:30
B7-W	A8D0239-54	Water	04/03/18 14:00	04/06/18 11:30
B13-15	A8D0239-56	Soil	04/03/18 14:30	04/06/18 11:30
B13-20	A8D0239-58	Soil	04/03/18 14:45	04/06/18 11:30
B13-25	A8D0239-59	Soil	04/03/18 14:50	04/06/18 11:30
B9-W	A8D0239-60	Water	04/03/18 16:30	04/06/18 11:30
B10-W	A8D0239-61	Water	04/04/18 08:00	04/06/18 11:30
B14-3	A8D0239-62	Soil	04/04/18 09:50	04/06/18 11:30
B14-16	A8D0239-65	Soil	04/04/18 10:10	04/06/18 11:30
B15-3	A8D0239-68	Soil	04/04/18 12:45	04/06/18 11:30

Apex Laboratories



Kevin J. Friscia, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris RheaReported:
04/27/18 08:32

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B15-15	A8D0239-71	Soil	04/04/18 13:00	04/06/18 11:30
B15-20	A8D0239-72	Soil	04/04/18 13:05	04/06/18 11:30
B16-3	A8D0239-74	Soil	04/05/18 09:30	04/06/18 11:30
B16-14	A8D0239-78	Soil	04/05/18 09:50	04/06/18 11:30
B16-20	A8D0239-79	Soil	04/05/18 09:55	04/06/18 11:30
B17-3	A8D0239-81	Soil	04/05/18 11:45	04/06/18 11:30
B17-16.5	A8D0239-85	Soil	04/05/18 13:00	04/06/18 11:30
B17-20	A8D0239-86	Soil	04/05/18 12:55	04/06/18 11:30

Apex Laboratories



Kevin J. Friscia, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

ANALYTICAL CASE NARRATIVE

Work Order: A8D0239

Subcontract

This report is not complete without the attached subcontract laboratory report for EPH/VPH from Fremont Analytical.

Kevin Friscia
Project Manager
4/27/2018

Apex Laboratories



Kevin J. Friscia, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
B6-17 (A8D0239-10)			Matrix: Soil		Batch: 8040740			
Diesel	ND	---	25.0	mg/kg dry	1	04/13/18 06:36	NWTPH-Dx	
Oil	ND	---	50.0	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 74 % Limits: 50-150 %</i>					
B9-16.5 (A8D0239-34)			Matrix: Soil		Batch: 8040740			
Diesel	50.8	---	25.0	mg/kg dry	1	04/13/18 06:56	NWTPH-Dx	F-18
Oil	ND	---	50.0	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 86 % Limits: 50-150 %</i>					
B11-16 (A8D0239-41)			Matrix: Soil		Batch: 8040740			
Diesel	ND	---	26.0	mg/kg dry	1	04/13/18 07:17	NWTPH-Dx	
Oil	ND	---	51.9	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 78 % Limits: 50-150 %</i>					
B6-W (A8D0239-52RE1)			Matrix: Water		Batch: 8040699			
Diesel	ND	---	0.194	mg/L	1	04/12/18 10:44	NWTPH-Dx	F-18
Oil	ND	---	0.388	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 101 % Limits: 50-150 %</i>					
B8-W (A8D0239-53RE1)			Matrix: Water		Batch: 8040644			
Diesel	0.317	---	0.190	mg/L	1	04/11/18 08:29	NWTPH-Dx	F-18
Oil	ND	---	0.381	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 96 % Limits: 50-150 %</i>					
B7-W (A8D0239-54RE1)			Matrix: Water		Batch: 8040644			
Diesel	ND	---	0.190	mg/L	1	04/11/18 08:52	NWTPH-Dx	
Oil	ND	---	0.381	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 93 % Limits: 50-150 %</i>					
B9-W (A8D0239-60RE1)			Matrix: Water		Batch: 8040644			
Diesel	0.238	---	0.196	mg/L	1	04/11/18 09:14	NWTPH-Dx	F-18
Oil	ND	---	0.392	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 102 % Limits: 50-150 %</i>					
B10-W (A8D0239-61RE1)			Matrix: Water		Batch: 8040644			
Diesel	0.389	---	0.187	mg/L	1	04/11/18 09:37	NWTPH-Dx	F-18
Oil	ND	---	0.374	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 104 % Limits: 50-150 %</i>					

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris RheaReported:
04/27/18 08:32

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes	
			Limit	Units					
B6-3 (A8D0239-01)			Matrix: Soil		Batch: 8040599				
Gasoline Range Organics	ND	---	6.45	mg/kg dry	50	04/09/18 21:29	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 104 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			100 %	Limits: 50-150 %	"	"	"		
B7-3 (A8D0239-04)			Matrix: Soil		Batch: 8040599				
Gasoline Range Organics	ND	---	6.80	mg/kg dry	50	04/09/18 21:56	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 104 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			100 %	Limits: 50-150 %	"	"	"		
B6-15 (A8D0239-06RE1)			Matrix: Soil		Batch: 8040673				
Gasoline Range Organics	631	---	73.2	mg/kg dry	500	04/11/18 12:13	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 112 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			102 %	Limits: 50-150 %	"	"	"		
B8-3 (A8D0239-08RE1)			Matrix: Soil		Batch: 8040673				
Gasoline Range Organics	ND	---	6.91	mg/kg dry	50	04/11/18 11:46	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 102 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			100 %	Limits: 50-150 %	"	"	"		
B6-20 (A8D0239-09)			Matrix: Soil		Batch: 8040628				
Gasoline Range Organics	1110	---	23.3	mg/kg dry	200	04/10/18 16:42	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 116 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			104 %	Limits: 50-150 %	"	"	"		
B6-17 (A8D0239-10)			Matrix: Soil		Batch: 8040628				
Gasoline Range Organics	206	---	6.13	mg/kg dry	50	04/10/18 14:28	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 114 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			101 %	Limits: 50-150 %	"	"	"		
B6-25 (A8D0239-11)			Matrix: Soil		Batch: 8040914				H-01
Gasoline Range Organics	ND	---	6.11	mg/kg dry	50	04/18/18 13:14	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 106 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			104 %	Limits: 50-150 %	"	"	"		
B7-15 (A8D0239-16RE1)			Matrix: Soil		Batch: 8040673				
Gasoline Range Organics	4190	---	227	mg/kg dry	2000	04/11/18 12:39	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 124 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			104 %	Limits: 50-150 %	"	"	"		
B7-20 (A8D0239-17)			Matrix: Soil		Batch: 8040628				
Gasoline Range Organics	9.49	---	5.58	mg/kg dry	50	04/10/18 15:48	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 108 %	Limits: 50-150 %	1	"	"		

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris RheaReported:
04/27/18 08:32

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes	
			Limit	Units					
B7-20 (A8D0239-17)			Matrix: Soil		Batch: 8040628				
Surrogate: 1,4-Difluorobenzene (Sur)			Recovery: 97 %	Limits: 50-150 %	1	"	NWTPH-Gx (MS)		
B8-15 (A8D0239-19)			Matrix: Soil		Batch: 8040628				
Gasoline Range Organics	141	---	6.69	mg/kg dry	50	04/10/18 16:15	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 124 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			97 %	Limits: 50-150 %	"	"	"		
B8-20 (A8D0239-20)			Matrix: Soil		Batch: 8040628				
Gasoline Range Organics	367	---	6.53	mg/kg dry	50	04/10/18 17:36	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 143 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			101 %	Limits: 50-150 %	"	"	"		
B8-25 (A8D0239-21)			Matrix: Soil		Batch: 8040914				H-01
Gasoline Range Organics	ND	---	5.78	mg/kg dry	50	04/18/18 14:07	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 108 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			106 %	Limits: 50-150 %	"	"	"		
B10-3 (A8D0239-24)			Matrix: Soil		Batch: 8040599				
Gasoline Range Organics	ND	---	7.09	mg/kg dry	50	04/09/18 22:22	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 105 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			100 %	Limits: 50-150 %	"	"	"		
B10-15 (A8D0239-27)			Matrix: Soil		Batch: 8040628				
Gasoline Range Organics	ND	---	6.38	mg/kg dry	50	04/10/18 18:02	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 104 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			96 %	Limits: 50-150 %	"	"	"		
B10-20 (A8D0239-29)			Matrix: Soil		Batch: 8040628				
Gasoline Range Organics	ND	---	6.38	mg/kg dry	50	04/10/18 18:29	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 106 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			97 %	Limits: 50-150 %	"	"	"		
B9-16.5 (A8D0239-34RE1)			Matrix: Soil		Batch: 8040834				
Gasoline Range Organics	6360	---	697	mg/kg dry	5000	04/17/18 19:03	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 123 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			101 %	Limits: 50-150 %	"	"	"		
B9-20 (A8D0239-35)			Matrix: Soil		Batch: 8040628				
Gasoline Range Organics	ND	---	5.43	mg/kg dry	50	04/10/18 19:23	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 101 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			97 %	Limits: 50-150 %	"	"	"		
B11-3 (A8D0239-37)			Matrix: Soil		Batch: 8040628				

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris RheaReported:
04/27/18 08:32

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
B11-3 (A8D0239-37)			Matrix: Soil		Batch: 8040628			
Gasoline Range Organics	ND	---	6.04	mg/kg dry	50	04/10/18 19:50	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 101 %	Limits: 50-150 %	1	"	"	
1,4-Difluorobenzene (Sur)			97 %	Limits: 50-150 %	"	"	"	
B11-16 (A8D0239-41)			Matrix: Soil		Batch: 8040628			
Gasoline Range Organics	52.8	---	7.00	mg/kg dry	50	04/10/18 20:17	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 107 %	Limits: 50-150 %	1	"	"	
1,4-Difluorobenzene (Sur)			101 %	Limits: 50-150 %	"	"	"	
B11-20 (A8D0239-42)			Matrix: Soil		Batch: 8040628			
Gasoline Range Organics	14.7	---	6.08	mg/kg dry	50	04/10/18 20:43	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 103 %	Limits: 50-150 %	1	"	"	
1,4-Difluorobenzene (Sur)			101 %	Limits: 50-150 %	"	"	"	
B12-3 (A8D0239-44)			Matrix: Soil		Batch: 8040673			
Gasoline Range Organics	ND	---	6.18	mg/kg dry	50	04/11/18 13:33	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 100 %	Limits: 50-150 %	1	"	"	
1,4-Difluorobenzene (Sur)			101 %	Limits: 50-150 %	"	"	"	
B12-10 (A8D0239-46)			Matrix: Soil		Batch: 8040673			
Gasoline Range Organics	ND	---	6.54	mg/kg dry	50	04/11/18 14:00	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 101 %	Limits: 50-150 %	1	"	"	
1,4-Difluorobenzene (Sur)			101 %	Limits: 50-150 %	"	"	"	
B12-16 (A8D0239-47RE1)			Matrix: Soil		Batch: 8040723			
Gasoline Range Organics	915	---	12.9	mg/kg dry	100	04/12/18 16:33	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 180 %	Limits: 50-150 %	1	"	"	S-08
1,4-Difluorobenzene (Sur)			108 %	Limits: 50-150 %	"	"	"	
B12-20 (A8D0239-48)			Matrix: Soil		Batch: 8040673			
Gasoline Range Organics	ND	---	5.92	mg/kg dry	50	04/11/18 15:47	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 104 %	Limits: 50-150 %	1	"	"	
1,4-Difluorobenzene (Sur)			101 %	Limits: 50-150 %	"	"	"	
B6-W (A8D0239-52)			Matrix: Water		Batch: 8040627			
Gasoline Range Organics	1.28	---	0.100	mg/L	1	04/10/18 15:37	NWTPH-Gx (MS)	Q-42
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 103 %	Limits: 50-150 %	"	"	"	
1,4-Difluorobenzene (Sur)			104 %	Limits: 50-150 %	"	"	"	
B8-W (A8D0239-53)			Matrix: Water		Batch: 8040627			
Gasoline Range Organics	1.29	---	0.100	mg/L	1	04/10/18 16:31	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 103 %	Limits: 50-150 %	"	"	"	

Apex Laboratories



Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris RheaReported:
04/27/18 08:32

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
B8-W (A8D0239-53)			Matrix: Water		Batch: 8040627			
Surrogate: 1,4-Difluorobenzene (Sur)			Recovery: 104 %	Limits: 50-150 %	1	"	NWTPH-Gx (MS)	
B7-W (A8D0239-54)			Matrix: Water		Batch: 8040627			
Gasoline Range Organics	1.27	---	0.100	mg/L	1	04/10/18 16:58	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 98 %	Limits: 50-150 %	"	"	"	
1,4-Difluorobenzene (Sur)			102 %	Limits: 50-150 %	"	"	"	
B13-15 (A8D0239-56)			Matrix: Soil		Batch: 8040673			
Gasoline Range Organics	ND	---	6.36	mg/kg dry	50	04/11/18 16:40	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 104 %	Limits: 50-150 %	1	"	"	
1,4-Difluorobenzene (Sur)			102 %	Limits: 50-150 %	"	"	"	
B13-20 (A8D0239-58)			Matrix: Soil		Batch: 8040700			
Gasoline Range Organics	4530	---	121	mg/kg dry	1000	04/12/18 00:02	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 169 %	Limits: 50-150 %	1	"	" S-08	
1,4-Difluorobenzene (Sur)			107 %	Limits: 50-150 %	"	"	"	
B13-25 (A8D0239-59)			Matrix: Soil		Batch: 8040673			
Gasoline Range Organics	ND	---	6.30	mg/kg dry	50	04/11/18 17:07	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 102 %	Limits: 50-150 %	1	"	"	
1,4-Difluorobenzene (Sur)			102 %	Limits: 50-150 %	"	"	"	
B9-W (A8D0239-60)			Matrix: Water		Batch: 8040627			
Gasoline Range Organics	0.725	---	0.100	mg/L	1	04/10/18 17:25	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 102 %	Limits: 50-150 %	"	"	"	
1,4-Difluorobenzene (Sur)			100 %	Limits: 50-150 %	"	"	"	
B10-W (A8D0239-61)			Matrix: Water		Batch: 8040627			
Gasoline Range Organics	0.449	---	0.100	mg/L	1	04/10/18 17:52	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 96 %	Limits: 50-150 %	"	"	"	
1,4-Difluorobenzene (Sur)			103 %	Limits: 50-150 %	"	"	"	
B14-3 (A8D0239-62)			Matrix: Soil		Batch: 8040673			
Gasoline Range Organics	ND	---	6.40	mg/kg dry	50	04/11/18 17:34	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 102 %	Limits: 50-150 %	1	"	"	
1,4-Difluorobenzene (Sur)			101 %	Limits: 50-150 %	"	"	"	
B14-16 (A8D0239-65RE1)			Matrix: Soil		Batch: 8040720			
Gasoline Range Organics	108	---	7.05	mg/kg dry	50	04/12/18 13:14	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 158 %	Limits: 50-150 %	1	"	" S-08	
1,4-Difluorobenzene (Sur)			106 %	Limits: 50-150 %	"	"	"	
B15-3 (A8D0239-68)			Matrix: Soil		Batch: 8040673			

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris RheaReported:
04/27/18 08:32

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting			Dilution	Date Analyzed	Method	Notes
			Limit	Units					
B15-3 (A8D0239-68)			Matrix: Soil		Batch: 8040673				
Gasoline Range Organics	ND	---	7.63	mg/kg dry	50	04/11/18 18:01	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 104 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			102 %	Limits: 50-150 %	"	"	"		
B15-15 (A8D0239-71)			Matrix: Soil		Batch: 8040700				
Gasoline Range Organics	7840	---	117	mg/kg dry	1000	04/12/18 02:16	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 169 %	Limits: 50-150 %	1	"	"	S-08	
1,4-Difluorobenzene (Sur)			105 %	Limits: 50-150 %	"	"	"		
B15-20 (A8D0239-72RE1)			Matrix: Soil		Batch: 8040720				
Gasoline Range Organics	318	---	12.3	mg/kg dry	100	04/12/18 14:08	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 145 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			116 %	Limits: 50-150 %	"	"	"		
B16-3 (A8D0239-74)			Matrix: Soil		Batch: 8040700				
Gasoline Range Organics	ND	---	6.95	mg/kg dry	50	04/12/18 03:36	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 106 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			98 %	Limits: 50-150 %	"	"	"		
B16-14 (A8D0239-78RE1)			Matrix: Soil		Batch: 8040720				
Gasoline Range Organics	441	---	12.7	mg/kg dry	100	04/12/18 13:41	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 144 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			109 %	Limits: 50-150 %	"	"	"		
B16-20 (A8D0239-79)			Matrix: Soil		Batch: 8040700				
Gasoline Range Organics	34.4	---	7.93	mg/kg dry	50	04/12/18 04:03	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 113 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			101 %	Limits: 50-150 %	"	"	"		
B17-3 (A8D0239-81)			Matrix: Soil		Batch: 8040914				
Gasoline Range Organics	ND	---	7.60	mg/kg dry	50	04/18/18 14:34	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 105 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			105 %	Limits: 50-150 %	"	"	"		
B17-16.5 (A8D0239-85RE1)			Matrix: Soil		Batch: 8040957				
Gasoline Range Organics	670	---	29.7	mg/kg dry	200	04/18/18 20:59	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 108 %	Limits: 50-150 %	1	"	"		
1,4-Difluorobenzene (Sur)			102 %	Limits: 50-150 %	"	"	"		
B17-20 (A8D0239-86)			Matrix: Soil		Batch: 8040914				
Gasoline Range Organics	ND	---	7.91	mg/kg dry	50	04/18/18 15:27	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur)			Recovery: 108 %	Limits: 50-150 %	1	"	"		

Apex Laboratories



Kevin J. Friscia, Project Manager

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Reported: 04/27/18 08:32
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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B17-20 (A8D0239-86)			Matrix: Soil		Batch: 8040914			
<i>Surrogate: 1,4-Difluorobenzene (Sur)</i>			<i>Recovery: 107 %</i>	<i>Limits: 50-150 %</i>	1	"	NWTPH-Gx (MS)	

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris RheaReported:
04/27/18 08:32

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting			Dilution	Date Analyzed	Method	Notes
			Limit	Units					
B6-3 (A8D0239-01)			Matrix: Soil			Batch: 8040599			
Benzene	ND	---	12.9	ug/kg dry	50	04/09/18 21:29	5035A/8260C		
Toluene	ND	---	64.5	"	"	"	"		
Ethylbenzene	ND	---	32.2	"	"	"	"		
Xylenes, total	ND	---	96.7	"	"	"	"		
Naphthalene	ND	---	129	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 104 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B7-3 (A8D0239-04)			Matrix: Soil			Batch: 8040599			
Benzene	ND	---	13.6	ug/kg dry	50	04/09/18 21:56	5035A/8260C		
Toluene	ND	---	68.0	"	"	"	"		
Ethylbenzene	ND	---	34.0	"	"	"	"		
Xylenes, total	ND	---	102	"	"	"	"		
Naphthalene	ND	---	136	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 105 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>98 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B6-15 (A8D0239-06)			Matrix: Soil			Batch: 8040628			
Benzene	ND	---	14.6	ug/kg dry	50	04/10/18 13:08	5035A/8260C		
Toluene	ND	---	73.2	"	"	"	"		
Ethylbenzene	1090	---	36.6	"	"	"	"	Q-42	
Xylenes, total	6630	---	110	"	"	"	"	Q-42	
Naphthalene	2730	---	146	"	"	"	"	Q-42	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 100 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>104 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B8-3 (A8D0239-08)			Matrix: Soil			Batch: 8040628			
Benzene	ND	---	13.8	ug/kg dry	50	04/10/18 14:01	5035A/8260C		
Toluene	ND	---	69.1	"	"	"	"		
Ethylbenzene	ND	---	34.6	"	"	"	"		
Xylenes, total	ND	---	104	"	"	"	"		
Naphthalene	ND	---	138	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 101 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>99 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>101 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B6-20 (A8D0239-09)			Matrix: Soil			Batch: 8040628			

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris RheaReported:
04/27/18 08:32

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes	
			Limit	Units					
B6-20 (A8D0239-09)			Matrix: Soil		Batch: 8040628				
Benzene	53.6	---	46.6	ug/kg dry	200	04/10/18 16:42	5035A/8260C		
Toluene	ND	---	233	"	"	"	"		
Ethylbenzene	5430	---	117	"	"	"	"		
Xylenes, total	11500	---	350	"	"	"	"		
Naphthalene	2680	---	466	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 101 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>100 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B6-17 (A8D0239-10)			Matrix: Soil		Batch: 8040628				
Benzene	26.3	---	12.3	ug/kg dry	50	04/10/18 14:28	5035A/8260C		
Toluene	76.6	---	61.3	"	"	"	"		
Ethylbenzene	1480	---	30.6	"	"	"	"		
Xylenes, total	5970	---	91.9	"	"	"	"		
Naphthalene	863	---	123	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 100 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B6-25 (A8D0239-11)			Matrix: Soil		Batch: 8040914				H-01
Benzene	ND	---	12.2	ug/kg dry	50	04/18/18 13:14	5035A/8260C		
Toluene	ND	---	61.1	"	"	"	"		
Ethylbenzene	ND	---	30.6	"	"	"	"		
Xylenes, total	ND	---	91.7	"	"	"	"		
Naphthalene	ND	---	122	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 105 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>102 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>98 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B7-15 (A8D0239-16)			Matrix: Soil		Batch: 8040628				
Benzene	ND	---	45.4	ug/kg dry	200	04/10/18 17:09	5035A/8260C		
Toluene	ND	---	227	"	"	"	"		
Ethylbenzene	2500	---	113	"	"	"	"		
Xylenes, total	5210	---	340	"	"	"	"		
Naphthalene	7570	---	454	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 100 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>102 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>102 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B7-20 (A8D0239-17)			Matrix: Soil		Batch: 8040628				

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Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes	
			Limit	Units					
B7-20 (A8D0239-17)			Matrix: Soil		Batch: 8040628				
Benzene	ND	---	11.2	ug/kg dry	50	04/10/18 15:48	5035A/8260C		
Toluene	ND	---	55.8	"	"	"	"		
Ethylbenzene	ND	---	27.9	"	"	"	"		
Xylenes, total	ND	---	83.8	"	"	"	"		
Naphthalene	ND	---	112	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>99 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B8-15 (A8D0239-19)			Matrix: Soil		Batch: 8040628				
Benzene	ND	---	13.4	ug/kg dry	50	04/10/18 16:15	5035A/8260C		
Toluene	ND	---	66.9	"	"	"	"		
Ethylbenzene	ND	---	33.4	"	"	"	"		
Xylenes, total	ND	---	100	"	"	"	"		
Naphthalene	233	---	134	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 101 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>99 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B8-20 (A8D0239-20)			Matrix: Soil		Batch: 8040628				
Benzene	ND	---	13.1	ug/kg dry	50	04/10/18 17:36	5035A/8260C		
Toluene	ND	---	65.3	"	"	"	"		
Ethylbenzene	1210	---	32.6	"	"	"	"		
Xylenes, total	2860	---	97.9	"	"	"	"		
Naphthalene	599	---	131	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 100 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>100 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B8-25 (A8D0239-21)			Matrix: Soil		Batch: 8040914				H-01
Benzene	ND	---	11.6	ug/kg dry	50	04/18/18 14:07	5035A/8260C		
Toluene	ND	---	57.8	"	"	"	"		
Ethylbenzene	ND	---	28.9	"	"	"	"		
Xylenes, total	ND	---	86.7	"	"	"	"		
Naphthalene	ND	---	116	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 106 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>102 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>97 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B10-3 (A8D0239-24)			Matrix: Soil		Batch: 8040599				

Apex Laboratories



Kevin J. Friscia, Project Manager

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12232 S.W. Garden Place
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EES Environmental Inc
240 N Broadway Ste 203
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Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting			Dilution	Date Analyzed	Method	Notes
			Limit	Units					
B10-3 (A8D0239-24)			Matrix: Soil			Batch: 8040599			
Benzene	ND	---	14.2	ug/kg dry	50	04/09/18 22:22	5035A/8260C		
Toluene	ND	---	70.9	"	"	"	"		
Ethylbenzene	ND	---	35.4	"	"	"	"		
Xylenes, total	ND	---	106	"	"	"	"		
Naphthalene	ND	---	142	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 104 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>97 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B10-15 (A8D0239-27)			Matrix: Soil			Batch: 8040628			
Benzene	ND	---	12.8	ug/kg dry	50	04/10/18 18:02	5035A/8260C		
Toluene	ND	---	63.8	"	"	"	"		
Ethylbenzene	ND	---	31.9	"	"	"	"		
Xylenes, total	ND	---	95.7	"	"	"	"		
Naphthalene	ND	---	128	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 101 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>98 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B10-20 (A8D0239-29)			Matrix: Soil			Batch: 8040628			
Benzene	ND	---	12.8	ug/kg dry	50	04/10/18 18:29	5035A/8260C		
Toluene	ND	---	63.8	"	"	"	"		
Ethylbenzene	ND	---	31.9	"	"	"	"		
Xylenes, total	ND	---	95.6	"	"	"	"		
Naphthalene	ND	---	128	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B9-16.5 (A8D0239-34)			Matrix: Soil			Batch: 8040834			
Benzene	ND	---	139	ug/kg dry	500	04/17/18 17:42	5035A/8260C		
Toluene	ND	---	697	"	"	"	"		
Ethylbenzene	15000	---	349	"	"	"	"		
Xylenes, total	60600	---	1050	"	"	"	"		
Naphthalene	11100	---	1390	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>104 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B9-20 (A8D0239-35)			Matrix: Soil			Batch: 8040628			

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240 N Broadway Ste 203
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Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
B9-20 (A8D0239-35)			Matrix: Soil		Batch: 8040628			
Benzene	ND	---	10.9	ug/kg dry	50	04/10/18 19:23	5035A/8260C	
Toluene	ND	---	54.3	"	"	"	"	
Ethylbenzene	41.3	---	27.2	"	"	"	"	
Xylenes, total	ND	---	81.5	"	"	"	"	
Naphthalene	ND	---	109	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>	1	"	"	
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>98 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
B11-3 (A8D0239-37)			Matrix: Soil		Batch: 8040628			
Benzene	ND	---	12.1	ug/kg dry	50	04/10/18 19:50	5035A/8260C	
Toluene	ND	---	60.4	"	"	"	"	
Ethylbenzene	ND	---	30.2	"	"	"	"	
Xylenes, total	ND	---	90.6	"	"	"	"	
Naphthalene	ND	---	121	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 101 %</i>	<i>Limits: 80-120 %</i>	1	"	"	
<i>Toluene-d8 (Surr)</i>			<i>99 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>98 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
B11-16 (A8D0239-41)			Matrix: Soil		Batch: 8040628			
Benzene	ND	---	14.0	ug/kg dry	50	04/10/18 20:17	5035A/8260C	
Toluene	ND	---	70.0	"	"	"	"	
Ethylbenzene	107	---	35.0	"	"	"	"	
Xylenes, total	614	---	105	"	"	"	"	
Naphthalene	342	---	140	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>	1	"	"	
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>100 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
B11-20 (A8D0239-42)			Matrix: Soil		Batch: 8040628			
Benzene	ND	---	12.2	ug/kg dry	50	04/10/18 20:43	5035A/8260C	
Toluene	ND	---	60.8	"	"	"	"	
Ethylbenzene	364	---	30.4	"	"	"	"	
Xylenes, total	1510	---	91.2	"	"	"	"	
Naphthalene	128	---	122	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>	1	"	"	
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>98 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
B12-3 (A8D0239-44)			Matrix: Soil		Batch: 8040673			

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Kevin J. Friscia, Project Manager

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Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting			Dilution	Date Analyzed	Method	Notes
			Limit	Units					
B12-3 (A8D0239-44)			Matrix: Soil			Batch: 8040673			
Benzene	ND	---	12.4	ug/kg dry	50	04/11/18 13:33	5035A/8260C		
Toluene	ND	---	61.8	"	"	"	"		
Ethylbenzene	ND	---	30.9	"	"	"	"		
Xylenes, total	ND	---	92.6	"	"	"	"		
Naphthalene	ND	---	124	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 105 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>102 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B12-10 (A8D0239-46)			Matrix: Soil			Batch: 8040673			
Benzene	ND	---	13.1	ug/kg dry	50	04/11/18 14:00	5035A/8260C		
Toluene	ND	---	65.4	"	"	"	"		
Ethylbenzene	ND	---	32.7	"	"	"	"		
Xylenes, total	ND	---	98.1	"	"	"	"		
Naphthalene	ND	---	131	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 105 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>103 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>98 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B12-16 (A8D0239-47RE1)			Matrix: Soil			Batch: 8040723			
Benzene	ND	---	25.8	ug/kg dry	100	04/12/18 16:33	5035A/8260C		
Toluene	ND	---	129	"	"	"	"		
Ethylbenzene	393	---	64.4	"	"	"	"		
Xylenes, total	ND	---	193	"	"	"	"		
Naphthalene	1780	---	258	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 104 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>102 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>97 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B12-20 (A8D0239-48)			Matrix: Soil			Batch: 8040673			
Benzene	ND	---	11.8	ug/kg dry	50	04/11/18 15:47	5035A/8260C		
Toluene	ND	---	59.2	"	"	"	"		
Ethylbenzene	ND	---	29.6	"	"	"	"		
Xylenes, total	ND	---	88.8	"	"	"	"		
Naphthalene	ND	---	118	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 104 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>97 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B13-15 (A8D0239-56)			Matrix: Soil			Batch: 8040673			

Apex Laboratories



Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting			Dilution	Date Analyzed	Method	Notes
			Limit	Units					
B13-15 (A8D0239-56)			Matrix: Soil			Batch: 8040673			
Benzene	ND	---	12.7	ug/kg dry	50	04/11/18 16:40	5035A/8260C		
Toluene	ND	---	63.6	"	"	"	"		
Ethylbenzene	ND	---	31.8	"	"	"	"		
Xylenes, total	ND	---	95.4	"	"	"	"		
Naphthalene	ND	---	127	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 105 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>102 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>97 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B13-20 (A8D0239-58)			Matrix: Soil			Batch: 8040700			
Benzene	ND	---	242	ug/kg dry	1000	04/12/18 00:02	5035A/8260C		
Toluene	ND	---	1210	"	"	"	"		
Ethylbenzene	3820	---	604	"	"	"	"		
Xylenes, total	6060	---	1810	"	"	"	"		
Naphthalene	2460	---	2420	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 105 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>96 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>102 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B13-25 (A8D0239-59)			Matrix: Soil			Batch: 8040673			
Benzene	ND	---	12.6	ug/kg dry	50	04/11/18 17:07	5035A/8260C		
Toluene	ND	---	63.0	"	"	"	"		
Ethylbenzene	ND	---	31.5	"	"	"	"		
Xylenes, total	ND	---	94.5	"	"	"	"		
Naphthalene	ND	---	126	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 106 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>102 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>97 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B14-3 (A8D0239-62)			Matrix: Soil			Batch: 8040673			
Benzene	ND	---	12.8	ug/kg dry	50	04/11/18 17:34	5035A/8260C		
Toluene	ND	---	64.0	"	"	"	"		
Ethylbenzene	ND	---	32.0	"	"	"	"		
Xylenes, total	ND	---	96.0	"	"	"	"		
Naphthalene	ND	---	128	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 105 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>102 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>97 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B14-16 (A8D0239-65RE1)			Matrix: Soil			Batch: 8040720			

Apex Laboratories



Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
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Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting			Dilution	Date Analyzed	Method	Notes
			Limit	Units					
B14-16 (A8D0239-65RE1)			Matrix: Soil			Batch: 8040720			
Benzene	ND	---	14.1	ug/kg dry	50	04/12/18 13:14	5035A/8260C		
Toluene	ND	---	70.5	"	"	"	"		
Ethylbenzene	ND	---	35.3	"	"	"	"		
Xylenes, total	ND	---	106	"	"	"	"		
Naphthalene	ND	---	141	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 108 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>88 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>104 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B15-3 (A8D0239-68)			Matrix: Soil			Batch: 8040673			
Benzene	ND	---	15.3	ug/kg dry	50	04/11/18 18:01	5035A/8260C		
Toluene	ND	---	76.3	"	"	"	"		
Ethylbenzene	ND	---	38.2	"	"	"	"		
Xylenes, total	ND	---	114	"	"	"	"		
Naphthalene	ND	---	153	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 105 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>102 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>98 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B15-15 (A8D0239-71)			Matrix: Soil			Batch: 8040700			
Benzene	ND	---	235	ug/kg dry	1000	04/12/18 02:16	5035A/8260C		
Toluene	ND	---	1170	"	"	"	"		
Ethylbenzene	16000	---	586	"	"	"	"		
Xylenes, total	39200	---	1760	"	"	"	"		
Naphthalene	23500	---	2350	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 101 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>98 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>101 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B15-20 (A8D0239-72RE1)			Matrix: Soil			Batch: 8040720			
Benzene	ND	---	24.5	ug/kg dry	100	04/12/18 14:08	5035A/8260C	R-04	
Toluene	ND	---	123	"	"	"	"		
Ethylbenzene	ND	---	61.3	"	"	"	"		
Xylenes, total	ND	---	184	"	"	"	"		
Naphthalene	ND	---	245	"	"	"	"		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 106 %</i>	<i>Limits: 80-120 %</i>	1	"	"		
<i>Toluene-d8 (Surr)</i>			<i>95 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
<i>4-Bromofluorobenzene (Surr)</i>			<i>105 %</i>	<i>Limits: 80-120 %</i>	"	"	"		
B16-3 (A8D0239-74)			Matrix: Soil			Batch: 8040700			

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240 N Broadway Ste 203
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Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
B16-3 (A8D0239-74)			Matrix: Soil		Batch: 8040700			
Benzene	ND	---	13.9	ug/kg dry	50	04/12/18 03:36	5035A/8260C	
Toluene	ND	---	69.5	"	"	"	"	
Ethylbenzene	ND	---	34.7	"	"	"	"	
Xylenes, total	ND	---	104	"	"	"	"	
Naphthalene	ND	---	139	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 103 %</i>	<i>Limits: 80-120 %</i>	1	"	"	
<i>Toluene-d8 (Surr)</i>			<i>96 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>102 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
B16-14 (A8D0239-78RE1)			Matrix: Soil		Batch: 8040720			
Benzene	ND	---	25.3	ug/kg dry	100	04/12/18 13:41	5035A/8260C	
Toluene	ND	---	127	"	"	"	"	
Ethylbenzene	1130	---	63.3	"	"	"	"	
Xylenes, total	3390	---	190	"	"	"	"	
Naphthalene	1790	---	253	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 107 %</i>	<i>Limits: 80-120 %</i>	1	"	"	
<i>Toluene-d8 (Surr)</i>			<i>94 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>104 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
B16-20 (A8D0239-79)			Matrix: Soil		Batch: 8040700			
Benzene	ND	---	15.9	ug/kg dry	50	04/12/18 04:03	5035A/8260C	
Toluene	ND	---	79.3	"	"	"	"	
Ethylbenzene	ND	---	39.7	"	"	"	"	
Xylenes, total	ND	---	119	"	"	"	"	
Naphthalene	ND	---	159	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 104 %</i>	<i>Limits: 80-120 %</i>	1	"	"	
<i>Toluene-d8 (Surr)</i>			<i>95 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>104 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
B17-3 (A8D0239-81)			Matrix: Soil		Batch: 8040914			
Benzene	ND	---	15.2	ug/kg dry	50	04/18/18 14:34	5035A/8260C	
Toluene	ND	---	76.0	"	"	"	"	
Ethylbenzene	ND	---	38.0	"	"	"	"	
Xylenes, total	ND	---	114	"	"	"	"	
Naphthalene	ND	---	152	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 105 %</i>	<i>Limits: 80-120 %</i>	1	"	"	
<i>Toluene-d8 (Surr)</i>			<i>104 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>97 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
B17-16.5 (A8D0239-85RE1)			Matrix: Soil		Batch: 8040957			

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Kevin J. Friscia, Project Manager

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Reported: 04/27/18 08:32
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ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
B17-16.5 (A8D0239-85RE1)			Matrix: Soil		Batch: 8040957			
Benzene	65.3	---	59.3	ug/kg dry	200	04/18/18 20:59	5035A/8260C	
Toluene	1220	---	297	"	"	"	"	
Ethylbenzene	5450	---	148	"	"	"	"	
Xylenes, total	25800	---	445	"	"	"	"	
Naphthalene	1960	---	593	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 101 %</i>	<i>Limits: 80-120 %</i>	1	"	"	
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
B17-20 (A8D0239-86)			Matrix: Soil		Batch: 8040914			
Benzene	ND	---	15.8	ug/kg dry	50	04/18/18 15:27	5035A/8260C	
Toluene	ND	---	79.1	"	"	"	"	
Ethylbenzene	ND	---	39.6	"	"	"	"	
Xylenes, total	ND	---	119	"	"	"	"	
Naphthalene	ND	---	158	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 106 %</i>	<i>Limits: 80-120 %</i>	1	"	"	
<i>Toluene-d8 (Surr)</i>			<i>102 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>97 %</i>	<i>Limits: 80-120 %</i>	"	"	"	

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Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

ANALYTICAL SAMPLE RESULTS

RBDM Compounds (BTEX+) by EPA 8260C

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
B6-W (A8D0239-52)			Matrix: Water		Batch: 8040627			
Benzene	6.09	---	0.200	ug/L	1	04/10/18 15:37	EPA 8260C	
1,2-Dibromoethane (EDB)	ND	---	0.500	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	---	0.500	"	"	"	"	
Ethylbenzene	36.4	---	0.500	"	"	"	"	Q-42
Methyl tert-butyl ether (MTBE)	ND	---	1.00	"	"	"	"	
Naphthalene	4.29	---	2.00	"	"	"	"	
Toluene	5.24	---	1.00	"	"	"	"	
Xylenes, total	125	---	1.50	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 107 %</i>		<i>Limits: 80-120 %</i>		"	"
<i>Toluene-d8 (Surr)</i>			<i>99 %</i>		<i>Limits: 80-120 %</i>		"	"
<i>4-Bromofluorobenzene (Surr)</i>			<i>92 %</i>		<i>Limits: 80-120 %</i>		"	"
B8-W (A8D0239-53)			Matrix: Water		Batch: 8040627			
Benzene	0.257	---	0.200	ug/L	1	04/10/18 16:31	EPA 8260C	
1,2-Dibromoethane (EDB)	ND	---	0.500	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	---	0.500	"	"	"	"	
Ethylbenzene	38.7	---	0.500	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	"	"	"	"	
Naphthalene	5.17	---	2.00	"	"	"	"	
Toluene	13.0	---	1.00	"	"	"	"	
Xylenes, total	67.8	---	1.50	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 105 %</i>		<i>Limits: 80-120 %</i>		"	"
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>		<i>Limits: 80-120 %</i>		"	"
<i>4-Bromofluorobenzene (Surr)</i>			<i>91 %</i>		<i>Limits: 80-120 %</i>		"	"
B7-W (A8D0239-54)			Matrix: Water		Batch: 8040627			
Benzene	ND	---	0.200	ug/L	1	04/10/18 16:58	EPA 8260C	
1,2-Dibromoethane (EDB)	ND	---	0.500	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	---	0.500	"	"	"	"	
Ethylbenzene	28.2	---	0.500	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	"	"	"	"	
Naphthalene	6.22	---	2.00	"	"	"	"	
Toluene	1.38	---	1.00	"	"	"	"	
Xylenes, total	40.3	---	1.50	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 105 %</i>		<i>Limits: 80-120 %</i>		"	"
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>		<i>Limits: 80-120 %</i>		"	"
<i>4-Bromofluorobenzene (Surr)</i>			<i>94 %</i>		<i>Limits: 80-120 %</i>		"	"
B9-W (A8D0239-60)			Matrix: Water		Batch: 8040627			

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Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

ANALYTICAL SAMPLE RESULTS

RBDM Compounds (BTEX+) by EPA 8260C

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
B9-W (A8D0239-60)			Matrix: Water		Batch: 8040627			
Benzene	ND	---	0.200	ug/L	1	04/10/18 17:25	EPA 8260C	
1,2-Dibromoethane (EDB)	ND	---	0.500	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	---	0.500	"	"	"	"	
Ethylbenzene	17.5	---	0.500	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	"	"	"	"	
Naphthalene	ND	---	2.00	"	"	"	"	
Toluene	2.26	---	1.00	"	"	"	"	
Xylenes, total	39.2	---	1.50	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 103 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>96 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
B10-W (A8D0239-61)			Matrix: Water		Batch: 8040627			
Benzene	ND	---	0.200	ug/L	1	04/10/18 17:52	EPA 8260C	
1,2-Dibromoethane (EDB)	ND	---	0.500	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	---	0.500	"	"	"	"	
Ethylbenzene	ND	---	0.500	"	"	"	"	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	"	"	"	"	
Naphthalene	ND	---	2.00	"	"	"	"	
Toluene	3.93	---	1.00	"	"	"	"	
Xylenes, total	ND	---	1.50	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 105 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>Limits: 80-120 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>96 %</i>	<i>Limits: 80-120 %</i>	"	"	"	

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Kevin J. Friscia, Project Manager

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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B7-15 (A8D0239-16) Matrix: Soil								
Batch: 8040989								
Lead	8.51	---	0.263	mg/kg dry	10	04/19/18 22:16	EPA 6020A	
B12-16 (A8D0239-47) Matrix: Soil								
Batch: 8040989								
Lead	7.61	---	0.288	mg/kg dry	10	04/19/18 22:21	EPA 6020A	

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Reported: 04/27/18 08:32
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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B6-W (A8D0239-52) Matrix: Water								
Batch: 8040897								
Lead	28.0	---	0.200	ug/L	1	04/18/18 00:47	EPA 200.8	
B8-W (A8D0239-53RE1) Matrix: Water								
Batch: 8040897								
Lead	26.2	---	2.00	ug/L	10	04/18/18 18:45	EPA 200.8	
B7-W (A8D0239-54RE1) Matrix: Water								
Batch: 8040897								
Lead	27.4	---	2.00	ug/L	10	04/18/18 18:52	EPA 200.8	
B9-W (A8D0239-60) Matrix: Water								
Batch: 8040897								
Lead	10.5	---	0.200	ug/L	1	04/18/18 01:06	EPA 200.8	
B10-W (A8D0239-61) Matrix: Water								
Batch: 8040897								
Lead	4.29	---	0.200	ug/L	1	04/18/18 01:10	EPA 200.8	

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Kevin J. Friscia, Project Manager

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ANALYTICAL SAMPLE RESULTS

Dissolved Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B6-W (A8D0239-52) Matrix: Water								
Batch: 8040878								
Lead	1.13	---	0.200	ug/L	1	04/18/18 17:40	EPA 200.8 (Diss)	
B8-W (A8D0239-53) Matrix: Water								
Batch: 8040878								
Lead	ND	---	0.200	ug/L	1	04/18/18 17:45	EPA 200.8 (Diss)	
B7-W (A8D0239-54) Matrix: Water								
Batch: 8040878								
Lead	0.257	---	0.200	ug/L	1	04/18/18 17:50	EPA 200.8 (Diss)	
B9-W (A8D0239-60) Matrix: Water								
Batch: 8040878								
Lead	ND	---	0.200	ug/L	1	04/18/18 18:33	EPA 200.8 (Diss)	
B10-W (A8D0239-61) Matrix: Water								
Batch: 8040878								
Lead	ND	---	0.200	ug/L	1	04/18/18 18:38	EPA 200.8 (Diss)	

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting			Date Analyzed	Method	Notes
			Limit	Units	Dilution			
B6-3 (A8D0239-01)			Matrix: Soil		Batch: 8040635			
% Solids	87.2	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B7-3 (A8D0239-04)			Matrix: Soil		Batch: 8040635			
% Solids	84.9	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B6-15 (A8D0239-06)			Matrix: Soil		Batch: 8040635			
% Solids	81.4	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B8-3 (A8D0239-08)			Matrix: Soil		Batch: 8040635			
% Solids	84.6	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B6-20 (A8D0239-09)			Matrix: Soil		Batch: 8040635			
% Solids	78.6	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B6-17 (A8D0239-10)			Matrix: Soil		Batch: 8040635			
% Solids	77.0	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B6-25 (A8D0239-11)			Matrix: Soil		Batch: 8040931			
% Solids	78.8	---	1.00	% by Weight	1	04/19/18 08:56	EPA 8000C	
B7-15 (A8D0239-16)			Matrix: Soil		Batch: 8040635			
% Solids	80.3	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B7-20 (A8D0239-17)			Matrix: Soil		Batch: 8040635			
% Solids	79.9	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B8-15 (A8D0239-19)			Matrix: Soil		Batch: 8040635			
% Solids	86.0	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B8-20 (A8D0239-20)			Matrix: Soil		Batch: 8040635			
% Solids	77.8	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B8-25 (A8D0239-21)			Matrix: Soil		Batch: 8040931			
% Solids	79.3	---	1.00	% by Weight	1	04/19/18 08:56	EPA 8000C	
B10-3 (A8D0239-24)			Matrix: Soil		Batch: 8040635			
% Solids	84.6	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B10-15 (A8D0239-27)			Matrix: Soil		Batch: 8040635			
% Solids	77.8	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B10-20 (A8D0239-29)			Matrix: Soil		Batch: 8040635			
% Solids	77.5	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B9-16.5 (A8D0239-34)			Matrix: Soil		Batch: 8040635			
% Solids	77.0	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting			Date Analyzed	Method	Notes
			Limit	Units	Dilution			
B9-20 (A8D0239-35)			Matrix: Soil		Batch: 8040635			
% Solids	82.0	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B11-3 (A8D0239-37)			Matrix: Soil		Batch: 8040635			
% Solids	86.9	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B11-16 (A8D0239-41)			Matrix: Soil		Batch: 8040635			
% Solids	72.9	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B11-20 (A8D0239-42)			Matrix: Soil		Batch: 8040635			
% Solids	80.3	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B12-3 (A8D0239-44)			Matrix: Soil		Batch: 8040635			
% Solids	88.3	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B12-10 (A8D0239-46)			Matrix: Soil		Batch: 8040635			
% Solids	84.9	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B12-16 (A8D0239-47)			Matrix: Soil		Batch: 8040635			
% Solids	76.6	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B12-20 (A8D0239-48)			Matrix: Soil		Batch: 8040635			
% Solids	80.4	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B13-15 (A8D0239-56)			Matrix: Soil		Batch: 8040635			
% Solids	77.6	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B13-20 (A8D0239-58)			Matrix: Soil		Batch: 8040635			
% Solids	79.6	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B13-25 (A8D0239-59)			Matrix: Soil		Batch: 8040635			
% Solids	80.0	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B14-3 (A8D0239-62)			Matrix: Soil		Batch: 8040635			
% Solids	89.1	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B14-16 (A8D0239-65)			Matrix: Soil		Batch: 8040635			
% Solids	77.5	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B15-3 (A8D0239-68)			Matrix: Soil		Batch: 8040635			
% Solids	84.2	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B15-15 (A8D0239-71)			Matrix: Soil		Batch: 8040635			
% Solids	79.3	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B15-20 (A8D0239-72)			Matrix: Soil		Batch: 8040635			
% Solids	80.6	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	

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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
B16-3 (A8D0239-74)			Matrix: Soil		Batch: 8040635			
% Solids	87.3	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B16-14 (A8D0239-78)			Matrix: Soil		Batch: 8040635			
% Solids	79.5	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B16-20 (A8D0239-79)			Matrix: Soil		Batch: 8040635			
% Solids	75.1	---	1.00	% by Weight	1	04/11/18 09:08	EPA 8000C	
B17-3 (A8D0239-81)			Matrix: Soil		Batch: 8040931			
% Solids	87.4	---	1.00	% by Weight	1	04/19/18 08:56	EPA 8000C	
B17-16.5 (A8D0239-85)			Matrix: Soil		Batch: 8040931			
% Solids	77.5	---	1.00	% by Weight	1	04/19/18 08:56	EPA 8000C	
B17-20 (A8D0239-86)			Matrix: Soil		Batch: 8040931			
% Solids	78.5	---	1.00	% by Weight	1	04/19/18 08:56	EPA 8000C	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040644 - EPA 3510C (Fuels/Acid Ext.)						Water						
Blank (8040644-BLK1)						Prepared: 04/10/18 12:37 Analyzed: 04/11/18 00:27						
NWTPH-Dx												
Diesel	ND	---	0.182	mg/L	1	---	---	---	---	---	---	
Oil	ND	---	0.364	"	"	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>			Recovery: 95 %		Limits: 50-150 %		Dilution: 1x					
LCS (8040644-BS1)						Prepared: 04/10/18 12:37 Analyzed: 04/11/18 00:50						
NWTPH-Dx												
Diesel	1.16	---	0.200	mg/L	1	1.25	---	93	58-115	---	---	
<i>Surr: o-Terphenyl (Surr)</i>			Recovery: 101 %		Limits: 50-150 %		Dilution: 1x					
LCS Dup (8040644-BSD1)						Prepared: 04/10/18 12:37 Analyzed: 04/11/18 01:13						
NWTPH-Dx												
Diesel	1.13	---	0.200	mg/L	1	1.25	---	90	58-115	3	20%	Q-19
<i>Surr: o-Terphenyl (Surr)</i>			Recovery: 99 %		Limits: 50-150 %		Dilution: 1x					
Batch 8040699 - EPA 3510C (Fuels/Acid Ext.)						Water						
Blank (8040699-BLK1)						Prepared: 04/11/18 14:44 Analyzed: 04/11/18 22:50						
NWTPH-Dx												
Diesel	ND	---	0.182	mg/L	1	---	---	---	---	---	---	
Oil	ND	---	0.364	"	"	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>			Recovery: 94 %		Limits: 50-150 %		Dilution: 1x					
LCS (8040699-BS1)						Prepared: 04/11/18 14:44 Analyzed: 04/11/18 23:13						
NWTPH-Dx												
Diesel	0.877	---	0.200	mg/L	1	1.25	---	70	58-115	---	---	
<i>Surr: o-Terphenyl (Surr)</i>			Recovery: 96 %		Limits: 50-150 %		Dilution: 1x					
LCS Dup (8040699-BSD1)						Prepared: 04/11/18 14:44 Analyzed: 04/11/18 23:36						
NWTPH-Dx												
Diesel	0.919	---	0.200	mg/L	1	1.25	---	74	58-115	5	20%	
<i>Surr: o-Terphenyl (Surr)</i>			Recovery: 98 %		Limits: 50-150 %		Dilution: 1x					

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Kevin J. Friscia, Project Manager

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040740 - EPA 3546 (Fuels)						Soil						
Blank (8040740-BLK1)						Prepared: 04/12/18 13:16 Analyzed: 04/12/18 22:13						
NWTPH-Dx												
Diesel	ND	---	25.0	mg/kg wet	1	---	---	---	---	---	---	---
Oil	ND	---	50.0	"	"	---	---	---	---	---	---	---
<i>Surr: o-Terphenyl (Surr)</i>			Recovery: 87 %		Limits: 50-150 %		Dilution: 1x					
LCS (8040740-BS1)						Prepared: 04/12/18 13:16 Analyzed: 04/12/18 22:34						
NWTPH-Dx												
Diesel	110	---	25.0	mg/kg wet	1	125	---	88	76-115	---	---	---
<i>Surr: o-Terphenyl (Surr)</i>			Recovery: 92 %		Limits: 50-150 %		Dilution: 1x					
Duplicate (8040740-DUP1)						Prepared: 04/12/18 13:16 Analyzed: 04/12/18 23:37						
QC Source Sample: Other (A8D0237-03)												
NWTPH-Dx												
Diesel	ND	---	25.0	mg/kg dry	1	---	ND	---	---	---	30%	---
Oil	ND	---	50.0	"	"	---	ND	---	---	---	30%	---
<i>Surr: o-Terphenyl (Surr)</i>			Recovery: 86 %		Limits: 50-150 %		Dilution: 1x					
Duplicate (8040740-DUP2)						Prepared: 04/12/18 13:16 Analyzed: 04/13/18 07:38						
QC Source Sample: B11-16 (A8D0239-41)												
NWTPH-Dx												
Diesel	ND	---	26.1	mg/kg dry	1	---	15.0	---	---	31	30%	Q-05
Oil	ND	---	52.1	"	"	---	29.3	---	---	2	30%	---
<i>Surr: o-Terphenyl (Surr)</i>			Recovery: 85 %		Limits: 50-150 %		Dilution: 1x					



EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Reported: 04/27/18 08:32
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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040599 - EPA 5035A						Soil						
Blank (8040599-BLK1)						Prepared: 04/09/18 10:00 Analyzed: 04/09/18 12:40						
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	---
<i>Surr: 4-Bromofluorobenzene (Sur) Recovery: 96 % Limits: 50-150 % Dilution: 1x</i>												
<i>1,4-Difluorobenzene (Sur) 94 % 50-150 % "</i>												
LCS (8040599-BS2)						Prepared: 04/09/18 10:00 Analyzed: 04/09/18 12:13						
NWTPH-Gx (MS)												
Gasoline Range Organics	25.2	---	5.00	mg/kg wet	50	25.0	---	101	80-120	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur) Recovery: 96 % Limits: 50-150 % Dilution: 1x</i>												
<i>1,4-Difluorobenzene (Sur) 94 % 50-150 % "</i>												
Duplicate (8040599-DUP1)						Prepared: 04/02/18 09:30 Analyzed: 04/09/18 18:48						
QC Source Sample: Other (A8D0237-01)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	5.01	mg/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 4-Bromofluorobenzene (Sur) Recovery: 103 % Limits: 50-150 % Dilution: 1x</i>												
<i>1,4-Difluorobenzene (Sur) 97 % 50-150 % "</i>												

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Kevin J. Friscia, Project Manager

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Reported: 04/27/18 08:32
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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch 8040627 - EPA 5030B						Water						
Blank (8040627-BLK1)						Prepared: 04/10/18 08:30 Analyzed: 04/10/18 11:06						
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	0.100	mg/L	1	---	---	---	---	---	---	---
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 93 %</i>				<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>			
<i>1,4-Difluorobenzene (Sur)</i>			<i>101 %</i>				<i>50-150 %</i>		<i>"</i>			
LCS (8040627-BS2)						Prepared: 04/10/18 08:30 Analyzed: 04/10/18 10:39						
NWTPH-Gx (MS)												
Gasoline Range Organics	0.512	---	0.100	mg/L	1	0.500	---	102	80-120	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 98 %</i>				<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>			
<i>1,4-Difluorobenzene (Sur)</i>			<i>103 %</i>				<i>50-150 %</i>		<i>"</i>			
Duplicate (8040627-DUP1)						Prepared: 04/10/18 09:40 Analyzed: 04/10/18 15:10						
QC Source Sample: Other (A8D0268-08)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	0.100	mg/L	1	---	ND	---	---	---	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 94 %</i>				<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>			
<i>1,4-Difluorobenzene (Sur)</i>			<i>103 %</i>				<i>50-150 %</i>		<i>"</i>			
Duplicate (8040627-DUP2)						Prepared: 04/10/18 09:40 Analyzed: 04/10/18 16:04						
QC Source Sample: B6-W (A8D0239-52)												
NWTPH-Gx (MS)												
Gasoline Range Organics	2.09	---	0.100	mg/L	1	---	1.28	---	---	48	30%	Q-17
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 101 %</i>				<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>			
<i>1,4-Difluorobenzene (Sur)</i>			<i>103 %</i>				<i>50-150 %</i>		<i>"</i>			

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch 8040628 - EPA 5035A						Soil						
Blank (8040628-BLK1)						Prepared: 04/10/18 09:00 Analyzed: 04/10/18 11:00						
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 99 %	Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)			97 %	50-150 %		"						
LCS (8040628-BS2)						Prepared: 04/10/18 09:00 Analyzed: 04/10/18 10:34						
NWTPH-Gx (MS)												
Gasoline Range Organics	26.1	---	5.00	mg/kg wet	50	25.0	---	105	80-120	---	---	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 101 %	Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)			98 %	50-150 %		"						
Duplicate (8040628-DUP1)						Prepared: 04/02/18 14:30 Analyzed: 04/10/18 13:34						
QC Source Sample: B6-15 (A8D0239-06)												
NWTPH-Gx (MS)												
Gasoline Range Organics	1030	---	7.09	mg/kg dry	50	---	797	---	---	26	30%	E
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 250 %	Limits: 50-150 %		Dilution: 1x						S-08
1,4-Difluorobenzene (Sur)			101 %	50-150 %		"						
Duplicate (8040628-DUP2)						Prepared: 04/03/18 08:50 Analyzed: 04/10/18 18:56						
QC Source Sample: B10-20 (A8D0239-29)												
NWTPH-Gx (MS)												
Gasoline Range Organics	59.0	---	6.63	mg/kg dry	50	---	ND	---	---	---	30%	Q-04
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 112 %	Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)			103 %	50-150 %		"						

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Reported: 04/27/18 08:32
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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	------	--------------	---------------	-----------	-------------	---------	-----------	-------

Batch 8040673 - EPA 5035A

Soil

Blank (8040673-BLK1) Prepared: 04/11/18 09:34 Analyzed: 04/11/18 11:17

NWTPH-Gx (MS)

Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	---
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			Recovery: 98 %	Limits: 50-150 %			Dilution: 1x					
<i>1,4-Difluorobenzene (Sur)</i>			98 %	50-150 %			"					

LCS (8040673-BS2) Prepared: 04/11/18 09:34 Analyzed: 04/11/18 10:50

NWTPH-Gx (MS)

Gasoline Range Organics	27.4	---	5.00	mg/kg wet	50	25.0	---	110	80-120	---	---	---
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			Recovery: 97 %	Limits: 50-150 %			Dilution: 1x					
<i>1,4-Difluorobenzene (Sur)</i>			99 %	50-150 %			"					

Duplicate (8040673-DUP1) Prepared: 04/03/18 12:15 Analyzed: 04/11/18 16:14

QC Source Sample: B12-20 (A8D0239-48)

NWTPH-Gx (MS)

Gasoline Range Organics	ND	---	5.87	mg/kg dry	50	---	ND	---	---	---	30%	---
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			Recovery: 105 %	Limits: 50-150 %			Dilution: 1x					
<i>1,4-Difluorobenzene (Sur)</i>			101 %	50-150 %			"					

Duplicate (8040673-DUP2) Prepared: 04/04/18 12:45 Analyzed: 04/11/18 18:28

QC Source Sample: B15-3 (A8D0239-68)

NWTPH-Gx (MS)

Gasoline Range Organics	ND	---	7.04	mg/kg dry	50	---	ND	---	---	---	30%	---
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			Recovery: 106 %	Limits: 50-150 %			Dilution: 1x					
<i>1,4-Difluorobenzene (Sur)</i>			103 %	50-150 %			"					

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Reported: 04/27/18 08:32
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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch 8040700 - EPA 5035A						Soil						
Blank (8040700-BLK1)						Prepared: 04/11/18 17:30 Analyzed: 04/11/18 19:05						
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 106 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					
<i>1,4-Difluorobenzene (Sur)</i>			<i>100 %</i>		<i>50-150 %</i>		<i>"</i>					
LCS (8040700-BS2)						Prepared: 04/11/18 17:30 Analyzed: 04/11/18 18:38						
NWTPH-Gx (MS)												
Gasoline Range Organics	23.7	---	5.00	mg/kg wet	50	25.0	---	95	80-120	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 108 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					
<i>1,4-Difluorobenzene (Sur)</i>			<i>101 %</i>		<i>50-150 %</i>		<i>"</i>					
Duplicate (8040700-DUP1)						Prepared: 04/04/18 13:00 Analyzed: 04/12/18 02:43						
QC Source Sample: B15-15 (A8D0239-71)												
NWTPH-Gx (MS)												
Gasoline Range Organics	7540	---	121	mg/kg dry	1000	---	7840	---	---	4	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 170 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					S-08
<i>1,4-Difluorobenzene (Sur)</i>			<i>103 %</i>		<i>50-150 %</i>		<i>"</i>					

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Kevin J. Friscia, Project Manager

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Reported: 04/27/18 08:32
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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch 8040720 - EPA 5035A						Soil						
Blank (8040720-BLK1)						Prepared: 04/12/18 09:00 Analyzed: 04/12/18 11:24						
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	---
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 106 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>100 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (8040720-BS2)						Prepared: 04/12/18 09:00 Analyzed: 04/12/18 10:58						
NWTPH-Gx (MS)												
Gasoline Range Organics	23.5	---	5.00	mg/kg wet	50	25.0	---	94	80-120	---	---	---
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 105 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>100 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (8040720-DUP1)						Prepared: 04/09/18 14:00 Analyzed: 04/12/18 17:17						
QC Source Sample: Other (A8D0320-06)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	6.31	mg/kg dry	50	---	ND	---	---	---	---	30%
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 106 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>102 %</i>		<i>50-150 %</i>		<i>"</i>						

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Reported: 04/27/18 08:32
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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040723 - EPA 5035A						Soil						
Blank (8040723-BLK1)						Prepared: 04/12/18 09:32 Analyzed: 04/12/18 12:36						
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	---
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 99 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					
<i>1,4-Difluorobenzene (Sur)</i>			<i>96 %</i>		<i>50-150 %</i>		<i>"</i>					
LCS (8040723-BS2)						Prepared: 04/12/18 09:32 Analyzed: 04/12/18 12:10						
NWTPH-Gx (MS)												
Gasoline Range Organics	25.0	---	5.00	mg/kg wet	50	25.0	---	100	80-120	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 97 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					
<i>1,4-Difluorobenzene (Sur)</i>			<i>96 %</i>		<i>50-150 %</i>		<i>"</i>					
Duplicate (8040723-DUP1)						Prepared: 04/03/18 12:10 Analyzed: 04/12/18 17:00						
QC Source Sample: B12-16 (A8D0239-47RE1)												
NWTPH-Gx (MS)												
Gasoline Range Organics	1070	---	12.7	mg/kg dry	100	---	915	---	---	15	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 203 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					S-08
<i>1,4-Difluorobenzene (Sur)</i>			<i>109 %</i>		<i>50-150 %</i>		<i>"</i>					

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Reported: 04/27/18 08:32
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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 8040834 - EPA 5035A

Soil

Blank (8040834-BLK1) Prepared: 04/17/18 09:00 Analyzed: 04/17/18 13:39

NWTPH-Gx (MS)

Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			Recovery: 108 %		Limits: 50-150 %		Dilution: 1x					
<i>1,4-Difluorobenzene (Sur)</i>			100 %		50-150 %		"					

LCS (8040834-B55)

Prepared: 04/17/18 09:00 Analyzed: 04/17/18 13:12

NWTPH-Gx (MS)

Gasoline Range Organics	22.8	---	5.00	mg/kg wet	50	25.0	---	91	80-120	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			Recovery: 105 %		Limits: 50-150 %		Dilution: 1x					
<i>1,4-Difluorobenzene (Sur)</i>			101 %		50-150 %		"					

Duplicate (8040834-DUP1)

Prepared: 04/12/18 11:00 Analyzed: 04/17/18 15:27

QC Source Sample: Other (A8D0535-01)

NWTPH-Gx (MS)

Gasoline Range Organics	1170	---	126	mg/kg dry	1000	---	1140	---	---	3	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			Recovery: 140 %		Limits: 50-150 %		Dilution: 1x					
<i>1,4-Difluorobenzene (Sur)</i>			97 %		50-150 %		"					

Duplicate (8040834-DUP2)

Prepared: 04/09/18 08:25 Analyzed: 04/17/18 18:36

QC Source Sample: Other (A8D0538-01)

NWTPH-Gx (MS)

Gasoline Range Organics	ND	---	4.92	mg/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			Recovery: 108 %		Limits: 50-150 %		Dilution: 1x					
<i>1,4-Difluorobenzene (Sur)</i>			97 %		50-150 %		"					

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Kevin J. Friscia, Project Manager

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Reported: 04/27/18 08:32
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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040914 - EPA 5035A						Soil						
Blank (8040914-BLK1)						Prepared: 04/18/18 09:40 Analyzed: 04/18/18 12:20						
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	---
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 103 %</i>						<i>Limits: 50-150 %</i>			<i>Dilution: 1x</i>
<i>1,4-Difluorobenzene (Sur)</i>			<i>102 %</i>						<i>50-150 %</i>			<i>"</i>
LCS (8040914-BS3)						Prepared: 04/18/18 09:40 Analyzed: 04/18/18 11:54						
NWTPH-Gx (MS)												
Gasoline Range Organics	26.0	---	5.00	mg/kg wet	50	25.0	---	104	80-120	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 100 %</i>						<i>Limits: 50-150 %</i>			<i>Dilution: 1x</i>
<i>1,4-Difluorobenzene (Sur)</i>			<i>103 %</i>						<i>50-150 %</i>			<i>"</i>
Duplicate (8040914-DUP1)						Prepared: 04/02/18 15:00 Analyzed: 04/18/18 13:40						
QC Source Sample: B6-25 (A8D0239-11)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	5.80	mg/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 107 %</i>						<i>Limits: 50-150 %</i>			<i>Dilution: 1x</i>
<i>1,4-Difluorobenzene (Sur)</i>			<i>105 %</i>						<i>50-150 %</i>			<i>"</i>

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Reported: 04/27/18 08:32
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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 8040957 - EPA 5035A

Soil

Blank (8040957-BLK1) Prepared: 04/18/18 19:00 Analyzed: 04/18/18 20:22

NWTPH-Gx (MS)

Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			Recovery: 102 %	Limits: 50-150 %		Dilution: 1x						
<i>1,4-Difluorobenzene (Sur)</i>			98 %	50-150 %		"						

LCS (8040957-BS2)

Prepared: 04/18/18 19:00 Analyzed: 04/18/18 19:55

NWTPH-Gx (MS)

Gasoline Range Organics	26.7	---	5.00	mg/kg wet	50	25.0	---	107	80-120	---	---	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			Recovery: 101 %	Limits: 50-150 %		Dilution: 1x						
<i>1,4-Difluorobenzene (Sur)</i>			99 %	50-150 %		"						

Duplicate (8040957-DUP1)

Prepared: 04/18/18 08:40 Analyzed: 04/18/18 22:19

QC Source Sample: Other (A8D0627-01)

NWTPH-Gx (MS)

Gasoline Range Organics	ND	---	6.19	mg/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			Recovery: 101 %	Limits: 50-150 %		Dilution: 1x						
<i>1,4-Difluorobenzene (Sur)</i>			98 %	50-150 %		"						

Duplicate (8040957-DUP2)

Prepared: 04/18/18 11:40 Analyzed: 04/19/18 02:45

QC Source Sample: Other (A8D0627-19)

NWTPH-Gx (MS)

Gasoline Range Organics	ND	---	5.87	mg/kg dry	50	---	ND	---	---	---	30%	
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			Recovery: 104 %	Limits: 50-150 %		Dilution: 1x						
<i>1,4-Difluorobenzene (Sur)</i>			102 %	50-150 %		"						

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris RheaReported:
04/27/18 08:32

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040599 - EPA 5035A												
Soil												
Blank (8040599-BLK1)												
						Prepared: 04/09/18 10:00		Analyzed: 04/09/18 12:40				
5035A/8260C												
Benzene	ND	---	6.67	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	33.3	"	"	---	---	---	---	---	---	
Ethylbenzene	ND	---	16.7	"	"	---	---	---	---	---	---	
Xylenes, total	ND	---	50.0	"	"	---	---	---	---	---	---	
Naphthalene	ND	---	66.7	"	"	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 100 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>80-120 %</i>		<i>"</i>						
LCS (8040599-BS1)												
						Prepared: 04/09/18 10:00		Analyzed: 04/09/18 11:46				
5035A/8260C												
Benzene	951	---	10.0	ug/kg wet	50	1000	---	95	80-120	---	---	
Toluene	998	---	50.0	"	"	"	---	100	"	---	---	
Ethylbenzene	956	---	25.0	"	"	"	---	96	"	---	---	
Xylenes, total	2850	---	75.0	"	"	3000	---	95	"	---	---	
Naphthalene	895	---	100	"	"	1000	---	90	"	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 98 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>97 %</i>	<i>80-120 %</i>		<i>"</i>						
Duplicate (8040599-DUP1)												
						Prepared: 04/02/18 09:30		Analyzed: 04/09/18 18:48				
QC Source Sample: Other (A8D0237-01)												
5035A/8260C												
Benzene	ND	---	10.0	ug/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	---	50.1	"	"	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	25.1	"	"	---	ND	---	---	---	30%	
Xylenes, total	ND	---	75.2	"	"	---	ND	---	---	---	30%	
Naphthalene	ND	---	100	"	"	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 101 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>96 %</i>	<i>80-120 %</i>		<i>"</i>						
Matrix Spike (8040599-MS1)												
						Prepared: 04/03/18 09:30		Analyzed: 04/09/18 19:42				
QC Source Sample: Other (A8D0237-06)												
5035A/8260C												

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Kevin J. Friscia, Project Manager

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Reported: 04/27/18 08:32
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QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040599 - EPA 5035A						Soil						
Matrix Spike (8040599-MS1)						Prepared: 04/03/18 09:30 Analyzed: 04/09/18 19:42						
QC Source Sample: Other (A8D0237-06)												
5035A/8260C												
Benzene	988	---	9.10	ug/kg dry	50	910	ND	109	77-121	---	---	
Toluene	958	---	45.5	"	"	"	ND	105	"	---	---	
Ethylbenzene	936	---	22.7	"	"	"	ND	103	76-122	---	---	
Xylenes, total	2870	---	68.2	"	"	2730	ND	105	78-124	---	---	
Naphthalene	930	---	91.0	"	"	910	ND	102	62-129	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 103 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>97 %</i>	<i>80-120 %</i>		<i>"</i>						

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12232 S.W. Garden Place
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503-718-2323 Phone
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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040628 - EPA 5035A												
Soil												
Blank (8040628-BLK1)												
						Prepared: 04/10/18 09:00			Analyzed: 04/10/18 11:00			
5035A/8260C												
Benzene	ND	---	6.67	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	33.3	"	"	---	---	---	---	---	---	
Ethylbenzene	ND	---	16.7	"	"	---	---	---	---	---	---	
Xylenes, total	ND	---	50.0	"	"	---	---	---	---	---	---	
Naphthalene	ND	---	66.7	"	"	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>96 %</i>	<i>80-120 %</i>		<i>"</i>						
LCS (8040628-BS1)												
						Prepared: 04/10/18 09:00			Analyzed: 04/10/18 10:07			
5035A/8260C												
Benzene	1010	---	10.0	ug/kg wet	50	1000	---	101	80-120	---	---	
Toluene	1030	---	50.0	"	"	"	---	103	"	---	---	
Ethylbenzene	995	---	25.0	"	"	"	---	100	"	---	---	
Xylenes, total	2970	---	75.0	"	"	3000	---	99	"	---	---	
Naphthalene	930	---	100	"	"	1000	---	93	"	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 100 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>97 %</i>	<i>80-120 %</i>		<i>"</i>						
Duplicate (8040628-DUP1)												
						Prepared: 04/02/18 14:30			Analyzed: 04/10/18 13:34			
QC Source Sample: B6-15 (A8D0239-06)												
5035A/8260C												
Benzene	ND	---	14.2	ug/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	---	70.9	"	"	---	ND	---	---	---	30%	Q-05
Ethylbenzene	1520	---	35.5	"	"	---	1090	---	---	33	30%	Q-04
Xylenes, total	9070	---	106	"	"	---	6630	---	---	31	30%	Q-04
Naphthalene	3600	---	142	"	"	---	2730	---	---	28	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 101 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>102 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>105 %</i>	<i>80-120 %</i>		<i>"</i>						
Duplicate (8040628-DUP2)												
						Prepared: 04/03/18 08:50			Analyzed: 04/10/18 18:56			
QC Source Sample: B10-20 (A8D0239-29)												
5035A/8260C												

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Kevin J. Friscia, Project Manager

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12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040628 - EPA 5035A												
Soil												
Duplicate (8040628-DUP2)						Prepared: 04/03/18 08:50 Analyzed: 04/10/18 18:56						
QC Source Sample: B10-20 (A8D0239-29)												
5035A/8260C												
Benzene	ND	---	13.3	ug/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	---	66.3	"	"	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	33.1	"	"	---	ND	---	---	---	30%	
Xylenes, total	ND	---	99.4	"	"	---	ND	---	---	---	30%	
Naphthalene	ND	---	133	"	"	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 101 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>99 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>98 %</i>	<i>80-120 %</i>		<i>"</i>						

Matrix Spike (8040628-MS1)						Prepared: 04/02/18 14:50 Analyzed: 04/10/18 14:55						
QC Source Sample: B6-17 (A8D0239-10)												
5035A/8260C												
Benzene	1290	---	12.3	ug/kg dry	50	1230	26.3	103	77-121	---	---	
Toluene	1340	---	61.3	"	"	"	76.6	103	"	---	---	
Ethylbenzene	2620	---	30.6	"	"	"	1480	93	76-122	---	---	
Xylenes, total	9250	---	91.9	"	"	3680	5970	89	78-124	---	---	
Naphthalene	2110	---	123	"	"	1230	863	102	62-129	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 100 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>101 %</i>	<i>80-120 %</i>		<i>"</i>						

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris RheaReported:
04/27/18 08:32

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040673 - EPA 5035A						Soil						
Blank (8040673-BLK1)						Prepared: 04/11/18 09:34 Analyzed: 04/11/18 11:17						
5035A/8260C												
Benzene	ND	---	6.67	ug/kg wet	50	---	---	---	---	---	---	---
Toluene	ND	---	33.3	"	"	---	---	---	---	---	---	---
Ethylbenzene	ND	---	16.7	"	"	---	---	---	---	---	---	---
Xylenes, total	ND	---	50.0	"	"	---	---	---	---	---	---	---
Naphthalene	ND	---	66.7	"	"	---	---	---	---	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 103 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>103 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>98 %</i>	<i>80-120 %</i>		<i>"</i>						
LCS (8040673-BS1)						Prepared: 04/11/18 09:34 Analyzed: 04/11/18 10:23						
5035A/8260C												
Benzene	1090	---	10.0	ug/kg wet	50	1000	---	109	80-120	---	---	---
Toluene	1090	---	50.0	"	"	"	---	109	"	---	---	---
Ethylbenzene	1050	---	25.0	"	"	"	---	105	"	---	---	---
Xylenes, total	3150	---	75.0	"	"	3000	---	105	"	---	---	---
Naphthalene	988	---	100	"	"	1000	---	99	"	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>102 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>95 %</i>	<i>80-120 %</i>		<i>"</i>						
Duplicate (8040673-DUP1)						Prepared: 04/03/18 12:15 Analyzed: 04/11/18 16:14						
QC Source Sample: B12-20 (A8D0239-48)												
5035A/8260C												
Benzene	ND	---	11.7	ug/kg dry	50	---	ND	---	---	---	30%	---
Toluene	ND	---	58.7	"	"	---	ND	---	---	---	30%	---
Ethylbenzene	ND	---	29.3	"	"	---	ND	---	---	---	30%	---
Xylenes, total	ND	---	88.0	"	"	---	ND	---	---	---	30%	---
Naphthalene	ND	---	117	"	"	---	ND	---	---	---	30%	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 104 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>96 %</i>	<i>80-120 %</i>		<i>"</i>						
Duplicate (8040673-DUP2)						Prepared: 04/04/18 12:45 Analyzed: 04/11/18 18:28						
QC Source Sample: B15-3 (A8D0239-68)												
5035A/8260C												

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Kevin J. Friscia, Project Manager

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Reported: 04/27/18 08:32
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QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040673 - EPA 5035A						Soil						
Duplicate (8040673-DUP2)						Prepared: 04/04/18 12:45 Analyzed: 04/11/18 18:28						
QC Source Sample: B15-3 (A8D0239-68)												
5035A/8260C												
Benzene	ND	---	14.1	ug/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	---	70.4	"	"	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	35.2	"	"	---	ND	---	---	---	30%	
Xylenes, total	ND	---	106	"	"	---	ND	---	---	---	30%	
Naphthalene	ND	---	141	"	"	---	ND	---	---	---	30%	

<i>Surr: 1,4-Difluorobenzene (Surr)</i>	<i>Recovery: 107 %</i>	<i>Limits: 80-120 %</i>	<i>Dilution: 1x</i>
<i>Toluene-d8 (Surr)</i>	<i>101 %</i>	<i>80-120 %</i>	<i>"</i>
<i>4-Bromofluorobenzene (Surr)</i>	<i>98 %</i>	<i>80-120 %</i>	<i>"</i>

Matrix Spike (8040673-MS1) Prepared: 04/11/18 15:20 Analyzed: 04/11/18 21:08 V-15

QC Source Sample: Other (A8D0365-01)												
5035A/8260C												
Benzene	1310	---	12.8	ug/kg dry	50	1270	ND	102	77-121	---	---	
Toluene	1280	---	63.8	"	"	"	ND	101	"	---	---	
Ethylbenzene	1250	---	31.9	"	"	"	ND	98	76-122	---	---	
Xylenes, total	3780	---	95.7	"	"	3820	ND	99	78-124	---	---	
Naphthalene	1210	---	128	"	"	1270	ND	95	62-129	---	---	

<i>Surr: 1,4-Difluorobenzene (Surr)</i>	<i>Recovery: 101 %</i>	<i>Limits: 80-120 %</i>	<i>Dilution: 1x</i>
<i>Toluene-d8 (Surr)</i>	<i>99 %</i>	<i>80-120 %</i>	<i>"</i>
<i>4-Bromofluorobenzene (Surr)</i>	<i>100 %</i>	<i>80-120 %</i>	<i>"</i>

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040700 - EPA 5035A						Soil						
Blank (8040700-BLK1)						Prepared: 04/11/18 17:30 Analyzed: 04/11/18 19:05						
5035A/8260C												
Benzene	ND	---	6.67	ug/kg wet	50	---	---	---	---	---	---	---
Toluene	ND	---	33.3	"	"	---	---	---	---	---	---	---
Ethylbenzene	ND	---	16.7	"	"	---	---	---	---	---	---	---
Xylenes, total	ND	---	50.0	"	"	---	---	---	---	---	---	---
Naphthalene	ND	---	66.7	"	"	---	---	---	---	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 104 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>97 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>103 %</i>	<i>80-120 %</i>		<i>"</i>						
LCS (8040700-BS1)						Prepared: 04/11/18 17:30 Analyzed: 04/11/18 18:09						
5035A/8260C												
Benzene	1060	---	10.0	ug/kg wet	50	1000	---	106	80-120	---	---	---
Toluene	955	---	50.0	"	"	"	---	95	"	---	---	---
Ethylbenzene	1030	---	25.0	"	"	"	---	103	"	---	---	---
Xylenes, total	3260	---	75.0	"	"	3000	---	109	"	---	---	---
Naphthalene	895	---	100	"	"	1000	---	89	"	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 103 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>96 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>101 %</i>	<i>80-120 %</i>		<i>"</i>						
Duplicate (8040700-DUP1)						Prepared: 04/04/18 13:00 Analyzed: 04/12/18 02:43						
QC Source Sample: B15-15 (A8D0239-71)												
5035A/8260C												
Benzene	ND	---	243	ug/kg dry	1000	---	ND	---	---	---	30%	---
Toluene	ND	---	1210	"	"	---	ND	---	---	---	30%	---
Ethylbenzene	13900	---	607	"	"	---	16000	---	---	14	30%	---
Xylenes, total	34000	---	1820	"	"	---	39200	---	---	14	30%	---
Naphthalene	19700	---	2430	"	"	---	23500	---	---	17	30%	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 103 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>98 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>103 %</i>	<i>80-120 %</i>		<i>"</i>						
Matrix Spike (8040700-MS1)						Prepared: 04/09/18 12:00 Analyzed: 04/12/18 05:23						
QC Source Sample: Other (A8D0320-01)												
5035A/8260C												

Apex Laboratories



Kevin J. Friscia, Project Manager

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Reported: 04/27/18 08:32
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QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040700 - EPA 5035A						Soil						
Matrix Spike (8040700-MS1)						Prepared: 04/09/18 12:00 Analyzed: 04/12/18 05:23						
QC Source Sample: Other (A8D0320-01)												
5035A/8260C												
Benzene	1250	---	12.1	ug/kg dry	50	1210	ND	103	77-121	---	---	
Toluene	1110	---	60.7	"	"	"	ND	92	"	---	---	
Ethylbenzene	1210	---	30.3	"	"	"	ND	99	76-122	---	---	
Xylenes, total	3810	---	91.0	"	"	3640	ND	105	78-124	---	---	
Naphthalene	976	---	121	"	"	1210	ND	80	62-129	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>94 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>80-120 %</i>		<i>"</i>						

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris RheaReported:
04/27/18 08:32

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040720 - EPA 5035A						Soil						
Blank (8040720-BLK1)						Prepared: 04/12/18 09:00 Analyzed: 04/12/18 11:24						
5035A/8260C												
Benzene	ND	---	6.67	ug/kg wet	50	---	---	---	---	---	---	---
Toluene	ND	---	33.3	"	"	---	---	---	---	---	---	---
Ethylbenzene	ND	---	16.7	"	"	---	---	---	---	---	---	---
Xylenes, total	ND	---	50.0	"	"	---	---	---	---	---	---	---
Naphthalene	ND	---	66.7	"	"	---	---	---	---	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 104 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>98 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>104 %</i>	<i>80-120 %</i>		<i>"</i>						
LCS (8040720-BS1)						Prepared: 04/12/18 09:00 Analyzed: 04/12/18 10:31						
5035A/8260C												
Benzene	1050	---	10.0	ug/kg wet	50	1000	---	105	80-120	---	---	---
Toluene	948	---	50.0	"	"	"	---	95	"	---	---	---
Ethylbenzene	1020	---	25.0	"	"	"	---	102	"	---	---	---
Xylenes, total	3190	---	75.0	"	"	3000	---	106	"	---	---	---
Naphthalene	869	---	100	"	"	1000	---	87	"	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 103 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>97 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>101 %</i>	<i>80-120 %</i>		<i>"</i>						
Duplicate (8040720-DUP1)						Prepared: 04/09/18 14:00 Analyzed: 04/12/18 17:17						
QC Source Sample: Other (A8D0320-06)												
5035A/8260C												
Benzene	ND	---	12.6	ug/kg dry	50	---	ND	---	---	---	30%	---
Toluene	ND	---	63.1	"	"	---	ND	---	---	---	30%	---
Ethylbenzene	ND	---	31.5	"	"	---	ND	---	---	---	30%	---
Xylenes, total	ND	---	94.6	"	"	---	ND	---	---	---	30%	---
Naphthalene	ND	---	126	"	"	---	ND	---	---	---	30%	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 105 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>97 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>101 %</i>	<i>80-120 %</i>		<i>"</i>						
Matrix Spike (8040720-MS1)						Prepared: 04/09/18 17:00 Analyzed: 04/12/18 18:11						
QC Source Sample: Other (A8D0320-14)												
5035A/8260C												

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Kevin J. Friscia, Project Manager

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Reported: 04/27/18 08:32
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QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040720 - EPA 5035A						Soil						
Matrix Spike (8040720-MS1)						Prepared: 04/09/18 17:00 Analyzed: 04/12/18 18:11						
QC Source Sample: Other (A8D0320-14)												
5035A/8260C												
Benzene	1450	---	13.5	ug/kg dry	50	1350	ND	107	77-121	---	---	
Toluene	1300	---	67.4	"	"	"	ND	97	"	---	---	
Ethylbenzene	1350	---	33.7	"	"	"	ND	101	76-122	---	---	
Xylenes, total	4240	---	101	"	"	4040	ND	105	78-124	---	---	
Naphthalene	1060	---	135	"	"	1350	ND	79	62-129	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 104 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>95 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>97 %</i>	<i>80-120 %</i>		<i>"</i>						

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris RheaReported:
04/27/18 08:32

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040723 - EPA 5035A												
Soil												
Blank (8040723-BLK1)												
						Prepared: 04/12/18 09:32		Analyzed: 04/12/18 12:36				
5035A/8260C												
Benzene	ND	---	6.67	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	33.3	"	"	---	---	---	---	---	---	
Ethylbenzene	ND	---	16.7	"	"	---	---	---	---	---	---	
Xylenes, total	ND	---	50.0	"	"	---	---	---	---	---	---	
Naphthalene	ND	---	66.7	"	"	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 101 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>98 %</i>	<i>80-120 %</i>		<i>"</i>						
LCS (8040723-BS1)												
						Prepared: 04/12/18 09:32		Analyzed: 04/12/18 11:29				
5035A/8260C												
Benzene	1040	---	10.0	ug/kg wet	50	1000	---	104	80-120	---	---	
Toluene	1060	---	50.0	"	"	"	---	106	"	---	---	
Ethylbenzene	1040	---	25.0	"	"	"	---	104	"	---	---	
Xylenes, total	3070	---	75.0	"	"	3000	---	102	"	---	---	
Naphthalene	962	---	100	"	"	1000	---	96	"	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 100 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>96 %</i>	<i>80-120 %</i>		<i>"</i>						
Duplicate (8040723-DUP1)												
						Prepared: 04/03/18 12:10		Analyzed: 04/12/18 17:00				
QC Source Sample: B12-16 (A8D0239-47RE1)												
5035A/8260C												
Benzene	ND	---	25.3	ug/kg dry	100	---	ND	---	---	---	30%	
Toluene	ND	---	127	"	"	---	ND	---	---	---	30%	
Ethylbenzene	419	---	63.3	"	"	---	393	---	---	6	30%	
Xylenes, total	ND	---	190	"	"	---	ND	---	---	---	30%	
Naphthalene	2090	---	253	"	"	---	1780	---	---	16	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 103 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>101 %</i>	<i>80-120 %</i>		<i>"</i>						
Matrix Spike (8040723-MS1)												
						Prepared: 04/03/18 12:10		Analyzed: 04/12/18 17:27				
QC Source Sample: B12-16 (A8D0239-47RE1)												
5035A/8260C												

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Kevin J. Friscia, Project Manager

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Reported: 04/27/18 08:32
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QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040723 - EPA 5035A						Soil						
Matrix Spike (8040723-MS1)						Prepared: 04/03/18 12:10 Analyzed: 04/12/18 17:27						
QC Source Sample: B12-16 (A8D0239-47RE1)												
5035A/8260C												
Benzene	2830	---	25.8	ug/kg dry	100	2580	ND	110	77-121	---	---	
Toluene	2850	---	129	"	"	"	ND	111	"	---	---	
Ethylbenzene	3080	---	64.4	"	"	"	393	104	76-122	---	---	
Xylenes, total	8370	---	193	"	"	7730	ND	108	78-124	---	---	
Naphthalene	4470	---	258	"	"	2580	1780	104	62-129	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>103 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>80-120 %</i>		<i>"</i>						

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris RheaReported:
04/27/18 08:32

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040834 - EPA 5035A						Soil						
Blank (8040834-BLK1)						Prepared: 04/17/18 09:00 Analyzed: 04/17/18 13:39						
5035A/8260C												
Benzene	ND	---	6.67	ug/kg wet	50	---	---	---	---	---	---	---
Toluene	ND	---	33.3	"	"	---	---	---	---	---	---	---
Ethylbenzene	ND	---	16.7	"	"	---	---	---	---	---	---	---
Xylenes, total	ND	---	50.0	"	"	---	---	---	---	---	---	---
Naphthalene	ND	---	66.7	"	"	---	---	---	---	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 103 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>97 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>104 %</i>	<i>80-120 %</i>		<i>"</i>						
LCS (8040834-BS4)						Prepared: 04/17/18 09:00 Analyzed: 04/17/18 12:36						
5035A/8260C												
Benzene	1090	---	10.0	ug/kg wet	50	1000	---	109	80-120	---	---	---
Toluene	966	---	50.0	"	"	"	---	97	"	---	---	---
Ethylbenzene	1050	---	25.0	"	"	"	---	105	"	---	---	---
Xylenes, total	3260	---	75.0	"	"	3000	---	109	"	---	---	---
Naphthalene	821	---	100	"	"	1000	---	82	"	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 101 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>96 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>100 %</i>	<i>80-120 %</i>		<i>"</i>						
Duplicate (8040834-DUP1)						Prepared: 04/12/18 11:00 Analyzed: 04/17/18 15:27						
QC Source Sample: Other (A8D0535-01)												
5035A/8260C												
Benzene	ND	---	251	ug/kg dry	1000	---	ND	---	---	---	30%	---
Toluene	ND	---	1260	"	"	---	ND	---	---	---	30%	---
Ethylbenzene	ND	---	628	"	"	---	ND	---	---	---	30%	---
Xylenes, total	ND	---	1880	"	"	---	ND	---	---	---	30%	---
Naphthalene	ND	---	2510	"	"	---	ND	---	---	---	30%	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 99 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>89 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>103 %</i>	<i>80-120 %</i>		<i>"</i>						
Duplicate (8040834-DUP2)						Prepared: 04/09/18 08:25 Analyzed: 04/17/18 18:36						
QC Source Sample: Other (A8D0538-01)												
5035A/8260C												

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Kevin J. Friscia, Project Manager

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Reported: 04/27/18 08:32
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QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040834 - EPA 5035A												
Soil												
Duplicate (8040834-DUP2)						Prepared: 04/09/18 08:25 Analyzed: 04/17/18 18:36						
QC Source Sample: Other (A8D0538-01)												
5035A/8260C												
Benzene	ND	---	9.84	ug/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	---	49.2	"	"	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	24.6	"	"	---	ND	---	---	---	30%	
Xylenes, total	ND	---	73.8	"	"	---	ND	---	---	---	30%	
Naphthalene	ND	---	98.4	"	"	---	ND	---	---	---	30%	

<i>Surr: 1,4-Difluorobenzene (Surr)</i>	<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>	<i>Dilution: 1x</i>
<i>Toluene-d8 (Surr)</i>	<i>95 %</i>	<i>80-120 %</i>	<i>"</i>
<i>4-Bromofluorobenzene (Surr)</i>	<i>106 %</i>	<i>80-120 %</i>	<i>"</i>

Matrix Spike (8040834-MS1)						Prepared: 04/11/18 09:25 Analyzed: 04/17/18 23:58						
QC Source Sample: Other (A8D0538-11)												
5035A/8260C												
Benzene	921	---	9.32	ug/kg dry	50	932	ND	99	77-121	---	---	
Toluene	828	---	46.6	"	"	"	ND	89	"	---	---	
Ethylbenzene	888	---	23.3	"	"	"	ND	95	76-122	---	---	
Xylenes, total	2770	---	69.9	"	"	2790	ND	99	78-124	---	---	
Naphthalene	690	---	93.2	"	"	932	ND	74	62-129	---	---	

<i>Surr: 1,4-Difluorobenzene (Surr)</i>	<i>Recovery: 100 %</i>	<i>Limits: 80-120 %</i>	<i>Dilution: 1x</i>
<i>Toluene-d8 (Surr)</i>	<i>95 %</i>	<i>80-120 %</i>	<i>"</i>
<i>4-Bromofluorobenzene (Surr)</i>	<i>101 %</i>	<i>80-120 %</i>	<i>"</i>

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040914 - EPA 5035A												
Soil												
Blank (8040914-BLK1)												
						Prepared: 04/18/18 09:40		Analyzed: 04/18/18 12:20				
5035A/8260C												
Benzene	ND	---	6.67	ug/kg wet	50	---	---	---	---	---	---	
Toluene	ND	---	33.3	"	"	---	---	---	---	---	---	
Ethylbenzene	ND	---	16.7	"	"	---	---	---	---	---	---	
Xylenes, total	ND	---	50.0	"	"	---	---	---	---	---	---	
Naphthalene	ND	---	66.7	"	"	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 104 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>102 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>97 %</i>	<i>80-120 %</i>		<i>"</i>						
LCS (8040914-BS2)												
						Prepared: 04/18/18 09:40		Analyzed: 04/18/18 11:27				
5035A/8260C												
Benzene	1030	---	10.0	ug/kg wet	50	1000	---	103	80-120	---	---	
Toluene	992	---	50.0	"	"	"	---	99	"	---	---	
Ethylbenzene	970	---	25.0	"	"	"	---	97	"	---	---	
Xylenes, total	2910	---	75.0	"	"	3000	---	97	"	---	---	
Naphthalene	888	---	100	"	"	1000	---	89	"	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>96 %</i>	<i>80-120 %</i>		<i>"</i>						
Duplicate (8040914-DUP1)												
						Prepared: 04/02/18 15:00		Analyzed: 04/18/18 13:40				
QC Source Sample: B6-25 (A8D0239-11)												
5035A/8260C												
Benzene	ND	---	11.6	ug/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	---	58.0	"	"	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	29.0	"	"	---	ND	---	---	---	30%	
Xylenes, total	ND	---	87.0	"	"	---	ND	---	---	---	30%	
Naphthalene	ND	---	116	"	"	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 105 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>103 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>97 %</i>	<i>80-120 %</i>		<i>"</i>						
Matrix Spike (8040914-MS1)												
						Prepared: 04/12/18 14:00		Analyzed: 04/18/18 18:35				
QC Source Sample: Other (A8D0419-01)												
5035A/8260C												

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Kevin J. Friscia, Project Manager

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Reported: 04/27/18 08:32
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QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040914 - EPA 5035A						Soil						
Matrix Spike (8040914-MS1)						Prepared: 04/12/18 14:00 Analyzed: 04/18/18 18:35						
QC Source Sample: Other (A8D0419-01)												
5035A/8260C												
Benzene	5760	---	55.8	ug/kg dry	200	5580	ND	103	77-121	---	---	
Toluene	5640	---	279	"	"	"	ND	101	"	---	---	
Ethylbenzene	6530	---	139	"	"	"	1060	98	76-122	---	---	
Xylenes, total	22700	---	418	"	"	16700	6180	99	78-124	---	---	
Naphthalene	26000	---	558	"	"	5580	20600	96	62-129	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 100 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>					
<i>Toluene-d8 (Surr)</i>			<i>98 %</i>		<i>80-120 %</i>		<i>"</i>					
<i>4-Bromofluorobenzene (Surr)</i>			<i>102 %</i>		<i>80-120 %</i>		<i>"</i>					

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040957 - EPA 5035A						Soil						
Blank (8040957-BLK1)						Prepared: 04/18/18 19:00 Analyzed: 04/18/18 20:22						
5035A/8260C												
Benzene	ND	---	6.67	ug/kg wet	50	---	---	---	---	---	---	---
Toluene	ND	---	33.3	"	"	---	---	---	---	---	---	---
Ethylbenzene	ND	---	16.7	"	"	---	---	---	---	---	---	---
Xylenes, total	ND	---	50.0	"	"	---	---	---	---	---	---	---
Naphthalene	ND	---	66.7	"	"	---	---	---	---	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 100 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>80-120 %</i>		<i>"</i>						
LCS (8040957-BS1)						Prepared: 04/18/18 19:00 Analyzed: 04/18/18 19:29						
5035A/8260C												
Benzene	1050	---	10.0	ug/kg wet	50	1000	---	105	80-120	---	---	---
Toluene	1040	---	50.0	"	"	"	---	104	"	---	---	---
Ethylbenzene	1030	---	25.0	"	"	"	---	103	"	---	---	---
Xylenes, total	3050	---	75.0	"	"	3000	---	102	"	---	---	---
Naphthalene	984	---	100	"	"	1000	---	98	"	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 100 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>96 %</i>	<i>80-120 %</i>		<i>"</i>						
Duplicate (8040957-DUP1)						Prepared: 04/18/18 08:40 Analyzed: 04/18/18 22:19						
QC Source Sample: Other (A8D0627-01)												
5035A/8260C												
Benzene	ND	---	12.4	ug/kg dry	50	---	ND	---	---	---	30%	---
Toluene	ND	---	61.9	"	"	---	ND	---	---	---	30%	---
Ethylbenzene	ND	---	31.0	"	"	---	ND	---	---	---	30%	---
Xylenes, total	ND	---	92.9	"	"	---	ND	---	---	---	30%	---
Naphthalene	ND	---	124	"	"	---	ND	---	---	---	30%	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>99 %</i>	<i>80-120 %</i>		<i>"</i>						
Duplicate (8040957-DUP2)						Prepared: 04/18/18 11:40 Analyzed: 04/19/18 02:45						
QC Source Sample: Other (A8D0627-19)												
5035A/8260C												

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Kevin J. Friscia, Project Manager

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Reported: 04/27/18 08:32
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QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040957 - EPA 5035A												
Soil												
Duplicate (8040957-DUP2)						Prepared: 04/18/18 11:40 Analyzed: 04/19/18 02:45						
QC Source Sample: Other (A8D0627-19)												
5035A/8260C												
Benzene	ND	---	11.7	ug/kg dry	50	---	ND	---	---	---	30%	
Toluene	ND	---	58.7	"	"	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	29.3	"	"	---	ND	---	---	---	30%	
Xylenes, total	ND	---	88.0	"	"	---	ND	---	---	---	30%	
Naphthalene	ND	---	117	"	"	---	ND	---	---	---	30%	

<i>Surr: 1,4-Difluorobenzene (Surr)</i>	<i>Recovery: 104 %</i>	<i>Limits: 80-120 %</i>	<i>Dilution: 1x</i>
<i>Toluene-d8 (Surr)</i>	<i>102 %</i>	<i>80-120 %</i>	<i>"</i>
<i>4-Bromofluorobenzene (Surr)</i>	<i>95 %</i>	<i>80-120 %</i>	<i>"</i>

Matrix Spike (8040957-MS1) Prepared: 04/18/18 14:40 Analyzed: 04/19/18 06:44

QC Source Sample: Other (A8D0627-33)												
5035A/8260C												
Benzene	1440	---	14.4	ug/kg dry	50	1440	ND	100	77-121	---	---	
Toluene	1410	---	72.2	"	"	"	ND	97	"	---	---	
Ethylbenzene	1360	---	36.1	"	"	"	ND	94	76-122	---	---	
Xylenes, total	4100	---	108	"	"	4330	ND	95	78-124	---	---	
Naphthalene	1250	---	144	"	"	1440	ND	87	62-129	---	---	

<i>Surr: 1,4-Difluorobenzene (Surr)</i>	<i>Recovery: 101 %</i>	<i>Limits: 80-120 %</i>	<i>Dilution: 1x</i>
<i>Toluene-d8 (Surr)</i>	<i>99 %</i>	<i>80-120 %</i>	<i>"</i>
<i>4-Bromofluorobenzene (Surr)</i>	<i>96 %</i>	<i>80-120 %</i>	<i>"</i>

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

QUALITY CONTROL (QC) SAMPLE RESULTS

RBDM Compounds (BTEX+) by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040627 - EPA 5030B												
Water												
Blank (8040627-BLK1)												
Prepared: 04/10/18 08:30 Analyzed: 04/10/18 11:06												
EPA 8260C												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
1,2-Dibromoethane (EDB)	ND	---	0.500	"	"	---	---	---	---	---	---	---
1,2-Dichloroethane (EDC)	ND	---	0.500	"	"	---	---	---	---	---	---	---
Ethylbenzene	ND	---	0.500	"	"	---	---	---	---	---	---	---
Isopropylbenzene	ND	---	1.00	"	"	---	---	---	---	---	---	---
Methyl tert-butyl ether (MTBE)	ND	---	1.00	"	"	---	---	---	---	---	---	---
Naphthalene	ND	---	2.00	"	"	---	---	---	---	---	---	---
Toluene	ND	---	1.00	"	"	---	---	---	---	---	---	---
1,2,4-Trimethylbenzene	ND	---	1.00	"	"	---	---	---	---	---	---	---
1,3,5-Trimethylbenzene	ND	---	1.00	"	"	---	---	---	---	---	---	---
Xylenes, total	ND	---	1.50	"	"	---	---	---	---	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 103 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>102 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>95 %</i>	<i>80-120 %</i>		<i>"</i>						

LCS (8040627-BS1)												
Prepared: 04/10/18 08:30 Analyzed: 04/10/18 10:12												
EPA 8260C												
Benzene	20.0	---	0.200	ug/L	1	20.0	---	100	80-120	---	---	---
1,2-Dibromoethane (EDB)	19.2	---	0.500	"	"	"	---	96	"	---	---	---
1,2-Dichloroethane (EDC)	21.3	---	0.500	"	"	"	---	107	"	---	---	---
Ethylbenzene	19.1	---	0.500	"	"	"	---	95	"	---	---	---
Isopropylbenzene	18.5	---	1.00	"	"	"	---	93	"	---	---	---
Methyl tert-butyl ether (MTBE)	19.7	---	1.00	"	"	"	---	99	"	---	---	---
Naphthalene	18.6	---	2.00	"	"	"	---	93	"	---	---	---
Toluene	18.9	---	1.00	"	"	"	---	95	"	---	---	---
1,2,4-Trimethylbenzene	19.0	---	1.00	"	"	"	---	95	"	---	---	---
1,3,5-Trimethylbenzene	18.6	---	1.00	"	"	"	---	93	"	---	---	---
Xylenes, total	58.1	---	1.50	"	"	60.0	---	97	"	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 105 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>103 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>97 %</i>	<i>80-120 %</i>		<i>"</i>						

Duplicate (8040627-DUP1)												
Prepared: 04/10/18 09:40 Analyzed: 04/10/18 15:10												
QC Source Sample: Other (A8D0268-08)												
EPA 8260C												

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Kevin J. Friscia, Project Manager

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris RheaReported:
04/27/18 08:32

QUALITY CONTROL (QC) SAMPLE RESULTS

RBDM Compounds (BTEX+) by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040627 - EPA 5030B												
Water												
Duplicate (8040627-DUP1) Prepared: 04/10/18 09:40 Analyzed: 04/10/18 15:10												
QC Source Sample: Other (A8D0268-08)												
EPA 8260C												
Benzene	ND	---	0.200	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	---	0.500	"	"	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Isopropylbenzene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Naphthalene	ND	---	2.00	"	"	---	ND	---	---	---	30%	
Toluene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
1,3,5-Trimethylbenzene	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Xylenes, total	ND	---	1.50	"	"	---	ND	---	---	---	30%	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 105 % Limits: 80-120 % Dilution: 1x
 Toluene-d8 (Surr) 103 % 80-120 % "
 4-Bromofluorobenzene (Surr) 97 % 80-120 % "

Duplicate (8040627-DUP2) Prepared: 04/10/18 09:40 Analyzed: 04/10/18 16:04

QC Source Sample: B6-W (A8D0239-52)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8260C												
Benzene	6.57	---	0.200	ug/L	1	---	6.09	---	---	8	30%	
1,2-Dibromoethane (EDB)	ND	---	0.500	"	"	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.500	"	"	---	ND	---	---	---	30%	
Ethylbenzene	49.8	---	0.500	"	"	---	36.4	---	---	31	30%	Q-17
Isopropylbenzene	5.50	---	1.00	"	"	---	3.42	---	---	47	30%	Q-17
Methyl tert-butyl ether (MTBE)	ND	---	1.00	"	"	---	ND	---	---	---	30%	
Naphthalene	9.80	---	2.00	"	"	---	4.29	---	---	78	30%	Q-05
Toluene	5.89	---	1.00	"	"	---	5.24	---	---	12	30%	
1,2,4-Trimethylbenzene	35.5	---	1.00	"	"	---	19.2	---	---	59	30%	Q-17
1,3,5-Trimethylbenzene	10.9	---	1.00	"	"	---	6.20	---	---	55	30%	Q-17
Xylenes, total	168	---	1.50	"	"	---	125	---	---	29	30%	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 106 % Limits: 80-120 % Dilution: 1x
 Toluene-d8 (Surr) 101 % 80-120 % "
 4-Bromofluorobenzene (Surr) 91 % 80-120 % "

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Kevin J. Friscia, Project Manager

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Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

QUALITY CONTROL (QC) SAMPLE RESULTS

RBDM Compounds (BTEX+) by EPA 8260C

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040627 - EPA 5030B						Water						
Matrix Spike (8040627-MS1)						Prepared: 04/10/18 09:40 Analyzed: 04/10/18 18:19						
QC Source Sample: B10-W (A8D0239-61)												
EPA 8260C												
Benzene	22.2	---	0.200	ug/L	1	20.0	0.116	110	79-120	---	---	
1,2-Dibromoethane (EDB)	20.1	---	0.500	"	"	"	ND	100	77-121	---	---	
1,2-Dichloroethane (EDC)	23.4	---	0.500	"	"	"	ND	117	73-128	---	---	
Ethylbenzene	21.0	---	0.500	"	"	"	ND	105	79-121	---	---	
Isopropylbenzene	20.9	---	1.00	"	"	"	ND	105	72-131	---	---	
Methyl tert-butyl ether (MTBE)	21.4	---	1.00	"	"	"	ND	107	71-124	---	---	
Naphthalene	20.0	---	2.00	"	"	"	ND	100	61-128	---	---	
Toluene	23.7	---	1.00	"	"	"	3.93	99	80-121	---	---	
1,2,4-Trimethylbenzene	20.4	---	1.00	"	"	"	0.689	98	76-124	---	---	
1,3,5-Trimethylbenzene	19.6	---	1.00	"	"	"	ND	98	75-124	---	---	
Xylenes, total	64.2	---	1.50	"	"	60.0	ND	107	79-121	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 108 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>103 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>94 %</i>	<i>80-120 %</i>		<i>"</i>						

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Kevin J. Friscia, Project Manager

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Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040989 - EPA 3051A						Soil						
Blank (8040989-BLK1)						Prepared: 04/19/18 13:30 Analyzed: 04/19/18 22:06						
EPA 6020A												
Lead	ND	---	0.192	mg/kg wet	10	---	---	---	---	---	---	---
LCS (8040989-BS1)						Prepared: 04/19/18 13:30 Analyzed: 04/19/18 22:11						
EPA 6020A												
Lead	48.6	---	0.200	mg/kg wet	10	50.0	---	97	80-120	---	---	---
Duplicate (8040989-DUP1)						Prepared: 04/19/18 13:30 Analyzed: 04/19/18 22:36						
QC Source Sample: Other (A8D0617-02)												
EPA 6020A												
Lead	13.2	---	0.291	mg/kg dry	10	---	14.6	---	---	10	40%	---
Matrix Spike (8040989-MS1)						Prepared: 04/19/18 13:30 Analyzed: 04/19/18 22:51						
QC Source Sample: Other (A8D0617-02)												
EPA 6020A												
Lead	69.8	---	0.257	mg/kg dry	10	64.2	14.6	86	75-125	---	---	---
Matrix Spike (8040989-MS2)						Prepared: 04/19/18 13:30 Analyzed: 04/19/18 23:31						
QC Source Sample: Other (A8D0627-39)												
EPA 6020A												
Lead	65.2	---	0.249	mg/kg dry	10	62.3	6.43	94	75-125	---	---	---

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040897 - EPA 3015A						Water						
Blank (8040897-BLK1)						Prepared: 04/17/18 16:08 Analyzed: 04/17/18 23:35						
EPA 200.8												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (8040897-BS1)						Prepared: 04/17/18 16:08 Analyzed: 04/17/18 23:38						
EPA 200.8												
Lead	52.9	---	0.200	ug/L	1	55.6	---	95	85-115	---	---	---
Duplicate (8040897-DUP1)						Prepared: 04/17/18 16:08 Analyzed: 04/18/18 00:09						
QC Source Sample: Other (A8D0232-02)												
EPA 200.8												
Lead	19.9	---	0.200	ug/L	1	---	20.0	---	---	0.3	20%	---
Matrix Spike (8040897-MS1)						Prepared: 04/17/18 16:08 Analyzed: 04/18/18 00:16						
QC Source Sample: Other (A8D0232-02)												
EPA 200.8												
Lead	71.2	---	0.200	ug/L	1	55.6	20.0	92	70-130	---	---	---
Matrix Spike (8040897-MS2)						Prepared: 04/17/18 16:08 Analyzed: 04/18/18 01:41						
QC Source Sample: Other (A8D0440-04)												
EPA 200.8												
Lead	52.3	---	0.200	ug/L	1	55.6	0.400	93	70-130	---	---	---

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Kevin J. Friscia, Project Manager

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QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved Metals by EPA 200.8 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040878 - Matrix Matched Direct Inject						Water						
Blank (8040878-BLK1)						Prepared: 04/17/18 11:09 Analyzed: 04/18/18 16:33						
EPA 200.8 (Diss)												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (8040878-BS1)						Prepared: 04/17/18 11:09 Analyzed: 04/18/18 16:38						
EPA 200.8 (Diss)												
Lead	52.0	---	0.200	ug/L	1	55.6	---	94	85-115	---	---	---
Duplicate (8040878-DUP1)						Prepared: 04/17/18 11:09 Analyzed: 04/18/18 17:15						
QC Source Sample: Other (A8D0204-01)												
EPA 200.8 (Diss)												
Lead	0.502	---	0.200	ug/L	1	---	0.492	---	---	2	20%	---
Matrix Spike (8040878-MS1)						Prepared: 04/17/18 11:09 Analyzed: 04/18/18 17:20						
QC Source Sample: Other (A8D0204-01)												
EPA 200.8 (Diss)												
Lead	52.9	---	0.200	ug/L	1	55.6	0.492	94	70-130	---	---	---
Matrix Spike (8040878-MS2)						Prepared: 04/17/18 11:09 Analyzed: 04/18/18 18:43						
QC Source Sample: B10-W (A8D0239-61)												
EPA 200.8 (Diss)												
Lead	52.3	---	0.200	ug/L	1	55.6	0.132	94	70-130	---	---	---

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Kevin J. Friscia, Project Manager

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Reported: 04/27/18 08:32
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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040635 - Total Solids (Dry Weight)						Soil						
Duplicate (8040635-DUP1)						Prepared: 04/10/18 10:06		Analyzed: 04/11/18 09:08				
QC Source Sample: Other (A8C0745-31)												
EPA 8000C												
% Solids	80.4	---	1.00	% by Weight	1	---	80.2	---	---	0.3	10%	
Duplicate (8040635-DUP2)						Prepared: 04/10/18 10:06		Analyzed: 04/11/18 09:08				
QC Source Sample: Other (A8D0220-12)												
EPA 8000C												
% Solids	78.6	---	1.00	% by Weight	1	---	77.9	---	---	0.9	10%	
Duplicate (8040635-DUP3)						Prepared: 04/10/18 10:34		Analyzed: 04/11/18 09:08				
QC Source Sample: Other (A8D0026-02)												
EPA 8000C												
% Solids	97.6	---	1.00	% by Weight	1	---	97.6	---	---	0.02	10%	
Duplicate (8040635-DUP4)						Prepared: 04/10/18 17:07		Analyzed: 04/11/18 09:08				
QC Source Sample: B6-3 (A8D0239-01)												
EPA 8000C												
% Solids	87.2	---	1.00	% by Weight	1	---	87.2	---	---	0.03	10%	
Duplicate (8040635-DUP5)						Prepared: 04/10/18 17:07		Analyzed: 04/11/18 09:08				
QC Source Sample: B10-3 (A8D0239-24)												
EPA 8000C												
% Solids	84.9	---	1.00	% by Weight	1	---	84.6	---	---	0.3	10%	
Duplicate (8040635-DUP6)						Prepared: 04/10/18 17:07		Analyzed: 04/11/18 09:08				
QC Source Sample: B12-16 (A8D0239-47)												
EPA 8000C												
% Solids	76.5	---	1.00	% by Weight	1	---	76.6	---	---	0.2	10%	
Duplicate (8040635-DUP7)						Prepared: 04/10/18 17:07		Analyzed: 04/11/18 09:08				
QC Source Sample: B16-3 (A8D0239-74)												
EPA 8000C												
% Solids	87.4	---	1.00	% by Weight	1	---	87.3	---	---	0.1	10%	
Duplicate (8040635-DUP8)						Prepared: 04/10/18 19:56		Analyzed: 04/11/18 09:08				
QC Source Sample: Other (A8D0316-01)												

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Reported: 04/27/18 08:32
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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040635 - Total Solids (Dry Weight)						Soil						
Duplicate (8040635-DUP8)						Prepared: 04/10/18 19:56 Analyzed: 04/11/18 09:08						
QC Source Sample: Other (A8D0316-01)												
EPA 8000C												
% Solids	82.5	---	1.00	% by Weight	1	---	78.6	---	---	5	10%	
Duplicate (8040635-DUP9)						Prepared: 04/10/18 19:56 Analyzed: 04/11/18 09:08						
QC Source Sample: Other (A8D0325-02)												
EPA 8000C												
% Solids	84.1	---	1.00	% by Weight	1	---	84.6	---	---	0.6	10%	
Duplicate (8040635-DUPA)						Prepared: 04/10/18 19:56 Analyzed: 04/11/18 09:08						
QC Source Sample: Other (A8D0330-02)												
EPA 8000C												
% Solids	73.2	---	1.00	% by Weight	1	---	73.1	---	---	0.2	10%	
Batch 8040931 - Total Solids (Dry Weight)						Soil						
Duplicate (8040931-DUP1)						Prepared: 04/18/18 12:52 Analyzed: 04/19/18 08:56						
QC Source Sample: Other (A8D0548-01)												
EPA 8000C												
% Solids	73.4	---	1.00	% by Weight	1	---	73.9	---	---	0.7	10%	
Duplicate (8040931-DUP2)						Prepared: 04/18/18 12:52 Analyzed: 04/19/18 08:56						
QC Source Sample: Other (A8D0548-11)												
EPA 8000C												
% Solids	72.3	---	1.00	% by Weight	1	---	73.0	---	---	1	10%	
Duplicate (8040931-DUP4)						Prepared: 04/18/18 12:52 Analyzed: 04/19/18 08:56						
QC Source Sample: Other (A8D0574-01)												
EPA 8000C												
% Solids	84.0	---	1.00	% by Weight	1	---	84.3	---	---	0.4	10%	
Duplicate (8040931-DUP5)						Prepared: 04/18/18 18:25 Analyzed: 04/19/18 08:56						
QC Source Sample: Other (A8D0618-07)												
EPA 8000C												

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Reported: 04/27/18 08:32
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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 8040931 - Total Solids (Dry Weight)						Soil						
Duplicate (8040931-DUP5)						Prepared: 04/18/18 18:25 Analyzed: 04/19/18 08:56						
QC Source Sample: Other (A8D0618-07)												
EPA 8000C												
% Solids	85.1	---	1.00	% by Weight	1	---	84.5	---	---	0.6	10%	
Duplicate (8040931-DUP6)						Prepared: 04/18/18 19:16 Analyzed: 04/19/18 08:56						
QC Source Sample: Other (A8D0609-06)												
EPA 8000C												
% Solids	76.6	---	1.00	% by Weight	1	---	76.3	---	---	0.4	10%	
Duplicate (8040931-DUP7)						Prepared: 04/18/18 20:10 Analyzed: 04/19/18 08:56						
QC Source Sample: Other (A8D0638-08)												
EPA 8000C												
% Solids	77.5	---	1.00	% by Weight	1	---	77.8	---	---	0.3	10%	

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8040644							
A8D0239-53RE	Water	NWTPH-Dx	04/03/18 13:20	04/10/18 12:37	1050mL/5mL	1000mL/5mL	0.95
A8D0239-54RE	Water	NWTPH-Dx	04/03/18 14:00	04/10/18 12:37	1050mL/5mL	1000mL/5mL	0.95
A8D0239-60RE	Water	NWTPH-Dx	04/03/18 16:30	04/10/18 12:37	1020mL/5mL	1000mL/5mL	0.98
A8D0239-61RE	Water	NWTPH-Dx	04/04/18 08:00	04/10/18 12:37	1070mL/5mL	1000mL/5mL	0.94

Batch: 8040699

A8D0239-52RE	Water	NWTPH-Dx	04/03/18 13:05	04/11/18 14:44	1030mL/5mL	1000mL/5mL	0.97
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Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8040740							
A8D0239-10	Soil	NWTPH-Dx	04/02/18 14:50	04/12/18 13:16	11.46g/5mL	10g/5mL	0.87
A8D0239-34	Soil	NWTPH-Dx	04/03/18 09:35	04/12/18 13:16	11.55g/5mL	10g/5mL	0.87
A8D0239-41	Soil	NWTPH-Dx	04/03/18 10:40	04/12/18 13:16	10.57g/5mL	10g/5mL	0.95

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8040627							
A8D0239-52	Water	NWTPH-Gx (MS)	04/03/18 13:05	04/10/18 09:40	5mL/5mL	5mL/5mL	1.00
A8D0239-53	Water	NWTPH-Gx (MS)	04/03/18 13:20	04/10/18 09:40	5mL/5mL	5mL/5mL	1.00
A8D0239-54	Water	NWTPH-Gx (MS)	04/03/18 14:00	04/10/18 09:40	5mL/5mL	5mL/5mL	1.00
A8D0239-60	Water	NWTPH-Gx (MS)	04/03/18 16:30	04/10/18 09:40	5mL/5mL	5mL/5mL	1.00
A8D0239-61	Water	NWTPH-Gx (MS)	04/04/18 08:00	04/10/18 09:40	5mL/5mL	5mL/5mL	1.00

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8040599							
A8D0239-01	Soil	NWTPH-Gx (MS)	04/02/18 12:15	04/02/18 12:15	5.02g/5mL	5g/5mL	1.00
A8D0239-04	Soil	NWTPH-Gx (MS)	04/02/18 13:45	04/02/18 13:45	4.99g/5mL	5g/5mL	1.00
A8D0239-24	Soil	NWTPH-Gx (MS)	04/03/18 08:10	04/03/18 08:10	4.78g/5mL	5g/5mL	1.05
Batch: 8040628							
A8D0239-09	Soil	NWTPH-Gx (MS)	04/02/18 14:45	04/02/18 14:45	7.13g/5mL	5g/5mL	0.70
A8D0239-10	Soil	NWTPH-Gx (MS)	04/02/18 14:50	04/02/18 14:50	7.01g/5mL	5g/5mL	0.71
A8D0239-17	Soil	NWTPH-Gx (MS)	04/02/18 15:55	04/02/18 15:55	7.23g/5mL	5g/5mL	0.69

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

SAMPLE PREPARATION INFORMATION

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A8D0239-19	Soil	NWTPH-Gx (MS)	04/02/18 16:30	04/02/18 16:30	4.95g/5mL	5g/5mL	1.01
A8D0239-20	Soil	NWTPH-Gx (MS)	04/02/18 16:35	04/02/18 16:35	6.31g/5mL	5g/5mL	0.79
A8D0239-27	Soil	NWTPH-Gx (MS)	04/03/18 08:40	04/03/18 08:40	6.49g/5mL	5g/5mL	0.77
A8D0239-29	Soil	NWTPH-Gx (MS)	04/03/18 08:50	04/03/18 08:50	6.56g/5mL	5g/5mL	0.76
A8D0239-35	Soil	NWTPH-Gx (MS)	04/03/18 09:30	04/03/18 09:30	7.03g/5mL	5g/5mL	0.71
A8D0239-37	Soil	NWTPH-Gx (MS)	04/03/18 10:10	04/03/18 10:10	5.44g/5mL	5g/5mL	0.92
A8D0239-41	Soil	NWTPH-Gx (MS)	04/03/18 10:40	04/03/18 10:40	6.67g/5mL	5g/5mL	0.75
A8D0239-42	Soil	NWTPH-Gx (MS)	04/03/18 10:45	04/03/18 10:45	6.42g/5mL	5g/5mL	0.78
Batch: 8040673							
A8D0239-06RE	Soil	NWTPH-Gx (MS)	04/02/18 14:30	04/02/18 14:30	4.97g/5mL	5g/5mL	1.01
A8D0239-08RE	Soil	NWTPH-Gx (MS)	04/02/18 14:40	04/02/18 14:40	4.92g/5mL	5g/5mL	1.02
A8D0239-16RE	Soil	NWTPH-Gx (MS)	04/02/18 15:45	04/02/18 15:45	7.01g/5mL	5g/5mL	0.71
A8D0239-44	Soil	NWTPH-Gx (MS)	04/03/18 11:00	04/03/18 11:00	5.13g/5mL	5g/5mL	0.98
A8D0239-46	Soil	NWTPH-Gx (MS)	04/03/18 11:10	04/03/18 11:10	5.21g/5mL	5g/5mL	0.96
A8D0239-48	Soil	NWTPH-Gx (MS)	04/03/18 12:15	04/03/18 12:15	6.62g/5mL	5g/5mL	0.76
A8D0239-56	Soil	NWTPH-Gx (MS)	04/03/18 14:30	04/03/18 14:30	6.56g/5mL	5g/5mL	0.76
A8D0239-59	Soil	NWTPH-Gx (MS)	04/03/18 14:50	04/03/18 14:50	6.19g/5mL	5g/5mL	0.81
A8D0239-62	Soil	NWTPH-Gx (MS)	04/04/18 09:50	04/04/18 09:50	4.85g/5mL	5g/5mL	1.03
A8D0239-68	Soil	NWTPH-Gx (MS)	04/04/18 12:45	04/04/18 12:45	4.44g/5mL	5g/5mL	1.13
Batch: 8040700							
A8D0239-58	Soil	NWTPH-Gx (MS)	04/03/18 14:45	04/03/18 14:45	6.6g/5mL	5g/5mL	0.76
A8D0239-71	Soil	NWTPH-Gx (MS)	04/04/18 13:00	04/04/18 13:00	6.92g/5mL	5g/5mL	0.72
A8D0239-74	Soil	NWTPH-Gx (MS)	04/05/18 09:30	04/05/18 09:30	4.6g/5mL	5g/5mL	1.09
A8D0239-79	Soil	NWTPH-Gx (MS)	04/05/18 09:55	04/05/18 09:55	5.31g/5mL	5g/5mL	0.94
Batch: 8040720							
A8D0239-65RE	Soil	NWTPH-Gx (MS)	04/04/18 10:10	04/04/18 10:10	5.75g/5mL	5g/5mL	0.87
A8D0239-72RE	Soil	NWTPH-Gx (MS)	04/04/18 13:05	04/04/18 13:05	6.3g/5mL	5g/5mL	0.79
A8D0239-78RE	Soil	NWTPH-Gx (MS)	04/05/18 09:50	04/05/18 09:50	6.24g/5mL	5g/5mL	0.80
Batch: 8040723							
A8D0239-47RE	Soil	NWTPH-Gx (MS)	04/03/18 12:10	04/03/18 12:10	6.64g/5mL	5g/5mL	0.75
Batch: 8040834							
A8D0239-34RE	Soil	NWTPH-Gx (MS)	04/03/18 09:35	04/03/18 09:35	5.93g/5mL	5g/5mL	0.84
Batch: 8040914							
A8D0239-11	Soil	NWTPH-Gx (MS)	04/02/18 15:00	04/02/18 15:00	6.65g/5mL	5g/5mL	0.75
A8D0239-21	Soil	NWTPH-Gx (MS)	04/02/18 16:45	04/02/18 16:45	7.05g/5mL	5g/5mL	0.71

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

SAMPLE PREPARATION INFORMATION

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A8D0239-81	Soil	NWTPH-Gx (MS)	04/05/18 11:45	04/05/18 11:45	4.16g/5mL	5g/5mL	1.20
A8D0239-86	Soil	NWTPH-Gx (MS)	04/05/18 12:55	04/05/18 12:55	4.87g/5mL	5g/5mL	1.03
Batch: 8040957							
A8D0239-85RE	Soil	NWTPH-Gx (MS)	04/05/18 13:00	04/05/18 13:00	5.41g/5mL	5g/5mL	0.92

BTEX+N Compounds by EPA 8260C

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8040599							
A8D0239-01	Soil	5035A/8260C	04/02/18 12:15	04/02/18 12:15	5.02g/5mL	5g/5mL	1.00
A8D0239-04	Soil	5035A/8260C	04/02/18 13:45	04/02/18 13:45	4.99g/5mL	5g/5mL	1.00
A8D0239-24	Soil	5035A/8260C	04/03/18 08:10	04/03/18 08:10	4.78g/5mL	5g/5mL	1.05
Batch: 8040628							
A8D0239-06	Soil	5035A/8260C	04/02/18 14:30	04/02/18 14:30	4.97g/5mL	5g/5mL	1.01
A8D0239-08	Soil	5035A/8260C	04/02/18 14:40	04/02/18 14:40	4.92g/5mL	5g/5mL	1.02
A8D0239-09	Soil	5035A/8260C	04/02/18 14:45	04/02/18 14:45	7.13g/5mL	5g/5mL	0.70
A8D0239-10	Soil	5035A/8260C	04/02/18 14:50	04/02/18 14:50	7.01g/5mL	5g/5mL	0.71
A8D0239-16	Soil	5035A/8260C	04/02/18 15:45	04/02/18 15:45	7.01g/5mL	5g/5mL	0.71
A8D0239-17	Soil	5035A/8260C	04/02/18 15:55	04/02/18 15:55	7.23g/5mL	5g/5mL	0.69
A8D0239-19	Soil	5035A/8260C	04/02/18 16:30	04/02/18 16:30	4.95g/5mL	5g/5mL	1.01
A8D0239-20	Soil	5035A/8260C	04/02/18 16:35	04/02/18 16:35	6.31g/5mL	5g/5mL	0.79
A8D0239-27	Soil	5035A/8260C	04/03/18 08:40	04/03/18 08:40	6.49g/5mL	5g/5mL	0.77
A8D0239-29	Soil	5035A/8260C	04/03/18 08:50	04/03/18 08:50	6.56g/5mL	5g/5mL	0.76
A8D0239-35	Soil	5035A/8260C	04/03/18 09:30	04/03/18 09:30	7.03g/5mL	5g/5mL	0.71
A8D0239-37	Soil	5035A/8260C	04/03/18 10:10	04/03/18 10:10	5.44g/5mL	5g/5mL	0.92
A8D0239-41	Soil	5035A/8260C	04/03/18 10:40	04/03/18 10:40	6.67g/5mL	5g/5mL	0.75
A8D0239-42	Soil	5035A/8260C	04/03/18 10:45	04/03/18 10:45	6.42g/5mL	5g/5mL	0.78
Batch: 8040673							
A8D0239-44	Soil	5035A/8260C	04/03/18 11:00	04/03/18 11:00	5.13g/5mL	5g/5mL	0.98
A8D0239-46	Soil	5035A/8260C	04/03/18 11:10	04/03/18 11:10	5.21g/5mL	5g/5mL	0.96
A8D0239-48	Soil	5035A/8260C	04/03/18 12:15	04/03/18 12:15	6.62g/5mL	5g/5mL	0.76
A8D0239-56	Soil	5035A/8260C	04/03/18 14:30	04/03/18 14:30	6.56g/5mL	5g/5mL	0.76
A8D0239-59	Soil	5035A/8260C	04/03/18 14:50	04/03/18 14:50	6.19g/5mL	5g/5mL	0.81
A8D0239-62	Soil	5035A/8260C	04/04/18 09:50	04/04/18 09:50	4.85g/5mL	5g/5mL	1.03
A8D0239-68	Soil	5035A/8260C	04/04/18 12:45	04/04/18 12:45	4.44g/5mL	5g/5mL	1.13

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

SAMPLE PREPARATION INFORMATION

BTEX+N Compounds by EPA 8260C

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8040700							
A8D0239-58	Soil	5035A/8260C	04/03/18 14:45	04/03/18 14:45	6.6g/5mL	5g/5mL	0.76
A8D0239-71	Soil	5035A/8260C	04/04/18 13:00	04/04/18 13:00	6.92g/5mL	5g/5mL	0.72
A8D0239-74	Soil	5035A/8260C	04/05/18 09:30	04/05/18 09:30	4.6g/5mL	5g/5mL	1.09
A8D0239-79	Soil	5035A/8260C	04/05/18 09:55	04/05/18 09:55	5.31g/5mL	5g/5mL	0.94
Batch: 8040720							
A8D0239-65RE	Soil	5035A/8260C	04/04/18 10:10	04/04/18 10:10	5.75g/5mL	5g/5mL	0.87
A8D0239-72RE	Soil	5035A/8260C	04/04/18 13:05	04/04/18 13:05	6.3g/5mL	5g/5mL	0.79
A8D0239-78RE	Soil	5035A/8260C	04/05/18 09:50	04/05/18 09:50	6.24g/5mL	5g/5mL	0.80
Batch: 8040723							
A8D0239-47RE	Soil	5035A/8260C	04/03/18 12:10	04/03/18 12:10	6.64g/5mL	5g/5mL	0.75
Batch: 8040834							
A8D0239-34	Soil	5035A/8260C	04/03/18 09:35	04/03/18 09:35	5.93g/5mL	5g/5mL	0.84
Batch: 8040914							
A8D0239-11	Soil	5035A/8260C	04/02/18 15:00	04/02/18 15:00	6.65g/5mL	5g/5mL	0.75
A8D0239-21	Soil	5035A/8260C	04/02/18 16:45	04/02/18 16:45	7.05g/5mL	5g/5mL	0.71
A8D0239-81	Soil	5035A/8260C	04/05/18 11:45	04/05/18 11:45	4.16g/5mL	5g/5mL	1.20
A8D0239-86	Soil	5035A/8260C	04/05/18 12:55	04/05/18 12:55	4.87g/5mL	5g/5mL	1.03
Batch: 8040957							
A8D0239-85RE	Soil	5035A/8260C	04/05/18 13:00	04/05/18 13:00	5.41g/5mL	5g/5mL	0.92

RBDM Compounds (BTEX+) by EPA 8260C

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8040627							
A8D0239-52	Water	EPA 8260C	04/03/18 13:05	04/10/18 09:40	5mL/5mL	5mL/5mL	1.00
A8D0239-53	Water	EPA 8260C	04/03/18 13:20	04/10/18 09:40	5mL/5mL	5mL/5mL	1.00
A8D0239-54	Water	EPA 8260C	04/03/18 14:00	04/10/18 09:40	5mL/5mL	5mL/5mL	1.00
A8D0239-60	Water	EPA 8260C	04/03/18 16:30	04/10/18 09:40	5mL/5mL	5mL/5mL	1.00
A8D0239-61	Water	EPA 8260C	04/04/18 08:00	04/10/18 09:40	5mL/5mL	5mL/5mL	1.00

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
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Apex Laboratories



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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020 (ICPMS)

Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 8040989							
A8D0239-16	Soil	EPA 6020A	04/02/18 15:45	04/19/18 13:30	0.473g/50mL	0.5g/50mL	1.06
A8D0239-47	Soil	EPA 6020A	04/03/18 12:10	04/19/18 13:30	0.454g/50mL	0.5g/50mL	1.10

Total Metals by EPA 200.8 (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8040897							
A8D0239-52	Water	EPA 200.8	04/03/18 13:05	04/17/18 16:08	45mL/50mL	45mL/50mL	1.00
A8D0239-53RE	Water	EPA 200.8	04/03/18 13:20	04/17/18 16:08	45mL/50mL	45mL/50mL	1.00
A8D0239-54RE	Water	EPA 200.8	04/03/18 14:00	04/17/18 16:08	45mL/50mL	45mL/50mL	1.00
A8D0239-60	Water	EPA 200.8	04/03/18 16:30	04/17/18 16:08	45mL/50mL	45mL/50mL	1.00
A8D0239-61	Water	EPA 200.8	04/04/18 08:00	04/17/18 16:08	45mL/50mL	45mL/50mL	1.00

Dissolved Metals by EPA 200.8 (ICPMS)

Prep: Matrix Matched Direct Inject

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8040878							
A8D0239-52	Water	EPA 200.8 (Diss)	04/03/18 13:05	04/17/18 11:09	45mL/50mL	45mL/50mL	1.00
A8D0239-53	Water	EPA 200.8 (Diss)	04/03/18 13:20	04/17/18 11:09	45mL/50mL	45mL/50mL	1.00
A8D0239-54	Water	EPA 200.8 (Diss)	04/03/18 14:00	04/17/18 11:09	45mL/50mL	45mL/50mL	1.00
A8D0239-60	Water	EPA 200.8 (Diss)	04/03/18 16:30	04/17/18 11:09	45mL/50mL	45mL/50mL	1.00
A8D0239-61	Water	EPA 200.8 (Diss)	04/04/18 08:00	04/17/18 11:09	45mL/50mL	45mL/50mL	1.00

Percent Dry Weight

Prep: Total Solids (Dry Weight)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8040635							
A8D0239-01	Soil	EPA 8000C	04/02/18 12:15	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-04	Soil	EPA 8000C	04/02/18 13:45	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-06	Soil	EPA 8000C	04/02/18 14:30	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-08	Soil	EPA 8000C	04/02/18 14:40	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-09	Soil	EPA 8000C	04/02/18 14:45	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-10	Soil	EPA 8000C	04/02/18 14:50	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-16	Soil	EPA 8000C	04/02/18 15:45	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA

Apex Laboratories



Kevin J. Friscia, Project Manager

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

SAMPLE PREPARATION INFORMATION

Percent Dry Weight

Prep: Total Solids (Dry Weight)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A8D0239-17	Soil	EPA 8000C	04/02/18 15:55	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-19	Soil	EPA 8000C	04/02/18 16:30	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-20	Soil	EPA 8000C	04/02/18 16:35	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-24	Soil	EPA 8000C	04/03/18 08:10	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-27	Soil	EPA 8000C	04/03/18 08:40	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-29	Soil	EPA 8000C	04/03/18 08:50	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-34	Soil	EPA 8000C	04/03/18 09:35	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-35	Soil	EPA 8000C	04/03/18 09:30	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-37	Soil	EPA 8000C	04/03/18 10:10	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-41	Soil	EPA 8000C	04/03/18 10:40	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-42	Soil	EPA 8000C	04/03/18 10:45	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-44	Soil	EPA 8000C	04/03/18 11:00	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-46	Soil	EPA 8000C	04/03/18 11:10	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-47	Soil	EPA 8000C	04/03/18 12:10	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-48	Soil	EPA 8000C	04/03/18 12:15	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-56	Soil	EPA 8000C	04/03/18 14:30	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-58	Soil	EPA 8000C	04/03/18 14:45	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-59	Soil	EPA 8000C	04/03/18 14:50	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-62	Soil	EPA 8000C	04/04/18 09:50	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-65	Soil	EPA 8000C	04/04/18 10:10	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-68	Soil	EPA 8000C	04/04/18 12:45	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-71	Soil	EPA 8000C	04/04/18 13:00	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-72	Soil	EPA 8000C	04/04/18 13:05	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-74	Soil	EPA 8000C	04/05/18 09:30	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-78	Soil	EPA 8000C	04/05/18 09:50	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-79	Soil	EPA 8000C	04/05/18 09:55	04/10/18 17:07	1N/A/1N/A	1N/A/1N/A	NA
Batch: 8040931							
A8D0239-11	Soil	EPA 8000C	04/02/18 15:00	04/18/18 18:25	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-21	Soil	EPA 8000C	04/02/18 16:45	04/18/18 18:25	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-81	Soil	EPA 8000C	04/05/18 11:45	04/18/18 18:25	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-85	Soil	EPA 8000C	04/05/18 13:00	04/18/18 18:25	1N/A/1N/A	1N/A/1N/A	NA
A8D0239-86	Soil	EPA 8000C	04/05/18 12:55	04/18/18 18:25	1N/A/1N/A	1N/A/1N/A	NA

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Kevin J. Friscia, Project Manager

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris RheaReported:
04/27/18 08:32**Notes and Definitions**Qualifiers:

- E Estimated Value. The result is above the calibration range of the instrument.
- F-18 Result for Diesel (Diesel Range Organics, C12-C24) is due to overlap from Gasoline or a Gasoline Range product.
- H-01 This sample was analyzed outside the recommended holding time.
- Q-04 Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-05 Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- Q-17 RPD between original and duplicate sample is outside of established control limits.
- Q-19 Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- Q-37 Sample is non-homogenous. Sample results are less than MRL and duplicate results have hits greater than the MRL. See Duplicate results.
- Q-42 Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
- R-04 Reporting levels elevated due to dilution necessary for analysis.
- S-08 TPH-Gx Surrogate recovery cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract. See 8260B results for accurate Surrogate recovery.
- V-15 Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.

Notes and Conventions:

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry' designation are not dry weight corrected.
- RPD Relative Percent Difference
- MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
- WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
- Batch In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
- Blank Policy Apex assesses blank data for potential high bias down to a level equal to 1/2 the method reporting limit (MRL), except for conventional chemistry and HCID analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they are less than ten times the level found in the blank for inorganic analyses or less than five times the level found in the blank for organic analyses.
- For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.

Apex Laboratories



Kevin J. Friscia, Project Manager

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Reported: 04/27/18 08:32
--	--	------------------------------------

Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.

--- QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

*** Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Laboratories



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Kevin J. Friscia, Project Manager

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

APEX LABS **CHAIN OF CUSTODY** Lab # ASD0239 coc 1 of 9

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: **EES ENVIRONMENTAL** Project Mgr: **CHRIS RHEA** Project Name: **DEBOCK'S TEXACO** Project # **2093-01**
 Address: **240 N. BROADWAY STE. 203, PORTLAND, OR** Phone: **503 877 2740** Fax: **-** Email: **CHRIS@EES-ENV.COM**

Sampled by: **DANIELE PETERIS**

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-DX	NWTPH-GX	8260 VOC	8260 RBDM VOCs	8260 BTEX	8270 SVOC	8270 SIM PAHS	8082 PCBs	600 TTO	RCA Metals (8)	TCLP Metals (8)	Al, Sb, As, Ba, Be, Cd, Cr, Cu, Ni, Pb, Se, Ag, Na, Ti, V, Zn	1200-COLS	1200-Z
B6-3	4-2-18	1215	S	3															
B6-5		1220	S	3															
B6-10		1320	S	3															
B7-3		1345	S	3															
B7-5		1355	S	3															
B6-15		1430	S	3															
B6-12.5		1435	S	3															
B8-3		1440	S	3															
B6-20		1445	S	3															
B6-17		1450	S	6															

Normal Turn Around Time (TAT) = 7-10 Business Days YES NO

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: _____

SPECIAL INSTRUCTIONS:


RECEIVED BY: **Daniele B. Peteris** Date: **4/6/18** Signature: *[Signature]*

RELINQUISHED BY: **DANIELE B. PETERIS** Date: **4/6/18** Signature: *[Signature]*

Printed Name: **DANIELE B. PETERIS** Time: **11:30** Printed Name: **Chris Rhea** Time: **11:30**

Company: **EES** Company: **Apex Labs**

Apex Laboratories



Kevin J. Friscia, Project Manager

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

CHAIN OF CUSTODY

Lab # A8D0239 PO# 2093-01
COC 2 of 9

Company: **EES ENVIRONMENTAL** Project Mgr: **CHRIS RHEA** Project Name: **DEBOCK'S TEXACO** Project # **2093-01**
Address: **240 N BROADWAY STE 203, PORTLAND, OR** Phone: **503.847.2740** Fax: **-** Email: **CHRIS@EES-ENV.COM**
Sampled by: **DANIELE PETERS**

Site Location: OR WA Other: _____
SPECIAL INSTRUCTIONS: _____

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-CID	NWTPH-DX	NWTPH-GX	8260 VOCs Full List	8260 RBDM VOCs	8260 HVOCs	8260 BTEX VOCs	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TTO	RCRA Metals (8)	TCLP Metals (8)	Al, Sb, As, Ba, Be, Bi, Cd, Cr, Cu, Fe, Pb, Ph, Pt, Se, Ag, Na, Ti, V, Zn	1200-COLS	1200-Z
B6-25	4-2-18	1500	S	3																
B8-5	4-2-18	1515	S	3																
B8-10	4-2-18	1520	S	3																
B7-10	4-2-18	1540	S	3																
B7-14	4-2-18	1550	S	2																
B7-15	4-2-18	1545	S	3																
B7-20	4-2-18	1555	S	3																
B7-25	4-2-18	1605	S	3																
B8-15	4-2-18	1630	S	3																
B8-20	4-2-18	1635	S	3																

Normal Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): 1 DAY 2 DAY 3 DAY 4 DAY 5 DAY Other: _____


RECEIVED BY: Danielle B. Peters Date: 4/6/18 Signature: [Signature]
RECEIVED BY: _____ Date: _____ Signature: _____
RECEIVED BY: _____ Date: _____ Signature: _____

RELINQUISHED BY: Danielle B. Peters Date: 4/6/18 Signature: [Signature]
RELINQUISHED BY: _____ Date: _____ Signature: _____
RELINQUISHED BY: _____ Date: _____ Signature: _____

Printed Name: DANIELE B. PETERS Time: 11:30 Printed Name: CHRIS RHEA Time: 11:30
Printed Name: _____ Time: _____ Printed Name: _____ Time: _____

Company: EES Company: Apex Labs Company: _____

Apex Laboratories



Kevin J. Friscia, Project Manager

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

Lab # ADD0129 COC 3 of 9

CHAIN OF CUSTODY

APEX LABS

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: EES ENVIRONMENTAL		Project Mgr: CHRIS RHEA		Project Name: DEBOCKS TEXACO		Project # 2093-01																			
Address: 240 N BROADWAY STE 203, PORTLAND, OR		Phone: 503-847-7740		Fax: -		Email: CHRIS@EES-ENV.COM																			
Sampled by: DANIELE PETERS		ANALYSIS REQUEST																							
Site Location: OR	Other: WA																								
SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-ACID	NWTPH-DX	NWTPH-GX	8260 VOCs Full List	8260 RBDM VOCs	8260 HVOCs	8260 BTEX VOCs	8270 SVOC	8270 SIM PAHS	8082 PCBs	600 TTO	RCA Metals (8)	TCLP Metals (8)	AL, Sb, As, Ba, Be, Bi, Br, Cd, Cr, Cu, Co, Ni, Pb, Hg, Mn, Mo, Se, V, Zn, Sc, Ag, Na, TL, Y, Zn	TOTAL DISS TCLP	1200-COILS	1200-Z			
1	B8-25	4-2-18	1645	S	3																				
2	B9-3	4-3-18	0755	S	3																				
3	B9-5		0800	S	3																				
4	B10-3		0810	S	3																				
5	B10-5		0815	S	3																				
6	B10-10		0820	S	3																				
7	B10-15		0840	S	3																				
8	B10-17		0855	S	3																				
9	B10-20		0850	S	3																				
10	B10-25		0905	S	3																				
Normal Turn Around Time (TAT) = 10 Business Days		YES		NO																					
TAT Requested (circle)		1 Day	2 Day	3 Day	Other:																				
RELINQUISHED BY:		RECEIVED BY:		SPECIAL INSTRUCTIONS:																					
Signature: <i>Daniele Peters</i>		Signature: _____		RELINQUISHED BY:																					
Printed Name: DANIELE B. PETERS		Date: 4/16/18		Signature: _____																					
Printed Name: DANIELE B. PETERS		Time: 11:30		Printed Name: Charles Haddaway		Time: 11:30																			
Company: EES		Company: Apex Labs																							

Apex Laboratories



Kevin J. Friscia, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

CHAIN OF CUSTODY

Lab # A8800239 COC 4 of 9

PO# _____

Company: **EES ENVIRONMENTAL** Project Mgr: **CHRIS RHEA** Project Name: **DEBOCK'S TEXACO** Project # **2093-01**
 Address: **240 N BROADWAY STE 203, PORTLAND, OR** Phone: **503.718.2323** Fax: **503.718.0333** Email: **CHRIS@EES-ENV.COM**
 Sampled by: **DANIELE PETERS**

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	ANALYSIS REQUEST			
					600 TTO	8082 PCBs	8270 SVOC	8260 BVOCs
B9-10	4-3-18	0920	S	3				
B9-13		0927	S	3				
B9-15		0925	S	3				
B9-10.5		0925	S	5				
B9-20		0920	S	3				
B9-75		0950	S	3				
B11-3		1010	S	3				
B11-5		1015	S	3				
B11-10		1025	S	3				
B11-15		1035	S	3				

Site Location: OR WA
Other: _____

Normal Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: _____

SPECIAL INSTRUCTIONS: _____

RECEIVED BY: _____ RECEIVED BY: _____
 Signature: Daniela B. Peters Date: 4/6/18 Signature: _____ Date: _____
 Printed Name: DANIELE B. PETERS Time: 1130 Printed Name: Chris Rhea Time: _____
 Company: EES Company: Apex Labs

Apex Laboratories



Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

CHAIN OF CUSTODY

Company: **EES ENVIRONMENTAL** Project Mgr: **CHRIS RHEA** Project Name: **DEBOCK'S TEXACO** Project #: **2093-01**
 Address: **240 N BROADWAY STE 203, PORTLAND, OR** Phone: **503 847 7740** Fax: **503-718-0333** Email: **CHRIS@EES-ENV.COM**
 Lab #: **ASD023A** PO#: **2093-01** coc **5** of **9**
 Sampled by: **DANIELE PETERS**

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	ANALYSIS REQUEST	
					YES	NO
B11-16	4-3-18	1040	S	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
B11-20	1045	S	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B11-25	1050	S	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B12-3	1100	S	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B12-5	1105	S	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B12-10	1110	S	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B12-16	1210	S	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B12-20	1215	S	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B12-25	1225	S	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
B13-3	1245	S	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Site Location: OR WA
 Other: _____

SPECIAL INSTRUCTIONS:

TAT Requested (circle): **1 Day** 2 Day 3 Day 4 DAY 5 DAY Other: _____

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: **DANIELE B. PETERS** Date: **4/6/18** Signature: *[Signature]* Date: **4/6/18**
 RECEIVED BY: _____
 Signature: _____ Date: _____
 Printed Name: **DANIELE B. PETERS** Time: **1130** Printed Name: **Charles Hoffman** Time: **1130**
 Company: **EES** Company: **Apex Labs**

Apex Laboratories



Kevin J. Friscia, Project Manager

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Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

CHAIN OF CUSTODY

Company: **EES ENVIRONMENTAL** Project Mgr: **CHRIS RHEA** PO# _____
 Address: **240 N BROADWAY STE 203, PORTLAND, OR** Phone: **503.847.2740** Fax: _____
 Sampled by: **DANIELE PETERS** Email: **CHRIS@EES-ENV.COM**

Lab # **A800129** COC **6 of 9**

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-ACID	NWTPH-DX	NWTPH-GX	8260 VOCs Full List	8260 RBDM VOCs	8260 HVOCs	8260 BTEX VOCs	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TTO	RCRA Metals (8)	TCLP Metals (8)	AT, Sb, As, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Hg, Mn, Mo, Ni, K, Se, Ag, Na, TL, V, Zn	TOTAL DISS TCLP
B12-5	4-2-18	12:50	S	3															
B6-W		13:05	W	7															
B8-W		13:20	W	7															
B7-W		14:00	W	7															
B13-10		14:25	S	3															
B13-15		14:30	S	3															
B13-16.5		14:40	S	3															
B13-20		14:45	S	3															
B13-25		14:50	S	3															
B9-W		16:30	W	7															

Site Location: OR **WA**
 Other: _____

Normal Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): **1 Day** 2 Day 3 Day 4 DAY 5 DAY Other: _____

SPECIAL INSTRUCTIONS: _____

RECEIVED BY: _____ RECEIVED BY: _____
 Signature: **Daniele B. Peters** Date: **4/6/18** Signature: _____ Date: _____
 Printed Name: **DANIELE B. PETERS** Printed Name: **Chris Rhea** Time: **11:30** Time: _____
 Company: **EES** Company: **Apex Labs**

Apex Laboratories



Kevin J. Friscia, Project Manager

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

Lab # ASD0120A COC 7 of 9

CHAIN OF CUSTODY

APEX LABS

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: EES ENVIRONMENTAL		Project Mgr: CHRIS RHEA		Project Name: DEBOCKS TEXACO		Project # 2093-01	
Address: 240 N BROADWAY STE 203, PORTLAND, OR		Phone: 503 947 2740		Fax: -		Email: CHRIS@EES-ENVY.COM	
Sampled by: DANIELE PETERS		ANALYSIS REQUEST					
Site Location: OR	Other: (WA)	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	
SAMPLE ID							
1	B10-0		4/18/18	0800	W	7	
2	B14-3			0950	S	3	
3	B14-5			0955	S	3	
4	B14-10			1000	S	3	
5	B14-16			1010	S	3	
6	B14-20			1015	S	3	
7	B14-25			1020	S	3	
8	B15-3			1245	S	3	
9	B15-5			1250	S	3	
10	B15-10			1255	S	3	

Normal Turn Around Time (TAT) = 7-10 Business Days	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
TAT Requested (circle)	1 Day	2 Day
	4 DAY	5 DAY
	Other: _____	

RECEIVED BY: Danielle B. Peters	Signature: _____	Date: 4/16/18
RECEIVED BY: _____	Signature: _____	Date: _____
Printed Name: DANIELE B. PETERS	Printed Name: _____	Time: _____
Company: EES	Company: _____	Company: _____

Apex Laboratories



Kevin J. Friscia, Project Manager

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Apex Labs

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

APEX LABS **CHAIN OF CUSTODY** Lab # ASD0139 coc 8 of 9

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: **EES ENVIRONMENTAL** Project Mgr: **CHRIS RHEA** Project Name: **DEBOCKS TEYALO** Project # **2093-01**

Address: **240 N BROADWAY STE 203, PORTLAND, OR** Phone: **503 847 2740** Email: **CHRIS@EES-ENV.COM**

Sampled by: **DAMELE PETERS**

Site Location: OR WA Other: _____

SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	ANALYSIS REQUEST			
					8260 VOCs Full List	8260 RBDM VOCs	8260 HVOCS	8260 BTEX VOCs
B15-15	4-4-18	1300	S	5				
B15-20	↓	1305	S	3				
B15-25	↓	1310	S	3				
B16-3	4-5-18	0930	S	4				
B16-5	↓	0935	S	4				
B16-10	↓	0945	S	4				
B16-12.5	↓	0950	S	3				
B16-14	↓	0955	S	3				
B16-20	↓	1005	S	4				
B16-25	↓	1005	S	4				

LAB ID # _____

Normal Turn Around Time (TAT) = 10 Business Days YES NO

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: _____

SAMPLES ARE HELD FOR 30 DAYS

RECEIVED BY: *Damele Peters* Date: 4/6/18 Signature: _____ Date: _____

RELINQUISHED BY: _____ Signature: _____ Date: _____

Printed Name: **DAMELE B. PETERS** Time: 11:30 Printed Name: **Chris Rhea** Time: 1:10

Company: **EES** Company: **Apex Labs**

Apex Laboratories



Kevin J. Friscia, Project Manager

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503-718-0333 Fax

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris Rhea

Reported:
04/27/18 08:32

CHAIN OF CUSTODY

Lab # 880023A coc 9 of 9

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: EES ENVIRONMENTAL Project Mgr: CHRIS RHEA Project # 2093-01
 Address: 240 N BROADWAY STE 203 PORTLAND, OR Project Name: DEBOCK TEXACO Email: CHRIS@EES-ENV.COM
 Sampled by: DANIELE PETERS Phone: 503-947-7340 Fax: _____

SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	SPECIAL INSTRUCTIONS:		COMMENTS
					1 Day	2 Day	
B17-3	4/5/18	1145	S	4			
B17-5	4/5/18	1150	S	4			
B17-10	4/5/18	1245	S	4			
B17-15	4/5/18	1250	S	3			
B17-16-5	4/5/18	1300	S	4			
B17-20	4/5/18	1255	S	4			
B17-25	4/5/18	1310	S	4			
TRIP BLANK				3			

Site Location: OR WA Other: _____

RELINQUISHED BY: DANIELE PETERS Date: 4/18/18 RECEIVED BY: _____
 Signature: DANIELE PETERS Title: Project Manager Date: 4/18/18 Signature: _____
 Title: Project Manager Date: 4/18/18 Signature: _____

Company: Apex Labs

Apex Laboratories



Kevin J. Friscia, Project Manager

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Apex Labs

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 Tigard, OR 97223
 503-718-2323 Phone
 503-718-0333 Fax

EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Reported: 04/27/18 08:32
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APEX LABS COOLER RECEIPT FORM

Client: EES Element WO#: A8 P0259

Project/Project #: Debock's Texaco

Delivery info:

Date/Time Received: 4/6/18 @ 1130 By: CFH

Delivered by: Apex Client ESS FedEx UPS Swift Senvoy SDS Other

Cooler Inspection Inspected by: CFH : 4/6/18 @ 1347

Chain of Custody Included? Yes No Custody Seals? Yes No

Signed/Dated by Client? Yes No

Signed/Dated by Apex? Yes No

	<u>Cooler #1</u>	<u>Cooler #2</u>	<u>Cooler #3</u>	<u>Cooler #4</u>	<u>Cooler #5</u>	<u>Cooler #6</u>	<u>Cooler #7</u>
Temperature (deg. C)							
Received on Ice? (Y/N)							
Temp. Blanks? (Y/N)	<u>5.9</u>	<u>4.8</u>	<u>2.6</u>	<u>1.0</u>	<u>1.1</u>		
Ice Type: (Gel/Real/Other)							
Condition:	<u>Good</u>						

Cooler out of temp? (Y/N) Possible reason why: _____
 If some coolers are in temp and some out, were green dot applied to out of temperature samples? Yes/No/NA

Samples Inspection: Inspected by: AKC : 4/7/18 @ 1435

All Samples Intact? Yes No Comments: _____

Bottle Labels/COCs agree? Yes No Comments: Trip Blanks #1743(3)

Containers/Volumes Received Appropriate for Analysis? Yes No Comments: _____



Do VOA Vials have Visible Headspace? Yes No NA

Comments: _____

Water Samples: pH Checked and Appropriate (except VOAs): Yes No NA

Comments: B6-W & B8-W 2 1/2 HCl Ambers pH ~7, B7-W 1/2 HCl Ambers pH ~7

Additional Information: _____

Labeled by:	Witness:	Cooler Inspected by:	See Project Contact Form: Y
		<u>CFH</u>	





3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Apex Laboratories
Kevin Friscia
12232 S.W. Garden Place
Tigard, OR 97223

RE: A8D0239
Work Order Number: 1804190

April 25, 2018

Attention Kevin Friscia:

Fremont Analytical, Inc. received 3 sample(s) on 4/11/2018 for the analyses presented in the following report.

Extractable Petroleum Hydrocarbons by NWEPH
Sample Moisture (Percent Moisture)
Volatile Petroleum Hydrocarbons by NWVPH

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike C. Ridgeway", written in a cursive style.

Mike Ridgeway
Laboratory Director



CLIENT: Apex Laboratories
Project: A8D0239
Work Order: 1804190

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1804190-001	B6-17	04/02/2018 2:50 PM	04/11/2018 1:05 PM
1804190-002	B9-16.5	04/03/2018 9:35 AM	04/11/2018 1:05 PM
1804190-003	B11-20	04/03/2018 10:45 AM	04/11/2018 1:05 PM



Case Narrative

WO#: 1804190

Date: 4/25/2018

CLIENT: Apex Laboratories**Project:** A8D0239

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



Qualifiers & Acronyms

WO#: 1804190

Date Reported: 4/25/2018

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

Original



Analytical Report

Work Order: 1804190

Date Reported: 4/25/2018

Client: Apex Laboratories

Collection Date: 4/2/2018 2:50:00 PM

Project: A8D0239

Lab ID: 1804190-001

Matrix: Soil

Client Sample ID: B6-17

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 20386

Analyst: SB

Aliphatic Hydrocarbon (C8-C10)	42.3	21.6	*	mg/Kg-dry	1	4/23/2018 7:40:00 PM
Aliphatic Hydrocarbon (C10-C12)	29.0	10.8		mg/Kg-dry	1	4/23/2018 7:40:00 PM
Aliphatic Hydrocarbon (C12-C16)	ND	10.8		mg/Kg-dry	1	4/23/2018 7:40:00 PM
Aliphatic Hydrocarbon (C16-C21)	ND	10.8		mg/Kg-dry	1	4/23/2018 7:40:00 PM
Aliphatic Hydrocarbon (C21-C34)	ND	10.8		mg/Kg-dry	1	4/23/2018 7:40:00 PM
Aromatic Hydrocarbon (C8-C10)	19.3	10.8		mg/Kg-dry	1	4/24/2018 3:36:00 AM
Aromatic Hydrocarbon (C10-C12)	16.0	10.8		mg/Kg-dry	1	4/24/2018 3:36:00 AM
Aromatic Hydrocarbon (C12-C16)	ND	10.8		mg/Kg-dry	1	4/24/2018 3:36:00 AM
Aromatic Hydrocarbon (C16-C21)	ND	10.8		mg/Kg-dry	1	4/24/2018 3:36:00 AM
Aromatic Hydrocarbon (C21-C34)	ND	10.8		mg/Kg-dry	1	4/24/2018 3:36:00 AM
Surr: 1-Chlorooctadecane	82.6	60 - 140		%Rec	1	4/23/2018 7:40:00 PM
Surr: o-Terphenyl	80.3	60 - 140		%Rec	1	4/24/2018 3:36:00 AM

NOTES:

* - Flagged value is not within established control limits.

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 20391

Analyst: MW

Aliphatic Hydrocarbon (C5-C6)	ND	1.69		mg/Kg-dry	1	4/14/2018 8:03:33 AM
Aliphatic Hydrocarbon (C6-C8)	12.4	2.42		mg/Kg-dry	1	4/14/2018 8:03:33 AM
Aliphatic Hydrocarbon (C8-C10)	20.3	1.36		mg/Kg-dry	1	4/14/2018 8:03:33 AM
Aliphatic Hydrocarbon (C10-C12)	20.2	1.45		mg/Kg-dry	1	4/14/2018 8:03:33 AM
Aromatic Hydrocarbon (C8-C10)	37.8	2.90		mg/Kg-dry	1	4/14/2018 8:03:33 AM
Aromatic Hydrocarbon (C10-C12)	48.0	0.581		mg/Kg-dry	1	4/14/2018 8:03:33 AM
Aromatic Hydrocarbon (C12-C13)	22.9	6.78		mg/Kg-dry	1	4/14/2018 8:03:33 AM
Benzene	ND	0.581		mg/Kg-dry	1	4/14/2018 8:03:33 AM
Toluene	ND	0.678		mg/Kg-dry	1	4/14/2018 8:03:33 AM
Ethylbenzene	2.16	0.678		mg/Kg-dry	1	4/14/2018 8:03:33 AM
m,p-Xylene	7.30	1.26		mg/Kg-dry	1	4/14/2018 8:03:33 AM
o-Xylene	1.43	0.581	Q	mg/Kg-dry	1	4/14/2018 8:03:33 AM
Naphthalene	2.93	0.484		mg/Kg-dry	1	4/14/2018 8:03:33 AM
Methyl tert-butyl ether (MTBE)	ND	0.484		mg/Kg-dry	1	4/14/2018 8:03:33 AM
Surr: 1,4-Difluorobenzene	119	65 - 140		%Rec	1	4/14/2018 8:03:33 AM
Surr: Bromofluorobenzene	100	65 - 140		%Rec	1	4/14/2018 8:03:33 AM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift)

Sample Moisture (Percent Moisture)

Batch ID: R42827

Analyst: NG

Percent Moisture	18.8	0.500		wt%	1	4/12/2018 9:57:58 AM
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Analytical Report

Work Order: 1804190
Date Reported: 4/25/2018

Client: Apex Laboratories

Collection Date: 4/3/2018 9:35:00 AM

Project: A8D0239

Lab ID: 1804190-002

Matrix: Soil

Client Sample ID: B9-16.5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 20386

Analyst: SB

Aliphatic Hydrocarbon (C8-C10)	34.8	24.4	*	mg/Kg-dry	1	4/23/2018 10:34:00 PM
Aliphatic Hydrocarbon (C10-C12)	24.2	12.2		mg/Kg-dry	1	4/23/2018 10:34:00 PM
Aliphatic Hydrocarbon (C12-C16)	ND	12.2		mg/Kg-dry	1	4/23/2018 10:34:00 PM
Aliphatic Hydrocarbon (C16-C21)	ND	12.2		mg/Kg-dry	1	4/23/2018 10:34:00 PM
Aliphatic Hydrocarbon (C21-C34)	ND	12.2		mg/Kg-dry	1	4/23/2018 10:34:00 PM
Aromatic Hydrocarbon (C8-C10)	ND	12.2		mg/Kg-dry	1	4/24/2018 6:27:00 AM
Aromatic Hydrocarbon (C10-C12)	ND	12.2		mg/Kg-dry	1	4/24/2018 6:27:00 AM
Aromatic Hydrocarbon (C12-C16)	ND	12.2		mg/Kg-dry	1	4/24/2018 6:27:00 AM
Aromatic Hydrocarbon (C16-C21)	ND	12.2		mg/Kg-dry	1	4/24/2018 6:27:00 AM
Aromatic Hydrocarbon (C21-C34)	ND	12.2		mg/Kg-dry	1	4/24/2018 6:27:00 AM
Surr: 1-Chlorooctadecane	87.2	60 - 140		%Rec	1	4/23/2018 10:34:00 PM
Surr: o-Terphenyl	88.4	60 - 140		%Rec	1	4/24/2018 6:27:00 AM

NOTES:

* - Flagged value is not within established control limits.

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 20391

Analyst: MW

Aliphatic Hydrocarbon (C5-C6)	2.56	1.72		mg/Kg-dry	1	4/14/2018 7:22:42 AM
Aliphatic Hydrocarbon (C6-C8)	240	24.6	D	mg/Kg-dry	10	4/14/2018 1:56:04 AM
Aliphatic Hydrocarbon (C8-C10)	430	13.8	D	mg/Kg-dry	10	4/14/2018 1:56:04 AM
Aliphatic Hydrocarbon (C10-C12)	199	14.8	D	mg/Kg-dry	10	4/14/2018 1:56:04 AM
Aromatic Hydrocarbon (C8-C10)	483	29.5	D	mg/Kg-dry	10	4/14/2018 1:56:04 AM
Aromatic Hydrocarbon (C10-C12)	790	11.8	D	mg/Kg-dry	20	4/17/2018 6:51:48 PM
Aromatic Hydrocarbon (C12-C13)	243	68.9	D	mg/Kg-dry	10	4/14/2018 1:56:04 AM
Benzene	ND	0.591		mg/Kg-dry	1	4/14/2018 7:22:42 AM
Toluene	7.63	0.689		mg/Kg-dry	1	4/14/2018 7:22:42 AM
Ethylbenzene	15.4	0.689		mg/Kg-dry	1	4/14/2018 7:22:42 AM
m,p-Xylene	31.7	1.28		mg/Kg-dry	1	4/14/2018 7:22:42 AM
o-Xylene	15.0	0.591	Q	mg/Kg-dry	1	4/14/2018 7:22:42 AM
Naphthalene	22.5	0.492		mg/Kg-dry	1	4/14/2018 7:22:42 AM
Methyl tert-butyl ether (MTBE)	ND	0.492		mg/Kg-dry	1	4/14/2018 7:22:42 AM
Surr: 1,4-Difluorobenzene	130	65 - 140		%Rec	1	4/14/2018 7:22:42 AM
Surr: Bromofluorobenzene	102	65 - 140	D	%Rec	10	4/14/2018 1:56:04 AM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift)

Sample Moisture (Percent Moisture)

Batch ID: R42827

Analyst: NG

Percent Moisture	23.2	0.500		wt%	1	4/12/2018 9:57:58 AM
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Original



Analytical Report

Work Order: 1804190
Date Reported: 4/25/2018

Client: Apex Laboratories

Collection Date: 4/3/2018 10:45:00 AM

Project: A8D0239

Lab ID: 1804190-003

Matrix: Soil

Client Sample ID: B11-20

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 20386

Analyst: SB

Aliphatic Hydrocarbon (C8-C10)	ND	23.7	*	mg/Kg-dry	1	4/23/2018 11:18:00 PM
Aliphatic Hydrocarbon (C10-C12)	ND	11.8		mg/Kg-dry	1	4/23/2018 11:18:00 PM
Aliphatic Hydrocarbon (C12-C16)	ND	11.8		mg/Kg-dry	1	4/23/2018 11:18:00 PM
Aliphatic Hydrocarbon (C16-C21)	ND	11.8		mg/Kg-dry	1	4/23/2018 11:18:00 PM
Aliphatic Hydrocarbon (C21-C34)	ND	11.8		mg/Kg-dry	1	4/23/2018 11:18:00 PM
Aromatic Hydrocarbon (C8-C10)	ND	11.8		mg/Kg-dry	1	4/24/2018 7:09:00 AM
Aromatic Hydrocarbon (C10-C12)	ND	11.8		mg/Kg-dry	1	4/24/2018 7:09:00 AM
Aromatic Hydrocarbon (C12-C16)	ND	11.8		mg/Kg-dry	1	4/24/2018 7:09:00 AM
Aromatic Hydrocarbon (C16-C21)	ND	11.8		mg/Kg-dry	1	4/24/2018 7:09:00 AM
Aromatic Hydrocarbon (C21-C34)	ND	11.8		mg/Kg-dry	1	4/24/2018 7:09:00 AM
Surr: 1-Chlorooctadecane	70.1	60 - 140		%Rec	1	4/23/2018 11:18:00 PM
Surr: o-Terphenyl	74.5	60 - 140		%Rec	1	4/24/2018 7:09:00 AM

NOTES:

* - Flagged value is not within established control limits.

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 20391

Analyst: MW

Aliphatic Hydrocarbon (C5-C6)	ND	1.53		mg/Kg-dry	1	4/14/2018 6:41:50 AM
Aliphatic Hydrocarbon (C6-C8)	ND	2.19		mg/Kg-dry	1	4/14/2018 6:41:50 AM
Aliphatic Hydrocarbon (C8-C10)	ND	1.23		mg/Kg-dry	1	4/14/2018 6:41:50 AM
Aliphatic Hydrocarbon (C10-C12)	ND	1.32		mg/Kg-dry	1	4/14/2018 6:41:50 AM
Aromatic Hydrocarbon (C8-C10)	3.52	2.63		mg/Kg-dry	1	4/14/2018 6:41:50 AM
Aromatic Hydrocarbon (C10-C12)	2.41	0.526		mg/Kg-dry	1	4/14/2018 6:41:50 AM
Aromatic Hydrocarbon (C12-C13)	ND	6.14		mg/Kg-dry	1	4/14/2018 6:41:50 AM
Benzene	ND	0.526		mg/Kg-dry	1	4/14/2018 6:41:50 AM
Toluene	ND	0.614		mg/Kg-dry	1	4/14/2018 6:41:50 AM
Ethylbenzene	ND	0.614		mg/Kg-dry	1	4/14/2018 6:41:50 AM
m,p-Xylene	ND	1.14		mg/Kg-dry	1	4/14/2018 6:41:50 AM
o-Xylene	ND	0.526		mg/Kg-dry	1	4/14/2018 6:41:50 AM
Naphthalene	0.515	0.439		mg/Kg-dry	1	4/14/2018 6:41:50 AM
Methyl tert-butyl ether (MTBE)	ND	0.439		mg/Kg-dry	1	4/14/2018 6:41:50 AM
Surr: 1,4-Difluorobenzene	117	65 - 140		%Rec	1	4/14/2018 6:41:50 AM
Surr: Bromofluorobenzene	114	65 - 140		%Rec	1	4/14/2018 6:41:50 AM

Sample Moisture (Percent Moisture)

Batch ID: R42827

Analyst: NG

Percent Moisture	21.4	0.500		wt%	1	4/12/2018 9:57:58 AM
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Work Order: 1804190
Client: Apex Laboratories
Project: A8D0239

QC SUMMARY REPORT
Extractable Petroleum Hydrocarbons by NWEPH

Sample ID MB-20386	SampType: MBLK	Units: mg/Kg	Prep Date: 4/13/2018	RunNo: 43076							
Client ID: MBLKS	Batch ID: 20386		Analysis Date: 4/23/2018	SeqNo: 832491							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C8-C10)	ND	20.0									*
Aliphatic Hydrocarbon (C10-C12)	ND	10.0									
Aliphatic Hydrocarbon (C12-C16)	ND	10.0									
Aliphatic Hydrocarbon (C16-C21)	ND	10.0									
Aliphatic Hydrocarbon (C21-C34)	ND	10.0									
Surr: 1-Chlorooctadecane	91.8		100.0		91.8	60	140				

NOTES:

* - Flagged value is not within established control limits.

Sample ID LCS-20386	SampType: LCS	Units: mg/Kg	Prep Date: 4/13/2018	RunNo: 43076							
Client ID: LCSS	Batch ID: 20386		Analysis Date: 4/23/2018	SeqNo: 832490							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C8-C10)	268	20.0	500.0	0	53.7	70	130				S
Aliphatic Hydrocarbon (C10-C12)	178	10.0	250.0	0	71.3	70	130				
Aliphatic Hydrocarbon (C12-C16)	234	10.0	250.0	0	93.7	70	130				
Aliphatic Hydrocarbon (C16-C21)	380	10.0	250.0	0	152	70	130				S
Aliphatic Hydrocarbon (C21-C34)	291	10.0	250.0	0	117	70	130				
Surr: 1-Chlorooctadecane	92.5		100.0		92.5	60	140				

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.

S - Outlying spike recovery observed (low bias). Samples will be qualified with a *.

Sample ID 1804190-001ADUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 4/13/2018	RunNo: 43076							
Client ID: B6-17	Batch ID: 20386		Analysis Date: 4/23/2018	SeqNo: 832489							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C8-C10)	32.4	20.7						42.32	26.5	30	*
Aliphatic Hydrocarbon (C10-C12)	19.3	10.3						28.97	40.1	30	
Aliphatic Hydrocarbon (C12-C16)	ND	10.3						0		30	
Aliphatic Hydrocarbon (C16-C21)	ND	10.3						0		30	
Aliphatic Hydrocarbon (C21-C34)	ND	10.3						0		30	

Date: 4/25/2018



Work Order: 1804190
CLIENT: Apex Laboratories
Project: A8D0239

QC SUMMARY REPORT
Extractable Petroleum Hydrocarbons by NWEPH

Sample ID 1804190-001ADUP	SampType: DUP	Units: mg/Kg-dry				Prep Date: 4/13/2018	RunNo: 43076				
Client ID: B6-17	Batch ID: 20386					Analysis Date: 4/23/2018	SeqNo: 832489				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1-Chlorooctadecane	97.7		103.4		94.5	60	140			0	

NOTES:

* - Flagged value is not within established control limits.

Sample ID 1804190-001AMS	SampType: MS	Units: mg/Kg-dry				Prep Date: 4/13/2018	RunNo: 43076				
Client ID: B6-17	Batch ID: 20386					Analysis Date: 4/23/2018	SeqNo: 832492				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C8-C10)	224	22.9	571.8	42.32	31.7	70	130				S
Aliphatic Hydrocarbon (C10-C12)	170	11.4	285.9	28.97	49.4	70	130				S
Aliphatic Hydrocarbon (C12-C16)	203	11.4	285.9	0	71.1	70	130				
Aliphatic Hydrocarbon (C16-C21)	361	11.4	285.9	0	126	70	130				
Aliphatic Hydrocarbon (C21-C34)	312	11.4	285.9	0	109	70	130				
Surr: 1-Chlorooctadecane	86.8		114.4		75.9	60	140				

NOTES:

S - Outlying spike recovery(ies) observed.

Sample ID 1804190-001AMSD	SampType: MSD	Units: mg/Kg-dry				Prep Date: 4/13/2018	RunNo: 43076				
Client ID: B6-17	Batch ID: 20386					Analysis Date: 4/23/2018	SeqNo: 832493				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C8-C10)	229	20.9	521.5	42.32	35.8	70	130	223.6	2.31	30	S
Aliphatic Hydrocarbon (C10-C12)	150	10.4	260.7	28.97	46.4	70	130	170.2	12.6	30	S
Aliphatic Hydrocarbon (C12-C16)	171	10.4	260.7	0	65.7	70	130	203.4	17.1	30	S
Aliphatic Hydrocarbon (C16-C21)	309	10.4	260.7	0	119	70	130	361.0	15.4	30	
Aliphatic Hydrocarbon (C21-C34)	304	10.4	260.7	0	117	70	130	312.3	2.71	30	
Surr: 1-Chlorooctadecane	72.8		104.3		69.8	60	140			0	

NOTES:

S - Outlying spike recovery(ies) observed.

Work Order: 1804190
CLIENT: Apex Laboratories
Project: A8D0239

QC SUMMARY REPORT
Extractable Petroleum Hydrocarbons by NWEPH

Sample ID MB-20386	SampType: MBLK	Units: mg/Kg	Prep Date: 4/13/2018	RunNo: 43076							
Client ID: MBLKS	Batch ID: 20386		Analysis Date: 4/24/2018	SeqNo: 832501							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aromatic Hydrocarbon (C8-C10)	ND	10.0									
Aromatic Hydrocarbon (C10-C12)	ND	10.0									
Aromatic Hydrocarbon (C12-C16)	ND	10.0									
Aromatic Hydrocarbon (C16-C21)	ND	10.0									
Aromatic Hydrocarbon (C21-C34)	ND	10.0									
Surr: o-Terphenyl	103		100.0		103	60	140				

Sample ID LCS-20386	SampType: LCS	Units: mg/Kg	Prep Date: 4/13/2018	RunNo: 43076							
Client ID: LCSS	Batch ID: 20386		Analysis Date: 4/24/2018	SeqNo: 832500							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aromatic Hydrocarbon (C8-C10)	243	10.0	250.0	0	97.1	70	130				
Aromatic Hydrocarbon (C10-C12)	243	10.0	250.0	0	97.3	70	130				
Aromatic Hydrocarbon (C12-C16)	249	10.0	250.0	0	99.6	70	130				
Aromatic Hydrocarbon (C16-C21)	260	10.0	250.0	0	104	70	130				
Aromatic Hydrocarbon (C21-C34)	249	10.0	250.0	0	99.5	70	130				
Surr: o-Terphenyl	101		100.0		101	60	140				

Sample ID 1804190-001ADUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 4/13/2018	RunNo: 43076							
Client ID: B6-17	Batch ID: 20386		Analysis Date: 4/24/2018	SeqNo: 832499							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aromatic Hydrocarbon (C8-C10)	16.9	10.3						19.26	13.1	30	
Aromatic Hydrocarbon (C10-C12)	ND	10.3						16.05	66.5	30	
Aromatic Hydrocarbon (C12-C16)	ND	10.3						0		30	
Aromatic Hydrocarbon (C16-C21)	ND	10.3						0		30	
Aromatic Hydrocarbon (C21-C34)	ND	10.3						0		30	
Surr: o-Terphenyl	91.1		103.4		88.1	60	140		0		

Work Order: 1804190
Client: Apex Laboratories
Project: A8D0239

QC SUMMARY REPORT
Extractable Petroleum Hydrocarbons by NWEPH

Sample ID 1804190-001AMS	SampType: MS	Units: mg/Kg-dry				Prep Date: 4/13/2018	RunNo: 43076				
Client ID: B6-17	Batch ID: 20386					Analysis Date: 4/24/2018	SeqNo: 832502				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aromatic Hydrocarbon (C8-C10)	235	11.4	285.9	19.26	75.5	70	130				
Aromatic Hydrocarbon (C10-C12)	238	11.4	285.9	16.05	77.8	70	130				
Aromatic Hydrocarbon (C12-C16)	250	11.4	285.9	3.627	86.1	70	130				
Aromatic Hydrocarbon (C16-C21)	265	11.4	285.9	0	92.7	70	130				
Aromatic Hydrocarbon (C21-C34)	214	11.4	285.9	0	74.7	70	130				
Surr: o-Terphenyl	96.4		114.4		84.3	60	140				

Sample ID 1804190-001AMSD	SampType: MSD	Units: mg/Kg-dry				Prep Date: 4/13/2018	RunNo: 43076				
Client ID: B6-17	Batch ID: 20386					Analysis Date: 4/24/2018	SeqNo: 832503				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aromatic Hydrocarbon (C8-C10)	214	10.4	260.7	19.26	74.7	70	130	235.1	9.38	30	
Aromatic Hydrocarbon (C10-C12)	222	10.4	260.7	16.05	79.0	70	130	238.5	7.10	30	
Aromatic Hydrocarbon (C12-C16)	219	10.4	260.7	3.627	82.4	70	130	249.7	13.3	30	
Aromatic Hydrocarbon (C16-C21)	242	10.4	260.7	0	92.7	70	130	265.0	9.15	30	
Aromatic Hydrocarbon (C21-C34)	237	10.4	260.7	0	90.9	70	130	213.6	10.4	30	
Surr: o-Terphenyl	84.7		104.3		81.3	60	140		0		



Work Order: 1804190
CLIENT: Apex Laboratories
Project: A8D0239

QC SUMMARY REPORT

Sample Moisture (Percent Moisture)

Sample ID 1804179-044ADUP	SampType: DUP	Units: wt%	Prep Date: 4/12/2018	RunNo: 42827							
Client ID: BATCH	Batch ID: R42827	Analysis Date: 4/12/2018	SeqNo: 827503								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	8.97	0.500						8.486	5.57	20	

Sample ID 1804179-068ADUP	SampType: DUP	Units: wt%	Prep Date: 4/12/2018	RunNo: 42827							
Client ID: BATCH	Batch ID: R42827	Analysis Date: 4/12/2018	SeqNo: 827510								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	9.07	0.500						9.042	0.277	20	



Work Order: 1804190
CLIENT: Apex Laboratories
Project: A8D0239

QC SUMMARY REPORT

Volatile Petroleum Hydrocarbons by NWVPH

Sample ID	LCS-20391	SampType:	LCS	Units:	mg/Kg	Prep Date:	4/13/2018	RunNo:	42945		
Client ID:	LCSS	Batch ID:	20391	Analysis Date:	4/13/2018	SeqNo:	829925				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	31.0	1.75	30.00	0	103	70	130				
Aliphatic Hydrocarbon (C6-C8)	9.79	2.50	10.00	0	97.9	70	130				
Aliphatic Hydrocarbon (C8-C10)	12.7	1.40	10.00	0	127	70	130				
Aliphatic Hydrocarbon (C10-C12)	11.1	1.50	10.00	0	111	70	130				
Aromatic Hydrocarbon (C8-C10)	51.3	3.00	40.00	0	128	70	130				
Aromatic Hydrocarbon (C10-C12)	10.1	0.600	10.00	0	101	70	130				
Aromatic Hydrocarbon (C12-C13)	9.47	7.00	10.00	0	94.7	70	130				
Benzene	11.3	0.600	10.00	0	113	70	130				
Toluene	11.5	0.700	10.00	0	115	70	130				
Ethylbenzene	11.4	0.700	10.00	0	114	70	130				
m,p-Xylene	22.0	1.30	20.00	0	110	70	130				
o-Xylene	10.9	0.600	10.00	0	109	70	130				
Naphthalene	9.54	0.500	10.00	0	95.4	70	130				
Methyl tert-butyl ether (MTBE)	14.9	0.500	10.00	0	149	70	130				S
Surr: 1,4-Difluorobenzene	2.67		2.500		107	65	140				
Surr: Bromofluorobenzene	2.78		2.500		111	65	140				

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.

Sample ID	MB-20391	SampType:	MBLK	Units:	mg/Kg	Prep Date:	4/13/2018	RunNo:	42945		
Client ID:	MBLKS	Batch ID:	20391	Analysis Date:	4/14/2018	SeqNo:	829925				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	ND	1.75		0	0						
Aliphatic Hydrocarbon (C6-C8)	ND	2.50		0	0						
Aliphatic Hydrocarbon (C8-C10)	ND	1.40		0	0						
Aliphatic Hydrocarbon (C10-C12)	ND	1.50		0	0						
Aromatic Hydrocarbon (C8-C10)	ND	3.00		0	0						
Aromatic Hydrocarbon (C10-C12)	ND	0.600		0	0						
Aromatic Hydrocarbon (C12-C13)	ND	7.00		0	0						
Benzene	ND	0.600		0	0						



Work Order: 1804190
CLIENT: Apex Laboratories
Project: A8D0239

QC SUMMARY REPORT

Volatile Petroleum Hydrocarbons by NWVPH

Sample ID	MB-20391	SampType:	MBLK	Units:	mg/Kg	Prep Date:	4/13/2018	RunNo:	42945		
Client ID:	MBLKS	Batch ID:	20391	Analysis Date:	4/14/2018	SeqNo:	829921				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	ND	0.700		0	0						
Ethylbenzene	ND	0.700		0	0						
m,p-Xylene	ND	1.30		0	0						
o-Xylene	ND	0.600		0	0						
Naphthalene	ND	0.500		0	0						
Methyl tert-butyl ether (MTBE)	ND	0.500		0	0						
Surr: 1,4-Difluorobenzene	2.98		2.500		119	65	140				
Surr: Bromofluorobenzene	2.72		2.500		109	65	140				

Sample ID	1804190-002BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	4/13/2018	RunNo:	42945		
Client ID:	B9-16.5	Batch ID:	20391	Analysis Date:	4/14/2018	SeqNo:	829914				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	ND	1.72		0	0			2.556	43.2	25	
Aliphatic Hydrocarbon (C6-C8)	272	2.46		0	0			282.3	3.70	25	E
Aliphatic Hydrocarbon (C8-C10)	443	1.38		0	0			466.1	4.98	25	E
Aliphatic Hydrocarbon (C10-C12)	193	1.48		0	0			122.7	44.8	25	RE
Aromatic Hydrocarbon (C8-C10)	510	2.95		0	0			530.0	3.87	25	E
Aromatic Hydrocarbon (C10-C12)	538	0.591		0	0			597.9	10.6	25	E
Aromatic Hydrocarbon (C12-C13)	96.0	6.89		0	0			97.54	1.63	25	
Benzene	ND	0.591		0	0			0		25	
Toluene	7.95	0.689		0	0			7.629	4.09	25	
Ethylbenzene	15.8	0.689		0	0			15.40	2.33	25	
m,p-Xylene	32.2	1.28		0	0			31.69	1.58	25	Q
o-Xylene	15.4	0.591		0	0			14.97	2.80	25	
Naphthalene	22.8	0.492		0	0			22.55	1.27	25	
Methyl tert-butyl ether (MTBE)	ND	0.492		0	0			0		25	
Surr: 1,4-Difluorobenzene	4.51		2.462		183	65	140		0		S
Surr: Bromofluorobenzene	32.4		2.462		1,320	65	140		0		S

Work Order: 1804190
CLIENT: Apex Laboratories
Project: A8D0239

QC SUMMARY REPORT
Volatile Petroleum Hydrocarbons by NWVPH

Sample ID 1804190-002BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 4/13/2018	RunNo: 42945							
Client ID: B9-16.5	Batch ID: 20391		Analysis Date: 4/14/2018	SeqNo: 829914							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

NOTES:

- S - Outlying surrogate recovery attributed to TPH interference.
- R - High RPD due to high analyte concentration. In this range, high RPD's may be expected.
- Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift)
- E - Estimated value. The amount exceeds the linear working range of the instrument.

Sample ID 1804190-003BMS	SampType: MS	Units: mg/Kg-dry	Prep Date: 4/13/2018	RunNo: 42945							
Client ID: B11-20	Batch ID: 20391		Analysis Date: 4/14/2018	SeqNo: 829994							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	30.0	1.53	26.31	0	114	70	130				
Aliphatic Hydrocarbon (C6-C8)	7.90	2.19	8.771	0	90.1	70	130				
Aliphatic Hydrocarbon (C8-C10)	11.2	1.23	8.771	0.5578	121	70	130				
Aliphatic Hydrocarbon (C10-C12)	10.7	1.32	8.771	1.246	107	70	130				
Aromatic Hydrocarbon (C8-C10)	51.0	2.63	35.08	3.521	135	70	130				S
Aromatic Hydrocarbon (C10-C12)	21.1	0.526	8.771	2.409	213	70	130				S
Aromatic Hydrocarbon (C12-C13)	14.0	6.14	8.771	0	160	70	130				S
Benzene	10.9	0.526	8.771	0	124	70	130				
Toluene	11.0	0.614	8.771	0	125	70	130				
Ethylbenzene	10.6	0.614	8.771	0.3344	117	70	130				
m,p-Xylene	22.3	1.14	17.54	1.067	121	70	130				
o-Xylene	10.5	0.526	8.771	0.3460	115	70	130				
Naphthalene	8.34	0.439	8.771	0.5150	89.2	70	130				
Methyl tert-butyl ether (MTBE)	13.5	0.439	8.771	0	154	70	130				S
Surr: 1,4-Difluorobenzene	2.60		2.193		119	65	140				
Surr: Bromofluorobenzene	2.31		2.193		105	65	140				

NOTES:

- S - Outlying spike recovery(ies) observed.

Work Order: 1804190
 CLIENT: Apex Laboratories
 Project: A8D0239

QC SUMMARY REPORT
Volatile Petroleum Hydrocarbons by NWVPH

Sample ID	1804190-003BMSD	SampType:	MSD	Units:	mg/Kg-dry	Prep Date:	4/13/2018	RunNo:	42945		
Client ID:	B11-20	Batch ID:	20391	Analysis Date:	4/14/2018	SeqNo:	830005				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	28.9	1.53	26.31	0	110	70	130	30.05	3.85	30	
Aliphatic Hydrocarbon (C6-C8)	9.21	2.19	8.771	0	105	70	130	7.905	15.3	30	
Aliphatic Hydrocarbon (C8-C10)	9.08	1.23	8.771	0.5578	97.1	70	130	11.16	20.6	30	
Aliphatic Hydrocarbon (C10-C12)	10.7	1.32	8.771	1.246	108	70	130	10.66	0.517	30	
Aromatic Hydrocarbon (C8-C10)	46.5	2.63	35.08	3.521	122	70	130	50.99	9.28	30	
Aromatic Hydrocarbon (C10-C12)	15.5	0.526	8.771	2.409	149	70	130	21.13	30.8	30	RS
Aromatic Hydrocarbon (C12-C13)	9.53	6.14	8.771	0	109	70	130	14.03	38.2	30	
Benzene	10.9	0.526	8.771	0	124	70	130	10.90	0.263	30	
Toluene	10.8	0.614	8.771	0	123	70	130	10.96	1.35	30	
Ethylbenzene	11.0	0.614	8.771	0.3344	122	70	130	10.62	3.96	30	
m,p-Xylene	22.5	1.14	17.54	1.067	122	70	130	22.29	0.800	30	
o-Xylene	10.7	0.526	8.771	0.3460	118	70	130	10.46	2.31	30	
Naphthalene	7.91	0.439	8.771	0.5150	84.3	70	130	8.340	5.31	30	
Methyl tert-butyl ether (MTBE)	11.8	0.439	8.771	0	134	70	130	13.52	13.6	30	S
Surr: 1,4-Difluorobenzene	2.63		2.193		120	65	140		0		
Surr: Bromofluorobenzene	2.46		2.193		112	65	140		0		

NOTES:

S - Outlying spike recoveries observed
 R - High RPD observed.



Sample Log-In Check List

Client Name: APEX	Work Order Number: 1804190
Logged by: Clare Griggs	Date Received: 4/11/2018 1:05:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? UPS

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Required
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >0°C to 10.0°C* Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text" value="Kevin Friscia"/>	Date:	<input type="text" value="4/12/2018"/>
By Whom:	<input type="text" value="Clare Griggs"/>	Via:	<input checked="" type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text" value="Received VOA (B9-20) not listed on COC."/>		
Client Instructions:	<input type="text" value="Send back to APEX. Proceed with analysis for B9-16.5."/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Cooler	5.5
Sample	5.0
Temp Blank	5.8

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

SUBCONTRACT ORDER

104 of 104

Apex Laboratories

A8D0239

1804190

SENDING LABORATORY:

Apex Laboratories
12232 S.W. Garden Place
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 718-0333
Project Manager: Kevin J. Friscia

RECEIVING LABORATORY:

Fremont Analytical
3600 Fremont Avenue N.
Seattle, WA 98103
Phone : (206) 352-3790
Fax: (206) 352-7178

Sample Name: B6-17 **Soil** **Sampled: 04/02/18 14:50** (A8D0239-10)

Analysis	Due	Expires	Comments
NWTPH-EPH (Sub)	04/19/18 17:00	04/16/18 14:50	
NWTPH-VPH (Sub)	04/19/18 17:00	04/16/18 14:50	
<i>Containers Supplied:</i>			
(B)8 oz Glass Jar			
(E)40 mL VOA - 5035 (MeOH)			
(F)40 mL VOA - 5035 (MeOH)			

HOLD

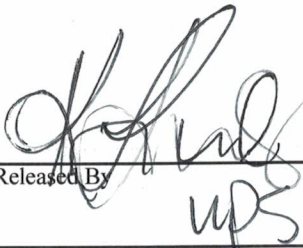
Sample Name: B9-16.5 **Soil** **Sampled: 04/03/18 09:35** (A8D0239-34)

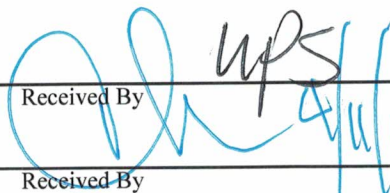
Analysis	Due	Expires	Comments
NWTPH-EPH (Sub)	04/19/18 17:00	04/17/18 09:35	
NWTPH-VPH (Sub)	04/19/18 17:00	04/17/18 09:35	
<i>Containers Supplied:</i>			
(D)40 mL VOA - 5035 (MeOH)			
(E)40 mL VOA - 5035 (MeOH)			
(F)4 oz Glass Jar			

Sample Name: B11-20 **Soil** **Sampled: 04/03/18 10:45** (A8D0239-42)

Analysis	Due	Expires	Comments
NWTPH-EPH (Sub)	04/19/18 17:00	04/17/18 10:45	
NWTPH-VPH (Sub)	04/19/18 17:00	04/17/18 10:45	
<i>Containers Supplied:</i>			
(C)40 mL VOA - 5035 (MeOH)			
(D)4 oz Glass Jar			

Standard TAT

Released By 
Date 4/10

Received By  UPS
Date 4/11/18

1305



Apex Laboratories, LLC

12232 S.W. Garden Place

Tigard, OR 97223

503-718-2323

EPA ID: OR01039

Monday, May 21, 2018

Chris Rhea
EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

RE: A8D0862 - Debocks Texaco - 2093-01

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A8D0862, which was received by the laboratory on 4/26/2018 at 1:05:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: KFriscia@apex-labs.com, or by phone at 503-718-2323.

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

Kevin J. Friscia, Project Manager

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Apex Laboratories, LLC

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: **2093-01**
Project Manager: **Chris Rhea**

Report ID:
A8D0862 - 05 21 18 1220

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	A8D0862-01	Water	04/24/18 18:13	04/26/18 13:05
MW-3	A8D0862-03	Water	04/24/18 13:08	04/26/18 13:05
MW-4	A8D0862-04	Water	04/25/18 10:48	04/26/18 13:05
MW-5	A8D0862-05	Water	04/25/18 13:33	04/26/18 13:05
MW-6	A8D0862-06	Water	04/25/18 14:43	04/26/18 13:05
MW-7	A8D0862-07	Water	04/25/18 09:29	04/26/18 13:05
MW-8	A8D0862-08	Water	04/25/18 16:38	04/26/18 13:05
MW-9	A8D0862-09	Water	04/24/18 16:50	04/26/18 13:05
MW-10	A8D0862-10	Water	04/24/18 14:25	04/26/18 13:05
MW-11	A8D0862-11	Water	04/24/18 11:40	04/26/18 13:05
MW-12	A8D0862-12	Water	04/24/18 10:55	04/26/18 13:05
MW-50	A8D0862-13	Water	04/24/18 15:00	04/26/18 13:05

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Kevin J. Friscia, Project Manager



EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris Rhea

Report ID:
A8D0862 - 05 21 18 1220

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-1 (A8D0862-01RE1)			Matrix: Water			Batch: 8041193		
Gasoline Range Organics	0.725	---	0.100	mg/L	1	04/27/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 101 %	Limits: 50-150 %	1	04/27/18	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		103 %	50-150 %	1	04/27/18	NWTPH-Gx (MS)		
MW-3 (A8D0862-03)			Matrix: Water			Batch: 8041193		
Gasoline Range Organics	0.821	---	0.100	mg/L	1	04/27/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 97 %	Limits: 50-150 %	1	04/27/18	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		102 %	50-150 %	1	04/27/18	NWTPH-Gx (MS)		
MW-4 (A8D0862-04)			Matrix: Water			Batch: 8041193		
Gasoline Range Organics	0.521	---	0.100	mg/L	1	04/27/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 96 %	Limits: 50-150 %	1	04/27/18	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		102 %	50-150 %	1	04/27/18	NWTPH-Gx (MS)		
MW-5 (A8D0862-05RE1)			Matrix: Water			Batch: 8041193		
Gasoline Range Organics	0.390	---	0.100	mg/L	1	04/27/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 99 %	Limits: 50-150 %	1	04/27/18	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		102 %	50-150 %	1	04/27/18	NWTPH-Gx (MS)		
MW-6 (A8D0862-06)			Matrix: Water			Batch: 8041193		
Gasoline Range Organics	ND	---	0.100	mg/L	1	04/27/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 99 %	Limits: 50-150 %	1	04/27/18	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		102 %	50-150 %	1	04/27/18	NWTPH-Gx (MS)		
MW-7 (A8D0862-07)			Matrix: Water			Batch: 8041193		
Gasoline Range Organics	ND	---	0.100	mg/L	1	04/27/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 97 %	Limits: 50-150 %	1	04/27/18	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		102 %	50-150 %	1	04/27/18	NWTPH-Gx (MS)		
MW-8 (A8D0862-08RE1)			Matrix: Water			Batch: 8041193		
Gasoline Range Organics	5.86	---	0.100	mg/L	1	04/27/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 106 %	Limits: 50-150 %	1	04/27/18	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		100 %	50-150 %	1	04/27/18	NWTPH-Gx (MS)		
MW-9 (A8D0862-09RE1)			Matrix: Water			Batch: 8041193		
Gasoline Range Organics	ND	---	0.100	mg/L	1	04/27/18	NWTPH-Gx (MS)	

Apex Laboratories

Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: **2093-01**
Project Manager: **Chris Rhea**

Report ID:
A8D0862 - 05 21 18 1220

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-9 (A8D0862-09RE1)			Matrix: Water			Batch: 8041193		
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 101 %	Limits: 50-150 %	1	04/27/18	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		102 %	50-150 %	1	04/27/18	NWTPH-Gx (MS)		
MW-10 (A8D0862-10)			Matrix: Water			Batch: 8041193		
Gasoline Range Organics	1.21	---	0.100	mg/L	1	04/27/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 101 %	Limits: 50-150 %	1	04/27/18	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		103 %	50-150 %	1	04/27/18	NWTPH-Gx (MS)		
MW-11 (A8D0862-11)			Matrix: Water			Batch: 8041193		
Gasoline Range Organics	2.06	---	0.100	mg/L	1	04/27/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 107 %	Limits: 50-150 %	1	04/27/18	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		97 %	50-150 %	1	04/27/18	NWTPH-Gx (MS)		
MW-12 (A8D0862-12)			Matrix: Water			Batch: 8041193		
Gasoline Range Organics	3.78	---	0.100	mg/L	1	04/27/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 101 %	Limits: 50-150 %	1	04/27/18	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		100 %	50-150 %	1	04/27/18	NWTPH-Gx (MS)		
MW-50 (A8D0862-13RE1)			Matrix: Water			Batch: 8041193		
Gasoline Range Organics	0.779	---	0.100	mg/L	1	04/27/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 104 %	Limits: 50-150 %	1	04/27/18	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		104 %	50-150 %	1	04/27/18	NWTPH-Gx (MS)		

Apex Laboratories

Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: **2093-01**
Project Manager: **Chris Rhea**

Report ID:
A8D0862 - 05 21 18 1220

ANALYTICAL SAMPLE RESULTS

RBDM Compounds (BTEX+) by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-1 (A8D0862-01RE1)			Matrix: Water			Batch: 8041193		
Benzene	ND	---	0.200	ug/L	1	04/27/18	EPA 8260C	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	04/27/18	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	04/27/18	EPA 8260C	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	04/27/18	EPA 8260C	
Naphthalene	ND	---	2.00	ug/L	1	04/27/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	04/27/18	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	04/27/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 106 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>
MW-3 (A8D0862-03)			Matrix: Water			Batch: 8041193		
Benzene	ND	---	0.200	ug/L	1	04/27/18	EPA 8260C	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	04/27/18	EPA 8260C	
Ethylbenzene	4.95	---	0.500	ug/L	1	04/27/18	EPA 8260C	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	04/27/18	EPA 8260C	
Naphthalene	ND	---	2.00	ug/L	1	04/27/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	04/27/18	EPA 8260C	
Xylenes, total	13.1	---	1.50	ug/L	1	04/27/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>
MW-4 (A8D0862-04)			Matrix: Water			Batch: 8041193		
Benzene	0.532	---	0.200	ug/L	1	04/27/18	EPA 8260C	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	04/27/18	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	04/27/18	EPA 8260C	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	04/27/18	EPA 8260C	
Naphthalene	ND	---	2.00	ug/L	1	04/27/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	04/27/18	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	04/27/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>
MW-5 (A8D0862-05RE1)			Matrix: Water			Batch: 8041193		
Benzene	0.243	---	0.200	ug/L	1	04/27/18	EPA 8260C	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	04/27/18	EPA 8260C	

Apex Laboratories

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Kevin J. Friscia, Project Manager



EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: **2093-01**
Project Manager: **Chris Rhea**

Report ID:
A8D0862 - 05 21 18 1220

ANALYTICAL SAMPLE RESULTS

RBDM Compounds (BTEX+) by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-5 (A8D0862-05RE1)			Matrix: Water			Batch: 8041193		
Ethylbenzene	ND	---	0.500	ug/L	1	04/27/18	EPA 8260C	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	04/27/18	EPA 8260C	
Naphthalene	ND	---	2.00	ug/L	1	04/27/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	04/27/18	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	04/27/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>
MW-6 (A8D0862-06)			Matrix: Water			Batch: 8041193		
Benzene	ND	---	0.200	ug/L	1	04/27/18	EPA 8260C	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	04/27/18	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	04/27/18	EPA 8260C	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	04/27/18	EPA 8260C	
Naphthalene	ND	---	2.00	ug/L	1	04/27/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	04/27/18	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	04/27/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 105 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>
MW-7 (A8D0862-07)			Matrix: Water			Batch: 8041193		
Benzene	ND	---	0.200	ug/L	1	04/27/18	EPA 8260C	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	04/27/18	EPA 8260C	
Ethylbenzene	0.740	---	0.500	ug/L	1	04/27/18	EPA 8260C	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	04/27/18	EPA 8260C	
Naphthalene	ND	---	2.00	ug/L	1	04/27/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	04/27/18	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	04/27/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>
MW-8 (A8D0862-08RE1)			Matrix: Water			Batch: 8041193		
Benzene	ND	---	0.200	ug/L	1	04/27/18	EPA 8260C	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	04/27/18	EPA 8260C	
Ethylbenzene	75.2	---	0.500	ug/L	1	04/27/18	EPA 8260C	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	04/27/18	EPA 8260C	

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ANALYTICAL SAMPLE RESULTS

RBDM Compounds (BTEX+) by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-8 (A8D0862-08RE1)			Matrix: Water			Batch: 8041193		
Naphthalene	57.9	---	2.00	ug/L	1	04/27/18	EPA 8260C	
Toluene	3.87	---	1.00	ug/L	1	04/27/18	EPA 8260C	
Xylenes, total	299	---	1.50	ug/L	1	04/27/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>
MW-9 (A8D0862-09RE1)			Matrix: Water			Batch: 8041193		
Benzene	ND	---	0.200	ug/L	1	04/27/18	EPA 8260C	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	04/27/18	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	04/27/18	EPA 8260C	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	04/27/18	EPA 8260C	
Naphthalene	ND	---	2.00	ug/L	1	04/27/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	04/27/18	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	04/27/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>
MW-10 (A8D0862-10)			Matrix: Water			Batch: 8041193		
Benzene	2.48	---	0.200	ug/L	1	04/27/18	EPA 8260C	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	04/27/18	EPA 8260C	
Ethylbenzene	9.22	---	0.500	ug/L	1	04/27/18	EPA 8260C	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	04/27/18	EPA 8260C	
Naphthalene	ND	---	2.00	ug/L	1	04/27/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	04/27/18	EPA 8260C	
Xylenes, total	12.6	---	1.50	ug/L	1	04/27/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 106 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>
MW-11 (A8D0862-11)			Matrix: Water			Batch: 8041193		
Benzene	0.733	---	0.200	ug/L	1	04/27/18	EPA 8260C	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	04/27/18	EPA 8260C	
Ethylbenzene	1.56	---	0.500	ug/L	1	04/27/18	EPA 8260C	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	04/27/18	EPA 8260C	
Naphthalene	ND	---	2.00	ug/L	1	04/27/18	EPA 8260C	
Toluene	1.54	---	1.00	ug/L	1	04/27/18	EPA 8260C	

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Kevin J. Friscia, Project Manager

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Project: **Debocks Texaco**
Project Number: **2093-01**
Project Manager: **Chris Rhea**

Report ID:
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ANALYTICAL SAMPLE RESULTS

RBDM Compounds (BTEX+) by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-11 (A8D0862-11)			Matrix: Water			Batch: 8041193		
Xylenes, total	15.6	---	1.50	ug/L	1	04/27/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 99 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>	
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>	<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>	<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>	
MW-12 (A8D0862-12)			Matrix: Water			Batch: 8041193		
Benzene	5.83	---	0.200	ug/L	1	04/27/18	EPA 8260C	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	04/27/18	EPA 8260C	
Ethylbenzene	92.0	---	0.500	ug/L	1	04/27/18	EPA 8260C	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	04/27/18	EPA 8260C	
Naphthalene	5.97	---	2.00	ug/L	1	04/27/18	EPA 8260C	
Toluene	49.5	---	1.00	ug/L	1	04/27/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>	
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>	<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>80-120 %</i>	<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>	
MW-12 (A8D0862-12RE1)			Matrix: Water			Batch: 8041193		
Xylenes, total	596	---	15.0	ug/L	10	04/27/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>	
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>	<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>	<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>	
MW-50 (A8D0862-13RE1)			Matrix: Water			Batch: 8041193		
Benzene	2.08	---	0.200	ug/L	1	04/27/18	EPA 8260C	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	04/27/18	EPA 8260C	
Ethylbenzene	3.79	---	0.500	ug/L	1	04/27/18	EPA 8260C	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	04/27/18	EPA 8260C	
Naphthalene	ND	---	2.00	ug/L	1	04/27/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	04/27/18	EPA 8260C	
Xylenes, total	5.12	---	1.50	ug/L	1	04/27/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 106 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>	
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>	<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>	<i>1</i>	<i>04/27/18</i>	<i>EPA 8260C</i>	

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Kevin J. Friscia, Project Manager

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Project: **Debocks Texaco**
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Project Manager: **Chris Rhea**

Report ID:
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ANALYTICAL SAMPLE RESULTS

1,2-Dibromoethane (EDB) by EPA 8260C SIM

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-1 (A8D0862-01)		Matrix: Water			Batch: 8050352		A-01	
1,2-Dibromoethane (EDB)	ND	0.0200	0.0200	ug/L	1	05/01/18	EPA 8260C SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 106 %		Limits: 70-130 %	1	05/01/18	EPA 8260C SIM	
Toluene-d8 (Surr)		103 %		70-130 %	1	05/01/18	EPA 8260C SIM	
4-Bromofluorobenzene (Surr)		94 %		70-130 %	1	05/01/18	EPA 8260C SIM	
MW-3 (A8D0862-03)		Matrix: Water			Batch: 8050352		A-01	
1,2-Dibromoethane (EDB)	ND	0.0200	0.0200	ug/L	1	05/01/18	EPA 8260C SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 107 %		Limits: 70-130 %	1	05/01/18	EPA 8260C SIM	
Toluene-d8 (Surr)		113 %		70-130 %	1	05/01/18	EPA 8260C SIM	
4-Bromofluorobenzene (Surr)		94 %		70-130 %	1	05/01/18	EPA 8260C SIM	
MW-4 (A8D0862-04)		Matrix: Water			Batch: 8050352		A-01	
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	05/01/18	EPA 8260C SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 106 %		Limits: 70-130 %	1	05/01/18	EPA 8260C SIM	
Toluene-d8 (Surr)		108 %		70-130 %	1	05/01/18	EPA 8260C SIM	
4-Bromofluorobenzene (Surr)		98 %		70-130 %	1	05/01/18	EPA 8260C SIM	
MW-5 (A8D0862-05)		Matrix: Water			Batch: 8050352		A-01	
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	05/01/18	EPA 8260C SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 105 %		Limits: 70-130 %	1	05/01/18	EPA 8260C SIM	
Toluene-d8 (Surr)		106 %		70-130 %	1	05/01/18	EPA 8260C SIM	
4-Bromofluorobenzene (Surr)		95 %		70-130 %	1	05/01/18	EPA 8260C SIM	
MW-6 (A8D0862-06)		Matrix: Water			Batch: 8050352		A-01	
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	05/01/18	EPA 8260C SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 108 %		Limits: 70-130 %	1	05/01/18	EPA 8260C SIM	
Toluene-d8 (Surr)		102 %		70-130 %	1	05/01/18	EPA 8260C SIM	
4-Bromofluorobenzene (Surr)		97 %		70-130 %	1	05/01/18	EPA 8260C SIM	
MW-7 (A8D0862-07)		Matrix: Water			Batch: 8050352		A-01	
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	05/01/18	EPA 8260C SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 104 %		Limits: 70-130 %	1	05/01/18	EPA 8260C SIM	
Toluene-d8 (Surr)		102 %		70-130 %	1	05/01/18	EPA 8260C SIM	
4-Bromofluorobenzene (Surr)		98 %		70-130 %	1	05/01/18	EPA 8260C SIM	
MW-8 (A8D0862-08)		Matrix: Water			Batch: 8050352		A-01	
1,2-Dibromoethane (EDB)	ND	0.0200	0.0200	ug/L	1	05/01/18	EPA 8260C SIM	

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ANALYTICAL SAMPLE RESULTS

1,2-Dibromoethane (EDB) by EPA 8260C SIM

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-8 (A8D0862-08)		Matrix: Water			Batch: 8050352		A-01	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 108 %	Limits: 70-130 %	1	05/01/18	EPA 8260C SIM		
Toluene-d8 (Surr)		127 %	70-130 %	1	05/01/18	EPA 8260C SIM		
4-Bromofluorobenzene (Surr)		90 %	70-130 %	1	05/01/18	EPA 8260C SIM		
MW-9 (A8D0862-09)		Matrix: Water			Batch: 8050352		A-01	
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	05/01/18	EPA 8260C SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 105 %	Limits: 70-130 %	1	05/01/18	EPA 8260C SIM		
Toluene-d8 (Surr)		101 %	70-130 %	1	05/01/18	EPA 8260C SIM		
4-Bromofluorobenzene (Surr)		99 %	70-130 %	1	05/01/18	EPA 8260C SIM		
MW-10 (A8D0862-10)		Matrix: Water			Batch: 8050352		A-01	
1,2-Dibromoethane (EDB)	ND	0.0200	0.0200	ug/L	1	05/01/18	EPA 8260C SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 110 %	Limits: 70-130 %	1	05/01/18	EPA 8260C SIM		
Toluene-d8 (Surr)		111 %	70-130 %	1	05/01/18	EPA 8260C SIM		
4-Bromofluorobenzene (Surr)		94 %	70-130 %	1	05/01/18	EPA 8260C SIM		
MW-11 (A8D0862-11)		Matrix: Water			Batch: 8050352		A-01	
1,2-Dibromoethane (EDB)	ND	0.0200	0.0200	ug/L	1	05/01/18	EPA 8260C SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 109 %	Limits: 70-130 %	1	05/01/18	EPA 8260C SIM		
Toluene-d8 (Surr)		122 %	70-130 %	1	05/01/18	EPA 8260C SIM		
4-Bromofluorobenzene (Surr)		93 %	70-130 %	1	05/01/18	EPA 8260C SIM		
MW-12 (A8D0862-12)		Matrix: Water			Batch: 8050352		A-01	
1,2-Dibromoethane (EDB)	ND	0.0200	0.0200	ug/L	1	05/01/18	EPA 8260C SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 108 %	Limits: 70-130 %	1	05/01/18	EPA 8260C SIM		
Toluene-d8 (Surr)		109 %	70-130 %	1	05/01/18	EPA 8260C SIM		
4-Bromofluorobenzene (Surr)		94 %	70-130 %	1	05/01/18	EPA 8260C SIM		
MW-50 (A8D0862-13)		Matrix: Water			Batch: 8050352		A-01, V-01	
1,2-Dibromoethane (EDB)	ND	0.0200	0.0200	ug/L	1	05/01/18	EPA 8260C SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery: 102 %	Limits: 70-130 %	1	05/01/18	EPA 8260C SIM		
Toluene-d8 (Surr)		105 %	70-130 %	1	05/01/18	EPA 8260C SIM		
4-Bromofluorobenzene (Surr)		95 %	70-130 %	1	05/01/18	EPA 8260C SIM		

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240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: **2093-01**
Project Manager: **Chris Rhea**

Report ID:
A8D0862 - 05 21 18 1220

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-1 (A8D0862-01)		Matrix: Water						
Batch: 8041215								
Lead	ND	---	0.200	ug/L	1	05/01/18	EPA 200 8	
MW-3 (A8D0862-03)		Matrix: Water						
Batch: 8041215								
Lead	ND	---	0.200	ug/L	1	05/01/18	EPA 200 8	
MW-4 (A8D0862-04)		Matrix: Water						
Batch: 8041215								
Lead	0.930	---	0.200	ug/L	1	05/01/18	EPA 200 8	
MW-5 (A8D0862-05)		Matrix: Water						
Batch: 8041215								
Lead	0.943	---	0.200	ug/L	1	05/01/18	EPA 200 8	
MW-6 (A8D0862-06)		Matrix: Water						
Batch: 8041215								
Lead	0.824	---	0.200	ug/L	1	05/01/18	EPA 200 8	
MW-7 (A8D0862-07)		Matrix: Water						
Batch: 8041215								
Lead	1.47	---	0.200	ug/L	1	05/01/18	EPA 200 8	
MW-8 (A8D0862-08)		Matrix: Water						
Batch: 8041215								
Lead	3.84	---	0.200	ug/L	1	05/01/18	EPA 200 8	
MW-9 (A8D0862-09)		Matrix: Water						
Batch: 8041215								
Lead	2.47	---	0.200	ug/L	1	05/01/18	EPA 200 8	
MW-10 (A8D0862-10)		Matrix: Water						
Batch: 8041215								
Lead	1.13	---	0.200	ug/L	1	05/01/18	EPA 200 8	
MW-11 (A8D0862-11)		Matrix: Water						
Batch: 8041215								
Lead	0.716	---	0.200	ug/L	1	05/01/18	EPA 200 8	

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Kevin J. Friscia, Project Manager

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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-12 (A8D0862-12)		Matrix: Water						
Batch: 8041215								
Lead	0.905	---	0.200	ug/L	1	05/01/18	EPA 200 8	
MW-50 (A8D0862-13)		Matrix: Water						
Batch: 8041215								
Lead	0.954	---	0.200	ug/L	1	05/01/18	EPA 200 8	

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ANALYTICAL SAMPLE RESULTS

Dissolved Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-1 (A8D0862-01)		Matrix: Water						
Batch: 8041210								
Lead	0.200	---	0.200	ug/L	1	04/27/18	EPA 200 8 (Diss)	
MW-3 (A8D0862-03)		Matrix: Water						
Batch: 8041210								
Lead	0.444	---	0.200	ug/L	1	04/27/18	EPA 200 8 (Diss)	
MW-4 (A8D0862-04)		Matrix: Water						
Batch: 8041210								
Lead	0.644	---	0.200	ug/L	1	04/27/18	EPA 200 8 (Diss)	
MW-5 (A8D0862-05)		Matrix: Water						
Batch: 8041210								
Lead	0.711	---	0.200	ug/L	1	04/27/18	EPA 200 8 (Diss)	
MW-6 (A8D0862-06)		Matrix: Water						
Batch: 8041210								
Lead	0.233	---	0.200	ug/L	1	04/27/18	EPA 200 8 (Diss)	
MW-7 (A8D0862-07)		Matrix: Water						
Batch: 8041210								
Lead	0.711	---	0.200	ug/L	1	04/27/18	EPA 200 8 (Diss)	
MW-8 (A8D0862-08)		Matrix: Water						
Batch: 8041210								
Lead	0.656	---	0.200	ug/L	1	04/27/18	EPA 200 8 (Diss)	
MW-9 (A8D0862-09)		Matrix: Water						
Batch: 8041210								
Lead	ND	---	0.200	ug/L	1	04/27/18	EPA 200 8 (Diss)	
MW-10 (A8D0862-10RE1)		Matrix: Water						
Batch: 8041210								
Lead	1.09	---	0.600	ug/L	3	04/30/18	EPA 200 8 (Diss)	
MW-11 (A8D0862-11)		Matrix: Water						
Batch: 8041210								
Lead	0.611	---	0.200	ug/L	1	04/30/18	EPA 200 8 (Diss)	

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Report ID:
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ANALYTICAL SAMPLE RESULTS

Dissolved Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-12 (A8D0862-12RE1)			Matrix: Water					
<u>Batch: 8041210</u>								
Lead	1.07	---	0.600	ug/L	3	04/30/18	EPA 200 8 (Diss)	
MW-50 (A8D0862-13RE1)			Matrix: Water					
<u>Batch: 8041210</u>								
Lead	0.854	---	0.600	ug/L	3	04/30/18	EPA 200 8 (Diss)	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8041193 - EPA 5030B						Water						
Blank (8041193-BLK1)			Prepared: 04/27/18 09:46 Analyzed: 04/27/18 11:07									
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	0.100	mg/L	1	---	---	---	---	---	---	---
Surr: 4-Bromofluorobenzene (Sur)	Recovery: 98 %		Limits: 50-150 %		Dilution: 1x							
1,4-Difluorobenzene (Sur)	102 %		50-150 %		"							
LCS (8041193-BS2)			Prepared: 04/27/18 09:46 Analyzed: 04/27/18 10:40									
NWTPH-Gx (MS)												
Gasoline Range Organics	0.467	---	0.100	mg/L	1	0.500	---	93	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)	Recovery: 102 %		Limits: 50-150 %		Dilution: 1x							
1,4-Difluorobenzene (Sur)	104 %		50-150 %		"							
Duplicate (8041193-DUP1)			Prepared: 04/27/18 10:50 Analyzed: 04/27/18 16:32									
QC Source Sample: MW-1 (A8D0862-01)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	10.0	mg/L	100	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)	Recovery: 99 %		Limits: 50-150 %		Dilution: 1x							
1,4-Difluorobenzene (Sur)	103 %		50-150 %		"							
Duplicate (8041193-DUP2)			Prepared: 04/27/18 10:50 Analyzed: 04/27/18 18:20									
QC Source Sample: MW-9 (A8D0862-09)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	10.0	mg/L	100	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)	Recovery: 100 %		Limits: 50-150 %		Dilution: 1x							
1,4-Difluorobenzene (Sur)	103 %		50-150 %		"							



EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Report ID: A8D0862 - 05 21 18 1220
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QUALITY CONTROL (QC) SAMPLE RESULTS

RBDM Compounds (BTEX+) by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8041193 - EPA 5030B												
Water												
Blank (8041193-BLK1)			Prepared: 04/27/18 09:46 Analyzed: 04/27/18 11:07									
EPA 8260C												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 104 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>98 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>96 %</i>	<i>80-120 %</i>		<i>"</i>						

LCS (8041193-BS1)												
Prepared: 04/27/18 09:46 Analyzed: 04/27/18 10:13												
EPA 8260C												
Benzene	20.1	---	0.200	ug/L	1	20.0	---	101	80-120%	---	---	
1,2-Dibromoethane (EDB)	19.4	---	0.500	ug/L	1	20.0	---	97	80-120%	---	---	
1,2-Dichloroethane (EDC)	19.1	---	0.500	ug/L	1	20.0	---	96	80-120%	---	---	
Ethylbenzene	19.1	---	0.500	ug/L	1	20.0	---	96	80-120%	---	---	
Methyl tert-butyl ether (MTBE)	18.5	---	1.00	ug/L	1	20.0	---	93	80-120%	---	---	
Naphthalene	19.3	---	2.00	ug/L	1	20.0	---	96	80-120%	---	---	
Toluene	18.8	---	1.00	ug/L	1	20.0	---	94	80-120%	---	---	
Xylenes, total	57.4	---	1.50	ug/L	1	60.0	---	96	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 105 %</i>	<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>100 %</i>	<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>100 %</i>	<i>80-120 %</i>		<i>"</i>						

Duplicate (8041193-DUP1)												
Prepared: 04/27/18 10:50 Analyzed: 04/27/18 16:32												
QC Source Sample: MW-1 (A8D0862-01)												
EPA 8260C												
Benzene	ND	---	20.0	ug/L	100	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	---	50.0	ug/L	100	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	50.0	ug/L	100	---	ND	---	---	---	30%	

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Kevin J. Friscia, Project Manager



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Project: **Debocks Texaco**
Project Number: **2093-01**
Project Manager: **Chris Rhea**

Report ID:
A8D0862 - 05 21 18 1220

QUALITY CONTROL (QC) SAMPLE RESULTS

RBDM Compounds (BTEX+) by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8041193 - EPA 5030B												
Water												
Duplicate (8041193-DUP1)			Prepared: 04/27/18 10:50 Analyzed: 04/27/18 16:32									
QC Source Sample: MW-1 (A8D0862-01)												
Ethylbenzene	ND	---	50.0	ug/L	100	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	100	ug/L	100	---	ND	---	---	---	30%	
Naphthalene	ND	---	200	ug/L	100	---	ND	---	---	---	30%	
Toluene	ND	---	100	ug/L	100	---	ND	---	---	---	30%	
Xylenes, total	ND	---	150	ug/L	100	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 105 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						
Duplicate (8041193-DUP2)			Prepared: 04/27/18 10:50 Analyzed: 04/27/18 18:20									
QC Source Sample: MW-9 (A8D0862-09)												
EPA 8260C												
Benzene	ND	---	20.0	ug/L	100	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	---	50.0	ug/L	100	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	50.0	ug/L	100	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	50.0	ug/L	100	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	100	ug/L	100	---	ND	---	---	---	30%	
Naphthalene	ND	---	200	ug/L	100	---	ND	---	---	---	30%	
Toluene	ND	---	100	ug/L	100	---	ND	---	---	---	30%	
Xylenes, total	ND	---	150	ug/L	100	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 105 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						
Matrix Spike (8041193-MS1)			Prepared: 04/27/18 10:50 Analyzed: 04/27/18 15:10									
QC Source Sample: MW-50 (A8D0862-13)												
EPA 8260C												
Benzene	23.1	---	0.200	ug/L	1	20.0	2.19	105	79-120%	---	---	
1,2-Dibromoethane (EDB)	20.6	---	0.500	ug/L	1	20.0	ND	103	77-121%	---	---	
1,2-Dichloroethane (EDC)	20.4	---	0.500	ug/L	1	20.0	ND	102	73-128%	---	---	
Ethylbenzene	23.9	---	0.500	ug/L	1	20.0	3.00	105	79-121%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

RBDM Compounds (BTEX+) by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8041193 - EPA 5030B						Water						
Matrix Spike (8041193-MS1)			Prepared: 04/27/18 10:50 Analyzed: 04/27/18 15:10									
QC Source Sample: MW-50 (A8D0862-13)												
Methyl tert-butyl ether (MTBE)	19.2	---	1.00	ug/L	1	20.0	ND	96	71-124%	---	---	
Naphthalene	20.8	---	2.00	ug/L	1	20.0	ND	104	61-128%	---	---	
Toluene	19.9	---	1.00	ug/L	1	20.0	ND	99	80-121%	---	---	
Xylenes, total	68.0	---	1.50	ug/L	1	60.0	6.03	103	79-121%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 104 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						



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QUALITY CONTROL (QC) SAMPLE RESULTS

1,2-Dibromoethane (EDB) by EPA 8260C SIM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8050352 - EPA 5030B						Water						
Blank (8050352-BLK1)			Prepared: 05/01/18 11:00 Analyzed: 05/01/18 12:57									
EPA 8260C SIM												
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr)	Recovery: 105 %		Limits: 70-130 %		Dilution: 1x							
Toluene-d8 (Surr)	103 %		70-130 %		"							
4-Bromofluorobenzene (Surr)	100 %		70-130 %		"							
LCS (8050352-BS1)			Prepared: 05/01/18 11:00 Analyzed: 05/01/18 12:30									
EPA 8260C SIM												
1,2-Dibromoethane (EDB)	0.174	0.0100	0.0200	ug/L	1	0.200	---	87	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr)	Recovery: 105 %		Limits: 70-130 %		Dilution: 1x							
Toluene-d8 (Surr)	103 %		70-130 %		"							
4-Bromofluorobenzene (Surr)	100 %		70-130 %		"							
Duplicate (8050352-DUP1)			Prepared: 05/01/18 13:04 Analyzed: 05/01/18 18:50									A-01
QC Source Sample: MW-11 (A8D0862-11)												
EPA 8260C SIM												
1,2-Dibromoethane (EDB)	ND	0.0200	0.0200	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr)	Recovery: 110 %		Limits: 70-130 %		Dilution: 1x							
Toluene-d8 (Surr)	130 %		70-130 %		"							
4-Bromofluorobenzene (Surr)	93 %		70-130 %		"							
Matrix Spike (8050352-MS1)			Prepared: 05/01/18 13:04 Analyzed: 05/01/18 14:47									A-01
QC Source Sample: MW-3 (A8D0862-03)												
EPA 8260C SIM												
1,2-Dibromoethane (EDB)	0.348	0.0100	0.0200	ug/L	1	0.200	0.0182	165	77-121%	---	---	Q-02
Surr: 1,4-Difluorobenzene (Surr)	Recovery: 108 %		Limits: 70-130 %		Dilution: 1x							
Toluene-d8 (Surr)	113 %		70-130 %		"							
4-Bromofluorobenzene (Surr)	94 %		70-130 %		"							



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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8041215 - EPA 3015A						Water						
Blank (8041215-BLK2)			Prepared: 04/27/18 13:35 Analyzed: 05/01/18 20:52									
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	Q-16
LCS (8041215-BS1)			Prepared: 04/27/18 13:35 Analyzed: 05/01/18 15:28									
<u>EPA 200.8</u>												
Lead	53.8	---	0.200	ug/L	1	55.6	---	97	85-115%	---	---	
Duplicate (8041215-DUP2)			Prepared: 04/27/18 14:50 Analyzed: 05/01/18 18:43									
<u>QC Source Sample: Non-SDG (A8D0847-03RE1)</u>												
Lead	ND	---	1.00	ug/L	5	---	ND	---	---	---	20%	Q-16
Matrix Spike (8041215-MS2)			Prepared: 04/27/18 13:35 Analyzed: 05/01/18 16:52									
<u>QC Source Sample: MW-50 (A8D0862-13)</u>												
<u>EPA 200.8</u>												
Lead	54.0	---	0.200	ug/L	1	55.6	0.954	95	70-130%	---	---	
Matrix Spike (8041215-MS3)			Prepared: 04/27/18 14:50 Analyzed: 05/01/18 18:48									
<u>QC Source Sample: Non-SDG (A8D0847-03RE1)</u>												
<u>EPA 200.8</u>												
Lead	54.6	---	1.00	ug/L	5	55.6	ND	98	70-130%	---	---	Q-16



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QUALITY CONTROL (QC) SAMPLE RESULTS

Dissolved Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8041210 - Matrix Matched Direct Inject						Water						
Blank (8041210-BLK1)			Prepared: 04/27/18 11:36 Analyzed: 04/27/18 16:24									
<u>EPA 200.8 (Diss)</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
LCS (8041210-BS1)			Prepared: 04/27/18 11:36 Analyzed: 04/27/18 16:27									
<u>EPA 200.8 (Diss)</u>												
Lead	51.8	---	0.200	ug/L	1	55.6	---	93	85-115%	---	---	---
Duplicate (8041210-DUP1)			Prepared: 04/27/18 11:36 Analyzed: 04/27/18 16:50									
<u>QC Source Sample: MW-4 (A8D0862-04)</u>												
<u>EPA 200.8 (Diss)</u>												
Lead	0.633	---	0.200	ug/L	1	---	0.644	---	---	2	20%	---
Matrix Spike (8041210-MS1)			Prepared: 04/27/18 11:36 Analyzed: 04/27/18 16:53									
<u>QC Source Sample: MW-4 (A8D0862-04)</u>												
<u>EPA 200.8 (Diss)</u>												
Lead	48.8	---	0.200	ug/L	1	55.6	0.644	87	70-130%	---	---	---
Matrix Spike (8041210-MS3)			Prepared: 04/27/18 11:36 Analyzed: 04/30/18 20:16									
<u>QC Source Sample: MW-50 (A8D0862-13RE1)</u>												
<u>EPA 200.8 (Diss)</u>												
Lead	55.1	---	2.00	ug/L	10	55.6	ND	99	70-130%	---	---	Q-16

Apex Laboratories

Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: **2093-01**
Project Manager: **Chris Rhea**

Report ID:
A8D0862 - 05 21 18 1220

SAMPLE PREPARATION INFORMATION

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8041193							
A8D0862-01RE1	Water	NWTPH-Gx (MS)	04/24/18 18:13	04/27/18 10:50	5mL/5mL	5mL/5mL	1.00
A8D0862-03	Water	NWTPH-Gx (MS)	04/24/18 13:08	04/27/18 10:50	5mL/5mL	5mL/5mL	1.00
A8D0862-04	Water	NWTPH-Gx (MS)	04/25/18 10:48	04/27/18 10:50	5mL/5mL	5mL/5mL	1.00
A8D0862-05RE1	Water	NWTPH-Gx (MS)	04/25/18 13:33	04/27/18 10:50	5mL/5mL	5mL/5mL	1.00
A8D0862-06	Water	NWTPH-Gx (MS)	04/25/18 14:43	04/27/18 10:50	5mL/5mL	5mL/5mL	1.00
A8D0862-07	Water	NWTPH-Gx (MS)	04/25/18 09:29	04/27/18 10:50	5mL/5mL	5mL/5mL	1.00
A8D0862-08RE1	Water	NWTPH-Gx (MS)	04/25/18 16:38	04/27/18 10:50	5mL/5mL	5mL/5mL	1.00
A8D0862-09RE1	Water	NWTPH-Gx (MS)	04/24/18 16:50	04/27/18 10:50	5mL/5mL	5mL/5mL	1.00
A8D0862-10	Water	NWTPH-Gx (MS)	04/24/18 14:25	04/27/18 10:50	5mL/5mL	5mL/5mL	1.00
A8D0862-11	Water	NWTPH-Gx (MS)	04/24/18 11:40	04/27/18 10:50	5mL/5mL	5mL/5mL	1.00
A8D0862-12	Water	NWTPH-Gx (MS)	04/24/18 10:55	04/27/18 10:50	5mL/5mL	5mL/5mL	1.00
A8D0862-13RE1	Water	NWTPH-Gx (MS)	04/24/18 15:00	04/27/18 10:50	5mL/5mL	5mL/5mL	1.00

RBDM Compounds (BTEX+) by EPA 8260C

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8041193							
A8D0862-01RE1	Water	EPA 8260C	04/24/18 18:13	04/27/18 10:50	5mL/5mL	5mL/5mL	1.00
A8D0862-03	Water	EPA 8260C	04/24/18 13:08	04/27/18 10:50	5mL/5mL	5mL/5mL	1.00
A8D0862-04	Water	EPA 8260C	04/25/18 10:48	04/27/18 10:50	5mL/5mL	5mL/5mL	1.00
A8D0862-05RE1	Water	EPA 8260C	04/25/18 13:33	04/27/18 10:50	5mL/5mL	5mL/5mL	1.00
A8D0862-06	Water	EPA 8260C	04/25/18 14:43	04/27/18 10:50	5mL/5mL	5mL/5mL	1.00
A8D0862-07	Water	EPA 8260C	04/25/18 09:29	04/27/18 10:50	5mL/5mL	5mL/5mL	1.00
A8D0862-08RE1	Water	EPA 8260C	04/25/18 16:38	04/27/18 10:50	5mL/5mL	5mL/5mL	1.00
A8D0862-09RE1	Water	EPA 8260C	04/24/18 16:50	04/27/18 10:50	5mL/5mL	5mL/5mL	1.00
A8D0862-10	Water	EPA 8260C	04/24/18 14:25	04/27/18 10:50	5mL/5mL	5mL/5mL	1.00
A8D0862-11	Water	EPA 8260C	04/24/18 11:40	04/27/18 10:50	5mL/5mL	5mL/5mL	1.00
A8D0862-12	Water	EPA 8260C	04/24/18 10:55	04/27/18 10:50	5mL/5mL	5mL/5mL	1.00
A8D0862-12RE1	Water	EPA 8260C	04/24/18 10:55	04/27/18 10:50	5mL/5mL	5mL/5mL	1.00
A8D0862-13RE1	Water	EPA 8260C	04/24/18 15:00	04/27/18 10:50	5mL/5mL	5mL/5mL	1.00

1,2-Dibromoethane (EDB) by EPA 8260C SIM

Apex Laboratories

Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: **2093-01**
Project Manager: **Chris Rhea**

Report ID:
A8D0862 - 05 21 18 1220

SAMPLE PREPARATION INFORMATION

1,2-Dibromoethane (EDB) by EPA 8260C SIM

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8050352							
A8D0862-01	Water	EPA 8260C SIM	04/24/18 18:13	05/01/18 13:04	5mL/5mL	5mL/5mL	1.00
A8D0862-03	Water	EPA 8260C SIM	04/24/18 13:08	05/01/18 13:04	5mL/5mL	5mL/5mL	1.00
A8D0862-04	Water	EPA 8260C SIM	04/25/18 10:48	05/01/18 13:04	5mL/5mL	5mL/5mL	1.00
A8D0862-05	Water	EPA 8260C SIM	04/25/18 13:33	05/01/18 13:04	5mL/5mL	5mL/5mL	1.00
A8D0862-06	Water	EPA 8260C SIM	04/25/18 14:43	05/01/18 13:04	5mL/5mL	5mL/5mL	1.00
A8D0862-07	Water	EPA 8260C SIM	04/25/18 09:29	05/01/18 13:04	5mL/5mL	5mL/5mL	1.00
A8D0862-08	Water	EPA 8260C SIM	04/25/18 16:38	05/01/18 13:04	5mL/5mL	5mL/5mL	1.00
A8D0862-09	Water	EPA 8260C SIM	04/24/18 16:50	05/01/18 13:04	5mL/5mL	5mL/5mL	1.00
A8D0862-10	Water	EPA 8260C SIM	04/24/18 14:25	05/01/18 13:04	5mL/5mL	5mL/5mL	1.00
A8D0862-11	Water	EPA 8260C SIM	04/24/18 11:40	05/01/18 13:04	5mL/5mL	5mL/5mL	1.00
A8D0862-12	Water	EPA 8260C SIM	04/24/18 10:55	05/01/18 13:04	5mL/5mL	5mL/5mL	1.00
A8D0862-13	Water	EPA 8260C SIM	04/24/18 15:00	05/01/18 13:04	5mL/5mL	5mL/5mL	1.00

Total Metals by EPA 200.8 (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8041215							
A8D0862-01	Water	EPA 200.8	04/24/18 18:13	04/27/18 13:35	45mL/50mL	45mL/50mL	1.00
A8D0862-03	Water	EPA 200.8	04/24/18 13:08	04/27/18 13:35	45mL/50mL	45mL/50mL	1.00
A8D0862-04	Water	EPA 200.8	04/25/18 10:48	04/27/18 13:35	45mL/50mL	45mL/50mL	1.00
A8D0862-05	Water	EPA 200.8	04/25/18 13:33	04/27/18 13:35	45mL/50mL	45mL/50mL	1.00
A8D0862-06	Water	EPA 200.8	04/25/18 14:43	04/27/18 13:35	45mL/50mL	45mL/50mL	1.00
A8D0862-07	Water	EPA 200.8	04/25/18 09:29	04/27/18 13:35	45mL/50mL	45mL/50mL	1.00
A8D0862-08	Water	EPA 200.8	04/25/18 16:38	04/27/18 13:35	45mL/50mL	45mL/50mL	1.00
A8D0862-09	Water	EPA 200.8	04/24/18 16:50	04/27/18 13:35	45mL/50mL	45mL/50mL	1.00
A8D0862-10	Water	EPA 200.8	04/24/18 14:25	04/27/18 13:35	45mL/50mL	45mL/50mL	1.00
A8D0862-11	Water	EPA 200.8	04/24/18 11:40	04/27/18 13:35	45mL/50mL	45mL/50mL	1.00
A8D0862-12	Water	EPA 200.8	04/24/18 10:55	04/27/18 13:35	45mL/50mL	45mL/50mL	1.00
A8D0862-13	Water	EPA 200.8	04/24/18 15:00	04/27/18 13:35	45mL/50mL	45mL/50mL	1.00

Dissolved Metals by EPA 200.8 (ICPMS)

Apex Laboratories

Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: **2093-01**
Project Manager: **Chris Rhea**

Report ID:
A8D0862 - 05 21 18 1220

SAMPLE PREPARATION INFORMATION

Dissolved Metals by EPA 200.8 (ICPMS)

Prep: Matrix Matched Direct Inject

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8041210							
A8D0862-01	Water	EPA 200.8 (Diss)	04/24/18 18:13	04/27/18 11:36	45mL/50mL	45mL/50mL	1.00
A8D0862-03	Water	EPA 200.8 (Diss)	04/24/18 13:08	04/27/18 11:36	45mL/50mL	45mL/50mL	1.00
A8D0862-04	Water	EPA 200.8 (Diss)	04/25/18 10:48	04/27/18 11:36	45mL/50mL	45mL/50mL	1.00
A8D0862-05	Water	EPA 200.8 (Diss)	04/25/18 13:33	04/27/18 11:36	45mL/50mL	45mL/50mL	1.00
A8D0862-06	Water	EPA 200.8 (Diss)	04/25/18 14:43	04/27/18 11:36	45mL/50mL	45mL/50mL	1.00
A8D0862-07	Water	EPA 200.8 (Diss)	04/25/18 09:29	04/27/18 11:36	45mL/50mL	45mL/50mL	1.00
A8D0862-08	Water	EPA 200.8 (Diss)	04/25/18 16:38	04/27/18 11:36	45mL/50mL	45mL/50mL	1.00
A8D0862-09	Water	EPA 200.8 (Diss)	04/24/18 16:50	04/27/18 11:36	45mL/50mL	45mL/50mL	1.00
A8D0862-10RE1	Water	EPA 200.8 (Diss)	04/24/18 14:25	04/27/18 11:36	45mL/50mL	45mL/50mL	1.00
A8D0862-11	Water	EPA 200.8 (Diss)	04/24/18 11:40	04/27/18 11:36	45mL/50mL	45mL/50mL	1.00
A8D0862-12RE1	Water	EPA 200.8 (Diss)	04/24/18 10:55	04/27/18 11:36	45mL/50mL	45mL/50mL	1.00
A8D0862-13RE1	Water	EPA 200.8 (Diss)	04/24/18 15:00	04/27/18 11:36	45mL/50mL	45mL/50mL	1.00

Apex Laboratories

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Kevin J. Friscia, Project Manager



Apex Laboratories, LLC

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris Rhea

Report ID:
A8D0862 - 05 21 18 1220

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

- A-01 MDL raised to 0.02ppb due to sample matrix interference.
- Q-02 Spike recovery is outside of established control limits due to matrix interference.
- Q-16 Reanalysis of an original Batch QC sample.
- V-01 Sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

Apex Laboratories

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Kevin J. Friscia, Project Manager



EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris Rhea

Report ID:
A8D0862 - 05 21 18 1220

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

- DET Analyte DETECTED at or above the detection or reporting limit.
- ND Analyte NOT DETECTED at or above the detection or reporting limit.
- NR Result Not Reported
- RPD Relative Percent Difference

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Duplicate

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) are not included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to 1/2 the Reporting Limit (RL).

-For Blank hits falling between 1/2 the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.



EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: **2093-01**
Project Manager: **Chris Rhea**

Report ID:
A8D0862 - 05 21 18 1220

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the blank results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met. Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.



EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Report ID: A8D0862 - 05 21 18 1220
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LABORATORY ACCREDITATION INFORMATION

TNI Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Cert?
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: **2093-01**
Project Manager: **Chris Rhea**

Report ID:
A8D0862 - 05 21 18 1220

COC 1 of 2

CHAIN OF CUSTODY

APEX LABS 12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: **EES** Project Mgr: **Chris Rhea** Project Name: **DeBocks Texaco** Project # **2093-01**

Address: **240 N. Broadway #203 Portland OR 97227** Phone: **503 847 2740** Fax: Email: **CHRIS@EES-ENVIRONMENT.COM**

Sampled by: **Nicoles Beach (NR)** ANALYSIS REQUEST

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTFPH-HCID	NWTFPH-DX	NWTFPH-GX	8260 VOC	8260 RDM VOCs	8260 BTEX	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TTO	RCRA Metals (8)	TCLP Metals (8)	Al, Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, P, Se, Ag, Na, Ti, V, Zn	1200-COLS	1200-Z
MW-1	9/24/18	1815	W	7															
MW-2	9/25/18	1755	O	3															
MW-3	9/24/18	1308	W	7															
MW-4	9/25/18	1408	W	7															
MW-5	9/25/18	1555	W	7															
MW-6	9/25/18	1447	W	7															
MW-7	9/25/18	0929	W	7															
MW-8	9/25/18	1658	W	7															
MW-9	9/25/18	1400	W	7															
MW-10	9/24/18	1425	W	7															

Normal Turn Around Time (TAT) = 7-10 Business Days YES NO

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: _____

SPECIAL INSTRUCTIONS: **Hold Samples, Analysis Pending**

REINQUISHED BY: **Nicoles Beach** Date: **9/26/18** Signature: *[Signature]* Printed Name: **Nicoles Beach** Time: **1305** Company: **EES**

RECEIVED BY: _____ Date: _____ Signature: _____ Printed Name: _____ Time: _____ Company: _____

Apex Laboratories

Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris Rhea

Report ID:
A8D0862 - 05 21 18 1220

COC 2 of 2

CHAIN OF CUSTODY

Lab # A8D0862

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

APEX LABS

Company: EES Project Mgr: Chris Rhea Project # 2093-01

Address: 240 N. Broadway #203 Portland OR Phone: _____ Email: CHRIS@EES-ENVIRONMENT.COM

Sampled by: Nicolas Grach (NYS) Fax: _____

Site Location: OR (WA)

Other: _____

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTFH-CID	NWTFH-DX	NWTFH-GX	8260 VOC	8260 RBDM VOCs	8260 BTEX	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TTO	RCRA Metals (8)	TCLP Metals (8)	AL, Sb, As, Ba, Be, Bi, Br, Cd, Cr, Cu, Fe, Hg, K, Mn, Ni, Pb, Se, Si, Sr, Tl, V, Zn	TOTAL DISS TCLP	1200-COLS	1200-Z
MW-11	4/24/18	1440	W	7																
MW-12	4/24/18	1055	W	7																
MW-SD	4/24/18	1500	W	7																

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS: Hold Samples, Analysis pending

Normal Turn Around Time (TAT) = 7-10 Business Days YES NO

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: _____

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: NYS of Date: 4/26/18 Signature: [Signature] Date: _____
Printed Name: Nicolas Grach Time: 1305 Printed Name: [Signature] Time: _____
Company: EES Company: [Signature]

RECEIVED BY: _____ Date: _____
Signature: _____ Date: _____
Printed Name: _____ Time: _____
Company: _____

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris Rhea

Report ID:
A8D0862 - 05 21 18 1220

CHAIN OF CUSTODY

APEX LABS 12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: **EES** Address: 240 N Broadway Ste 203 Portland, OR 97227 Project Mgr: Chris Rhea Project Name: Debocks Texaco Project # 2093-01

Lab # A8D0862 Email: Chris.Rhea@eeslab.com

Phone: 503-718-2323 Fax: 503-718-0333

Sampled by: Nancy Clark (NG)

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	ANALYSIS REQUEST			
						TCMP Metals (9)	RCRA Metals (9)	TCMP Metals (9)	TCMP Metals (9)
1		1/15/15	10:00	Soil	1	X	X	X	X
2		1/15/15	10:00	Soil	1	X	X	X	X
3		1/15/15	10:00	Soil	1	X	X	X	X
4		1/15/15	10:00	Soil	1	X	X	X	X
5		1/15/15	10:00	Soil	1	X	X	X	X
6		1/15/15	10:00	Soil	1	X	X	X	X
7		1/15/15	10:00	Soil	1	X	X	X	X
8		1/15/15	10:00	Soil	1	X	X	X	X
9		1/15/15	10:00	Soil	1	X	X	X	X
10		1/15/15	10:00	Soil	1	X	X	X	X

Normal Turn Around Time (TAT) = 7-10 Business Days YES NO

TAT Requested (circle) 3 DAY

SPECIAL INSTRUCTIONS: Will Sample for Lead

RELINQUISHED BY: [Signature] Date: 1/15/15 Signature: [Signature] Date: 1/15/15

RECEIVED BY: [Signature] Date: 1/15/15 Signature: [Signature] Date: 1/15/15

Printed Name: [Name] Time: 10:00 Printed Name: [Name] Time: 10:00

Company: [Company] Company: [Company]

Apex Laboratories

Kevin J. Friscia, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris Rhea

Report ID:
A8D0862 - 05 21 18 1220

* Revised *
COC # of 2

Lab # A8D0862

Project # 2093-01

CHAIN OF CUSTODY

APEX LABS

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: EES Project Mgr: Chris Rhea Phone: 503-718-0333

Address: 12232 S.W. Garden Place Tigard, OR 97223 Project Name: Debocks Texaco Email: Chris.Rhea@eeslab.com

Sampled by: Chris Rhea

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTR-HCID	NWTR-DX	NWTR-GX	8260 VOC	8260 RBDN VOCs	8260 RTEX-TZ	8270 SVOC	8270 SIML PAHs	8082 PCBs	600 TLO	KCMA Metals (B)	TCLP Metals (B)	AL, SR, AR, BA, BR, CA, CH, CR, CO, CU, FE, PB, Hg, Mn, Ni, K, Na, Ti, V, Zn	TOTAL DISS TCTP	1206-COLS	1200-Z	EDC+MTBR	LEAD Level	EDS	TOT + DISSEM
1	11-21-18	14:00	V	1			X		X	X											X	X	X	X
2	11-21-18	14:05	V	1			X		X	X											X	X	X	X
3	11-21-18	14:15	V	1			X		X	X											X	X	X	X
4																								
5																								
6																								
7																								
8																								
9																								
10																								

SPECIAL INSTRUCTIONS: Hand Sample Analysis pending

Normal Turn Around Time (TAT) = 7-10 Business Days

TAT Requested (circle): 3 DAY

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Chris Rhea Date: 11/21/18 Signature: [Signature] Date: 11/21/18 Signature: [Signature]

Printed Name: Chris Rhea Time: 14:05 Printed Name: [Signature] Time: [Signature]

Company: EES Company: [Signature]

EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Report ID: A8D0862 - 05 21 18 1220
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APEX LABS COOLER RECEIPT FORM

Client: EES Element WO#: A8 P0862

Project/Project #: DeBrocks Texaco 2093-01

Delivery info:
 Date/Time Received: 4/26/18 @ 1305 By: [Signature]
 Delivered by: Apex Client ESS FedEx UPS Swift Senvoy SDS Other

Cooler Inspection Inspected by: [Signature] : 4/26/18 @ 1305
 Chain of Custody Included? Yes No Custody Seals? Yes No
 Signed/Dated by Client? Yes No
 Signed/Dated by Apex? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (deg. C)	<u>5.2</u>						
Received on Ice? (Y/N)	<u>(Y)</u>						
Temp. Blanks? (Y/N)	<u>5.5</u>	<u>2.1</u>					
Ice Type: (Gel/Real/Other)							
Condition:	<u>good</u>						

Cooler out of temp? (Y/N) Possible reason why: _____
 If some coolers are in temp and some out, were green dot applied to out of temperature samples? Yes/No/NA (NA)

Samples Inspection: Inspected by: [Signature] : 4/26/18 @ 1915
 All Samples Intact? Yes No Comments: _____

Bottle Labels/COCs agree? Yes No Comments: MW-6 containers read T of 1453. MW-9 D on voas read 2/24/18. MW-11 D on voas

Containers/Volumes Received Appropriate for Analysis? Yes No Comments: _____

Do VOA Vials have Visible Headspace? Yes No NA
 Comments: 35 sample MW-50 have vis

Water Samples: pH Checked and Appropriate (except VOAs): Yes No NA
 Comments: _____

Additional Information: read 4/24/17.

Labeled by: [Signature] Witness: [Signature] Cooler Inspected by: [Signature] See Project Contact Form: Y





Apex Laboratories, LLC

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

Wednesday, August 8, 2018

Chris Rhea
EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

RE: A8G0533 - Debocks Texaco - 2093-01

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A8G0533, which was received by the laboratory on 7/19/2018 at 5:55:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: KFriscia@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of final reporting, unless prior arrangements have been made.

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris Rhea

Report ID:
A8G0533 - 08 08 18 1253

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	A8G0533-01	Water	07/18/18 12:33	07/19/18 17:55
MW-2	A8G0533-02	Water	07/18/18 16:18	07/19/18 17:55
MW-3	A8G0533-03	Water	07/18/18 09:29	07/19/18 17:55
MW-4	A8G0533-04	Water	07/19/18 10:36	07/19/18 17:55
MW-5	A8G0533-05	Water	07/19/18 11:24	07/19/18 17:55
MW-6	A8G0533-06	Water	07/18/18 15:31	07/19/18 17:55
MW-7	A8G0533-07	Water	07/19/18 09:39	07/19/18 17:55
MW-8	A8G0533-08	Water	07/18/18 12:32	07/19/18 17:55
MW-9	A8G0533-09	Water	07/18/18 08:31	07/19/18 17:55
MW-10	A8G0533-10	Water	07/18/18 11:25	07/19/18 17:55
MW-11	A8G0533-11	Water	07/18/18 10:25	07/19/18 17:55
MW-12	A8G0533-12	Water	07/19/18 08:29	07/19/18 17:55
MW-50	A8G0533-13	Water	07/18/18 12:32	07/19/18 17:55

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Kevin J. Friscia, Project Manager



Apex Laboratories, LLC

12232 S.W. Garden Place
 Tigard, OR 97223
 503-718-2323
 EPA ID: OR01039

EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Report ID: A8G0533 - 08 08 18 1253
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ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-2 (A8G0533-02)				Matrix: Water		Batch: 8070908		
Diesel	948	---	202	ug/L	1	07/24/18	NWTPH-Dx	F-18
Oil	ND	---	404	ug/L	1	07/24/18	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 99 %</i>		<i>Limits: 50-150 %</i>		<i>1</i>	<i>07/24/18</i>	<i>NWTPH-Dx</i>

Apex Laboratories

Kevin J. Friscia, Project Manager

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Report ID: A8G0533 - 08 08 18 1253
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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-1 (A8G0533-01)			Matrix: Water			Batch: 8070877		
Gasoline Range Organics	364	---	100	ug/L	1	07/20/18	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 101 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>1</i>	<i>07/20/18</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>		<i>105 %</i>	<i>50-150 %</i>	<i>1</i>	<i>1</i>	<i>07/20/18</i>	<i>NWTPH-Gx (MS)</i>	
MW-2 (A8G0533-02)			Matrix: Water			Batch: 8070877		
Gasoline Range Organics	14500	---	1000	ug/L	10	07/20/18	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 102 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>1</i>	<i>07/20/18</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>		<i>103 %</i>	<i>50-150 %</i>	<i>1</i>	<i>1</i>	<i>07/20/18</i>	<i>NWTPH-Gx (MS)</i>	
MW-3 (A8G0533-03)			Matrix: Water			Batch: 8070877		
Gasoline Range Organics	715	---	100	ug/L	1	07/20/18	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 104 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>1</i>	<i>07/20/18</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>		<i>104 %</i>	<i>50-150 %</i>	<i>1</i>	<i>1</i>	<i>07/20/18</i>	<i>NWTPH-Gx (MS)</i>	
MW-4 (A8G0533-04)			Matrix: Water			Batch: 8070877		
Gasoline Range Organics	121	---	100	ug/L	1	07/20/18	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 100 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>1</i>	<i>07/20/18</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>		<i>104 %</i>	<i>50-150 %</i>	<i>1</i>	<i>1</i>	<i>07/20/18</i>	<i>NWTPH-Gx (MS)</i>	
MW-5 (A8G0533-05)			Matrix: Water			Batch: 8070877		
Gasoline Range Organics	ND	---	100	ug/L	1	07/20/18	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 99 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>1</i>	<i>07/20/18</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>		<i>101 %</i>	<i>50-150 %</i>	<i>1</i>	<i>1</i>	<i>07/20/18</i>	<i>NWTPH-Gx (MS)</i>	
MW-6 (A8G0533-06)			Matrix: Water			Batch: 8070877		
Gasoline Range Organics	ND	---	100	ug/L	1	07/20/18	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 95 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>1</i>	<i>07/20/18</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>		<i>101 %</i>	<i>50-150 %</i>	<i>1</i>	<i>1</i>	<i>07/20/18</i>	<i>NWTPH-Gx (MS)</i>	
MW-7 (A8G0533-07)			Matrix: Water			Batch: 8070877		
Gasoline Range Organics	ND	---	100	ug/L	1	07/20/18	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 97 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>1</i>	<i>07/20/18</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>		<i>102 %</i>	<i>50-150 %</i>	<i>1</i>	<i>1</i>	<i>07/20/18</i>	<i>NWTPH-Gx (MS)</i>	

Apex Laboratories

Kevin J. Friscia, Project Manager

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Report ID: A8G0533 - 08 08 18 1253
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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-8 (A8G0533-08)			Matrix: Water			Batch: 8070877		
Gasoline Range Organics	1590	---	100	ug/L	1	07/20/18	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			Recovery: 107 %	Limits: 50-150 %	1	07/20/18	NWTPH-Gx (MS)	
<i>1,4-Difluorobenzene (Sur)</i>			111 %	50-150 %	1	07/20/18	NWTPH-Gx (MS)	
MW-9 (A8G0533-09)			Matrix: Water			Batch: 8070877		
Gasoline Range Organics	ND	---	100	ug/L	1	07/20/18	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			Recovery: 92 %	Limits: 50-150 %	1	07/20/18	NWTPH-Gx (MS)	
<i>1,4-Difluorobenzene (Sur)</i>			100 %	50-150 %	1	07/20/18	NWTPH-Gx (MS)	
MW-10 (A8G0533-10)			Matrix: Water			Batch: 8070877		
Gasoline Range Organics	466	---	100	ug/L	1	07/20/18	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			Recovery: 98 %	Limits: 50-150 %	1	07/20/18	NWTPH-Gx (MS)	
<i>1,4-Difluorobenzene (Sur)</i>			102 %	50-150 %	1	07/20/18	NWTPH-Gx (MS)	
MW-11 (A8G0533-11)			Matrix: Water			Batch: 8070895		
Gasoline Range Organics	834	---	100	ug/L	1	07/20/18	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			Recovery: 105 %	Limits: 50-150 %	1	07/20/18	NWTPH-Gx (MS)	
<i>1,4-Difluorobenzene (Sur)</i>			101 %	50-150 %	1	07/20/18	NWTPH-Gx (MS)	
MW-12 (A8G0533-12)			Matrix: Water			Batch: 8070895		
Gasoline Range Organics	2070	---	1000	ug/L	10	07/20/18	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			Recovery: 96 %	Limits: 50-150 %	1	07/20/18	NWTPH-Gx (MS)	
<i>1,4-Difluorobenzene (Sur)</i>			103 %	50-150 %	1	07/20/18	NWTPH-Gx (MS)	
MW-50 (A8G0533-13)			Matrix: Water			Batch: 8070895		
Gasoline Range Organics	1410	---	100	ug/L	1	07/20/18	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			Recovery: 103 %	Limits: 50-150 %	1	07/20/18	NWTPH-Gx (MS)	
<i>1,4-Difluorobenzene (Sur)</i>			103 %	50-150 %	1	07/20/18	NWTPH-Gx (MS)	

Apex Laboratories

Kevin J. Friscia, Project Manager

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Report ID: A8G0533 - 08 08 18 1253
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ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-1 (A8G0533-01)			Matrix: Water			Batch: 8070877		
Benzene	ND	---	0.200	ug/L	1	07/20/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	07/20/18	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	07/20/18	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	07/20/18	EPA 8260C	
Naphthalene	ND	---	2.00	ug/L	1	07/20/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>106 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
MW-2 (A8G0533-02)			Matrix: Water			Batch: 8070877		
Benzene	12.2	---	2.00	ug/L	10	07/20/18	EPA 8260C	
Toluene	34.2	---	10.0	ug/L	10	07/20/18	EPA 8260C	
Ethylbenzene	441	---	5.00	ug/L	10	07/20/18	EPA 8260C	
Xylenes, total	936	---	15.0	ug/L	10	07/20/18	EPA 8260C	
Naphthalene	193	---	20.0	ug/L	10	07/20/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>106 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>94 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
MW-3 (A8G0533-03)			Matrix: Water			Batch: 8070877		
Benzene	ND	---	0.200	ug/L	1	07/20/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	07/20/18	EPA 8260C	
Ethylbenzene	11.6	---	0.500	ug/L	1	07/20/18	EPA 8260C	
Xylenes, total	20.2	---	1.50	ug/L	1	07/20/18	EPA 8260C	
Naphthalene	ND	---	2.00	ug/L	1	07/20/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>106 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>94 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
MW-4 (A8G0533-04)			Matrix: Water			Batch: 8070877		
Benzene	0.208	---	0.200	ug/L	1	07/20/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	07/20/18	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	07/20/18	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	07/20/18	EPA 8260C	

Apex Laboratories

Kevin J. Friscia, Project Manager

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Report ID: A8G0533 - 08 08 18 1253
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ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-4 (A8G0533-04)			Matrix: Water			Batch: 8070877		
Naphthalene	ND	---	2.00	ug/L	1	07/20/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 107 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>108 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
MW-5 (A8G0533-05)			Matrix: Water			Batch: 8070877		
Benzene	ND	---	0.200	ug/L	1	07/20/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	07/20/18	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	07/20/18	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	07/20/18	EPA 8260C	
Naphthalene	ND	---	2.00	ug/L	1	07/20/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 105 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>107 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
MW-6 (A8G0533-06)			Matrix: Water			Batch: 8070877		
Benzene	ND	---	0.200	ug/L	1	07/20/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	07/20/18	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	07/20/18	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	07/20/18	EPA 8260C	
Naphthalene	ND	---	2.00	ug/L	1	07/20/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 105 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>107 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
MW-7 (A8G0533-07)			Matrix: Water			Batch: 8070877		
Benzene	ND	---	0.200	ug/L	1	07/20/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	07/20/18	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	07/20/18	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	07/20/18	EPA 8260C	
Naphthalene	ND	---	2.00	ug/L	1	07/20/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 105 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>107 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>

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ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-8 (A8G0533-08)			Matrix: Water			Batch: 8070877		
Benzene	ND	---	0.200	ug/L	1	07/20/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	07/20/18	EPA 8260C	
Ethylbenzene	8.93	---	0.500	ug/L	1	07/20/18	EPA 8260C	
Xylenes, total	18.0	---	1.50	ug/L	1	07/20/18	EPA 8260C	
Naphthalene	21.5	---	2.00	ug/L	1	07/20/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 108 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>109 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
MW-9 (A8G0533-09)			Matrix: Water			Batch: 8070877		
Benzene	ND	---	0.200	ug/L	1	07/20/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	07/20/18	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	07/20/18	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	07/20/18	EPA 8260C	
Naphthalene	ND	---	2.00	ug/L	1	07/20/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 105 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>108 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
MW-10 (A8G0533-10)			Matrix: Water			Batch: 8070877		
Benzene	1.23	---	0.200	ug/L	1	07/20/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	07/20/18	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	07/20/18	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	07/20/18	EPA 8260C	
Naphthalene	ND	---	2.00	ug/L	1	07/20/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 105 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>107 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
MW-11 (A8G0533-11)			Matrix: Water			Batch: 8070895		
Benzene	0.313	---	0.200	ug/L	1	07/20/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	07/20/18	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	07/20/18	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	07/20/18	EPA 8260C	

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ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-11 (A8G0533-11)			Matrix: Water			Batch: 8070895		
Naphthalene	ND	---	2.00	ug/L	1	07/20/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>94 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
MW-12 (A8G0533-12)			Matrix: Water			Batch: 8070895		
Benzene	2.26	---	2.00	ug/L	10	07/20/18	EPA 8260C	
Toluene	ND	---	10.0	ug/L	10	07/20/18	EPA 8260C	
Ethylbenzene	14.6	---	5.00	ug/L	10	07/20/18	EPA 8260C	
Xylenes, total	281	---	15.0	ug/L	10	07/20/18	EPA 8260C	
Naphthalene	ND	---	20.0	ug/L	10	07/20/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 105 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
MW-50 (A8G0533-13)			Matrix: Water			Batch: 8070895		
Benzene	ND	---	0.200	ug/L	1	07/20/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	07/20/18	EPA 8260C	
Ethylbenzene	8.85	---	0.500	ug/L	1	07/20/18	EPA 8260C	
Xylenes, total	16.4	---	1.50	ug/L	1	07/20/18	EPA 8260C	
Naphthalene	16.8	---	2.00	ug/L	1	07/20/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 106 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>94 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>

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ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-2 (A8G0533-02)			Matrix: Water			Batch: 8070877		
Benzene	12.2	---	2.00	ug/L	10	07/20/18	EPA 8260C	
1,2-Dibromoethane (EDB)	ND	---	5.00	ug/L	10	07/20/18	EPA 8260C	
1,2-Dichloroethane (EDC)	ND	---	5.00	ug/L	10	07/20/18	EPA 8260C	
Ethylbenzene	441	---	5.00	ug/L	10	07/20/18	EPA 8260C	
Methyl tert-butyl ether (MTBE)	ND	---	10.0	ug/L	10	07/20/18	EPA 8260C	
Naphthalene	193	---	20.0	ug/L	10	07/20/18	EPA 8260C	
Toluene	34.2	---	10.0	ug/L	10	07/20/18	EPA 8260C	
Xylenes, total	936	---	15.0	ug/L	10	07/20/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>106 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>94 %</i>		<i>80-120 %</i>		<i>1</i>	<i>07/20/18</i>	<i>EPA 8260C</i>



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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-1 (A8G0533-01)				Matrix: Water				
Batch: 8070931								
Lead	ND	---	0.200	ug/L	1	07/30/18	EPA 200.8	
MW-2 (A8G0533-02)				Matrix: Water				
Batch: 8070931								
Lead	2.60	---	0.200	ug/L	1	07/30/18	EPA 200.8	
MW-3 (A8G0533-03)				Matrix: Water				
Batch: 8070931								
Lead	ND	---	0.200	ug/L	1	07/30/18	EPA 200.8	
MW-8 (A8G0533-08)				Matrix: Water				
Batch: 8070931								
Lead	1.28	---	0.200	ug/L	1	07/30/18	EPA 200.8	
MW-10 (A8G0533-10)				Matrix: Water				
Batch: 8070931								
Lead	1.43	---	0.200	ug/L	1	07/30/18	EPA 200.8	
MW-11 (A8G0533-11)				Matrix: Water				
Batch: 8070931								
Lead	0.588	---	0.200	ug/L	1	07/30/18	EPA 200.8	
MW-12 (A8G0533-12)				Matrix: Water				
Batch: 8070931								
Lead	0.513	---	0.200	ug/L	1	07/30/18	EPA 200.8	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8070908 - EPA 3510C (Fuels/Acid Ext.)						Water						
Blank (8070908-BLK1)			Prepared: 07/23/18 06:59 Analyzed: 07/23/18 23:22									
<u>NWTPH-Dx</u>												
Diesel	ND	---	182	ug/L	1	---	---	---	---	---	---	
Oil	ND	---	364	ug/L	1	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 91 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
LCS (8070908-BS1)			Prepared: 07/23/18 06:59 Analyzed: 07/23/18 23:45									
<u>NWTPH-Dx</u>												
Diesel	1090	---	200	ug/L	1	1250	---	87	58-115%	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 95 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
LCS Dup (8070908-BSD1)			Prepared: 07/23/18 06:59 Analyzed: 07/24/18 00:08									Q-19
<u>NWTPH-Dx</u>												
Diesel	948	---	200	ug/L	1	1250	---	76	58-115%	14	20%	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8070877 - EPA 5030B												
Water												
Blank (8070877-BLK1) Prepared: 07/20/18 10:57 Analyzed: 07/20/18 12:22												
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 97 %	Limits: 50-150 %			Dilution: 1x					
1,4-Difluorobenzene (Sur)			105 %	50-150 %			"					
LCS (8070877-BS2) Prepared: 07/20/18 10:57 Analyzed: 07/20/18 11:53												
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	480	---	100	ug/L	1	500	---	96	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 97 %	Limits: 50-150 %			Dilution: 1x					
1,4-Difluorobenzene (Sur)			104 %	50-150 %			"					
Duplicate (8070877-DUP1) Prepared: 07/20/18 12:06 Analyzed: 07/20/18 21:49												
<u>QC Source Sample: MW-8 (A8G0533-08)</u>												
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	1530	---	100	ug/L	1	---	1590	---	---	4	30%	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 104 %	Limits: 50-150 %			Dilution: 1x					
1,4-Difluorobenzene (Sur)			108 %	50-150 %			"					
Duplicate (8070877-DUP2) Prepared: 07/20/18 12:06 Analyzed: 07/20/18 23:14 T-02												
<u>QC Source Sample: MW-10 (A8G0533-10)</u>												
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	505	---	100	ug/L	1	---	466	---	---	8	30%	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 100 %	Limits: 50-150 %			Dilution: 1x					
1,4-Difluorobenzene (Sur)			103 %	50-150 %			"					

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8070895 - EPA 5030B						Water						
Blank (8070895-BLK1)			Prepared: 07/20/18 15:23 Analyzed: 07/20/18 17:38									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 98 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		105 %		50-150 %		"						
LCS (8070895-BS3)			Prepared: 07/20/18 15:23 Analyzed: 07/20/18 17:11									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	470	---	100	ug/L	1	500	---	94	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 98 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		104 %		50-150 %		"						
Duplicate (8070895-DUP1)			Prepared: 07/20/18 16:43 Analyzed: 07/20/18 19:26									
<u>QC Source Sample: MW-12 (A8G0533-12)</u>												
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	2060	---	1000	ug/L	10	---	2070	---	---	0.5	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recovery: 100 %		Limits: 50-150 %		Dilution: 1x						
1,4-Difluorobenzene (Sur)		104 %		50-150 %		"						



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QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8070877 - EPA 5030B												
Water												
Blank (8070877-BLK1) Prepared: 07/20/18 10:57 Analyzed: 07/20/18 12:22												
<u>EPA 8260C</u>												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 108 % Limits: 80-120 % Dilution: 1x												
Toluene-d8 (Surr) 108 % 80-120 % "												
4-Bromofluorobenzene (Surr) 97 % 80-120 % "												
LCS (8070877-BS1) Prepared: 07/20/18 10:57 Analyzed: 07/20/18 11:25												
<u>EPA 8260C</u>												
Benzene	21.3	---	0.200	ug/L	1	20.0	---	106	80-120%	---	---	
Toluene	20.6	---	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
Ethylbenzene	20.3	---	0.500	ug/L	1	20.0	---	102	80-120%	---	---	
Xylenes, total	61.1	---	1.50	ug/L	1	60.0	---	102	80-120%	---	---	
Naphthalene	16.8	---	2.00	ug/L	1	20.0	---	84	80-120%	---	---	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 104 % Limits: 80-120 % Dilution: 1x												
Toluene-d8 (Surr) 105 % 80-120 % "												
4-Bromofluorobenzene (Surr) 92 % 80-120 % "												
Duplicate (8070877-DUP1) Prepared: 07/20/18 12:06 Analyzed: 07/20/18 21:49												
<u>QC Source Sample: MW-8 (A8G0533-08)</u>												
<u>EPA 8260C</u>												
Benzene	ND	---	0.200	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	---	1.00	ug/L	1	---	0.946	---	---	---	30%	
Ethylbenzene	8.44	---	0.500	ug/L	1	---	8.93	---	---	6	30%	
Xylenes, total	17.5	---	1.50	ug/L	1	---	18.0	---	---	3	30%	
Naphthalene	21.9	---	2.00	ug/L	1	---	21.5	---	---	2	30%	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 105 % Limits: 80-120 % Dilution: 1x												
Toluene-d8 (Surr) 110 % 80-120 % "												
4-Bromofluorobenzene (Surr) 95 % 80-120 % "												

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QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8070877 - EPA 5030B						Water						
Duplicate (8070877-DUP2)						Prepared: 07/20/18 12:06 Analyzed: 07/20/18 23:14						T-02
QC Source Sample: MW-10 (A8G0533-10)												
EPA 8260C												
Benzene	1.30	---	0.200	ug/L	1	---	1.23	---	---	5	30%	
Toluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	ND	---	0.500	ug/L	1	---	0.392	---	---	***	30%	Q-05
Xylenes, total	ND	---	1.50	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	---	2.00	ug/L	1	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 106 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>107 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>95 %</i>		<i>80-120 %</i>		<i>"</i>						



EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Report ID: A8G0533 - 08 08 18 1253
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QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8070895 - EPA 5030B												
Water												
Blank (8070895-BLK1) Prepared: 07/20/18 15:23 Analyzed: 07/20/18 17:38												
<u>EPA 8260C</u>												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr) Recovery: 108 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr) 99 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr) 97 % 80-120 % "</i>												
LCS (8070895-BS2) Prepared: 07/20/18 15:23 Analyzed: 07/20/18 16:44												
<u>EPA 8260C</u>												
Benzene	22.4	---	0.200	ug/L	1	20.0	---	112	80-120%	---	---	
Toluene	20.6	---	1.00	ug/L	1	20.0	---	103	80-120%	---	---	
Ethylbenzene	20.2	---	0.500	ug/L	1	20.0	---	101	80-120%	---	---	
Xylenes, total	59.7	---	1.50	ug/L	1	60.0	---	99	80-120%	---	---	
Naphthalene	16.6	---	2.00	ug/L	1	20.0	---	83	80-120%	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr) Recovery: 107 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr) 100 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr) 94 % 80-120 % "</i>												
Duplicate (8070895-DUP1) Prepared: 07/20/18 16:43 Analyzed: 07/20/18 19:26												
<u>QC Source Sample: MW-12 (A8G0533-12)</u>												
<u>EPA 8260C</u>												
Benzene	2.64	---	2.00	ug/L	10	---	2.26	---	---	16	30%	
Toluene	10.0	---	10.0	ug/L	10	---	9.82	---	---	2	30%	
Ethylbenzene	14.6	---	5.00	ug/L	10	---	14.6	---	---	0.3	30%	
Xylenes, total	283	---	15.0	ug/L	10	---	281	---	---	0.5	30%	
Naphthalene	ND	---	20.0	ug/L	10	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr) Recovery: 107 % Limits: 80-120 % Dilution: 1x</i>												
<i>Toluene-d8 (Surr) 99 % 80-120 % "</i>												
<i>4-Bromofluorobenzene (Surr) 98 % 80-120 % "</i>												

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: **2093-01**
Project Manager: **Chris Rhea**

Report ID:
A8G0533 - 08 08 18 1253

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8070877 - EPA 5030B												
Water												
Blank (8070877-BLK1)												
Prepared: 07/20/18 10:57 Analyzed: 07/20/18 12:22												
EPA 8260C												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Isopropylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Naphthalene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	---
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	---
Surr: 1,4-Difluorobenzene (Surr) Recovery: 108 % Limits: 80-120 % Dilution: 1x												
Toluene-d8 (Surr) 108 % 80-120 % "												
4-Bromofluorobenzene (Surr) 97 % 80-120 % "												

LCS (8070877-BS1)												
Prepared: 07/20/18 10:57 Analyzed: 07/20/18 11:25												
EPA 8260C												
Benzene	21.3	---	0.200	ug/L	1	20.0	---	106	80-120%	---	---	---
1,2-Dibromoethane (EDB)	20.7	---	0.500	ug/L	1	20.0	---	103	80-120%	---	---	---
1,2-Dichloroethane (EDC)	22.0	---	0.500	ug/L	1	20.0	---	110	80-120%	---	---	---
Ethylbenzene	20.3	---	0.500	ug/L	1	20.0	---	102	80-120%	---	---	---
Isopropylbenzene	20.1	---	1.00	ug/L	1	20.0	---	101	80-120%	---	---	---
Methyl tert-butyl ether (MTBE)	18.9	---	1.00	ug/L	1	20.0	---	95	80-120%	---	---	---
Naphthalene	16.8	---	2.00	ug/L	1	20.0	---	84	80-120%	---	---	---
Toluene	20.6	---	1.00	ug/L	1	20.0	---	103	80-120%	---	---	---
1,2,4-Trimethylbenzene	21.2	---	1.00	ug/L	1	20.0	---	106	80-120%	---	---	---
1,3,5-Trimethylbenzene	21.2	---	1.00	ug/L	1	20.0	---	106	80-120%	---	---	---
Xylenes, total	61.1	---	1.50	ug/L	1	60.0	---	102	80-120%	---	---	---
Surr: 1,4-Difluorobenzene (Surr) Recovery: 104 % Limits: 80-120 % Dilution: 1x												
Toluene-d8 (Surr) 105 % 80-120 % "												
4-Bromofluorobenzene (Surr) 92 % 80-120 % "												

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: **2093-01**
Project Manager: **Chris Rhea**

Report ID:
A8G0533 - 08 08 18 1253

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8070877 - EPA 5030B												
Water												
Duplicate (8070877-DUP1)			Prepared: 07/20/18 12:06 Analyzed: 07/20/18 21:49									
QC Source Sample: MW-8 (A8G0533-08)												
EPA 8260C												
Benzene	ND	---	0.200	ug/L	1	---	ND	---	---	---	30%	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	8.44	---	0.500	ug/L	1	---	8.93	---	---	6	30%	
Isopropylbenzene	2.30	---	1.00	ug/L	1	---	2.38	---	---	4	30%	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	21.9	---	2.00	ug/L	1	---	21.5	---	---	2	30%	
Toluene	ND	---	1.00	ug/L	1	---	0.946	---	---	***	30%	
1,2,4-Trimethylbenzene	6.23	---	1.00	ug/L	1	---	6.21	---	---	0.2	30%	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	Q-05
Xylenes, total	17.5	---	1.50	ug/L	1	---	18.0	---	---	3	30%	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 105 % Limits: 80-120 % Dilution: 1x												
Toluene-d8 (Surr) 110 % 80-120 % "												
4-Bromofluorobenzene (Surr) 95 % 80-120 % "												

Duplicate (8070877-DUP2)			Prepared: 07/20/18 12:06 Analyzed: 07/20/18 23:14										T-02
QC Source Sample: MW-10 (A8G0533-10)													
EPA 8260C													
Benzene	1.30	---	0.200	ug/L	1	---	1.23	---	---	5	30%		
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%		
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%		
Ethylbenzene	ND	---	0.500	ug/L	1	---	0.392	---	---	***	30%	Q-05	
Isopropylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%		
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%		
Naphthalene	ND	---	2.00	ug/L	1	---	ND	---	---	---	30%		
Toluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%		
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%		
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%		
Xylenes, total	ND	---	1.50	ug/L	1	---	ND	---	---	---	30%		
Surr: 1,4-Difluorobenzene (Surr) Recovery: 106 % Limits: 80-120 % Dilution: 1x													

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QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8070877 - EPA 5030B						Water						
Duplicate (8070877-DUP2)						Prepared: 07/20/18 12:06 Analyzed: 07/20/18 23:14						T-02
QC Source Sample: MW-10 (A8G0533-10)												
Surr: Toluene-d8 (Surr)		Recovery: 107 %		Limits: 80-120 %		Dilution: 1x						
4-Bromofluorobenzene (Surr)		95 %		80-120 %		"						



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QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8070895 - EPA 5030B						Water						
Duplicate (8070895-DUP1)			Prepared: 07/20/18 16:43 Analyzed: 07/20/18 19:26									
QC Source Sample: MW-12 (A8G0533-12)												
EPA 8260C												
Benzene	2.64	---	2.00	ug/L	10	---	2.26	---	---	16	30%	
1,2-Dibromoethane (EDB)	ND	---	5.00	ug/L	10	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	5.00	ug/L	10	---	ND	---	---	---	30%	
Ethylbenzene	14.6	---	5.00	ug/L	10	---	14.6	---	---	0.3	30%	
Isopropylbenzene	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%	
Naphthalene	ND	---	20.0	ug/L	10	---	ND	---	---	---	30%	
Toluene	10.0	---	10.0	ug/L	10	---	9.82	---	---	2	30%	
1,2,4-Trimethylbenzene	17.8	---	10.0	ug/L	10	---	17.8	---	---	0.06	30%	
1,3,5-Trimethylbenzene	21.5	---	10.0	ug/L	10	---	21.1	---	---	2	30%	
Xylenes, total	283	---	15.0	ug/L	10	---	281	---	---	0.5	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 107 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		99 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						



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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8070931 - EPA 3015A						Water						
Blank (8070931-BLK1)			Prepared: 07/23/18 13:31 Analyzed: 07/30/18 17:49									
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (8070931-BS1)			Prepared: 07/23/18 13:31 Analyzed: 07/30/18 18:02									
<u>EPA 200.8</u>												
Lead	57.0	---	0.200	ug/L	1	55.6	---	103	85-115%	---	---	
Duplicate (8070931-DUP1)			Prepared: 07/23/18 13:31 Analyzed: 07/30/18 18:24									
<u>QC Source Sample: MW-2 (A8G0533-02)</u>												
<u>EPA 200.8</u>												
Lead	2.66	---	0.200	ug/L	1	---	2.60	---	---	2	20%	
Matrix Spike (8070931-MS1)			Prepared: 07/23/18 13:31 Analyzed: 07/30/18 18:29									
<u>QC Source Sample: MW-2 (A8G0533-02)</u>												
<u>EPA 200.8</u>												
Lead	57.0	---	0.200	ug/L	1	55.6	2.60	98	70-130%	---	---	



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SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 8070908</u>							
A8G0533-02	Water	NWTPH-Dx	07/18/18 16:18	07/23/18 06:59	990mL/5mL	1000mL/5mL	1.01

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 8070877</u>							
A8G0533-01	Water	NWTPH-Gx (MS)	07/18/18 12:33	07/20/18 12:06	5mL/5mL	5mL/5mL	1.00
A8G0533-02	Water	NWTPH-Gx (MS)	07/18/18 16:18	07/20/18 12:06	5mL/5mL	5mL/5mL	1.00
A8G0533-03	Water	NWTPH-Gx (MS)	07/18/18 09:29	07/20/18 12:06	5mL/5mL	5mL/5mL	1.00
A8G0533-04	Water	NWTPH-Gx (MS)	07/19/18 10:36	07/20/18 12:06	5mL/5mL	5mL/5mL	1.00
A8G0533-05	Water	NWTPH-Gx (MS)	07/19/18 11:24	07/20/18 12:06	5mL/5mL	5mL/5mL	1.00
A8G0533-06	Water	NWTPH-Gx (MS)	07/18/18 15:31	07/20/18 12:06	5mL/5mL	5mL/5mL	1.00
A8G0533-07	Water	NWTPH-Gx (MS)	07/19/18 09:39	07/20/18 12:06	5mL/5mL	5mL/5mL	1.00
A8G0533-08	Water	NWTPH-Gx (MS)	07/18/18 12:32	07/20/18 12:06	5mL/5mL	5mL/5mL	1.00
A8G0533-09	Water	NWTPH-Gx (MS)	07/18/18 08:31	07/20/18 12:06	5mL/5mL	5mL/5mL	1.00
A8G0533-10	Water	NWTPH-Gx (MS)	07/18/18 11:25	07/20/18 12:06	5mL/5mL	5mL/5mL	1.00
<u>Batch: 8070895</u>							
A8G0533-11	Water	NWTPH-Gx (MS)	07/18/18 10:25	07/20/18 16:43	5mL/5mL	5mL/5mL	1.00
A8G0533-12	Water	NWTPH-Gx (MS)	07/19/18 08:29	07/20/18 16:43	5mL/5mL	5mL/5mL	1.00
A8G0533-13	Water	NWTPH-Gx (MS)	07/18/18 12:32	07/20/18 16:43	5mL/5mL	5mL/5mL	1.00

BTEX+N Compounds by EPA 8260C

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 8070877</u>							
A8G0533-01	Water	EPA 8260C	07/18/18 12:33	07/20/18 12:06	5mL/5mL	5mL/5mL	1.00
A8G0533-02	Water	EPA 8260C	07/18/18 16:18	07/20/18 12:06	5mL/5mL	5mL/5mL	1.00
A8G0533-03	Water	EPA 8260C	07/18/18 09:29	07/20/18 12:06	5mL/5mL	5mL/5mL	1.00
A8G0533-04	Water	EPA 8260C	07/19/18 10:36	07/20/18 12:06	5mL/5mL	5mL/5mL	1.00
A8G0533-05	Water	EPA 8260C	07/19/18 11:24	07/20/18 12:06	5mL/5mL	5mL/5mL	1.00
A8G0533-06	Water	EPA 8260C	07/18/18 15:31	07/20/18 12:06	5mL/5mL	5mL/5mL	1.00
A8G0533-07	Water	EPA 8260C	07/19/18 09:39	07/20/18 12:06	5mL/5mL	5mL/5mL	1.00
A8G0533-08	Water	EPA 8260C	07/18/18 12:32	07/20/18 12:06	5mL/5mL	5mL/5mL	1.00
A8G0533-09	Water	EPA 8260C	07/18/18 08:31	07/20/18 12:06	5mL/5mL	5mL/5mL	1.00

Apex Laboratories

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Kevin J. Friscia, Project Manager



EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: **2093-01**
Project Manager: **Chris Rhea**

Report ID:
A8G0533 - 08 08 18 1253

SAMPLE PREPARATION INFORMATION

BTEX+N Compounds by EPA 8260C

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A8G0533-10	Water	EPA 8260C	07/18/18 11:25	07/20/18 12:06	5mL/5mL	5mL/5mL	1.00
Batch: 8070895							
A8G0533-11	Water	EPA 8260C	07/18/18 10:25	07/20/18 16:43	5mL/5mL	5mL/5mL	1.00
A8G0533-12	Water	EPA 8260C	07/19/18 08:29	07/20/18 16:43	5mL/5mL	5mL/5mL	1.00
A8G0533-13	Water	EPA 8260C	07/18/18 12:32	07/20/18 16:43	5mL/5mL	5mL/5mL	1.00

Selected Volatile Organic Compounds by EPA 8260C

Prep: EPA 5030B

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A8G0533-02	Water	EPA 8260C	07/18/18 16:18	07/20/18 12:06	5mL/5mL	5mL/5mL	1.00

Total Metals by EPA 200.8 (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 8070931							
A8G0533-01	Water	EPA 200.8	07/18/18 12:33	07/23/18 13:31	45mL/50mL	45mL/50mL	1.00
A8G0533-02	Water	EPA 200.8	07/18/18 16:18	07/23/18 13:31	45mL/50mL	45mL/50mL	1.00
A8G0533-03	Water	EPA 200.8	07/18/18 09:29	07/23/18 13:31	45mL/50mL	45mL/50mL	1.00
A8G0533-08	Water	EPA 200.8	07/18/18 12:32	07/23/18 13:31	45mL/50mL	45mL/50mL	1.00
A8G0533-10	Water	EPA 200.8	07/18/18 11:25	07/23/18 13:31	45mL/50mL	45mL/50mL	1.00
A8G0533-11	Water	EPA 200.8	07/18/18 10:25	07/23/18 13:31	45mL/50mL	45mL/50mL	1.00
A8G0533-12	Water	EPA 200.8	07/19/18 08:29	07/23/18 13:31	45mL/50mL	45mL/50mL	1.00

Apex Laboratories

Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: **2093-01**
Project Manager: **Chris Rhea**

Report ID:
A8G0533 - 08 08 18 1253

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- F-18** Result for Diesel (Diesel Range Organics, C12-C24) is due to overlap from Gasoline or a Gasoline Range product.
- Q-05** Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- Q-19** Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- T-02** This Batch QC sample was analyzed outside of the method specified 12 hour tune window. Results are estimated.

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Kevin J. Friscia, Project Manager



EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: **2093-01**
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Report ID:
A8G0533 - 08 08 18 1253

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.
ND Analyte NOT DETECTED at or above the detection or reporting limit.
NR Result Not Reported
RPD Relative Percent Difference

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to 1/2 the Reporting Limit (RL).
-For Blank hits falling between 1/2 the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.



EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: **2093-01**
Project Manager: **Chris Rhea**

Report ID:
A8G0533 - 08 08 18 1253

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the blank results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.



EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Report ID: A8G0533 - 08 08 18 1253
--	--	---

LABORATORY ACCREDITATION INFORMATION

TNI Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: **2093-01**
Project Manager: **Chris Rhea**

Report ID:
A8G0533 - 08 08 18 1253

CHAIN OF CUSTODY

APEX LABS Lab # **A8G0533** PO# Project # **2093-01**
 12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333 Email: **chris@ees-env.com**

Company: **EES** Project Mgr: **Chris Rhea** Project Name: **Debocks Texaco**
 Address: **240 N Broadway Ste 203 Portland OR 97227** Phone: **503 847 2440** Fax: **---**

Sampled by: **Nicolas Bach (A8)**

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	TAT Requested (circle)				SPECIAL INSTRUCTIONS:
						1 Day	2 Day	3 Day	Other	
MW-1		7/18/18	1233	W	5					Normal Turn Around Time (TAT) = 10 Business Days YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> Held Analysis - field filtered samples Samples - Pending - labeled on the side of container
MW-2		7/18/18	1618	W	5					
MW-3		7/18/18	0824	W	5					
MW-4		7/19/18	1036	W	3					
MW-5		7/19/18	1124	W	3					
MW-6		7/18/18	1531	W	3					
MW-7		7/19/18	0759	W	3					
MW-8		7/18/18	1232	W	5					
MW-9		7/18/18	0831	W	5					
MW-10		7/18/18	1125	W	5					

ANALYSIS REQUEST

RCRA Metals (8)
 TCEP Metals (8)
 600 TTO
 8082 PCBs
 8270 SIM PAHs
 8270 SVOC
 8260 RTEX VOCs
 8260 HVOCS
 8260 RBDM VOCs
 8260 VOCs Full List
 NWTPH-GX
 NWTPH-DX
 NWTPH-HCID

RECEIVED BY: **Nicolas Bach** Date: **7/18/18** Signature: *[Signature]*
 RECEIVED BY: **Apex** Date: **7/19/18** Signature: *[Signature]*

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris Rhea

Report ID:
A8G0533 - 08 08 18 1253

CHAIN OF CUSTODY

APEX LABS COC 2 of 2

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: EES Lab # A8G0533 PO# 1093-01

Address: 240 N Broadway #203 Portland OR 97227 Project Name: Debocks Texaco Email: ES-environmental@ees.com

Phone: 503 897 2140 Fax: ---

Sampled by: Nicolas Grech (NR)

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	ANALYSIS REQUEST		
					RCRA Metals (8)	TCLP Metals (8)	TOTAL DISS TCLP
<u>MAN-11</u>	<u>7/18/18</u>	<u>1005</u>	<u>W</u>	<u>5</u>			
<u>MAN-12</u>	<u>7/19/18</u>	<u>0829</u>	<u>W</u>	<u>5</u>			
<u>MAN-13</u>							
<u>MAN-14</u>							
<u>MAN-50</u>	<u>7/18/18</u>	<u>1532</u>	<u>W</u>	<u>5</u>			

Site Location: OR (WA)

Other: _____

SAMPLES ARE HELD FOR 30 DAYS

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: _____

Normal Turn Around Time (TAT) = 10 Business Days YES NO

SPECIAL INSTRUCTIONS: Hold - Analysis - All filtered samples Sample Pending - Labeled on Side of Container

RELINQUISHED BY: Nicolas Grech Date: 7/18/18 Signature: [Signature] Date: _____
Printed Name: Nicolas Grech Time: 1:55 Printed Name: _____ Time: _____
Company: EES Company: _____

RECEIVED BY: _____ Date: _____ Signature: _____ Date: _____
Printed Name: _____ Time: _____ Printed Name: _____ Time: _____
Company: _____ Company: _____

Apex Laboratories

Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris Rhea

Report ID:
A8G0533 - 08 08 18 1253

Revised
coc 1 of 2

Lab # A8G0533 PO#

CHAIN OF CUSTODY

Company: EES Project Name: Debocks Texaco Project # 2093-01
Address: 240 N Broadway Ste 203 Portland OR 97227 Phone: 503.834.2440 Fax: --- Email: Chris.Rhea@ees.com
Sampled by: Nickolas Beck

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	ANALYSIS REQUEST			
					NWTR-HClD	NWTR-Dx	NWTR-Gx	8260 VOCs Full List
MAN-1	7/18/18	1:55 PM	M	5		X		
MAN-2	7/18/18	1:58 PM	L	5		X		
MAN-3	7/18/18	2:02 PM	L	5		X		
MAN-4	7/18/18	2:07 PM	L	5		X		
MAN-5	7/18/18	2:12 PM	M	5		X		
MAN-6	7/18/18	2:21 PM	M	5		X		
MAN-7	7/18/18	2:35 PM	M	5		X		
MAN-8	7/18/18	2:42 PM	L	5		X		
MAN-9	7/18/18	2:51 PM	L	5		X		
MAN-10	7/18/18	2:58 PM	L	5		X		

Site Location: OR WA
Other: _____

SAMPLE ID

Normal Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: _____

SPECIAL INSTRUCTIONS: Hold Analytes - Field Filtered Samples
Samples - Trending - labeled on the side of container

RELINQUISHED BY: _____ RECEIVED BY: _____
Signature: Nickolas Beck Signature: [Signature]
Date: 7/18/18 Date: [Date]
Printed Name: Nickolas Beck Printed Name: [Name]
Time: 2:55 Time: [Time]
Company: EES Company: [Company]

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: **2093-01**
Project Manager: **Chris Rhea**

Report ID:
A8G0533 - 08 08 18 1253

Revised
COC 2 of 2

CHAIN OF CUSTODY

Lab # **A8G0533**

PO# _____

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: **EES** Project Name: **Debocks Texaco** Project # **2093-01**

Address: **240 N Broadway Ste 203 Portland OR 97227** Phone: **503 847 2710** Fax: _____ Email: _____

Sampled by: **Nickolas Giech (NR)**

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	SPECIAL INSTRUCTIONS:			
					1 Day	2 Day	3 Day	NO
8260 HVOCS	7/18/18	12:32	W	5				
8260 RBDM VOCs	7/18/18	12:32	W	5				
8260 VOCs Full List	7/18/18	12:32	W	5				
NWTPH-GS	7/18/18	12:32	W	5				
NWTPH-DK	7/18/18	12:32	W	5				
NWTPH-HCID	7/18/18	12:32	W	5				
8260 BTEX VOCs	7/18/18	12:32	W	5				
8270 SVOC	7/18/18	12:32	W	5				
8270 SIM PAHs	7/18/18	12:32	W	5				
8082 PCBs	7/18/18	12:32	W	5				
609 TTO	7/18/18	12:32	W	5				
RCRA Metals (8)	7/18/18	12:32	W	5				
TCLP Metals (8)	7/18/18	12:32	W	5				
As, Sb, Ar, Ba, Be, Bi, Br, Cd, Cr, Cu, Pb, Fe, Hg, Mn, Ni, Mo, Ni, K, Sr, Ag, Na, TL, V, Zn	7/18/18	12:32	W	5				
TOTAL DISS TCLP	7/18/18	12:32	W	5				
1200-Z	7/18/18	12:32	W	5				

Normal Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): **3 DAY**

SPECIAL INSTRUCTIONS: **Hold - Analysis - All Afters Samples - Samples Pending - 12/18/18 on side of container**

RECEIVED BY: _____ Date: _____

RECEIVED BY: _____ Date: _____

Signature: **Nickolas Giech** Date: **7/18/18**

Printed Name: **Nickolas Giech** Time: **12:32**

Company: **EES**



EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris Rhea

Report ID:
A8G0533 - 08 08 18 1253

APEX LABS COOLER RECEIPT FORM

Client: EES Element WO#: A8 G0533

Project/Project #: DeBocks Texaco

Delivery info:

Date/Time Received: 7/19/18 @ 1755 By: [Signature]

Delivered by: Apex Client ESS FedEx UPS Swift Senvoy SDS Other

Cooler Inspection Inspected by: [Signature] : 7/19/18 @ 1755

Chain of Custody Included? Yes No Custody Seals? Yes No

Signed/Dated by Client? Yes No

Signed/Dated by Apex? Yes No

Cooler #1 Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #6 Cooler #7

Temperature (deg. C) 2.8-8 _____

Received on Ice? (Y/N) _____

Temp. Blanks? (Y/N) 2.8 _____

Ice Type: (Gel/Real/Other) _____

Condition: good _____

Cooler out of temp? (Y/N) Possible reason why: _____

If some coolers are in temp and some out, were green dot applied to out of temperature samples? Yes/No/NA

Samples Inspection: Inspected by: AKK : 7/20/18 @ 12:10

All Samples Intact? Yes No Comments: _____

Bottle Labels/COCs agree? Yes No Comments: MW-2 3 Conts provided,

5 on coc. MW-4 IDs on Conts read MW-9, matched by T.

Containers/Volumes Received Appropriate for Analysis? Yes No Comments: _____

Do VOA Vials have Visible Headspace? Yes No NA

Comments MW-8 3/4 HS.

Water Samples: pH Checked and Appropriate (except VOAs): Yes No NA

Comments: MW-2 pH ~ 7 on 1/2 HCl Ambers

Additional Information: MW-6 Ds on Conts read 7/18/17.

Labeled by: [Signature] Witness: AKK Cooler Inspected by: AKK See Project Contact Form: Y



Wednesday, November 7, 2018

Chris Rhea
EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

RE: A8J0729 - Debocks Texaco - 2093-01

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A8J0729, which was received by the laboratory on 10/25/2018 at 1:40:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: KFriscia@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of final reporting, unless prior arrangements have been made.

Cooler Receipt Info (See Cooler Receipt Form for Details)

Cooler #1	2.1 degC
Cooler #2	3.0 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.
All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

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Kevin J. Friscia, Project Manager



Apex Laboratories, LLC

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: **2093-01**
Project Manager: **Chris Rhea**

Report ID:
A8J0729 - 11 07 18 1017

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	A8J0729-01	Water	10/23/18 13:06	10/25/18 13:40
MW-3	A8J0729-02	Water	10/23/18 11:05	10/25/18 13:40
MW-4	A8J0729-03	Water	10/23/18 15:26	10/25/18 13:40
MW-5	A8J0729-04	Water	10/23/18 16:23	10/25/18 13:40
MW-6	A8J0729-05	Water	10/23/18 14:10	10/25/18 13:40
MW-7	A8J0729-06	Water	10/24/18 09:25	10/25/18 13:40
MW-8	A8J0729-07	Water	10/24/18 12:27	10/25/18 13:40
MW-9	A8J0729-08	Water	10/23/18 10:11	10/25/18 13:40
MW-10	A8J0729-09	Water	10/23/18 12:04	10/25/18 13:40
MW-11	A8J0729-10	Water	10/24/18 10:22	10/25/18 13:40
MW-12	A8J0729-11	Water	10/24/18 11:18	10/25/18 13:40
MW-50	A8J0729-12	Water	10/24/18 12:27	10/25/18 13:40

Apex Laboratories

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Kevin J. Friscia, Project Manager



EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Report ID: A8J0729 - 11 07 18 1017
--	--	---

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-1 (A8J0729-01)			Matrix: Water			Batch: 8101388		
Gasoline Range Organics	250	---	100	ug/L	1	10/26/18	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 107 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>1</i>	<i>10/26/18</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>		<i>107 %</i>	<i>50-150 %</i>	<i>1</i>	<i>1</i>	<i>10/26/18</i>	<i>NWTPH-Gx (MS)</i>	
MW-3 (A8J0729-02)			Matrix: Water			Batch: 8101388		
Gasoline Range Organics	564	---	100	ug/L	1	10/26/18	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 108 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>1</i>	<i>10/26/18</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>		<i>105 %</i>	<i>50-150 %</i>	<i>1</i>	<i>1</i>	<i>10/26/18</i>	<i>NWTPH-Gx (MS)</i>	
MW-4 (A8J0729-03)			Matrix: Water			Batch: 8101388		
Gasoline Range Organics	653	---	100	ug/L	1	10/26/18	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 106 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>1</i>	<i>10/26/18</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>		<i>104 %</i>	<i>50-150 %</i>	<i>1</i>	<i>1</i>	<i>10/26/18</i>	<i>NWTPH-Gx (MS)</i>	
MW-5 (A8J0729-04)			Matrix: Water			Batch: 8101388		
Gasoline Range Organics	767	---	100	ug/L	1	10/26/18	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 102 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>1</i>	<i>10/26/18</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>		<i>105 %</i>	<i>50-150 %</i>	<i>1</i>	<i>1</i>	<i>10/26/18</i>	<i>NWTPH-Gx (MS)</i>	
MW-6 (A8J0729-05)			Matrix: Water			Batch: 8101388		
Gasoline Range Organics	ND	---	100	ug/L	1	10/26/18	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 104 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>1</i>	<i>10/26/18</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>		<i>107 %</i>	<i>50-150 %</i>	<i>1</i>	<i>1</i>	<i>10/26/18</i>	<i>NWTPH-Gx (MS)</i>	
MW-7 (A8J0729-06)			Matrix: Water			Batch: 8101388		
Gasoline Range Organics	ND	---	100	ug/L	1	10/26/18	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 103 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>1</i>	<i>10/26/18</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>		<i>106 %</i>	<i>50-150 %</i>	<i>1</i>	<i>1</i>	<i>10/26/18</i>	<i>NWTPH-Gx (MS)</i>	
MW-8 (A8J0729-07)			Matrix: Water			Batch: 8101388		
Gasoline Range Organics	2390	---	100	ug/L	1	10/26/18	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 103 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>1</i>	<i>10/26/18</i>	<i>NWTPH-Gx (MS)</i>	
<i>1,4-Difluorobenzene (Sur)</i>		<i>104 %</i>	<i>50-150 %</i>	<i>1</i>	<i>1</i>	<i>10/26/18</i>	<i>NWTPH-Gx (MS)</i>	
MW-9 (A8J0729-08)			Matrix: Water			Batch: 8101388		

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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-9 (A8J0729-08)				Matrix: Water		Batch: 8101388		
Gasoline Range Organics	ND	---	100	ug/L	1	10/26/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 103 %	Limits: 50-150 %	1	10/26/18	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		106 %	50-150 %	1	10/26/18	NWTPH-Gx (MS)		
MW-10 (A8J0729-09)				Matrix: Water		Batch: 8101388		
Gasoline Range Organics	1910	---	100	ug/L	1	10/26/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 103 %	Limits: 50-150 %	1	10/26/18	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		103 %	50-150 %	1	10/26/18	NWTPH-Gx (MS)		
MW-11 (A8J0729-10)				Matrix: Water		Batch: 8101388		
Gasoline Range Organics	2180	---	100	ug/L	1	10/26/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 103 %	Limits: 50-150 %	1	10/26/18	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		103 %	50-150 %	1	10/26/18	NWTPH-Gx (MS)		
MW-12 (A8J0729-11RE1)				Matrix: Water		Batch: 8101423		
Gasoline Range Organics	2060	---	100	ug/L	1	10/28/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 105 %	Limits: 50-150 %	1	10/28/18	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		95 %	50-150 %	1	10/28/18	NWTPH-Gx (MS)		
MW-50 (A8J0729-12)				Matrix: Water		Batch: 8101388		
Gasoline Range Organics	2170	---	100	ug/L	1	10/26/18	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery: 103 %	Limits: 50-150 %	1	10/26/18	NWTPH-Gx (MS)		
1,4-Difluorobenzene (Sur)		103 %	50-150 %	1	10/26/18	NWTPH-Gx (MS)		

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Kevin J. Friscia, Project Manager

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ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-1 (A8J0729-01)			Matrix: Water			Batch: 8101388		
Benzene	ND	---	0.200	ug/L	1	10/26/18	EPA 8260C	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	10/26/18	EPA 8260C	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	10/26/18	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	10/26/18	EPA 8260C	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	10/26/18	EPA 8260C	
Naphthalene	ND	---	2.00	ug/L	1	10/26/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	10/26/18	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	10/26/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 107 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>

MW-3 (A8J0729-02)			Matrix: Water			Batch: 8101388		
Benzene	ND	---	0.200	ug/L	1	10/26/18	EPA 8260C	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	10/26/18	EPA 8260C	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	10/26/18	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	10/26/18	EPA 8260C	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	10/26/18	EPA 8260C	
Naphthalene	ND	---	2.00	ug/L	1	10/26/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	10/26/18	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	10/26/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 105 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>

MW-4 (A8J0729-03)			Matrix: Water			Batch: 8101388		
Benzene	1.18	---	0.200	ug/L	1	10/26/18	EPA 8260C	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	10/26/18	EPA 8260C	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	10/26/18	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	10/26/18	EPA 8260C	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	10/26/18	EPA 8260C	
Naphthalene	ND	---	2.00	ug/L	1	10/26/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	10/26/18	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	10/26/18	EPA 8260C	

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Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: **2093-01**
Project Manager: **Chris Rhea**

Report ID:
A8J0729 - 11 07 18 1017

ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-4 (A8J0729-03)				Matrix: Water		Batch: 8101388		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>	
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>	
MW-5 (A8J0729-04)				Matrix: Water		Batch: 8101388		
Benzene	0.330	---	0.200	ug/L	1	10/26/18	EPA 8260C	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	10/26/18	EPA 8260C	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	10/26/18	EPA 8260C	
Ethylbenzene	1.32	---	0.500	ug/L	1	10/26/18	EPA 8260C	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	10/26/18	EPA 8260C	
Naphthalene	ND	---	2.00	ug/L	1	10/26/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	10/26/18	EPA 8260C	
Xylenes, total	2.20	---	1.50	ug/L	1	10/26/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 105 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>	
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>	
MW-6 (A8J0729-05)				Matrix: Water		Batch: 8101388		
Benzene	ND	---	0.200	ug/L	1	10/26/18	EPA 8260C	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	10/26/18	EPA 8260C	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	10/26/18	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	10/26/18	EPA 8260C	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	10/26/18	EPA 8260C	
Naphthalene	ND	---	2.00	ug/L	1	10/26/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	10/26/18	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	10/26/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 107 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>	
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>	
MW-7 (A8J0729-06)				Matrix: Water		Batch: 8101388		
Benzene	ND	---	0.200	ug/L	1	10/26/18	EPA 8260C	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	10/26/18	EPA 8260C	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	10/26/18	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	10/26/18	EPA 8260C	

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Kevin J. Friscia, Project Manager



EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: **2093-01**
Project Manager: **Chris Rhea**

Report ID:
A8J0729 - 11 07 18 1017

ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-7 (A8J0729-06)			Matrix: Water			Batch: 8101388		
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	10/26/18	EPA 8260C	
Naphthalene	ND	---	2.00	ug/L	1	10/26/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	10/26/18	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	10/26/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 106 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>
MW-8 (A8J0729-07)			Matrix: Water			Batch: 8101388		
Benzene	ND	---	0.200	ug/L	1	10/26/18	EPA 8260C	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	10/26/18	EPA 8260C	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	10/26/18	EPA 8260C	
Ethylbenzene	121	---	0.500	ug/L	1	10/26/18	EPA 8260C	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	10/26/18	EPA 8260C	
Naphthalene	35.3	---	2.00	ug/L	1	10/26/18	EPA 8260C	
Toluene	5.19	---	1.00	ug/L	1	10/26/18	EPA 8260C	
Xylenes, total	206	---	1.50	ug/L	1	10/26/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>
MW-9 (A8J0729-08)			Matrix: Water			Batch: 8101388		
Benzene	ND	---	0.200	ug/L	1	10/26/18	EPA 8260C	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	10/26/18	EPA 8260C	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	10/26/18	EPA 8260C	
Ethylbenzene	ND	---	0.500	ug/L	1	10/26/18	EPA 8260C	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	10/26/18	EPA 8260C	
Naphthalene	ND	---	2.00	ug/L	1	10/26/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	10/26/18	EPA 8260C	
Xylenes, total	ND	---	1.50	ug/L	1	10/26/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 106 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>

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Kevin J. Friscia, Project Manager

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ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-10 (A8J0729-09)			Matrix: Water			Batch: 8101388		
Benzene	3.45	---	0.200	ug/L	1	10/26/18	EPA 8260C	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	10/26/18	EPA 8260C	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	10/26/18	EPA 8260C	
Ethylbenzene	2.26	---	0.500	ug/L	1	10/26/18	EPA 8260C	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	10/26/18	EPA 8260C	
Naphthalene	ND	---	2.00	ug/L	1	10/26/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	10/26/18	EPA 8260C	
Xylenes, total	3.01	---	1.50	ug/L	1	10/26/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>
MW-11 (A8J0729-10)			Matrix: Water			Batch: 8101388		
Benzene	0.720	---	0.200	ug/L	1	10/26/18	EPA 8260C	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	10/26/18	EPA 8260C	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	10/26/18	EPA 8260C	
Ethylbenzene	4.78	---	0.500	ug/L	1	10/26/18	EPA 8260C	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	10/26/18	EPA 8260C	
Naphthalene	9.37	---	2.00	ug/L	1	10/26/18	EPA 8260C	
Toluene	ND	---	1.00	ug/L	1	10/26/18	EPA 8260C	
Xylenes, total	3.19	---	1.50	ug/L	1	10/26/18	EPA 8260C	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>
<i>Toluene-d8 (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>
MW-12 (A8J0729-11RE1)			Matrix: Water			Batch: 8101423		
Benzene	5.07	---	0.200	ug/L	1	10/28/18	EPA 8260C	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	10/28/18	EPA 8260C	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	10/28/18	EPA 8260C	
Ethylbenzene	17.4	---	0.500	ug/L	1	10/28/18	EPA 8260C	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	10/28/18	EPA 8260C	
Naphthalene	6.94	---	2.00	ug/L	1	10/28/18	EPA 8260C	
Toluene	2.53	---	1.00	ug/L	1	10/28/18	EPA 8260C	
Xylenes, total	59.2	---	1.50	ug/L	1	10/28/18	EPA 8260C	

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Kevin J. Friscia, Project Manager

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ANALYTICAL SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-12 (A8J0729-11RE1)				Matrix: Water		Batch: 8101423		
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>10/28/18</i>	<i>EPA 8260C</i>	
<i>Toluene-d8 (Surr)</i>		<i>102 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/28/18</i>	<i>EPA 8260C</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>100 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/28/18</i>	<i>EPA 8260C</i>	
MW-50 (A8J0729-12)				Matrix: Water		Batch: 8101388		
Benzene	ND	---	0.200	ug/L	1	10/26/18	EPA 8260C	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	10/26/18	EPA 8260C	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	10/26/18	EPA 8260C	
Ethylbenzene	112	---	0.500	ug/L	1	10/26/18	EPA 8260C	Q-42
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	10/26/18	EPA 8260C	
Naphthalene	31.6	---	2.00	ug/L	1	10/26/18	EPA 8260C	Q-42
Toluene	4.94	---	1.00	ug/L	1	10/26/18	EPA 8260C	
Xylenes, total	190	---	1.50	ug/L	1	10/26/18	EPA 8260C	Q-42
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>	<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>	
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>	
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>	<i>1</i>	<i>10/26/18</i>	<i>EPA 8260C</i>	



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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-1 (A8J0729-01) Matrix: Water								
Batch: 8101430								
Lead	ND	---	0.200	ug/L	1	10/31/18	EPA 200.8	
MW-3 (A8J0729-02) Matrix: Water								
Batch: 8101430								
Lead	ND	---	0.200	ug/L	1	10/31/18	EPA 200.8	
MW-4 (A8J0729-03) Matrix: Water								
Batch: 8101430								
Lead	2.72	---	0.200	ug/L	1	10/31/18	EPA 200.8	
MW-5 (A8J0729-04) Matrix: Water								
Batch: 8101430								
Lead	1.13	---	0.200	ug/L	1	10/31/18	EPA 200.8	
MW-6 (A8J0729-05) Matrix: Water								
Batch: 8101430								
Lead	0.709	---	0.200	ug/L	1	10/31/18	EPA 200.8	
MW-7 (A8J0729-06) Matrix: Water								
Batch: 8101430								
Lead	0.625	---	0.200	ug/L	1	10/31/18	EPA 200.8	
MW-8 (A8J0729-07) Matrix: Water								
Batch: 8101430								
Lead	0.897	---	0.200	ug/L	1	10/31/18	EPA 200.8	
MW-9 (A8J0729-08) Matrix: Water								
Batch: 8101430								
Lead	0.282	---	0.200	ug/L	1	10/31/18	EPA 200.8	
MW-10 (A8J0729-09) Matrix: Water								
Batch: 8101430								
Lead	1.75	---	0.200	ug/L	1	10/31/18	EPA 200.8	
MW-11 (A8J0729-10) Matrix: Water								
Batch: 8101430								

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Kevin J. Friscia, Project Manager

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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-11 (A8J0729-10)				Matrix: Water				
Lead	0.774	---	0.200	ug/L	1	10/31/18	EPA 200.8	
MW-12 (A8J0729-11)				Matrix: Water				
Batch: 8101430								
Lead	0.600	---	0.200	ug/L	1	10/31/18	EPA 200.8	
MW-50 (A8J0729-12)				Matrix: Water				
Batch: 8101430								
Lead	0.918	---	0.200	ug/L	1	10/31/18	EPA 200.8	



EES Environmental Inc
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Project: **Debocks Texaco**
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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8101388 - EPA 5030B												
Water												
Blank (8101388-BLK1)												
Prepared: 10/26/18 11:30 Analyzed: 10/26/18 12:51												
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 102 %	Limits: 50-150 %			Dilution: 1x					
1,4-Difluorobenzene (Sur)			107 %	50-150 %			"					
LCS (8101388-BS2)												
Prepared: 10/26/18 11:30 Analyzed: 10/26/18 12:24												
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	505	---	100	ug/L	1	500	---	101	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 103 %	Limits: 50-150 %			Dilution: 1x					
1,4-Difluorobenzene (Sur)			106 %	50-150 %			"					
Duplicate (8101388-DUP1)												
Prepared: 10/26/18 13:00 Analyzed: 10/26/18 14:39												
<u>QC Source Sample: MW-4 (A8J0729-03)</u>												
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	685	---	100	ug/L	1	---	653	---	---	5	30%	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 106 %	Limits: 50-150 %			Dilution: 1x					
1,4-Difluorobenzene (Sur)			106 %	50-150 %			"					
Duplicate (8101388-DUP2)												
Prepared: 10/26/18 13:00 Analyzed: 10/26/18 18:41												
<u>QC Source Sample: MW-12 (A8J0729-11)</u>												
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	1500	---	1000	ug/L	10	---	1620	---	---	8	30%	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 103 %	Limits: 50-150 %			Dilution: 1x					
1,4-Difluorobenzene (Sur)			105 %	50-150 %			"					
Batch 8101423 - EPA 5030B												
Water												
Blank (8101423-BLK1)												
Prepared: 10/28/18 13:30 Analyzed: 10/28/18 15:33												
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	ND	---	100	ug/L	1	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)			Recovery: 100 %	Limits: 50-150 %			Dilution: 1x					
1,4-Difluorobenzene (Sur)			97 %	50-150 %			"					

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Kevin J. Friscia, Project Manager

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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8101423 - EPA 5030B						Water						
LCS (8101423-BS2)			Prepared: 10/28/18 13:30 Analyzed: 10/28/18 15:05									
<u>NWTPH-Gx (MS)</u>												
Gasoline Range Organics	562	---	100	ug/L	1	500	---	112	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)	Recovery: 98 %		Limits: 50-150 %		Dilution: 1x							
1,4-Difluorobenzene (Sur)	96 %		50-150 %		"							
Duplicate (8101423-DUP1)			Prepared: 10/28/18 15:51 Analyzed: 10/28/18 16:59									
<u>QC Source Sample: Non-SDG (A8J0810-21)</u>												
Gasoline Range Organics	965	---	100	ug/L	1	---	916	---	---	5	30%	
Surr: 4-Bromofluorobenzene (Sur)	Recovery: 101 %		Limits: 50-150 %		Dilution: 1x							
1,4-Difluorobenzene (Sur)	99 %		50-150 %		"							



EES Environmental Inc
240 N Broadway Ste 203
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Project Number: **2093-01**
Project Manager: **Chris Rhea**

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QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8101388 - EPA 5030B												
Water												
Blank (8101388-BLK1)			Prepared: 10/26/18 11:30 Analyzed: 10/26/18 12:51									
<u>EPA 8260C</u>												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Isopropylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Naphthalene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	---
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 106 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						

LCS (8101388-BS1)												
Prepared: 10/26/18 11:30 Analyzed: 10/26/18 11:56												
<u>EPA 8260C</u>												
Benzene	19.4	---	0.200	ug/L	1	20.0	---	97	80-120%	---	---	---
1,2-Dibromoethane (EDB)	19.8	---	0.500	ug/L	1	20.0	---	99	80-120%	---	---	---
1,2-Dichloroethane (EDC)	21.4	---	0.500	ug/L	1	20.0	---	107	80-120%	---	---	---
Ethylbenzene	18.3	---	0.500	ug/L	1	20.0	---	92	80-120%	---	---	---
Isopropylbenzene	17.7	---	1.00	ug/L	1	20.0	---	88	80-120%	---	---	---
Methyl tert-butyl ether (MTBE)	16.4	---	1.00	ug/L	1	20.0	---	82	80-120%	---	---	---
Naphthalene	17.2	---	2.00	ug/L	1	20.0	---	86	80-120%	---	---	---
Toluene	17.6	---	1.00	ug/L	1	20.0	---	88	80-120%	---	---	---
1,2,4-Trimethylbenzene	17.4	---	1.00	ug/L	1	20.0	---	87	80-120%	---	---	---
1,3,5-Trimethylbenzene	17.7	---	1.00	ug/L	1	20.0	---	88	80-120%	---	---	---
Xylenes, total	53.3	---	1.50	ug/L	1	60.0	---	89	80-120%	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>97 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>96 %</i>		<i>80-120 %</i>		<i>"</i>						

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: **2093-01**
Project Manager: **Chris Rhea**

Report ID:
A8J0729 - 11 07 18 1017

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8101388 - EPA 5030B												
Water												
Duplicate (8101388-DUP1)												
Prepared: 10/26/18 13:00 Analyzed: 10/26/18 14:39												
QC Source Sample: MW-4 (A8J0729-03)												
EPA 8260C												
Benzene	1.23	---	0.200	ug/L	1	---	1.18	---	---	4	30%	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	Q-05
Ethylbenzene	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Isopropylbenzene	1.23	---	1.00	ug/L	1	---	1.19	---	---	3	30%	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	---	2.00	ug/L	1	---	ND	---	---	---	30%	
Toluene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	0.580	---	---	***	30%	
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Xylenes, total	ND	---	1.50	ug/L	1	---	ND	---	---	---	30%	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 106 % Limits: 80-120 % Dilution: 1x												
Toluene-d8 (Surr) 98 % 80-120 % "												
4-Bromofluorobenzene (Surr) 98 % 80-120 % "												

Duplicate (8101388-DUP2)												
Prepared: 10/26/18 13:00 Analyzed: 10/26/18 18:41												
QC Source Sample: MW-12 (A8J0729-11)												
EPA 8260C												
Benzene	4.60	---	2.00	ug/L	10	---	5.00	---	---	8	30%	
1,2-Dibromoethane (EDB)	ND	---	5.00	ug/L	10	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	5.00	ug/L	10	---	ND	---	---	---	30%	
Ethylbenzene	13.8	---	5.00	ug/L	10	---	14.9	---	---	8	30%	
Isopropylbenzene	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%	
Methyl tert-butyl ether (MTBE)	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%	
Naphthalene	ND	---	20.0	ug/L	10	---	ND	---	---	---	30%	
Toluene	ND	---	10.0	ug/L	10	---	ND	---	---	---	30%	
1,2,4-Trimethylbenzene	ND	---	10.0	ug/L	10	---	5.70	---	---	***	30%	
1,3,5-Trimethylbenzene	ND	---	10.0	ug/L	10	---	8.60	---	---	***	30%	
Xylenes, total	44.0	---	15.0	ug/L	10	---	46.3	---	---	5	30%	
Surr: 1,4-Difluorobenzene (Surr) Recovery: 105 % Limits: 80-120 % Dilution: 1x												

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Kevin J. Friscia, Project Manager

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QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8101388 - EPA 5030B						Water						
Duplicate (8101388-DUP2)						Prepared: 10/26/18 13:00 Analyzed: 10/26/18 18:41						
QC Source Sample: MW-12 (A8J0729-11)												
<i>Surr: Toluene-d8 (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
Matrix Spike (8101388-MS1)						Prepared: 10/26/18 13:00 Analyzed: 10/26/18 20:03						
QC Source Sample: MW-50 (A8J0729-12)												
EPA 8260C												
Benzene	20.3	---	0.200	ug/L	1	20.0	ND	101	79-120%	---	---	
1,2-Dibromoethane (EDB)	20.2	---	0.500	ug/L	1	20.0	ND	101	77-121%	---	---	
1,2-Dichloroethane (EDC)	20.4	---	0.500	ug/L	1	20.0	ND	102	73-128%	---	---	
Ethylbenzene	187	---	0.500	ug/L	1	20.0	112	372	79-121%	---	---	Q-01
Isopropylbenzene	35.2	---	1.00	ug/L	1	20.0	9.13	130	72-131%	---	---	
Methyl tert-butyl ether (MTBE)	16.7	---	1.00	ug/L	1	20.0	ND	83	71-124%	---	---	
Naphthalene	73.6	---	2.00	ug/L	1	20.0	31.6	210	61-128%	---	---	Q-01
Toluene	24.6	---	1.00	ug/L	1	20.0	4.94	98	80-121%	---	---	
1,2,4-Trimethylbenzene	102	---	1.00	ug/L	1	20.0	46.9	275	76-124%	---	---	Q-01
1,3,5-Trimethylbenzene	34.1	---	1.00	ug/L	1	20.0	9.50	123	75-124%	---	---	
Xylenes, total	341	---	1.50	ug/L	1	60.0	190	253	79-121%	---	---	Q-01
<i>Surr: 1,4-Difluorobenzene (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 80-120 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>		<i>98 %</i>		<i>80-120 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>		<i>99 %</i>		<i>80-120 %</i>		<i>"</i>						



EES Environmental Inc
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Project: **Debocks Texaco**
Project Number: **2093-01**
Project Manager: **Chris Rhea**

Report ID:
A8J0729 - 11 07 18 1017

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8101423 - EPA 5030B												
Water												
Blank (8101423-BLK1)												
Prepared: 10/28/18 13:30 Analyzed: 10/28/18 15:33												
<u>EPA 8260C</u>												
Benzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	---
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Ethylbenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	---
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Naphthalene	ND	---	2.00	ug/L	1	---	---	---	---	---	---	---
Toluene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,2,4-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
1,3,5-Trimethylbenzene	ND	---	1.00	ug/L	1	---	---	---	---	---	---	---
Xylenes, total	ND	---	1.50	ug/L	1	---	---	---	---	---	---	---
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		101 %		80-120 %		"						

LCS (8101423-BS1)												
Prepared: 10/28/18 13:30 Analyzed: 10/28/18 14:37												
<u>EPA 8260C</u>												
Benzene	19.6	---	0.200	ug/L	1	20.0	---	98	80-120%	---	---	---
1,2-Dibromoethane (EDB)	19.6	---	0.500	ug/L	1	20.0	---	98	80-120%	---	---	---
1,2-Dichloroethane (EDC)	19.9	---	0.500	ug/L	1	20.0	---	100	80-120%	---	---	---
Ethylbenzene	19.5	---	0.500	ug/L	1	20.0	---	97	80-120%	---	---	---
Methyl tert-butyl ether (MTBE)	20.1	---	1.00	ug/L	1	20.0	---	101	80-120%	---	---	---
Naphthalene	19.1	---	2.00	ug/L	1	20.0	---	95	80-120%	---	---	---
Toluene	19.2	---	1.00	ug/L	1	20.0	---	96	80-120%	---	---	---
1,2,4-Trimethylbenzene	20.3	---	1.00	ug/L	1	20.0	---	101	80-120%	---	---	---
1,3,5-Trimethylbenzene	20.2	---	1.00	ug/L	1	20.0	---	101	80-120%	---	---	---
Xylenes, total	59.4	---	1.50	ug/L	1	60.0	---	99	80-120%	---	---	---
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 102 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		99 %		80-120 %		"						

Duplicate (8101423-DUP1) Prepared: 10/28/18 15:51 Analyzed: 10/28/18 16:59

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: **2093-01**
Project Manager: **Chris Rhea**

Report ID:
A8J0729 - 11 07 18 1017

QUALITY CONTROL (QC) SAMPLE RESULTS

Selected Volatile Organic Compounds by EPA 8260C

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8101423 - EPA 5030B												
Water												
Duplicate (8101423-DUP1)			Prepared: 10/28/18 15:51 Analyzed: 10/28/18 16:59									
QC Source Sample: Non-SDG (A8J0810-21)												
Benzene	13.5	---	0.200	ug/L	1	---	13.0	---	---	4	30%	
1,2-Dibromoethane (EDB)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
1,2-Dichloroethane (EDC)	ND	---	0.500	ug/L	1	---	ND	---	---	---	30%	
Ethylbenzene	16.2	---	0.500	ug/L	1	---	15.5	---	---	4	30%	
Methyl tert-butyl ether (MTBE)	ND	---	1.00	ug/L	1	---	ND	---	---	---	30%	
Naphthalene	ND	---	2.00	ug/L	1	---	ND	---	---	---	30%	
Toluene	116	---	1.00	ug/L	1	---	111	---	---	4	30%	
1,2,4-Trimethylbenzene	16.5	---	1.00	ug/L	1	---	15.8	---	---	4	30%	
1,3,5-Trimethylbenzene	4.64	---	1.00	ug/L	1	---	4.36	---	---	6	30%	
Xylenes, total	90.9	---	1.50	ug/L	1	---	86.7	---	---	5	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		100 %		80-120 %		"						

Matrix Spike (8101423-MS1)			Prepared: 10/28/18 15:51 Analyzed: 10/28/18 18:24									
QC Source Sample: Non-SDG (A8J0810-23)												
EPA 8260C												
Benzene	20.0	---	0.200	ug/L	1	20.0	ND	100	79-120%	---	---	
1,2-Dibromoethane (EDB)	19.5	---	0.500	ug/L	1	20.0	ND	97	77-121%	---	---	
1,2-Dichloroethane (EDC)	19.8	---	0.500	ug/L	1	20.0	ND	99	73-128%	---	---	
Ethylbenzene	20.0	---	0.500	ug/L	1	20.0	ND	100	79-121%	---	---	
Methyl tert-butyl ether (MTBE)	19.5	---	1.00	ug/L	1	20.0	ND	98	71-124%	---	---	
Naphthalene	18.9	---	2.00	ug/L	1	20.0	ND	94	61-128%	---	---	
Toluene	19.7	---	1.00	ug/L	1	20.0	ND	98	80-121%	---	---	
1,2,4-Trimethylbenzene	20.9	---	1.00	ug/L	1	20.0	ND	104	76-124%	---	---	
1,3,5-Trimethylbenzene	20.7	---	1.00	ug/L	1	20.0	ND	103	75-124%	---	---	
Xylenes, total	60.3	---	1.50	ug/L	1	60.0	ND	101	79-121%	---	---	
Surr: 1,4-Difluorobenzene (Surr)		Recovery: 101 %		Limits: 80-120 %		Dilution: 1x						
Toluene-d8 (Surr)		100 %		80-120 %		"						
4-Bromofluorobenzene (Surr)		98 %		80-120 %		"						

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Report ID: A8J0729 - 11 07 18 1017
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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 8101430 - EPA 3015A												
Water												
Blank (8101430-BLK1) Prepared: 10/29/18 07:59 Analyzed: 10/31/18 13:52												
<u>EPA 200.8</u>												
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (8101430-BS1) Prepared: 10/29/18 07:59 Analyzed: 10/31/18 13:57												
<u>EPA 200.8</u>												
Lead	57.2	---	0.200	ug/L	1	55.6	---	103	85-115%	---	---	
Duplicate (8101430-DUP1) Prepared: 10/29/18 07:59 Analyzed: 10/31/18 14:21												
<u>QC Source Sample: MW-5 (A8J0729-04)</u>												
<u>EPA 200.8</u>												
Lead	1.17	---	0.200	ug/L	1	---	1.13	---	---	3	20%	
Matrix Spike (8101430-MS1) Prepared: 10/29/18 07:59 Analyzed: 10/31/18 14:26												
<u>QC Source Sample: MW-5 (A8J0729-04)</u>												
<u>EPA 200.8</u>												
Lead	54.2	---	0.200	ug/L	1	55.6	1.13	96	70-130%	---	---	
Matrix Spike (8101430-MS2) Prepared: 10/29/18 07:59 Analyzed: 10/31/18 16:20												
<u>QC Source Sample: Non-SDG (A8J0768-01)</u>												
<u>EPA 200.8</u>												
Lead	51.6	---	2.00	ug/L	10	55.6	ND	93	70-130%	---	---	

Apex Laboratories

Kevin J. Friscia, Project Manager

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Report ID: A8J0729 - 11 07 18 1017
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SAMPLE PREPARATION INFORMATION

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5030B					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 8101388</u>							
A8J0729-01	Water	NWTPH-Gx (MS)	10/23/18 13:06	10/26/18 13:00	5mL/5mL	5mL/5mL	1.00
A8J0729-02	Water	NWTPH-Gx (MS)	10/23/18 11:05	10/26/18 13:00	5mL/5mL	5mL/5mL	1.00
A8J0729-03	Water	NWTPH-Gx (MS)	10/23/18 15:26	10/26/18 13:00	5mL/5mL	5mL/5mL	1.00
A8J0729-04	Water	NWTPH-Gx (MS)	10/23/18 16:23	10/26/18 13:00	5mL/5mL	5mL/5mL	1.00
A8J0729-05	Water	NWTPH-Gx (MS)	10/23/18 14:10	10/26/18 13:00	5mL/5mL	5mL/5mL	1.00
A8J0729-06	Water	NWTPH-Gx (MS)	10/24/18 09:25	10/26/18 13:00	5mL/5mL	5mL/5mL	1.00
A8J0729-07	Water	NWTPH-Gx (MS)	10/24/18 12:27	10/26/18 13:00	5mL/5mL	5mL/5mL	1.00
A8J0729-08	Water	NWTPH-Gx (MS)	10/23/18 10:11	10/26/18 13:00	5mL/5mL	5mL/5mL	1.00
A8J0729-09	Water	NWTPH-Gx (MS)	10/23/18 12:04	10/26/18 13:00	5mL/5mL	5mL/5mL	1.00
A8J0729-10	Water	NWTPH-Gx (MS)	10/24/18 10:22	10/26/18 13:00	5mL/5mL	5mL/5mL	1.00
A8J0729-12	Water	NWTPH-Gx (MS)	10/24/18 12:27	10/26/18 13:00	5mL/5mL	5mL/5mL	1.00
<u>Batch: 8101423</u>							
A8J0729-11RE1	Water	NWTPH-Gx (MS)	10/24/18 11:18	10/28/18 15:51	5mL/5mL	5mL/5mL	1.00

Selected Volatile Organic Compounds by EPA 8260C

Prep: EPA 5030B					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 8101388</u>							
A8J0729-01	Water	EPA 8260C	10/23/18 13:06	10/26/18 13:00	5mL/5mL	5mL/5mL	1.00
A8J0729-02	Water	EPA 8260C	10/23/18 11:05	10/26/18 13:00	5mL/5mL	5mL/5mL	1.00
A8J0729-03	Water	EPA 8260C	10/23/18 15:26	10/26/18 13:00	5mL/5mL	5mL/5mL	1.00
A8J0729-04	Water	EPA 8260C	10/23/18 16:23	10/26/18 13:00	5mL/5mL	5mL/5mL	1.00
A8J0729-05	Water	EPA 8260C	10/23/18 14:10	10/26/18 13:00	5mL/5mL	5mL/5mL	1.00
A8J0729-06	Water	EPA 8260C	10/24/18 09:25	10/26/18 13:00	5mL/5mL	5mL/5mL	1.00
A8J0729-07	Water	EPA 8260C	10/24/18 12:27	10/26/18 13:00	5mL/5mL	5mL/5mL	1.00
A8J0729-08	Water	EPA 8260C	10/23/18 10:11	10/26/18 13:00	5mL/5mL	5mL/5mL	1.00
A8J0729-09	Water	EPA 8260C	10/23/18 12:04	10/26/18 13:00	5mL/5mL	5mL/5mL	1.00
A8J0729-10	Water	EPA 8260C	10/24/18 10:22	10/26/18 13:00	5mL/5mL	5mL/5mL	1.00
A8J0729-12	Water	EPA 8260C	10/24/18 12:27	10/26/18 13:00	5mL/5mL	5mL/5mL	1.00
<u>Batch: 8101423</u>							
A8J0729-11RE1	Water	EPA 8260C	10/24/18 11:18	10/28/18 15:51	5mL/5mL	5mL/5mL	1.00

Total Metals by EPA 200.8 (ICPMS)

Apex Laboratories

Kevin J. Friscia, Project Manager

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EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Report ID: A8J0729 - 11 07 18 1017
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SAMPLE PREPARATION INFORMATION

Total Metals by EPA 200.8 (ICPMS)

Prep: EPA 3015A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 8101430</u>							
A8J0729-01	Water	EPA 200.8	10/23/18 13:06	10/29/18 07:59	45mL/50mL	45mL/50mL	1.00
A8J0729-02	Water	EPA 200.8	10/23/18 11:05	10/29/18 07:59	45mL/50mL	45mL/50mL	1.00
A8J0729-03	Water	EPA 200.8	10/23/18 15:26	10/29/18 07:59	45mL/50mL	45mL/50mL	1.00
A8J0729-04	Water	EPA 200.8	10/23/18 16:23	10/29/18 07:59	45mL/50mL	45mL/50mL	1.00
A8J0729-05	Water	EPA 200.8	10/23/18 14:10	10/29/18 07:59	45mL/50mL	45mL/50mL	1.00
A8J0729-06	Water	EPA 200.8	10/24/18 09:25	10/29/18 07:59	45mL/50mL	45mL/50mL	1.00
A8J0729-07	Water	EPA 200.8	10/24/18 12:27	10/29/18 07:59	45mL/50mL	45mL/50mL	1.00
A8J0729-08	Water	EPA 200.8	10/23/18 10:11	10/29/18 07:59	45mL/50mL	45mL/50mL	1.00
A8J0729-09	Water	EPA 200.8	10/23/18 12:04	10/29/18 07:59	45mL/50mL	45mL/50mL	1.00
A8J0729-10	Water	EPA 200.8	10/24/18 10:22	10/29/18 07:59	45mL/50mL	45mL/50mL	1.00
A8J0729-11	Water	EPA 200.8	10/24/18 11:18	10/29/18 07:59	45mL/50mL	45mL/50mL	1.00
A8J0729-12	Water	EPA 200.8	10/24/18 12:27	10/29/18 07:59	45mL/50mL	45mL/50mL	1.00



Apex Laboratories, LLC

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris Rhea

Report ID:
A8J0729 - 11 07 18 1017

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- Q-01 Spike recovery and/or RPD is outside acceptance limits.
- Q-05 Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- Q-42 Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)

Apex Laboratories

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Kevin J. Friscia, Project Manager



EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: Debocks Texaco
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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.
ND Analyte NOT DETECTED at or above the detection or reporting limit.
NR Result Not Reported
RPD Relative Percent Difference

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.
"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to 1/2 the Reporting Limit (RL).
-For Blank hits falling between 1/2 the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.



EES Environmental Inc
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Portland, OR 97227

Project: **Debocks Texaco**
Project Number: **2093-01**
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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the blank results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

Kevin J. Friscia, Project Manager

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Apex Laboratories, LLC

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323
EPA ID: OR01039

EES Environmental Inc 240 N Broadway Ste 203 Portland, OR 97227	Project: Debocks Texaco Project Number: 2093-01 Project Manager: Chris Rhea	Report ID: A8J0729 - 11 07 18 1017
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LABORATORY ACCREDITATION INFORMATION

TNI Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation. Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

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Kevin J. Friscia, Project Manager

EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: **2093-01**
Project Manager: **Chris Rhea**

Report ID:
A8J0729 - 11 07 18 1017

CHAIN OF CUSTODY

APEX LABS Lab # **A8J0729** COC 1 of 2

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: EES	Project Mgr: Chris Rhea	Project Name: DeBocks Texaco	Project # 2093-01
Address: 240 N Broadway Ste 203 Portland OR 97227		Phone: 503 847-2340	Fax: ---
Sampled by: Nicolas Glach (NF)		Email: chris@ees-env	

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	ANALYSIS REQUEST																
					NWTPH-CID	NWTPH-DX	NWTPH-GX	8260 VOCs Full List	8260 RBDM VOCs	8260 HVOCs	8260 BTEX VOCs	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TTO	RCA Metals (8)	TCLP Metals (8)	AL, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, Zn, Se, Ag, Na, TL, V, Zn	TOTAL DISS TCLP	1200-COLS	1200-Z
MMW-1	10/23/18	1530	W	8																	
MMW-3	10/23/18	1105																			
MMW-4	10/23/18	1520																			
MMW-5	10/23/18	1125																			
MMW-6	10/23/18	1410																			
MMW-7	10/24/18	0925																			
MMW-8	10/24/18	1227																			
MMW-9	10/23/18	1011																			
MMW-10	10/23/18	1204																			
MMW-11	10/24/18	1022																			

SPECIAL INSTRUCTIONS: *Hold Samples Analysis Pending*

TAT Requested (circle): <input type="radio"/> 1 Day <input checked="" type="radio"/> 2 Day <input type="radio"/> 3 Day <input type="radio"/> 4 DAY <input type="radio"/> 5 DAY Other: _____	RECEIVED BY: <i>[Signature]</i> Date: 10/25/18 Signature: <i>[Signature]</i> Printed Name: Nicolas Glach Time: 1340	RECEIVED BY: _____ Date: _____ Signature: _____ Printed Name: _____ Time: _____
--	--	---

SAMPLER INFORMATION: **MMW-11** YES NO

Normal Turn-Around Time (TAT) = 10 Business Days

REINQUISHED BY: **EES** Company: **Apex**

Apex Laboratories

Kevin J. Friscia, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: **2093-01**
Project Manager: **Chris Rhea**

Report ID:
A8J0729 - 11 07 18 1017

CHAIN OF CUSTODY

Lab # A8J0729 COC # 2 of 2

PO# _____

Company: **EES** Project Mgr: **Chris Rhea** Project Name: **Debocks Texaco** Project # **2093-01**

Address: **240 N Broadway Ste 203 Portland OR 97227** Phone: **503 847740** Fax: _____ Email: **Chris@ees-env.com**

Sampled by: **Nicolas Gsch GAK**

Site Location: **(WA)**

Other: _____

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS		ANALYSIS REQUEST
				YES	NO	
1 MW-12	10/24/18	1118	W	8		TOTAL DISS TCLP Se, As, Na, TL, V, Zn Hg, Mg, Mn, Mo, Ni, K Ca, Cr, Co, Cu, Fe, Pb, Cd Al, Sb, As, Ba, Be, Bi, Br, B, C, Cl, F, I, K, Li, Na, Ni, P, S, Se, Si, Sn, Sr, Tl, U, V, W, Zn
2 MW-50	10/24/18	1227	W	8		600 TTO 8082 PCBs 8270 SIM PAHs 8270 SVOC 8260 BTEX VOCs 8260 HVOCS 8260 RBDM VOCs 8260 VOCs Full List
3 TB-1				1		NWTFH-CX NWTFH-DX NWTFH-HCID
4 TB-2				1		
5						
6						
7						
8						
9						
10						

Normal Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): **2 Day** 3 Day 4 DAY 5 DAY Other: _____

SPECIAL INSTRUCTIONS: *Hold Sample Analysis Pending*

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: **Nicolas Gsch** Date: **10/25/18** Signature: *[Signature]* Time: **1340**

RECEIVED BY: **Cam Obrien** Date: **10/25/18** Signature: *[Signature]* Time: **1440**

Company: **EES**

Apex Laboratories

Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris Rhea

Report ID:
A8J0729 - 11 07 18 1017

APEX LABS COOLER RECEIPT FORM

Client: EES Element WO#: A8 J0729

Project/Project #: De Boecks Texaco / 2093-01

Delivery Info:

Date/time received: 10/25/18 @ 1340 By: OB

Delivered by: Apex Client ESS FedEx UPS Swift Senvoy SDS Other

Cooler Inspection Date/time inspected: 10/25/18 @ 1345 By: COB

Chain of Custody included? Yes No Custody seals? Yes No

Signed/dated by client? Yes No

Signed/dated by Apex? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>2.1</u>	<u>3.0</u>					
Received on ice? (Y/N)	<u>Y</u>	<u>Y</u>					
Temp. blanks? (Y/N)	<u>Y</u>	<u>Y</u>					
Ice type: (Gel/Real/Other)	<u>Real</u>	<u>Real</u>					
Condition:	<u>Good</u>	<u>Good</u>					

Cooler out of temp? (Y/N) N Possible reason why: _____

If some coolers are in temp and some out, were green dots applied to out of temperature samples? Yes/No/NA

Out of temperature samples form initiated? Yes/No/NA

Samples Inspection: Date/time inspected: 10/25/18 @ 1420 By: JS/COB

All samples intact? Yes No Comments: _____

Bottle labels/COCs agree? Yes No Comments: _____

COC/container discrepancies form initiated? Yes No NA

Containers/volumes received appropriate for analysis? Yes No Comments: _____

Do VOA vials have visible headspace? Yes No NA

Comments: _____

Water samples: pH checked: Yes No NA pH appropriate? Yes No NA

Comments: MW-4 FF pH ~7

Additional information: TB # 1899

Labeled by: OB Witness: CFH Cooler Inspected by: JS/COB See Project Contact Form: Y



EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: Debocks Texaco
Project Number: 2093-01
Project Manager: Chris Rhea

Report ID:
A8J0729 - 11 07 18 1017

CHAIN OF CUSTODY

APEX LABS 12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: EES Project Mgr: Chris Rhea Project Name: Debocks Texaco Project #: 2093-01

Address: 240 N Broadway Ste 203 Portland OR 97227 Phone: 503 847-2340 Fax: _____ Email: Chris.Rhea@ees.com

Sampled by: Nicola's (Bob) AK

Site Location: OR WA Other: _____

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-CHD	NWTPH-DX	NWTPH-GX	8260 VOCs Full List	8260 RBDM VOCs	8260 HVOCS	8260 BTEX VOCs + N	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TTO	ICRA Metals (8)	TCLP Metals (8)	AL, SB, AR, BA, BE, CA, CR, CU, CO, MO, NI, PB, HG, MR, MN, NI, NA, SE, AG, NA, TI, V, ZN	TOTAL DISS TCLP	1200-COIS	1200-Z	MAR, EOX, EDB	TOTAL LEAD	
MAN-1	7/25/11	1530	M	8			X				X													
MAN-3	7/25/11	1605																						
MAN-4	7/25/11	1530																						
MAN-5	7/25/11	1615																						
MAN-6	7/25/11	1610																						
MAN-7	7/25/11	1615																						
MAN-8	7/25/11	1617																						
MAN-9	7/25/11	1611																						
MAN-10	7/25/11	1604																						
MAN-11	7/25/11	1622																						

Normal Turn Around Time (TAT) = 10 Business Days YES NO

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: _____

SPECIAL INSTRUCTIONS: Hold Samples for 30 days Pending

RECEIVED BY: _____ RECEIVED BY: _____

Signature: [Signature] Signature: _____ Date: _____ Date: _____

Printed Name: Nicola's Bob Printed Name: _____ Time: _____ Time: _____

Company: EES Company: _____

Apex Laboratories

Kevin J. Friscia, Project Manager

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EES Environmental Inc
240 N Broadway Ste 203
Portland, OR 97227

Project: **Debocks Texaco**
Project Number: **2093-01**
Project Manager: **Chris Rhea**

Report ID:
A8J0729 - 11 07 18 1017

CHAIN OF CUSTODY

APEX LABS 12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: **EES** Project Mgr: **Chris Rhea** Project Name: **Debocks Texaco** Project # **2093-01**

Address: **240 N Broadway Ste 203 Portland OR 97227** Phone: **503-847-7410** Fax: **---** Email: **CHRIS@EES-ENV.COM**

Lab # **A8J0729** Lab # _____ Lab # _____ Lab # _____ Lab # _____ Lab # _____

PO# _____ Project # **2093-01**

Sampled by: **Chris Rhea**

LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	ANALYSIS REQUEST		
					8260 HVOCS	8260 BTEX VOCs + N	8260 RBDM VOCs
1	4/24/18	12:00	Water	8		X	
2	4/24/18	12:00	Water	8		X	
3	4/24/18	12:00	Water	1			
4	4/24/18	12:00	Water	1			
5							
6							
7							
8							
9							
10							

Site Location: OR WA Other _____

Normal Turn Around Time (TAT) = 10 Business Days YES: NO:

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: _____

SPECIAL INSTRUCTIONS: **Hold Sample Analy. Pending**

RECEIVED BY: _____ RECEIVED BY: _____

Signature: _____ Signature: _____ Date: _____ Date: _____

Printed Name: **Chris Rhea** Printed Name: _____ Time: **12:10** Time: _____

Company: **EES** Company: _____

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Kevin J. Friscia, Project Manager

Attachment C

Soil Vapor & Subslab Vapor Sampling Sheet

EES Project No.: 2093-01

Site Name: DeBock's Texaco

Location: 100 West Main St., Grandview, WA

Install Date: 3-14-18

Sample Date: 3-14-18

Vapor Probe Construction

Probe or Sample I.D.: 5/8"
 Screen Material: Stainless
 Tube or Piping Material: Teflon
 Tube or Piping Diameter (Nom.): 1/4 inches
 Slab Thickness: N/A inches *soil surface*
 Probe Intake Depth: 5 (feet)
 Sub-Grade Aggregate Material:

Indoor Air Information

Temperature: — °F
 Barometric Pressure: — ()
 PID Reading: — ppm VOCs

Outdoor Air Information

Temperature: 56 °F
 Barometric Pressure: 29.8 (Hg)

Purge Equipment

(Peristaltic Pump) / Purge Canister / Syringe
 Purge Rate: 200 mL/min
 Flow Controller Used? Yes / No Rate: 200 mL/min

10:17 Sample Volume Calculation

Required Volume: _____ mL
 Maximum Sample Rate: DBP mL/min
 Syringe Volume: _____ mL
 Number of Pulls: _____
 Time for Each Pull: _____ seconds

Purge Volume Calculation

3/4" Annular Space = — in * (7.24 mL/in) = — mL
 1" Annular Space = — in * (12.87 mL/in) = — mL
 3/8" Probe Length = — in * (1.0 mL/in) = — mL
 1/4" Tubing Length = 120 in * (0.37 mL/in) = 44.4 mL
 Total Dead Volume: 44.4 mL
 Volumes Purged: 2
 Total Volume Purged: 88.8 mL
 Purge Time: 88.8 mL (min / 200 mL) (60 sec / min) = 27 sec

Leak Testing

Tracer Material: He
 Gas or Liquid? Gas / Liquid
 Shroud Used? Yes / No
 Concentration in Shroud (Pre): 711
 Concentration in Shroud (Post): 351
 Summa Train Tight? Yes / No

Subslab Vapor Measurements (During/After Purging)

Temperature: — °F
 Pressure: — ()
 Background PID Reading: 0.0 ppm VOCs
 Purge PID Reading: 6.9 ppm VOCs
 Post-Sample PID Reading: 10.9 ppm VOCs
 Purge He Reading: 0 ppm He / % He
 Post-Sample He Reading: 0 ppm He / % He
 GEM Readings: 19.0 %O₂
1.6 %CO₂
0.0 %CH₄

Sample Information

Sample I.D.: 5/8"
 Canister I.D.: 6L1785
 Sorbent Tube I.D.: —
 Begin Vacuum: 30 (29 on man. (dd)) in. Hg
 End Vacuum: 8 in. Hg
 Begin Sample Time: 1540
 End Sample Time: 1609
 Vacuum Gauge I.D.: 1734
 Flow Regulator I.D.: 30995
 Particulate Filter I.D.: 12/29/16-10-1861

Notes: *First borehole appeared clogged (measured only 2" W.C after ~2 hrs). Redwilt & install new probe 3' West.*

Borehole back-filled w/ bentonite chips & finished w/ existing soil

Volume Calc: (1 in³ = 16.39 mL)
 1/4-inch O.D. (0.170-inch I.D.) Tubing: 0.37 mL per linear inch of tubing
 3/8-inch O.D. (0.277-inch I.D.) Tubing/Pipe: 1.0 mL per linear inch of tubing/piping
 3/4-inch Diameter Drill Bit (annular space): 7.24 mL per linear inch of annular space
 1-inch Diameter Drill Bit (annular space): 12.87 mL per linear inch of annular space

Handheld Meters:
 RAE 2000 PID: Flow rate = 550 mL/min
 Gas-Check Helium Meter: Flow rate = 2 mL/min

Soil Vapor & Subslab Vapor Sampling Sheet

EES Project No.: 2093-01

Site Name: DeBock's, Texaco

Location: 100 West Main St, Grandview, WA

Install Date: 3-14-18

Sample Date: 3-14-18

Vapor Probe Construction

Probe or Sample I.D.: SG2
 Screen Material: Stainless
 Tube or Piping Material: Teflon
 Tube or Piping Diameter (Nom.): 1/4 inches
 Slab Thickness: N/A inches soil surface
 Probe Intake Depth: 5 (feet)
 Sub-Grade Aggregate Material:

Indoor Air Information

Temperature: --- °F
 Barometric Pressure: --- ()
 PID Reading: --- ppm VOCs

Outdoor Air Information

Temperature: 55 °F
 Barometric Pressure: 29.8 (Hg)

Purge Equipment

(Peristaltic Pump) / Purge Canister / Syringe
 Purge Rate: 200 ml/min
 Flow Controller Used? (Yes) / No Rate: 200 ml/min

17 Sample Volume Calculation

Required Volume: _____ ml
 Maximum Sample Rate: DBP ml/min
 Syringe Volume: _____ ml
 Number of Pulls: _____
 Time for Each Pull: _____ seconds

Purge Volume Calculation

3/4" Annular Space = 120 in * (7.24 ml/in) = 868.8 ml
 1" Annular Space = --- in * (12.87 ml/in) = --- ml
 3/8" Probe Length = --- in * (1.0 ml/in) = --- ml
 1/4" Tubing Length = 120 in * (0.37 ml/in) = 44.4 ml
 Total Dead Volume: 913.2 ml
 Volumes Purged: 2
 Total Volume Purged: 1826.4 ml
 Purge Time: 27.8 sec (min) 0.46 min 27.8 sec

Leak Testing

Tracer Material: He
 Gas or Liquid? Gas / Liquid
 Shroud Used? Yes / No
 Concentration in Shroud (Pre): 86%
 Concentration in Shroud (Post): 57%
 Summa Train Tight? Yes / No

Subslab Vapor Measurements (During/After Purging)

Temperature: --- °F
 Pressure: --- ()
 Background PID Reading: 0.0 ppm VOCs
 Purge PID Reading: 11.5 ppm VOCs
 Post-Sample PID Reading: 0.3 ppm VOCs
 Purge He Reading: 0 ppm He / % He
 Post-Sample He Reading: 0 ppm He / % He
 GEM Readings: 19.1 %O₂
1.9 %CO₂
0.0 %CH₄

Sample Information

Sample I.D.: SG2
 Canister I.D.: 600736
 Sorbent Tube I.D.: ---
 Begin Vacuum: 30 (27 on manifold gauge) in. Hg
 End Vacuum: 7 on manifold in. Hg
 Begin Sample Time: 1433
 End Sample Time: 1510
 Vacuum Gauge I.D.: 1734
 Flow Regulator I.D.: 20133
 Particulate Filter I.D.: 02/06/15-05-251

Notes: He detected during purging. (AIP) check seal of shroud & determine tubing not properly threaded on tip at depth & cannot be re-threaded. Abandon hole & move 3' n. and redrill.

He conc. in shroud @ 1455 = 70%.
 Borehole back-filled w/ bentonite & surface finished w/ existing soil.

Volume Calc: (1 in³ = 16.39 ml)
 1/4-inch O.D. (0.170-inch I.D.) Tubing: 0.37 ml per linear inch of tubing
 3/8-inch O.D. (0.277-inch I.D.) Tubing/Pipe: 1.0 ml per linear inch of tubing/piping
 3/4-inch Diameter Drill Bit (annular space): 7.24 ml per linear inch of annular space
 1-inch Diameter Drill Bit (annular space): 12.87 ml per linear inch of annular space

Handheld Meters:
 RAE 2000 PID: Flow rate = 550 ml/min
 Gas-Check Helium Meter: Flow rate = 2 ml/min

Soil Vapor & Subslab Vapor Sampling Sheet

EES Project No.: 2093-01

Site Name: DeBock's Texaco

Location: 100 West Main St., Grandview, WA

Install Date: 3-14-18

Sample Date: 3-14-18

Vapor Probe Construction

Probe or Sample I.D.: SG3

Screen Material: Stainless

Tube or Piping Material: Teflon

Tube or Piping Diameter (Nom.): 1/4 Inches

Slab Thickness: N/A Inches soil surface

Probe Intake Depth: 5 (feet)

Sub-Grade Aggregate Material:

Indoor Air Information

Temperature: --- °F

Barometric Pressure: --- ()

PID Reading: --- ppm VOCs

Outdoor Air Information

Temperature: 55 °F

Barometric Pressure: 29.8 (Hg)

Purge Equipment

(Peristaltic Pump) / Purge Canister / Syringe

Purge Rate: 200 ml/min

Flow Controller Used? Yes / No Rate: 200 ml/min

Purge Volume Calculation

3/4" Annular Space = --- in * (7.24 ml/in) = --- ml

1" Annular Space = --- in * (12.87 ml/in) = --- ml

3/8" Probe Length = --- in * (1.0 ml/in) = --- ml

1/4" Tubing Length = 120 in * (0.37 ml/in) = 44.4 ml

Total Dead Volume: 44.4 ml

Volumes Purged: 2

Total Volume Purged: 88.8 ml

Purge Time: 27 sec

TO-17 Sample Volume Calculation

Required Volume: --- ml

Maximum Sample Rate: DBP ml/min

Syringe Volume: --- ml

Number of Pulls: ---

Time for Each Pull: --- seconds

Leak Testing

Tracer Material: He

Gas or Liquid? Gas / Liquid

Shroud Used? Yes / No

Concentration in Shroud (Pre): 82%

Concentration in Shroud (Post): 25%

Summa Train Tight? Yes / No

Subslab Vapor Measurements (During/After Purging)

Temperature: --- °F

Pressure: --- ()

Background PID Reading: 0.0 ppm VOCs

Purge PID Reading: 4.6 ppm VOCs

Post-Sample PID Reading: 8.0 ppm VOCs

Purge He Reading: 0 ppm He / % He

Post-Sample He Reading: 0 ppm He / % He

GEM Readings: 19.5 %O₂

1.3 %CO₂

0.0 %CH₄

Sample Information

Sample I.D.: SG3

Canister I.D.: 6L1738

Sorbent Tube I.D.: ---

Begin Vacuum: 30 in. Hg

End Vacuum: 8 in. Hg

Begin Sample Time: 1329

End Sample Time: 1402

Vacuum Gauge I.D.: 1713

Flow Regulator I.D.: 20141

Particulate Filter I.D.: 12/29/16-10-123

Notes: He conc. in shroud @ 1344 = 12% add He to 7.5%

Borehole back-filled w/ bentonite & finished with existing soil at surface.

Volume Calc: (1 in³ = 16.39 ml)
 1/4-Inch O.D. (0.170-inch I.D.) Tubing: 0.37 mL per linear inch of tubing
 3/8-Inch O.D. (0.277-inch I.D.) Tubing/Pipe: 1.0 mL per linear inch of tubing/piping
 3/4-Inch Diameter Drill Bit (annular space): 7.24 mL per linear inch of annular space
 1-Inch Diameter Drill Bit (annular space): 12.87 mL per linear inch of annular space

Handheld Meters:
 RAE 2000 PID: Flow rate = 550 mL/min
 Gas-Check Helium Meter: Flow rate = 2 mL/min

Soil Vapor & Subslab Vapor Sampling Sheet

EES Project No.: 2093-01

Site Name: DeBock's Texaco

Location: 100 West Main St., Grandview, WA

Install Date: 3-14-18

Sample Date: 3-14-18

Vapor Probe Construction

Probe or Sample I.D.: SG4
 Screen Material: Stainless
 Tube or Piping Material: Teflon
 Tube or Piping Diameter (Nom.): 1/4 Inches
 Slab Thickness: N/A inches soil surface
 Probe Intake Depth: 5 (feet)
 Sub-Grade Aggregate Material:

Indoor Air Information

Temperature: — °F
 Barometric Pressure: — ()
 PID Reading: — ppm VOCs

Outdoor Air Information

Temperature: 59 °F
 Barometric Pressure: 29.8 (Hg)

Purge Equipment

(Peristaltic Pump) / Purge Canister / Syringe

Purge Rate: 200 ml/min
 Flow Controller Used? Yes / No Rate: 200 mL/min

Purge Volume Calculation

3/4" Annular Space = — in * (7.24 mL/in) = — mL
 1" Annular Space = — in * (12.87 mL/in) = — mL
 3/8" Probe Length = — in * (1.0 mL/in) = — mL
 1/4" Tubing Length = 120 in * (0.37 mL/in) = 44.4 mL
 Total Dead Volume: 44.4 mL
 Volumes Purged: 2
 Total Volume Purged: 88.8 mL
 Purge Time: 27 sec

10.47 Sample Volume Calculation

Required Volume: _____ mL
 Maximum Sample Rate: DBP mL/min
 Syringe Volume: _____ mL
 Number of Pulls: _____
 Time for Each Pull: _____ seconds

Leak Testing

Tracer Material: He
 Gas or Liquid? Gas / Liquid
 Shroud Used? Yes / No
 Concentration in Shroud (Pre): 801
 Concentration in Shroud (Post): 317
 Summa Train Tight? Yes / No

Subslab Vapor Measurements (During/After Purging)

Temperature: — °F
 Pressure: — ()
 Background PID Reading: 0.0 ppm VOCs
 Purge PID Reading: 22.6 ppm VOCs
 Post-Sample PID Reading: 4.5 ppm VOCs
 Purge He Reading: 0 (ppm He) / % He
 Post-Sample He Reading: 0 (ppm He) / % He
 GEM Readings: 20.3 %O₂
0.2 %CO₂
0.0 %CH₄

Sample Information

Sample I.D.: SG4
 Canister I.D.: 620759
 Sorbent Tube I.D.: —
 Begin Vacuum: 29.5 (28 on manifold) Hg
 End Vacuum: 0 in. Hg
 Begin Sample Time: 1554
 End Sample Time: 1602
 Vacuum Gauge I.D.: 1734
 Flow Regulator I.D.: 22378
 Particulate Filter I.D.: 08/05/14-01-458

Notes: Borehole back filled w/ bentonite & finished w/ existing soil.

Volume Calc: (1 in³ = 16.39 mL)
 1/4-inch O.D. (0.170-inch I.D.) Tubing: 0.37 mL per linear inch of tubing
 3/8-inch O.D. (0.277-inch I.D.) Tubing/Pipe: 1.0 mL per linear inch of tubing/piping
 3/4-inch Diameter Drill Bit (annular space): 7.24 mL per linear inch of annular space
 1-inch Diameter Drill Bit (annular space): 12.87 mL per linear inch of annular space

Handheld Meters:
 RAE 2000 PID: Flow rate = 550 mL/min
 Gas-Check Hellum Meter: Flow rate = 2 mL/min

Soil Vapor & Subslab Vapor Sampling Sheet

EES Project No.: 2093-01

Site Name: DeBock's Texaco

Location: 100 West Main St., Grandview, WA

Install Date: 3-14-18

Sample Date: 3-14-18

Vapor Probe Construction

Probe or Sample I.D.: SG5

Screen Material: Stainless

Tube or Piping Material: Teflon

Tube or Piping Diameter (Nom.): 1/4 inches

Slab Thickness: N/A inches soil surface

Probe Intake Depth: 5 (feet)

Sub-Grade Aggregate Material:

Indoor Air Information

Temperature: — °F

Barometric Pressure: — ()

PID Reading: — ppm VOCs

Outdoor Air Information

Temperature: 59 °F

Barometric Pressure: 29.8 (in. Hg)

Purge Equipment

(Peristaltic Pump) / Purge Canister / Syringe

Purge Rate: 200 ml/min

Flow Controller Used? (Yes) / No Rate: 200 ml/min

Purge Volume Calculation

3/4" Annular Space = — in * (7.24 ml/in) = — ml

1" Annular Space = — in * (12.87 ml/in) = — ml

3/8" Probe Length = — in * (1.0 ml/in) = — ml

1/4" Tubing Length = 120 in * (0.37 ml/in) = 44.4 ml

Total Dead Volume: 44.4 ml

Volumes Purged: 2

Total Volume Purged: 88.8 ml

Purge Time: 27 sec

10-17 Sample Volume Calculation

Required Volume: — ml

Maximum Sample Rate: DBP ml/min

Syringe Volume: — ml

Number of Pulls: —

Time for Each Pull: — seconds

Leak Testing

Tracer Material: He

Gas or Liquid? (Gas) / Liquid

Shroud Used? (Yes) / No

Concentration in Shroud (Pre): 847

Concentration in Shroud (Post): 417

Summa Train Tight? (Yes) / No

Subslab Vapor Measurements (During/After Purging)

Temperature: — °F

Pressure: — ()

Background PID Reading: 0.0 ppm VOCs

Purge PID Reading: 7.3 ppm VOCs

Post-Sample PID Reading: 7.9 ppm VOCs

Purge He Reading: 0 (ppm He) % He

Post-Sample He Reading: 0 (ppm He) % He

GEM Readings: 17.3 %O₂

2.7 %CO₂

0.0 %CH₄

Sample Information

Sample I.D.: SG5

Canister I.D.: 620848

Sorbent Tube I.D.: —

Begin Vacuum: 30 (27 on manifold) in. Hg

End Vacuum: 7 in. Hg

Begin Sample Time: 1638

End Sample Time: 1719

Vacuum Gauge I.D.: 1734

Flow Regulator I.D.: 30575

Particulate Filter I.D.: 04/15/16-41-394

Notes: He conc in shroud @ 1655 = 507.

Boring backfilled w/ bentonite chips & finished w/ existing gravel @ surface.

Volume Calc: (1 in³ = 16.39 ml)
 1/4-inch O.D. (0.170-inch I.D.) Tubing: 0.37 mL per linear inch of tubing
 3/8-inch O.D. (0.277-inch I.D.) Tubing/Pipe: 1.0 mL per linear inch of tubing/piping
 3/4-inch Diameter Drill Bit (annular space): 7.24 mL per linear inch of annular space
 1-inch Diameter Drill Bit (annular space): 12.87 mL per linear inch of annular space

Handheld Meters:
 RAE 2000 PID: Flow rate = 550 mL/min
 Gas-Check Helium Meter: Flow rate = 2 mL/min

Soil Vapor & Subslab Vapor Sampling Sheet

EES Project No.: 2093-01

Site Name: DeBock's Texaco

Location: 100 West Main St., Grandview, WA

Install Date: 3-14-18

Sample Date: 3-14-18

Vapor Probe Construction

Probe or Sample I.D.: 5/6

Screen Material: Stainless

Tube or Piping Material: Teflon

Tube or Piping Diameter (Nom.): 1/4 inches

Slab Thickness: N/A inches soil surface

Probe Intake Depth: 5 (feet)

Sub-Grade Aggregate Material:

Indoor Air Information

Temperature: — °F

Barometric Pressure: — ()

PID Reading: — ppm VOCs

Outdoor Air Information

Temperature: 57 °F

Barometric Pressure: 29.8 inHg

Purge Equipment

(Peristaltic Pump) / Purge Canister / Syringe

Purge Rate: 200 ml/min

Flow Controller Used? (Yes) / No Rate: 200 ml/min

Purge Volume Calculation

3/4" Annular Space = — in * (7.24 ml/in) = — ml

1" Annular Space = — in * (12.87 ml/in) = — ml

3/8" Probe Length = — in * (1.0 ml/in) = — ml

1/4" Tubing Length = 120 in * (0.37 ml/in) = 44.4 ml

Total Dead Volume: 44.4 ml

Volumes Purged: 2

Total Volume Purged: 88.8 ml

Purge Time: 27 sec

TO-17 Sample Volume Calculation

Required Volume: — ml

Maximum Sample Rate: DBP ml/min

Syringe Volume: — ml

Number of Pulls: —

Time for Each Pull: — seconds

Leak Testing

Tracer Material: He

Gas or Liquid? (Gas) / Liquid

Shroud Used? (Yes) / No

Concentration in Shroud (Pre): 657

Concentration in Shroud (Post): 571

Summa Train Tight? (Yes) / No

Subslab Vapor Measurements (During/After Purging)

Temperature: — °F

Pressure: — ()

Background PID Reading: 0.0 ppm VOCs

Purge PID Reading: 6.1 ppm VOCs

Post-Sample PID Reading: 5.1 ppm VOCs

Purge He Reading: 0 (ppm He) / % He

Post-Sample He Reading: 0 ppm He / % He

GEM Readings: 20.1 %O₂

0.7 %CO₂

0.0 %CH₄

Sample Information

Sample I.D.: SG6

Canister I.D.: 6L1477

Sorbent Tube I.D.: —

Begin Vacuum: 29.5 in. Hg

End Vacuum: 8 in. Hg

Begin Sample Time: 1735

End Sample Time: 1814

Vacuum Gauge I.D.: 1703

Flow Regulator I.D.: 21410

Particulate Filter I.D.: 06/08/15-35-123

Notes: He conc. in shroud @ 1757 = 657.

Backfill borehole with bentonite chips & finish surface with existing soil.

Volume Calcs: (1 in³ = 16.39 mL)
 1/4-inch O.D. (0.170-inch I.D.) Tubing: 0.37 mL per linear inch of tubing
 3/8-inch O.D. (0.277-inch I.D.) Tubing/Pipe: 1.0 mL per linear inch of tubing/piping
 3/4-inch Diameter Drill Bit (annular space): 7.24 mL per linear inch of annular space
 1-inch Diameter Drill Bit (annular space): 12.87 mL per linear inch of annular space

Handheld Meters:
 RAE 2000 PID: Flow rate = 550 mL/min
 Gas-Check Helium Meter: Flow rate = 2 mL/min

Soil Vapor & Subslab Vapor Sampling Sheet

EES Project No.: 2093-01

Site Name: DeBock's Texaco

Location: 100 West Main St, Grandview, WA

Install Date: 3-15-18

Sample Date: 3-15-18

Vapor Probe Construction

Probe or Sample I.D.: SG7
 Screen Material: Stainless
 Tube or Piping Material: Teflon
 Tube or Piping Diameter (Nom.): 1/4 inches
 Slab Thickness: 6 inches
 Probe Intake Depth: 5 (feet)
 Sub-Grade Aggregate Material:

Indoor Air Information

Temperature: — °F
 Barometric Pressure: — ()
 PID Reading: — ppm VOCs

Outdoor Air Information

Temperature: 32 °F
 Barometric Pressure: 29.8 (in. Hg)

Purge Equipment

(Peristaltic Pump) / Purge Canister / Syringe
 Purge Rate: 200 mL/min
 Flow Controller Used? Yes / No Rate: 200 mL/min

10:1 Sample Volume Calculation

Required Volume: _____ mL
 Maximum Sample Rate: DBP mL/min
 Syringe Volume: _____ mL
 Number of Pulls: _____
 Time for Each Pull: _____ seconds

Purge Volume Calculation

3/4" Annular Space = — in * (7.24 mL/in) = — mL
 1" Annular Space = — in * (12.87 mL/in) = — mL
 3/8" Probe Length = — in * (1.0 mL/in) = — mL
 1/4" Tubing Length = 120 in * (0.37 mL/in) = 44.4 mL
 Total Dead Volume: 44.4 mL
 Volumes Purged: 2
 Total Volume Purged: 88.8 mL
 Purge Time: 27 sec

Leak Testing

Tracer Material: He
 Gas or Liquid? Gas / Liquid
 Shroud Used? Yes / No
 Concentration in Shroud (Pre): 90%
 Concentration in Shroud (Post): 45%
 Summa Train Tight? Yes / No

Subslab Vapor Measurements (During/After Purging)

Temperature: — °F
 Pressure: — ()
 Background PID Reading: 0.0 ppm VOCs
 Purge PID Reading: 4.5 ppm VOCs
 Post-Sample PID Reading: 2.6 ppm VOCs
 Purge He Reading: 0 ppm He / % He
 Post-Sample He Reading: 0 ppm He / % He
 GEM Readings: 18.5 %O₂
2.4 %CO₂
0.0 %CH₄

Sample Information

Sample I.D.: SG7
 Canister I.D.: 6L0396
 Sorbent Tube I.D.: _____
 Begin Vacuum: 30 in. Hg
 End Vacuum: 8 in. Hg
 Begin Sample Time: 0835
 End Sample Time: 0904
 Vacuum Gauge I.D.: 1802
 Flow Regulator I.D.: 22653
 Particulate Filter I.D.: 02/26/16-37-504

Notes: He conc in shroud @ 0850 = 20%.
 He conc in shroud @ 0900 = 6%. Add He to 45%.

Bore hole back filled w/ bentonite & surface finished w/ concrete patch

Volume Calc: (1 in³ = 16.39 mL)
 1/4-inch O.D. (0.170-inch I.D.) Tubing: 0.37 mL per linear inch of tubing
 3/8-inch O.D. (0.277-inch I.D.) Tubing/Pipe: 1.0 mL per linear inch of tubing/piping
 3/4-inch Diameter Drill Bit (annular space): 7.24 mL per linear inch of annular space
 1-inch Diameter Drill Bit (annular space): 12.87 mL per linear inch of annular space

Handheld Meters:
 RAE 2000 PID: Flow rate = 550 mL/min
 Gas-Check Helium Meter: Flow rate = 2 mL/min

Soil Vapor & Subslab Vapor Sampling Sheet

EES Project No.: 2093-01

Site Name: DeBock's Texaco

Location: 100 West Main St., Grandview, WA
 Install Date: 3-15-18 Sample Date: 3-15-18

Vapor Probe Construction

Probe or Sample I.D.: SG 8
 Screen Material: Stainless
 Tube or Piping Material: Teflon
 Tube or Piping Diameter (Nom.): 1/4 inches
 Slab Thickness: 2 inches
 Probe Intake Depth: 5 (feet)
 Sub-Grade Aggregate Material:

Indoor Air Information

Temperature: --- °F
 Barometric Pressure: --- ()
 PID Reading: --- ppm VOCs

Outdoor Air Information

Temperature: 32 °F
 Barometric Pressure: 29.8 (inHg)

Purge Equipment

(Peristaltic Pump) / Purge Canister / Syringe
 Purge Rate: 200 mL/min
 Flow Controller Used? (Yes) / No Rate: 200 mL/min

10-17 Sample Volume Calculation

Required Volume: _____ mL
 Maximum Sample Rate: DBP mL/min
 Syringe Volume: _____ mL
 Number of Pulls: _____
 Time for Each Pull: _____ seconds

Purge Volume Calculations

3/4" Annular Space = --- in * (7.24 mL/in) = --- mL
 1" Annular Space = --- in * (12.87 mL/in) = --- mL
 3/8" Probe Length = --- in * (1.0 mL/in) = --- mL
 1/4" Tubing Length = 120 in * (0.37 mL/in) = 44.4 mL
 Total Dead Volume: 44.4 mL
 Volumes Purged: 2
 Total Volume Purged: 88.8 mL
 Purge Time: 27 SEC

Leak Testing

Tracer Material: He
 Gas or Liquid? (Gas) / Liquid
 Shroud Used? (Yes) / No
 Concentration in Shroud (Pre): 711
 Concentration in Shroud (Post): 427
 Summa Train Tight? (Yes) / No

Subslab Vapor Measurements (During/After Purging)

Temperature: --- °F
 Pressure: --- ()
 Background PID Reading: 0.0 ppm VOCs
 Purge PID Reading: 3.8 ppm VOCs
 Post-Sample PID Reading: 2.6 ppm VOCs
 Purge He Reading: 0 (ppm He) / % He
 Post-Sample He Reading: 525 (ppm He) / % He
 GEM Readings: 16.8 %O₂
3.5 %CO₂
0.0 %CH₄

Sample Information

Sample I.D.: SG
 Canister I.D.: 620993
 Sorbent Tube I.D.: ---
 Begin Vacuum: 30 (29 on manifold) in. Hg
 End Vacuum: 8 in. Hg
 Begin Sample Time: 0846
 End Sample Time: 0917
 Vacuum Gauge I.D.: 1802
 Flow Regulator I.D.: 20309
 Particulate Filter I.D.: 06/08/15-25-119

Notes: He conc in shroud @ 0900 = 607.

Borehole backfilled w/ bentonite & surface finished w/ concrete patch

Volume Calc: (1 in³ = 16.39 mL)
 1/4-inch O.D. (0.170-inch I.D.) Tubing: 0.37 mL per linear inch of tubing
 3/8-inch O.D. (0.277-inch I.D.) Tubing/Pipe: 1.0 mL per linear inch of tubing/piping
 3/4-inch Diameter Drill Bit (annular space): 7.24 mL per linear inch of annular space
 1-inch Diameter Drill Bit (annular space): 12.87 mL per linear inch of annular space

Handheld Meters:
 RAE 2000 PID: Flow rate = 550 mL/min
 Gas-Check Helium Meter: Flow rate = 2 mL/min

Soil Vapor & Subslab Vapor Sampling Sheet

EES Project No.: 2093-01

Site Name: DeBock's Texaco

Location: 100 West Main St., Grandview, WA

Install Date: 3-15-18

Sample Date: 3-15-18

Vapor Probe Construction

Probe or Sample I.D.: SG 9

Screen Material: Stainless

Tube or Piping Material: Teflon

Tube or Piping Diameter (Nom.): 1/4 inches

Slab Thickness: 3 inches

Probe Intake Depth: 5 (feet)

Sub-Grade Aggregate Material:

Indoor Air Information

Temperature: — °F

Barometric Pressure: — ()

PID Reading: — ppm VOCs

Outdoor Air Information

Temperature: 41 °F

Barometric Pressure: 29.8 (in Hg)

Purge Equipment

(Peristaltic Pump) / Purge Canister / Syringe

Purge Rate: 200 mL/min

Flow Controller Used? Yes / No Rate: 200 mL/min

Purge Volume Calculation

3/4" Annular Space = — in * (7.24 mL/in) = — mL

1" Annular Space = — in * (12.87 mL/in) = — mL

3/8" Probe Length = — in * (1.0 mL/in) = — mL

1/4" Tubing Length = 170 in * (0.37 mL/in) = 44.4 mL

Total Dead Volume: 44.4 mL

Volumes Purged: 2

Total Volume Purged: 88.8 mL

Purge Time: 27 sec

10-37 Sample Volume Calculation

Required Volume: — mL

Maximum Sample Rate: DBP mL/min

Syringe Volume: — mL

Number of Pulls: —

Time for Each Pull: — seconds

Leak Testing

Tracer Material: He

Gas or Liquid? Gas / Liquid

Shroud Used? Yes / No

Concentration in Shroud (Pre): 811

Concentration in Shroud (Post): 647

Summa Train Tight? Yes / No

Subslab Vapor Measurements (During/After Purging)

Temperature: — °F

Pressure: — ()

Background PID Reading: 0.0 ppm VOCs

Purge PID Reading: 2.8 ppm VOCs

Post-Sample PID Reading: 5.0 ppm VOCs

Purge He Reading: 0 ppm He / % He

Post-Sample He Reading: 700 ppm He / % He

GEM Readings: 20.6 %O₂

0.2 %CO₂

0.0 %CH₄

Sample Information

Sample I.D.: SG 9

Canister I.D.: 610714

Sorbent Tube I.D.: —

Begin Vacuum: 30 (29 on manifold) Hg

End Vacuum: 8 in. Hg

Begin Sample Time: 1016

End Sample Time: 1056

Vacuum Gauge I.D.: 1802

Flow Regulator I.D.: 20955

Particulate Filter I.D.: 01125/16-39-343

Notes: He Conc in shroud @ 1035 = 757.

Borehole back filled w/ bentonite & finished w/ concrete @ surface.

Volume Calcs: (1 in³ = 16.39 mL)
 1/4-Inch O.D. (0.170-Inch I.D.) Tubing: 0.37 mL per linear Inch of tubing
 3/8-Inch O.D. (0.277-Inch I.D.) Tubing/Pipe: 1.0 mL per linear Inch of tubing/piping
 3/4-Inch Diameter Drill Bit (annular space): 7.24 mL per linear Inch of annular space
 1-Inch Diameter Drill Bit (annular space): 12.87 mL per linear Inch of annular space

Handheld Meters:
 RAE 2000 PID: Flow rate = 550 mL/min
 Gas-Check Helium Meter: Flow rate = 2 mL/min

Attachment D

4/4/2018

Mr. Chris Rhea
EES Environmental Consulting, Inc.
240 N Broadway
Suite 203
Portland OR 97227

Project Name: Debock's Texaco
Project #: 2093-01
Workorder #: 1803396

Dear Mr. Chris Rhea

The following report includes the data for the above referenced project for sample(s) received on 3/21/2018 at Air Toxics Ltd.

The data and associated QC analyzed by Modified 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 to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

WORK ORDER #: 1803396

Work Order Summary

CLIENT:	Mr. Chris Rhea EES Environmental Consulting, Inc. 240 N Broadway Suite 203 Portland, OR 97227	BILL TO:	Mr. Chris Rhea EES Environmental Consulting, Inc. 240 N Broadway Suite 203 Portland, OR 97227
PHONE:	530-847-2740	P.O. #	
FAX:		PROJECT #	2093-01 Debock's Texaco
DATE RECEIVED:	03/21/2018	CONTACT:	Kelly Buettner
DATE COMPLETED:	04/04/2018		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	SG2	Modified TO-15	9.0 "Hg	5 psi
01B	SG2	Modified TO-15	9.0 "Hg	5 psi
02A	SG3	Modified TO-15	8.0 "Hg	5 psi
02B	SG3	Modified TO-15	8.0 "Hg	5 psi
03A	SG1	Modified TO-15	8.0 "Hg	5 psi
03B	SG1	Modified TO-15	8.0 "Hg	5 psi
04A	SG4	Modified TO-15	7.0 "Hg	5 psi
04B	SG4	Modified TO-15	7.0 "Hg	5 psi
05A	SG5	Modified TO-15	6.5 "Hg	5 psi
05B	SG5	Modified TO-15	6.5 "Hg	5 psi
06A	SG6	Modified TO-15	7.0 "Hg	5 psi
06B	SG6	Modified TO-15	7.0 "Hg	5 psi
07A	SG7	Modified TO-15	6.5 "Hg	5 psi
07B	SG7	Modified TO-15	6.5 "Hg	5 psi
08A	SG8	Modified TO-15	7.0 "Hg	5 psi
08B	SG8	Modified TO-15	7.0 "Hg	5 psi
09A	SG9	Modified TO-15	7.0 "Hg	5 psi
09B	SG9	Modified TO-15	7.0 "Hg	5 psi
10A	Lab Blank	Modified TO-15	NA	NA
10B	Lab Blank	Modified TO-15	NA	NA
11A	CCV	Modified TO-15	NA	NA
11B	CCV	Modified TO-15	NA	NA
12A	LCS	Modified TO-15	NA	NA

Continued on next page

WORK ORDER #: 1803396

Work Order Summary

CLIENT:	Mr. Chris Rhea EES Environmental Consulting, Inc. 240 N Broadway Suite 203 Portland, OR 97227	BILL TO:	Mr. Chris Rhea EES Environmental Consulting, Inc. 240 N Broadway Suite 203 Portland, OR 97227
PHONE:	530-847-2740	P.O. #	
FAX:		PROJECT #	2093-01 Debock's Texaco
DATE RECEIVED:	03/21/2018	CONTACT:	Kelly Buettner
DATE COMPLETED:	04/04/2018		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
12AA	LCSD	Modified TO-15	NA	NA
12B	LCS	Modified TO-15	NA	NA
12BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: 

 Technical Director

DATE: 04/04/18

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
 TX NELAP - T104704434-16-11, UT NELAP CA0093332016-7, VA NELAP - 8113, WA NELAP - C935
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2016, Expiration date: 10/17/2017.
 Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

LABORATORY NARRATIVE
Modified TO-15 Full Scan/SIM
EES Environmental Consulting, Inc.
Workorder# 1803396

Nine 6 Liter Summa Canister (SIM Certified) samples were received on March 21, 2018. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	<=30% RSD with 2 compounds allowed out to < 40% RSD	For Full Scan: 30% RSD with 4 compounds allowed out to < 40% RSD For SIM: Project specific; default criteria is <=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+/- 30% Difference	For Full Scan: <= 30% Difference with four allowed out up to <=40%.; flag and narrate outliers For SIM: Project specific; default criteria is <= 30% Difference with 10% of compounds allowed out up to <=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

The Chain of Custody was missing method information. EATL proceeded with the analysis as per the original contract or verbal agreement.

Analytical Notes

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

A single point calibration for TPH referenced to Gasoline was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

Definition of Data Qualifying Flags

Nine 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 no 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.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

CN - See case narrative explanation

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-15 GC/MS SIM/FULL SCAN

Client Sample ID: SG2

Lab ID#: 1803396-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	0.96	1.5	1.8	2.9
Hexane	0.19	0.59	0.67	2.1
TPH ref. to Gasoline (MW=100)	19	22	78	90

Client Sample ID: SG2

Lab ID#: 1803396-01B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.096	0.63	0.30	2.0
Toluene	0.038	0.81	0.14	3.0
Ethyl Benzene	0.038	0.16	0.16	0.70
m,p-Xylene	0.076	0.52	0.33	2.3
o-Xylene	0.038	0.26	0.16	1.1

Client Sample ID: SG3

Lab ID#: 1803396-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	0.92	6.4	1.7	12
1,2,4-Trimethylbenzene	0.18	0.20	0.90	1.0

Client Sample ID: SG3

Lab ID#: 1803396-02B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.092	0.24	0.29	0.76
Toluene	0.037	0.64	0.14	2.4
Ethyl Benzene	0.037	0.13	0.16	0.58
m,p-Xylene	0.073	0.48	0.32	2.1
o-Xylene	0.037	0.18	0.16	0.80

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: SG1

Lab ID#: 1803396-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	0.92	2.7	1.7	5.1

Client Sample ID: SG1

Lab ID#: 1803396-03B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.092	0.21	0.29	0.66
Toluene	0.037	0.20	0.14	0.77
Ethyl Benzene	0.037	0.037	0.16	0.16
m,p-Xylene	0.073	0.075	0.32	0.33
o-Xylene	0.037	0.043	0.16	0.19

Client Sample ID: SG4

Lab ID#: 1803396-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trimethylbenzene	0.18	0.25	0.86	1.2

Client Sample ID: SG4

Lab ID#: 1803396-04B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.088	0.12	0.28	0.38
Toluene	0.035	0.42	0.13	1.6
Ethyl Benzene	0.035	0.043	0.15	0.19
m,p-Xylene	0.070	0.15	0.30	0.66
o-Xylene	0.035	0.071	0.15	0.31

Client Sample ID: SG5

Lab ID#: 1803396-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: SG5

Lab ID#: 1803396-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	0.86	2.2	1.6	4.2

Client Sample ID: SG5

Lab ID#: 1803396-05B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.086	0.34	0.27	1.1
Toluene	0.034	0.40	0.13	1.5
Ethyl Benzene	0.034	0.084	0.15	0.36
m,p-Xylene	0.068	0.20	0.30	0.89
o-Xylene	0.034	0.082	0.15	0.36

Client Sample ID: SG6

Lab ID#: 1803396-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	0.88	1.7	1.6	3.2
Hexane	0.18	0.34	0.62	1.2
1,2,4-Trimethylbenzene	0.18	0.37	0.86	1.8

Client Sample ID: SG6

Lab ID#: 1803396-06B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.088	0.17	0.28	0.53
Toluene	0.035	2.9	0.13	11
Ethyl Benzene	0.035	0.10	0.15	0.44
m,p-Xylene	0.070	0.42	0.30	1.8
o-Xylene	0.035	0.22	0.15	0.94
Naphthalene	0.088	0.11	0.46	0.59

Summary of Detected Compounds

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: SG7

Lab ID#: 1803396-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	0.86	2.4	1.6	4.6
1,3,5-Trimethylbenzene	0.17	1.2	0.84	5.8
1,2,4-Trimethylbenzene	0.17	3.6	0.84	18
TPH ref. to Gasoline (MW=100)	17	69	70	280

Client Sample ID: SG7

Lab ID#: 1803396-07B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.086	0.38	0.27	1.2
Toluene	0.034	0.61	0.13	2.3
Ethyl Benzene	0.034	0.25	0.15	1.1
m,p-Xylene	0.068	1.1	0.30	5.0
o-Xylene	0.034	0.50	0.15	2.2
Naphthalene	0.086	0.48	0.45	2.5

Client Sample ID: SG8

Lab ID#: 1803396-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	0.88	2.2	1.6	4.0
1,2,4-Trimethylbenzene	0.18	0.32	0.86	1.6

Client Sample ID: SG8

Lab ID#: 1803396-08B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.088	1.5	0.28	4.8
Toluene	0.035	0.44	0.13	1.7
Ethyl Benzene	0.035	0.087	0.15	0.38
m,p-Xylene	0.070	0.33	0.30	1.4
o-Xylene	0.035	0.14	0.15	0.63

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: SG9

Lab ID#: 1803396-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	0.88	1.3	1.6	2.5

Client Sample ID: SG9

Lab ID#: 1803396-09B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Toluene	0.035	0.28	0.13	1.0
Ethyl Benzene	0.035	0.049	0.15	0.21
m,p-Xylene	0.070	0.17	0.30	0.76
o-Xylene	0.035	0.076	0.15	0.33



Air Toxics

Client Sample ID: SG2

Lab ID#: 1803396-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v032213	Date of Collection: 3/14/18 2:33:00 PM
Dil. Factor:	1.91	Date of Analysis: 3/22/18 03:57 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	0.96	1.5	1.8	2.9
Hexane	0.19	0.59	0.67	2.1
1,3,5-Trimethylbenzene	0.19	Not Detected	0.94	Not Detected
1,2,4-Trimethylbenzene	0.19	Not Detected	0.94	Not Detected
TPH ref. to Gasoline (MW=100)	19	22	78	90

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: SG2

Lab ID#: 1803396-01B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v032213sim	Date of Collection: 3/14/18 2:33:00 PM
Dil. Factor:	1.91	Date of Analysis: 3/22/18 03:57 PM

Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	0.19	Not Detected	0.69	Not Detected
Benzene	0.096	0.63	0.30	2.0
1,2-Dichloroethane	0.038	Not Detected	0.15	Not Detected
Toluene	0.038	0.81	0.14	3.0
1,2-Dibromoethane (EDB)	0.038	Not Detected	0.29	Not Detected
Ethyl Benzene	0.038	0.16	0.16	0.70
m,p-Xylene	0.076	0.52	0.33	2.3
o-Xylene	0.038	0.26	0.16	1.1
Naphthalene	0.096	Not Detected	0.50	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: SG3

Lab ID#: 1803396-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v032214	Date of Collection: 3/14/18 1:29:00 PM
Dil. Factor:	1.83	Date of Analysis: 3/22/18 05:06 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	0.92	6.4	1.7	12
Hexane	0.18	Not Detected	0.64	Not Detected
1,3,5-Trimethylbenzene	0.18	Not Detected	0.90	Not Detected
1,2,4-Trimethylbenzene	0.18	0.20	0.90	1.0
TPH ref. to Gasoline (MW=100)	18	Not Detected	75	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: SG3

Lab ID#: 1803396-02B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v032214sim	Date of Collection: 3/14/18 1:29:00 PM
Dil. Factor:	1.83	Date of Analysis: 3/22/18 05:06 PM

Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	0.18	Not Detected	0.66	Not Detected
Benzene	0.092	0.24	0.29	0.76
1,2-Dichloroethane	0.037	Not Detected	0.15	Not Detected
Toluene	0.037	0.64	0.14	2.4
1,2-Dibromoethane (EDB)	0.037	Not Detected	0.28	Not Detected
Ethyl Benzene	0.037	0.13	0.16	0.58
m,p-Xylene	0.073	0.48	0.32	2.1
o-Xylene	0.037	0.18	0.16	0.80
Naphthalene	0.092	Not Detected	0.48	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: SG1

Lab ID#: 1803396-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v032215	Date of Collection: 3/14/18 3:40:00 PM
Dil. Factor:	1.83	Date of Analysis: 3/22/18 05:44 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	0.92	2.7	1.7	5.1
Hexane	0.18	Not Detected	0.64	Not Detected
1,3,5-Trimethylbenzene	0.18	Not Detected	0.90	Not Detected
1,2,4-Trimethylbenzene	0.18	Not Detected	0.90	Not Detected
TPH ref. to Gasoline (MW=100)	18	Not Detected	75	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: SG1

Lab ID#: 1803396-03B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v032215sim	Date of Collection:	3/14/18 3:40:00 PM
Dil. Factor:	1.83	Date of Analysis:	3/22/18 05:44 PM

Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	0.18	Not Detected	0.66	Not Detected
Benzene	0.092	0.21	0.29	0.66
1,2-Dichloroethane	0.037	Not Detected	0.15	Not Detected
Toluene	0.037	0.20	0.14	0.77
1,2-Dibromoethane (EDB)	0.037	Not Detected	0.28	Not Detected
Ethyl Benzene	0.037	0.037	0.16	0.16
m,p-Xylene	0.073	0.075	0.32	0.33
o-Xylene	0.037	0.043	0.16	0.19
Naphthalene	0.092	Not Detected	0.48	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: SG4

Lab ID#: 1803396-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v032216	Date of Collection: 3/14/18 3:54:00 PM
Dil. Factor:	1.75	Date of Analysis: 3/22/18 06:21 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	0.88	Not Detected	1.6	Not Detected
Hexane	0.18	Not Detected	0.62	Not Detected
1,3,5-Trimethylbenzene	0.18	Not Detected	0.86	Not Detected
1,2,4-Trimethylbenzene	0.18	0.25	0.86	1.2
TPH ref. to Gasoline (MW=100)	18	Not Detected	72	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	107	70-130



Air Toxics

Client Sample ID: SG4

Lab ID#: 1803396-04B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v032216sim	Date of Collection:	3/14/18 3:54:00 PM
Dil. Factor:	1.75	Date of Analysis:	3/22/18 06:21 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	0.18	Not Detected	0.63	Not Detected
Benzene	0.088	0.12	0.28	0.38
1,2-Dichloroethane	0.035	Not Detected	0.14	Not Detected
Toluene	0.035	0.42	0.13	1.6
1,2-Dibromoethane (EDB)	0.035	Not Detected	0.27	Not Detected
Ethyl Benzene	0.035	0.043	0.15	0.19
m,p-Xylene	0.070	0.15	0.30	0.66
o-Xylene	0.035	0.071	0.15	0.31
Naphthalene	0.088	Not Detected	0.46	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	105	70-130

Client Sample ID: SG5

Lab ID#: 1803396-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v032217	Date of Collection: 3/14/18 4:38:00 PM
Dil. Factor:	1.71	Date of Analysis: 3/22/18 06:58 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	0.86	2.2	1.6	4.2
Hexane	0.17	Not Detected	0.60	Not Detected
1,3,5-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
1,2,4-Trimethylbenzene	0.17	Not Detected	0.84	Not Detected
TPH ref. to Gasoline (MW=100)	17	Not Detected	70	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	107	70-130

Client Sample ID: SG5

Lab ID#: 1803396-05B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v032217sim	Date of Collection: 3/14/18 4:38:00 PM
Dil. Factor:	1.71	Date of Analysis: 3/22/18 06:58 PM

Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	0.17	Not Detected	0.62	Not Detected
Benzene	0.086	0.34	0.27	1.1
1,2-Dichloroethane	0.034	Not Detected	0.14	Not Detected
Toluene	0.034	0.40	0.13	1.5
1,2-Dibromoethane (EDB)	0.034	Not Detected	0.26	Not Detected
Ethyl Benzene	0.034	0.084	0.15	0.36
m,p-Xylene	0.068	0.20	0.30	0.89
o-Xylene	0.034	0.082	0.15	0.36
Naphthalene	0.086	Not Detected	0.45	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: SG6

Lab ID#: 1803396-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v032218	Date of Collection: 3/14/18 5:35:00 PM
Dil. Factor:	1.75	Date of Analysis: 3/22/18 07:35 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	0.88	1.7	1.6	3.2
Hexane	0.18	0.34	0.62	1.2
1,3,5-Trimethylbenzene	0.18	Not Detected	0.86	Not Detected
1,2,4-Trimethylbenzene	0.18	0.37	0.86	1.8
TPH ref. to Gasoline (MW=100)	18	Not Detected	72	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	111	70-130

Client Sample ID: SG6

Lab ID#: 1803396-06B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v032218sim	Date of Collection: 3/14/18 5:35:00 PM
Dil. Factor:	1.75	Date of Analysis: 3/22/18 07:35 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	0.18	Not Detected	0.63	Not Detected
Benzene	0.088	0.17	0.28	0.53
1,2-Dichloroethane	0.035	Not Detected	0.14	Not Detected
Toluene	0.035	2.9	0.13	11
1,2-Dibromoethane (EDB)	0.035	Not Detected	0.27	Not Detected
Ethyl Benzene	0.035	0.10	0.15	0.44
m,p-Xylene	0.070	0.42	0.30	1.8
o-Xylene	0.035	0.22	0.15	0.94
Naphthalene	0.088	0.11	0.46	0.59

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: SG7

Lab ID#: 1803396-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v032219	Date of Collection: 3/15/18 8:35:00 AM
Dil. Factor:	1.71	Date of Analysis: 3/22/18 08:27 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	0.86	2.4	1.6	4.6
Hexane	0.17	Not Detected	0.60	Not Detected
1,3,5-Trimethylbenzene	0.17	1.2	0.84	5.8
1,2,4-Trimethylbenzene	0.17	3.6	0.84	18
TPH ref. to Gasoline (MW=100)	17	69	70	280

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: SG7

Lab ID#: 1803396-07B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v032219sim	Date of Collection: 3/15/18 8:35:00 AM
Dil. Factor:	1.71	Date of Analysis: 3/22/18 08:27 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	0.17	Not Detected	0.62	Not Detected
Benzene	0.086	0.38	0.27	1.2
1,2-Dichloroethane	0.034	Not Detected	0.14	Not Detected
Toluene	0.034	0.61	0.13	2.3
1,2-Dibromoethane (EDB)	0.034	Not Detected	0.26	Not Detected
Ethyl Benzene	0.034	0.25	0.15	1.1
m,p-Xylene	0.068	1.1	0.30	5.0
o-Xylene	0.034	0.50	0.15	2.2
Naphthalene	0.086	0.48	0.45	2.5

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	98	70-130



Air Toxics

Client Sample ID: SG8

Lab ID#: 1803396-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v032220	Date of Collection: 3/15/18 8:46:00 AM
Dil. Factor:	1.75	Date of Analysis: 3/22/18 09:04 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	0.88	2.2	1.6	4.0
Hexane	0.18	Not Detected	0.62	Not Detected
1,3,5-Trimethylbenzene	0.18	Not Detected	0.86	Not Detected
1,2,4-Trimethylbenzene	0.18	0.32	0.86	1.6
TPH ref. to Gasoline (MW=100)	18	Not Detected	72	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	106	70-130



Air Toxics

Client Sample ID: SG8

Lab ID#: 1803396-08B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v032220sim	Date of Collection: 3/15/18 8:46:00 AM
Dil. Factor:	1.75	Date of Analysis: 3/22/18 09:04 PM

Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	0.18	Not Detected	0.63	Not Detected
Benzene	0.088	1.5	0.28	4.8
1,2-Dichloroethane	0.035	Not Detected	0.14	Not Detected
Toluene	0.035	0.44	0.13	1.7
1,2-Dibromoethane (EDB)	0.035	Not Detected	0.27	Not Detected
Ethyl Benzene	0.035	0.087	0.15	0.38
m,p-Xylene	0.070	0.33	0.30	1.4
o-Xylene	0.035	0.14	0.15	0.63
Naphthalene	0.088	Not Detected	0.46	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	105	70-130

Client Sample ID: SG9

Lab ID#: 1803396-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v032221	Date of Collection: 3/15/18 10:16:00 AM
Dil. Factor:	1.75	Date of Analysis: 3/22/18 09:42 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	0.88	1.3	1.6	2.5
Hexane	0.18	Not Detected	0.62	Not Detected
1,3,5-Trimethylbenzene	0.18	Not Detected	0.86	Not Detected
1,2,4-Trimethylbenzene	0.18	Not Detected	0.86	Not Detected
TPH ref. to Gasoline (MW=100)	18	Not Detected	72	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	107	70-130



Air Toxics

Client Sample ID: SG9

Lab ID#: 1803396-09B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v032221sim	Date of Collection:	3/15/18 10:16:00 AM
Dil. Factor:	1.75	Date of Analysis:	3/22/18 09:42 PM

Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	0.18	Not Detected	0.63	Not Detected
Benzene	0.088	Not Detected	0.28	Not Detected
1,2-Dichloroethane	0.035	Not Detected	0.14	Not Detected
Toluene	0.035	0.28	0.13	1.0
1,2-Dibromoethane (EDB)	0.035	Not Detected	0.27	Not Detected
Ethyl Benzene	0.035	0.049	0.15	0.21
m,p-Xylene	0.070	0.17	0.30	0.76
o-Xylene	0.035	0.076	0.15	0.33
Naphthalene	0.088	Not Detected	0.46	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	105	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1803396-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v032206	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/18 11:25 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	0.50	Not Detected	0.94	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
TPH ref. to Gasoline (MW=100)	10	Not Detected	41	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	108	70-130

Client Sample ID: Lab Blank

Lab ID#: 1803396-10B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v032206sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/18 11:25 AM

Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Toluene	0.020	Not Detected	0.075	Not Detected
1,2-Dibromoethane (EDB)	0.020	Not Detected	0.15	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
Naphthalene	0.050	Not Detected	0.26	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	105	70-130

Client Sample ID: CCV

Lab ID#: 1803396-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v032202	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/18 08:48 AM

Compound	%Recovery
Ethanol	90
Hexane	95
1,3,5-Trimethylbenzene	96
1,2,4-Trimethylbenzene	93
TPH ref. to Gasoline (MW=100)	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	100	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 1803396-11B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v032202sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/18 08:48 AM

Compound	%Recovery
Methyl tert-butyl ether	98
Benzene	95
1,2-Dichloroethane	115
Toluene	96
1,2-Dibromoethane (EDB)	101
Ethyl Benzene	93
m,p-Xylene	87
o-Xylene	88
Naphthalene	121

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	95	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1803396-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v032203	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/18 09:25 AM

Compound	%Recovery	Method Limits
Ethanol	102	70-130
Hexane	99	70-130
1,3,5-Trimethylbenzene	100	70-130
1,2,4-Trimethylbenzene	98	70-130
TPH ref. to Gasoline (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	100	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1803396-12AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v032204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/18 10:03 AM

Compound	%Recovery	Method Limits
Ethanol	107	70-130
Hexane	100	70-130
1,3,5-Trimethylbenzene	99	70-130
1,2,4-Trimethylbenzene	97	70-130
TPH ref. to Gasoline (MW=100)	Not Spiked	

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 1803396-12B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v032203sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/18 09:25 AM

Compound	%Recovery	Method Limits
Methyl tert-butyl ether	101	70-130
Benzene	99	70-130
1,2-Dichloroethane	118	70-130
Toluene	101	70-130
1,2-Dibromoethane (EDB)	105	70-130
Ethyl Benzene	102	70-130
m,p-Xylene	93	70-130
o-Xylene	96	70-130
Naphthalene	88	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: LCSD

Lab ID#: 1803396-12BB

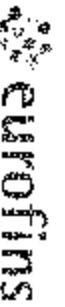
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v032204sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/22/18 10:03 AM

Compound	%Recovery	Method Limits
Methyl tert-butyl ether	101	70-130
Benzene	98	70-130
1,2-Dichloroethane	117	70-130
Toluene	100	70-130
1,2-Dibromoethane (EDB)	105	70-130
Ethyl Benzene	100	70-130
m,p-Xylene	92	70-130
o-Xylene	96	70-130
Naphthalene	86	60-140

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	96	70-130



Air Toxics

Sample Transportation Notice

Refrigerating signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any local Air Toxics Limited Assurances so liability will respect to the collection, handling or shipping of these samples. Refrigerating signature also indicates agreement to hold the firm, agent, and/or normally Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 457-4922

180 BLUE RAVINE ROAD, SUITE B
 FOLSOM, CA 95630-4719
 (916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager Chris Erna

Collected by: (Print and sign) Bonnie Peters Dannell Peters

Company EES Environmental Email CHRIS@EES-ENV.COM

Address 240 N Broadway ^{5th} Baytown Texas State TX Zip 77631

Phone 503.844.2740 Fax -

Project Info:		Turn Around Time:	Last Use Date:
P.O. # <u>-</u>	Project # <u>2093-01</u>	<input checked="" type="checkbox"/> Normal	Pressurized by: _____
Project Name <u>DeBuck's Texaco</u>		<input type="checkbox"/> Rust	Date _____
		quantity _____	Pressurization Gas _____
			NI He

Lab ID	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum	
						Initial	Final
<u>061</u>	<u>Sg1</u>	<u>6L0994</u>	<u>3-14-18</u>	<u>1250</u>		<u>29</u>	<u>8</u>
<u>064</u>	<u>Sg2</u>	<u>6L0936</u>	<u>3-14-18</u>	<u>1433</u>		<u>30</u>	<u>7</u>
<u>062A</u>	<u>Sg3</u>	<u>6L1738</u>		<u>1329</u>		<u>30</u>	<u>8</u>
<u>063A</u>	<u>Sg1</u>	<u>6L1785</u>		<u>1540</u>		<u>29</u>	<u>8</u>
<u>064A</u>	<u>Sg4</u>	<u>6L0759</u>		<u>1554</u>		<u>29</u>	<u>8</u>
<u>065A</u>	<u>Sg5</u>	<u>6L0847</u>		<u>1638</u>		<u>30</u>	<u>7</u>
<u>066A</u>	<u>Sg6</u>	<u>6L1477</u>		<u>1735</u>		<u>29</u>	<u>8</u>
<u>067A</u>	<u>Sg7</u>	<u>6L0396</u>	<u>3-15-18</u>	<u>0835</u>		<u>30</u>	<u>8</u>
<u>068A</u>	<u>Sg8</u>	<u>6L0943</u>		<u>0846</u>		<u>29</u>	<u>8</u>
<u>069A</u>	<u>Sg9</u>	<u>6L0714</u>		<u>1016</u>		<u>30</u>	<u>8</u>

Retrieved by: (signature) Dannell Peters Date/Time 3-15-18 0630
 Retrieved by: (signature) Alan Date/Time 3-12-18 1515

Notes:
Sg8 INITIAL ON WASTE
VACUUM = 29 "Hg
Please confirm correctly w/ Chris Erna

Relinquished by: (signature) _____ Date/Time _____
 Received by: (signature) _____ Date/Time _____

Lab Use Only: Shipper Name Ed Ex Air Bill # NA Temp (C) NA Condition Good Custody Seal Intact? Yes No More 1803396 Work Order # _____