HALEY ALDRICH

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REMEDIAL INVESTIGATION REPORT
TREOIL INDUSTRIES BIOREFINERY
4242 ALDERGROVE ROAD
FERNDALE, WASHINGTON

by
Haley & Aldrich, Inc.
Seattle, Washington

for
Washington State Department of Ecology
Shoreline, Washington

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PREPARED FOR
WASHINGTON STATE DEPARTMENT OF ECOLOGY
SHORELINE, WASHINGTON

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1. Introduction

Haley & Aldrich, Inc. (Haley & Aldrich) has prepared this remedial investigation (RI) report for the Treoil Industries Biorefinery property (Property) on behalf of the Washington State Department of Ecology (Ecology). It presents the activities and findings of the previous and the more recent RI activities (August 2023), including surface soil and water collection, and subsurface soil core sampling. The purpose of the RI is to generate data of sufficient quality to characterize the nature and extent of impacts in environmental media (the Site), including soil, groundwater, and surface water; to evaluate data relative to appropriate screening levels; and to support an evaluation of potential cleanup actions. The objective of the RI process is to identify any new or previously undiscovered contaminants of potential concern (COPCs) at the Site and their source(s) and extent. The RI was conducted in accordance with the Model Toxics Control Act (MTCA) - Washington Administrative Code (WAC) 173-340-350. The results of this RI will be used to prepare a feasibility study (FS) report.

2. Site Background

The background and physical setting information summarized below are based on Site visits and review of prior environmental data and documents.

The Property was used historically for numerous industrial operations, primarily for processing tall oil, but also for refining biodiesel and other small-scale industrial ventures. Tall oil is a byproduct of kraft paper processes and contains various wood components including pitch, pine oil, fatty and resin acids, and other wood breakdown byproducts. It is used commercially as an emulsifier for asphalt, and in adhesives, inks, and rubber products. During business operations over the decades, the Site has been the focus of several environmental compliance concerns and inspections dating back to the late 1980s and continuing to present day.

2.1 GENERAL SITE INFORMATION

The Property is located at 4242 Aldergrove Road (Cleanup Site ID number 950) and is comprised of a 34.24-acre parcel (#390108326085000 of Whatcom County) currently owned by the Campbell Land Corporation and Mr. Jagroop S. Gill. It is approximately 5 miles northwest of the City of Ferndale, Washington, and 8 miles south of the Canada-United States border, as depicted in Figure 1. Within the overall 34.24-acre Property, industrial activities were primarily concentrated in an approximately 3.5-acre section in the southeastern corner of the Property (Figure 2).

The Property is approximately 4 miles north of the Lummi Reservation and has been designated as a potential location of cultural and archaeological significance. Currently, the Property is zoned as Heavy Impact Industrial (HII) and Major/Port Industrial Urban Growth Area (UGA). Several residential homes are located less than half a mile to the east of the Property.

As shown in Figure 2 and as depicted extensively in the 2017 Final Trip Report (Environment and Ecology, Inc. [E&E], 2017) and the 2023 Treoil Removal Action Report (Weston Solutions, Inc., 2023), the former working area of the Property features consists of two primary warehouse buildings, designated Warehouses A and B. Warehouse A is a larger 6,400 square-foot building (oriented east to west), and

Warehouse B is a smaller 3,600-square-foot building (oriented north to south). Warehouse B is located approximately 40 feet north of Warehouse A and is adjacent to the western fence line of the working area. Along the western and southwestern portion of the Site and within the fence line, there are four dilapidated mobile home structures, two of which are partially collapsed. Adjacent to the northeast corner of Warehouse B is a distillation tower with ancillary equipment and structures.

The former working area currently contains crushed gravel in some drivable roadways surrounding the warehouses where, during the removal actions led by the United States Environmental Protection Agency (EPA) and their contractor in 2022, roadways were improved with imported gravel. The majority of the area is vegetated, and therefore, the former locations of several aboveground storage tanks (ASTs) were directly on soil and vegetated ground.

Previously, there were separate tank farms within three secondary containments. Evidence suggested these secondary containments were suspected to be at least partially pervious, which would have potentially released impacted water to the subsurface. Following the 2017 and 2022 removal actions, all three secondary containments have been decommissioned, and all ASTs removed. Several large mixing and boiler tanks, the distillation tower, and some of the associated piping still remain.

2.2 SITE HISTORY AND USE

According to Whatcom County's property records, the Property was previously owned by the Burlington Northern Railroad before 1988. Treoil Industries Ltd. (Treoil) then owned the Property from 1988 to 1994, after which the deed was transferred to the Campbell Land Corporation. The Treoil Industries Biorefinery was historically used for various industrial purposes, with its primary function being the processing of tall oil.

It was suspected that during historical operations and activities, the Property's soil, groundwater, and accumulated ponded water may have been impacted by a variety of contaminants including gasoline-, diesel-, and/or heavy oil-range total petroleum hydrocarbons (TPH-G, TPH-D, and TPH-O, respectively), petroleum-derived volatile organic compounds (VOCs) including benzene, toluene, ethylbenzene, and total xylenes (BTEX), polycyclic aromatic hydrocarbons (PAHs) and other semi-volatile organic compounds (SVOCs), and heavy metals. Materials previously removed from the Site found that metals, petroleum constituents, and PAHs exceed their respective MTCA Method A and/or C cleanup levels (CULs) or EPA Hazardous Total and/or Toxic Characteristic Leaching Procedure (TCLP) screening levels, where applicable, in soils (and were suspected to be in exceedance for ground and accumulated surface waters). Polychlorinated biphenyls (PCBs) were also previously detected in at least one sample (but below MTCA CULs).

Though several cleanup actions have occurred at the Property, based on recent observed conditions, additional impacts remain. For example, impacted soil is suspected to be present beneath and adjacent to former AST locations and adjacent to former containments, and associated with unknown historical releases.

Following the August 2023 RI activities, evidence suggests that only a surficial water table is present in the area (no groundwater was encountered during RI activities). This is evident in the significant seasonal presence of water at the surface and in adjacent wetlands abutting the active portions of the Property. Hydraulic connections from the active portions of the Property include three drainage ditches

that connect with an unnamed intermittent stream that ultimately discharges into the Strait of Georgia, an important marine habitat in the area.

The list below is a chronological description of the past waste spills and removal actions that occurred at the Property.

2.3 PREVIOUS INVESTIGATIONS

Initial Spill Detection:

- 1989 and 1994 - Ecology Water Quality Program files indicate a history of spills and poor maintenance operations at the Site, as recorded in the 1994 Site Hazard Assessment Inspection. An adjacent facility observed spilled oil seemingly originating from the Site, as recorded in the 1991 Ecology Notice of Violation.
- October 1991 - Ecology issued a Notice of Violation to facility operators for the discharge of approximately 1,000 gallons of spilled materials to a drainage ditch that eventually leads to the Strait of Georgia, a navigable water of the United States. The material spilled was described initially as “pine oil” in Ecology’s documents but has since been referred to as “tall oil.” The facility operators were not aware of the spill and were alerted by an adjacent facility.
- August 1992 - During a follow-up visit to ascertain whether Treoil was continuing to discharge without a National Pollutant Discharge Elimination System permit, evidence of oil contamination remained from an old spill surrounding the north sump. Oily sludge was also visible next to an empty drum that was staged near scattered solid waste piles.
- May 1994 - Following review by Ecology and under MTCA Chapter 70.105D RCW, the Treoil Industries Site was listed on the Confirmed and Suspected Contaminated Sites List.

Site Hazard Assessment:

- March 2000 through February 2001 - The Whatcom County Health & Human Services (WCHHS) and Ecology conducted a site inspection, collected samples, and performed a Site Hazard Assessment (Ecology, 2001). The Site was listed on the Hazardous Sites List for confirmed contamination of soils with metals, petroleum hydrocarbons, and PAHs. Numerous substances identified in the industrial processing of tall oil impact fish mortality, elevating the concern of contamination due to the proximity of and hydraulic connection to the Strait of Georgia. The environmentally hazardous sites are ranked between 1 and 5, where 1 represents the highest level of risk to human and environmental health and a 5 the lowest; the Treoil Site was ranked with a score of 2. The Site was referred to Ecology’s Spill Response Team as well.

Water Quality Inspection and State Environmental Policy Act (SEPA) Checklist Review:

- July 2006 - Inspectors from the following agencies visited the Site to review and identify the contaminants: Ecology’s Northwest Regional Office, Whatcom County Planning and Development Services, WCHHS, and Northwest Clean Air Agency. The Site operators were communicating plans to address the contamination complaints and develop the Site for biodiesel production; this was also evident in the SEPA Checklist submitted by TG Energy, Inc.

New Spill Reported:

- June 2014 - A complaint was filed by Ecology using the Environmental Report Tracking System regarding observed oily substances covering the ground over a large portion of the Site. The complaint also documented concerns regarding soil, air, groundwater, and surface water pollution from refinery processes as well as other industrial wastes. There was no evidence that any SEPA Checklist or previously reported compliance concerns were addressed and photographs from the Inspection Report identified several newly discovered areas of potential contamination. These areas included the entirety of the driveway, where oil was observed beneath new gravel, and a large pit outside of the western Property fence line.

Formal Complaint Received:

- 2014 - A formal complaint was received about the Site, prompting several inspections by WCHHS and Ecology's Hazardous Waste and Water Quality programs.
- July 2015 - Ecology issued Administrative Order #11685 (amended in September 2015, #12892) requiring actions at the Treoil Property because of noncompliance with several federal and state Hazardous and Dangerous Waste Regulations, as pertaining to WAC Chapter 173-303.

EPA Assessment and Emergency Removal Action:

- 2017 - Ecology and EPA's consultant, E&E, supported the EPA Emergency Removal Action (also called the Removal Site Evaluation conducted under Superfund Technical Assessment and Response Team (START) contract #EP-S7-13-07, Technical Direction Document #17-03-003 and #17-01-0012. Two Site mobilizations occurred, the first from 13 March through 7 April, and the second from 25 July through 4 August, as follow-up to the series of investigations and compliance concerns performed by Ecology. The comprehensive investigative process included photograph documentation, field sampling, waste characterization, and cleanup activities. Part of these investigations included mapping potential contamination pathways from the Site to waters of the United States. Approximately 90,000 gallons of tall oil were removed while many areas of concern remained on Site. Spill protection mechanisms were installed where feasible.
- March 2022 - The EPA performed a Site walk to document current Site conditions since their previous removal actions, observe recent Site activities, identify any new potential areas of concern, and evaluate whether additional action is warranted. Since 2017, recent activities had occurred, including an increase in volume of an unknown oily product in two ASTs (T-1 and T-3), further deterioration of Secondary Containment C, two new burned soil areas (not including the one area outside of the western fence line), and the appearance of numerous inoperable vehicles on Site that had been picked over for salvage/scrap.

- June 2022 - The EPA mobilized to the Site to follow up on the March Site visit and collected characterization samples from numerous tanks and from oil-saturated soils adjacent to actively leaking tanks. The oily water collected in Secondary Containment C was also sampled. The purposes of the mobilization were to update the understanding of current Site conditions as well as characterize and approximate waste streams and volumes for remediation and removal.

- September 2022 - The EPA mobilized to the Site and removed 59 tanks in total from the Property, remediating their contents on Site utilizing diatomaceous earth. The three secondary containments were drained and decommissioned to prevent further accumulations of impacted water. Some surface soils were removed where oily saturation was observed, specifically

adjacent to identified leaking valves and ASTs; the cumulative tonnage of excavated solid materials, including Site soils, solidified tall oil, non-hazardous sludge, and non-Resource, Conservation, and Recovery Act debris totaled approximately 3,038 tons. Following the removal of the largest secondary containment, four soil test pits were excavated to a depth of 36 inches to evaluate the potential extent of the leak. Additionally, a total of 96 orphan containers of miscellaneous size were categorized and removed. Between the demobilization of EPA and the initial Haley & Aldrich Site visit, Ecology requested that the Property owner remove the inoperable vehicles. By May 2023, the vehicles were gone.

Ecology Water Quality Program Sampling:

- 2022 – In May 2022, prior to the second EPA mobilization, representatives with Ecology's Water Quality (WQ) Program collected three water samples at select locations during the wet season. These locations included one background sample east of the Site, one in the secondary containment prior to its removal by the EPA, and one in the wetland immediately west of the facility fence line. The results are attached as Appendix A.

The Property was previously believed to be abandoned; however, between the 2017 and 2022 EPA visits to the Property, evidence of activity in the presence of newly abandoned/wrecked vehicles was observed. Though these were removed at Ecology's request prior to the August 2023 remedial investigations, ongoing Site security remains a concern.

2.4 UAS SURVEY

START contracted Empire Unmanned from Hayden, Idaho to pilot the Unmanned Aircraft System (UAS) for three aerial surveys. The aerial surveys were completed before (15 September 2022), during (19 October 2022), and after (11 November 2022) Site cleanup activities to photograph and document the removal progress. The aerial surveys predominantly focused on the active portions of the Site and no flyovers were conducted of the remaining approximately 31 acres of the Property.

Based on Property conditions observed by Haley & Aldrich during the Site reconnaissance visit in May 2023, and in reviewing the aerial survey results from EPA, there did not appear to be any disturbances beyond the general 3.5-acre industrial/working area, and an additional UAS flight/survey was not warranted at the time.

2.5 ADJACENT SITES

Haley & Aldrich completed a search of Ecology's online environmental databases and reviewed records for any listed sites within a 1-mile radius of the Site. The findings of the records review indicated a small industrial gas facility and the BP Cherry Point petroleum refinery approximately 0.5 miles to the west of the Site.

Bordering the eastern and southern edges of the Property is a Burlington Northern Santa Fe (BNSF) Railway line. There are no reported regulatory database listings related to the presence of the railway within 1 mile of the Site. The Property and immediately adjacent sites are currently zoned as Major/Port Industrial UGA; however, as noted above, there are also several residential homes located to the east.

2.6 SITE PHYSICAL SETTING

The Property is in the general vicinity of Cherry Point and is approximately 4 miles from the Lummi Reservation, and 6 miles from the city limits of the City of Ferndale. Due to the proximity to the Lummi Reservation and the potential cultural significance of the Site, subsurface investigations have previously been limited.

2.6.1 Geology

The topography of the region is generally flat. The Geologic Map of the Bellingham 7.5-Minute Quadrangles, Whatcom County, Washington (Lapen, 2000) indicates that the Property is likely underlain primarily by Emergence (beach) deposits. Soils common to the region and likely occurring on the Property are generally silt and sandy loams. During the EPA Removal Action, the oily gravel layer was approximately 3-inches thick and was underlain by an approximately 1-foot-thick uniform, gray, sandy fill layer. A silt layer (believed to be native) was observed beneath the gravel and sand fill layers and is believed to have been acting as a confining layer (Weston, 2023).

Soil from borings conducted by Haley & Aldrich remedial investigation generally consisted of 1 to 4 feet of topsoil underlain by clay with varying amounts of sand and gravel to approximately 50 feet below ground surface (bgs). Generalized subsurface Cross-Sections A-A' and B-B' are illustrated in Figures 3 and 4, respectively.

2.6.2 Hydrogeology

Regional groundwater was not encountered in any of the borings advanced (down to 50+ feet bgs) during the August 2023 RI. Based on the general topography and observed surface conditions, water generated by precipitation appears to flow southwest toward a wetland and larger drainage ditch. According to the 2017 Final Trip Report and investigations by the EPA, three smaller tributary ditches connect surface sheet flow toward this wetland. During Site reconnaissance conducted May 2023, Haley & Aldrich observed a drainage swale with water east of the BNSF railroad and the updated approximate delineation can be seen in Figure 2.

Haley & Aldrich reviewed Ecology's Watershed Characterization online database and evaluated the hydrological importance of the Site. The Site is designated as High Importance for both surface water storage and discharge. These designations are either based on the relative importance of the river floodplains intersecting permeable geologic deposits and/or the presence of depressional or sloping wetlands.

Following the August 2023 subsurface investigations, the true direction and depth of groundwater remains unknown as no groundwater was encountered in any of the 13 borings advanced.

2.6.3 Wetlands

A desktop review of the National Wetlands Inventory indicates that the entire area of the Site is emergent wetland and approximately the western half of the Property is forested wetland. This is likely due to the general area topography and proximity of the abutting forested wetlands to the west and south of the fence line.

On 28 January 2015, Ecology collected two sample data points west of the fence line. According to their data sheets and as verified during Site reconnaissance, the area immediately adjacent to the Site is a palustrine emergent (PEM) wetland. Wetland hydrology indicators observed are High Water Table (A2) at a depth of 2 inches at one sample point, Saturation (A3), and Hydrogen Sulfide Odor (C1). The dominant vegetation within the wetland is reed canary grass (*Phalaris arundinacea*), a Class C non-native wetland grass. The hydric soil indicators observed are Hydrogen Sulfide (A4) and Depleted Below Dark Surface (A11). In additional remarks, Ecology noted evidence of additional water coming from the northwest side of the facility. The Ecology delineation also noted that, in the eastern portions of the PEM wetland, it appears that fill was placed and impacted the integrity of what they deemed a marginal wetland in areas.

An additional field investigation was conducted 6 March 2017 by Ecology to further identify how surface flow that was originating from the Site and connected to the wetland in relation to two identified sumps. These contributing hydrologic connections can also be seen on Figure 2, in addition to the approximate connecting drainage swale that crosses beneath the railroad tracks via culvert and continues to the northeast of the tracks.

During the August 2023 remedial investigations, a generalized investigation of the non-active working areas of the former facility was conducted. The site visits occurred during a dry summer and there were no observed areas of ponding or surface water on the Property. Hydrophytic vegetation such as western cottonwoods and reed canary grass were observed dominating the herbaceous and tree strata, thus corroborating the continued presence of wetlands adjacent to and encroaching on the Site.

2.7 ENVIRONMENTAL JUSTICE

The objective of this section is to understand what Environmental Justice (EJ) concerns may exist for the Site and to anticipate potential EJ concerns related to the Site and the adjacent communities. This effort is required by Ecology, per WAC 173-340-350(6). In order to meet this new requirement, we utilized multiple tools to evaluate various indicators for this Site, as they relate to EJ and evaluating potential impacts to vulnerable populations and overburdened communities.

2.7.1 EPA Environmental Justice Review

EJ screening was conducted using EPA's EJScreen, which calculates and maps environmental and socioeconomic indicators in percentiles as a means to visualize how local communities compare with other populations within the state and nationwide. These maps provide data for regions in percentile format and broken down by census block groups, which typically have populations ranging from approximately 600 to 3,000 (EPA EJScreen, 2023).

The review of the EJScreen tool for the Site shows census block groups comprising Whatcom County (Tract No. 53073010504) are below the EPA-recommended 80th percentile for all EJ indicators, compared to other populations across the state and nationwide. Additional screening details specific to this Site, including socioeconomic indices, are provided in Appendix B.

From a social-vulnerability perspective, the census block groups rank in the 41st percentile for supplemental demographic index, 13th percentile for low income, 69th percentile for unemployment, 94th percentile for aging population (over age 64), and 54th percentile for low life expectancy in the state. While these socioeconomic indicators are elevated in the adjacent communities when compared

statewide and nationwide, it is unlikely these factors are to be further impacted by remedial actions conducted at the former Treoil facilities. Appendix B also provides more granular socioeconomic data, including details on Indigenous Peoples populations.

2.7.2 Washington Environmental Health Disparities (EHD) Review

The Washington State Department of Health also has an EJ mapping tool. The Washington Environmental Health Disparities (WEHD) Map is an interactive mapping tool that compares communities across Washington state for environmental health disparities. The community identified by the census tract in which the Site is located has a relatively low overall cumulative environmental health impact in the state, with a rank of 3 out of 10 overall risk ranking (WEHD, 2023).

However, the Site census track ranks relatively high in the state for some population vulnerability indicators, including transportation expenses, toxic releases from facilities, proximity to EPA Risk Management Plan facilities, and unaffordable housing. Additional output from the EHD mapping tool is also provided in Appendix B.

These screening results are not to be used as a definitive representation of conditions in the community or an assessment of individual risk, but rather as one line of evidence to characterize potential community environmental health burdens and social vulnerability.

2.8 CLIMATE CHANGE

As part of the new WAC (173-340-350(6)(f)) requirements, we are also including some details on the current and projected climatological characteristics for this Site; however, this will be further evaluated during the FS. The objective of this section is to understand what climate change concerns may exist for the Site and to anticipate potential climate change concerns that may affect the migration of contaminants of concern (COCs).

Key climate change impacts in the region are generally expected to include increased temperatures, more frequent extreme heat events paired with urban heat islands, increased drought risk, increase in invasive plant species, pests, and pathogens, sea-level rise, changes in hydrology leading to changes in forests and salmon habitats, increased precipitation resulting in increased stormwater runoff and erosion, and more frequent and intense precipitation events that may lead to prominent flooding (Rutledge and Brandt, 2022). Over the last five years, this region has been experiencing a higher frequency of wildfires and flooding events due to increased temperatures caused by climate change. Based on data provided and analyzed by the University of Washington, the average precipitation for Whatcom County will increase by 8.8 percent and the frequency of 2-year to 100-year storm events will increase between approximately 14 to 40 percent in the area around the Site (Climate Impacts Group, 2023). An increase in precipitation and extreme storm events could impact the Site by mobilizing COCs on the surface; however, this will be further evaluated in the FS and built into the planning of any cleanup alternatives proposed for this Site.

3. 2023 Remedial Investigation and Characterization

Remedial investigation activities performed in 2023 included completing soil borings and test pits and collecting soil, surface soil, surface water, and accumulated product for chemical analysis. An Inadvertent Discovery Plan was prepared as part of the RI Work Plan and was referenced and implemented during all subsurface investigation activities. No historical artifacts were encountered during any of the RI activities. However, there were some deviations from the RI Work Plan based on observed field conditions and other circumstances, as described in detail below.

3.1 DEVIATIONS FROM THE WORK PLAN

In some areas, proposed sample locations were inaccessible due to a number of reasons including the presence of dense vegetation and fence lines, or the proposed sample location was removed during the EPA Emergency Removal activities. In the event these sample locations deviated from the proposed sample locations, the location where the sample was collected was logged using a GPSGeo7x Trimble unit. Figure 2 shows the final sample locations and deviations from the RI Work Plan are summarized below and in Table 1.

Though the RI Work Plan (Haley & Aldrich, 2023) originally included installation of seven monitoring wells, groundwater was not encountered in any of the borings advanced during the 2023 RIs and, therefore, no monitoring wells were installed. Additionally, no grab groundwater samples from the borings could be collected. Select borings, B-01, B-04, and B-09, were advanced up to a depth of 55 feet bgs in an attempt to determine the depth of regional groundwater; however, these attempts were unsuccessful and equipment constraints prevented further investigation at greater depths during this RI mobilization. No surface water was present on Site at the time of the 2023 RI activities, although some accumulated water at two locations (a trench and sump associated with Warehouse B) were sampled for characterization for future disposal purposes. However, in December 2024, grab surface water samples were collected from the drainage system or ponded water on Site and one background sample was also collected.

Background Samples: one background location was eliminated due to consistent field conditions/observations, including consistent subsurface conditions across the site. BG-01 was shifted to the approximate location of proposed location BG-02 and BG-02 was eliminated.

Soil Samples: A few surface soil samples were adjusted based on changed field conditions. S-03 location was moved approximately 20' north of the proposed location to avoid an improved gravel access road that EPA installed during their 2022 Emergency Removal activities. S-04 location was moved roughly 150 feet to the northeast to better support the TEE work, and difficult access due to dense vegetation (including blackberry bushes). Proposed location for S-05 was on top of a concrete pad, so it was shifted 20 feet southwest of the pad to a location with exposed soil.

Groundwater Samples: no groundwater was encountered. No groundwater monitoring wells could be installed as a result.

Drainage/Wetland Samples: multiple samples in the drainage/wetland areas were adjusted in the field due to access issues caused by dense vegetation (including blackberry bushes). There

was also no water observed in these drainage/wetland areas during the time of sampling. The RIWP proposed collecting surface water samples in these areas which could not be completed as described above due to lack of water. Soil sample S-21 was shifted approximately 40 feet to the north due to the presence of dense vegetation. Soil sample S-22 was shifted approximately 60 feet to the northwest to avoid dense vegetation. Soil sample S-13 was shifted approximately 30 feet to the west due to obstructions (equipment debris/materials left on site), fencing, and dense vegetation.

Sumps/Surface Water Samples: as described above, no surface water was present on site during the 2023 RI implementation and therefore samples could not be collected. Two samples from water accumulated in sumps were collected (SW-11 and SW-12). No soil/sediment was present in the sumps so only water was collected/sampled from these locations. Sump sample S-09 was eliminated since this sump was removed during the 2022 EPA Emergency Removal activities. Following public review of the Draft RI Report, concerns were raised about the potential impacts the Site may have on the wetland and drainage system to the west of the Property (Figure 2). To address this data gap, three grab water samples (HA-W-02, HA-W-04, and HA-W-05) were collected from the drainage system, one ponded water was collected west of Warehouse B (HA-PW-01), and one background sample (HA-W-01) was collected in December 2024.

Pipe Product Sample: during the RI reconnaissance event, product material was observed dripping from a cut pipe in the distillation tower. However, during the RI implementation, the pipe was no longer actively dripping. Therefore, a grab sample (PP-01) was collected from an accumulated puddle of apparent product material located roughly 60 feet to the north of where the dripping pipe was initially observed).

Grab surficial soil samples in locations S-04, S-08, S-10, S-13, and S-24 required resampling (due to faulty sample container lids), which occurred on 21 August 2023. Location S-09 could not be sampled after the EPA removal action removed the sump where the sample was proposed to be collected.

Upon review of initial results, two of the surface samples (S-10 and S-15) had lead levels that were greater than 20 times the TCLP criteria for lead. To better facilitate soil disposal as non-hazardous waste in the future, these samples were analyzed for TCLP for lead while they were still within their appropriate holding time. These results are included in Table 2 as well.

3.2 FIELD INVESTIGATION ACTIVITIES AND OBSERVATIONS

Prior to any ground-disturbing activities for the investigation, private and public utility locate services were performed at the Site. Site exploration locations are shown on Figure 2. Field exploration and sampling methods, and exploration logs and field screening results are provided in Appendix C.

3.2.1 Field Observations

In August 2023, Haley & Aldrich and Ecology performed a Site reconnaissance to note the current conditions at the Site. Upon arrival, vagrant persons were present on Site. Haley & Aldrich contacted the county police department and requested a Site walk. Following the deputy's Site walk, field activities continued safely.

During the Site reconnaissance visit, a viscous pool of ponded product was observed and sampled. The product sample was collected in order to help characterize the material for future disposal. Some piping was observed that resembled potential vent piping from underground storage tanks (USTs) near Warehouse B and the pipe maze, but after further investigation it was determined that the piping was most likely associated with old water lines, and possibly stormwater drainage vaults or sumps.

3.2.2 Soil Boring Explorations

Between 7 and 10 August 2023, 13 borings (B-1 through B-12 and BG-01) were advanced to depths of 30 to 55 feet bgs (Figure 2) using a direct-push drill rig. Haley & Aldrich collected soil samples generally between 2.5- and 5-foot intervals for soil classification and potential chemical analysis.

Soil samples were field screened using sheen tests, visual and olfactory observations, and/or a photoionization detector to detect VOCs in the headspace. Elevated headspace detections were not noted in any of the samples collected from the borings. A petroleum-like odor and/or sheen was observed in near-surface soil samples collected from borings B-05, B-07, and B-10. Field screening results are provided in the exploration logs in Appendix C. Field screening results were used to select soil samples for chemical analysis (Table 2).

3.2.3 Surficial Soil Sampling and Test Pits

On 7 and 8 August 2023, 23 surface soil samples were collected at a depth of 0.5 feet bgs using hand tools. On 21 August 2023, five of the surface samples were resampled.

Immediately north and west of the distillation tower and ancillary piping, six test pits were advanced to a depth of approximately 2 feet under guidance of Ecology to evaluate the extent of the liquid tar product accumulated at the surface. The horizontal and vertical extents of the impacted soils from the adjacent ponded material were evaluated in the field by visual and olfactory observations; however, no samples were collected from the test pits for lab analysis.

3.2.4 Surface Water

As described above, there was no true surface water present on site during the RI. There are no permanent water bodies on or adjacent to the Site that would meet the MTCA “Surface Water” definition per WAC 173-340-200. There is stormwater runoff from the Site; however, this is not considered surface water under MTCA. Though the RI field mobilizations were conducted during the dry season, grab water samples were collected at the only two locations where standing water had accumulated on Site. These two locations included one trench within Warehouse B and a sump located off the northeastern corner, outside of Warehouse B. The accumulated water samples were collected to help characterize the water for future disposal.

Ecology’s WQ Program evaluated the wetland area westside of the Site. The WQ Program collected a total of three water samples in May 2022 during the wet season (one background, one wetland, and one from the [now former] secondary containment). The secondary containment was removed during EPA’s second removal action in October 2022, along with a large volume of material and impacted media.

Following the August 2023 RI activities, supplemental grab water samples were collected to address data gaps associated with potential accumulated water and associated impacts to the drainage system and wetlands to the west of the Property. Surface water was not present during the August 2023 RI

activities, but some stormwater runoff (in the form of small drainages) has been previously observed by Ecology staff along the west and southern portions of the Property that may drain or discharge into existing wetlands. On 12 December 2024, Haley & Aldrich field staff, accompanied by Ecology, collected three grab water samples (HA-W-02, HA-W-04, and HA-W-05) from the drainage system, one ponded water sample from a depression west of Warehouse B (HA-PW-01), and one background sample (HA-W-01) from a drainage channel adjacent to the BNSF railroad east of the property (Figure 2). All grab water samples were analyzed for TPH-G, TPH-D, TPH-O, SVOCs, VOCs, total and dissolved metals, and total suspended solids (TSS). Temperature, conductivity, turbidity, and pH measurements were also recorded in the field and are included in Table 4.

In general, the three grab water samples collected from the drainage system were obtained from heavily vegetated small drainage channels that were not well defined. While collecting sample HA-W-04, surface water within the shallow sampling area became highly turbid during the sample collection process, apparently due to disturbances caused by the movement of the sampling team while gaining access to the area.

4. Chemical Analytical Results

Under standard chain-of-custody procedures, samples were submitted to Eurofins Environment Testing NorthWest, (Eurofins; a Washington State accredited laboratory) for analyses. The Data User Summary Report (DUSR) and all laboratory reports are in Appendix D.

Selected soil samples and an oil product sample were analyzed for one or more of the following analyses:

- TPH-D and TPH-O by Ecology Method NWTPH-Dx;
- TPH-G by Ecology Method NWTPH-Gx;
- Extractable petroleum hydrocarbons (EPH) by Ecology Method NWEPH;
- Volatile petroleum hydrocarbons (VPH) by Ecology Method NWVPH;
- SVOCs by EPA Method SW846 8270E;
- VOCs by EPA Method 8260D;
- Total metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel, potassium, sodium, and zinc) by EPA Methods 6020B/1631E; and
- PCBs by EPA Method SW8082A.

The two grab accumulated water samples were analyzed for the following analyses:

- TPH-D and TPH-O by Ecology Method NWTPH-Dx;
- TPH-G by Ecology Method NWTPH-Gx;
- SVOCs by EPA Method SW846 8270E;
- VOCs by EPA Method 8260D;
- Dissolved and total metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel, potassium, sodium, and zinc) by EPA Methods SW6010D;

- PCBs by EPA Method SW8082A; and
- TSS by EPA Method SM2540D.

The five supplemental grab water samples collected in December 2024 were analyzed by OnSite Environmental, Inc. (OnSite; a Washington State accredited laboratory) for the following analyses:

- TPH-D and TPH-O by Ecology Method NWTPH-Dx;
- TPH-G by Ecology Method NWTPH-Gx;
- SVOCs by EPA Method 8270E/SIM;
- VOCs by EPA Method 8260D;
- Dissolved and total metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel, and zinc) by EPA Methods 200.8/7470A;
- Hardness by EPA Method 200.7/SM 2340B; and
- TSS by EPA Method SM2540D.

Figure 5 displays the sampling locations and analytical results for contaminants of concern that exceed MTCA-based screening levels. Analytical data and the laboratory's internal quality assurance and quality control data were reviewed to assess whether they meet project-specific data quality objectives. This review was performed consistent with accepted EPA procedures for evaluating laboratory analytical data and appropriate laboratory and method-specific guidelines (EPA, 2004, 2008). The chemical data review summarizing data evaluation procedures, usability of data, and deviations from specific field data and/or laboratory methods for the investigation data are presented in the DUSR within Appendix D. The data are considered acceptable for their intended use, with the appropriate data qualifiers assigned. Sample results are presented in the following section.

4.1 SOIL

During the RI activities, 57 soil samples were analyzed for one or more of the analyzed listed above. Detected values and sample locations are shown in Figure 5 and summarized in Table 2.

4.1.1 Total Petroleum Hydrocarbons

TPH-D and TPH-O was analyzed in 52 soil samples and 6 soil samples were analyzed for TPH-D and TPH-O with silica-gel cleanup. TPH-D and TPH-O values were compared to the results without silica-gel cleanup, unless otherwise noted, and the following was observed:

- TPH (the sum of TPH-D and TPH-O) was detected in five samples (B-07-S1, S-01, S-15, S-20, and S-22) at concentrations above the MTCA Ecological Indicator Soil Concentration for the Protection of Wildlife screening level of 6,000 mg/kg.
- TPH-G was either not detected at or above laboratory reporting limits or was detected at concentrations below applicable screening levels in all the soil samples analyzed.
- A Site-specific MTCA Method C CUL for direct soil contact of 70,000 mg/kg was calculated by the evaluation of EPH and VPH results for sample B-07-S1 using the MTCA TPH 12.0 tool. The calculation spreadsheet is provided in Appendix E.

4.1.2 VOCs

VOCs were analyzed in 43 soil samples and the following was observed:

- All other VOCs were either not detected at or above laboratory reporting limits or were detected at concentrations below applicable MTCA screening level.

4.1.3 SVOCs and PAHs

SVOCs were analyzed in 46 soil samples, and carcinogenic PAH (cPAH)-total toxic equivalent concentration (TEQ) was calculated for the samples with detected cPAH analytes. The following was observed:

- Pentachlorophenol was detected in one sample (B-07-01) above the MTCA Ecological Indicator Soil Concentrations for Protection of Wildlife screening criteria of 4.5 mg/kg.
- All other SVOCs were either not detected at or above laboratory reporting limits or were detected at a concentration below applicable MTCA screening level.

4.1.4 Metals

Total metals were analyzed in 42 soil samples and the following was observed:

- Chromium was detected in one sample (S-07) at a concentration above the MTCA Ecological Indicator Soil Concentration for the Protection of Wildlife (Wildlife Criteria) of 67 mg/kg. The Wildlife Criteria concentration is greater than the Ecology-derived natural background chromium concentration of 48 mg/kg. Chromium, which is assumed to be present predominantly in the trivalent form since there is no evidence of hexavalent chromium usage at the Site, was not detected at concentrations at or above the Method C Industrial screening level.
- Copper was detected in one sample (S-07) at a concentration above the Wildlife Criteria of 217 mg/kg. The Wildlife Criteria concentration is greater than the Ecology-derived natural background copper concentration of 36 mg/kg.
- Lead was detected in 2 samples (S-10 and S-15) at concentrations above the Wildlife Criteria of 118 mg/kg. The Wildlife Criteria concentration is greater than the Ecology-derived natural background lead concentration of 24 mg/kg.

4.2 GROUNDWATER

Groundwater was not encountered in any of the sample locations across the Site. Therefore, no groundwater samples were collected.

4.3 ACCUMULATED WATER

The only water encountered during Site investigations was accumulated within two sumps. A visible sheen was observed on top of the accumulated water at SW-12, which was located adjacent to the ponded product. Diesel- and oil-range petroleum hydrocarbons were detected at concentrations of 2,800 micrograms per Liter (µg/L) in SW-11 and 47,000 µg/L in SW-12. No PCBs or PAHs were detected in the two accumulated water samples.

4.4 SUPPLEMENTAL WATER SAMPLING

- TPHs
  - TPH-G was not detected at or greater than laboratory reporting limits in any of the samples analyzed
  - TPH (the sum of TPH-D and TPH-O) was detected in three samples (HA-PW-01, HA-W-02, and HA-W-04) at concentrations ranging between 260 and 1,770 µg/L, less than the preliminary cleanup level (PCUL) for the protection of fresh surface water aquatic receptors of 3,000 µg/L (based on Ecology's Implementation Memo #23).
- VOCs and SVOCs were either not detected at or above laboratory reporting limits or were detected at concentrations less than applicable PCULs.
- Metals
  - Total lead was detected in two samples (HA-PW-01 and HA-W-04) at concentrations ranging from of 3.6 and 7.9 µg/L, respectively, greater than the chronic PCUL for the protection of aquatic life in fresh surface water of 2.52 µg/L. Dissolved lead was either not detected at or above laboratory reporting limits or were detected at concentrations less than applicable PCULs. The elevated concentrations of total lead in the samples appear to be associated with the presence of suspended solids (turbidity).
  - Total copper was detected in one sample (HA-W-04) at a concentration of 23 µg/L, greater than the chronic PCUL for the protection of aquatic life in fresh surface water of 11.4 µg/L. Dissolved copper was either not detected at or greater than laboratory reporting limits or were detected at concentrations less than applicable PCULs. The elevated concentration of total copper in the sample appears to be associated with the presence of suspended solids (turbidity).
  - Total and dissolved arsenic, cadmium, mercury, nickel, and zinc were either not detected at or greater than laboratory reporting limits or were detected at concentrations below applicable PCULs.
- TSS
  - While there is no PCUL or screening criteria for TSS, the sample results were elevated. This is not surprising given the grab method of collection and the challenges of sampling shallow, highly vegetated drainage channels.

4.4.1 Wet Season Water Samples – *Collected by Ecology*

As has been previously stated, since at the time of sampling during the dry season, there are no permanent surface waters on the Site. The following results of water samples collected by Ecology's WQ Program May 2022 are compared to the South Lake Union (SLU) chronic PCULs for the protection of aquatic life in fresh surface water. The sampling results are attached as Appendix A.

The wetland water sample indicated copper (93.0 ug/L), lead (37.5 ug/L) and zinc (236 ug/L) exceeded the chronic PCULs for the protection of aquatic life in fresh surface water. Results are assumed to be on a totals (unfiltered) basis. No turbidity measurements were included in the laboratory report.

4.5 PIPE PRODUCT MATERIAL

During the Site reconnaissance visit, a dripping pipe was observed within the pipe maze. During EPA's removal action, this pipe was removed, but during the RI field activities, a ponded pool of product was observed and sampled (analyzed for TPH, VOCs/SVOCs, and PCBs). PCBs were non-detect. The other results are described below. The product samples were collected to help characterize for future disposal.

4.5.1 Total Petroleum Hydrocarbons

TPH-G, -D, and -O were analyzed for the product sample (PP-01) and detected at concentrations of 430,000 mg/kg.

4.5.2 VOCs and SVOCs

VOCs and SVOCs were analyzed in the pipe product sample and the following was observed:

- Benzene was detected at concentrations of 0.099 mg/kg.
- Methylene chloride (Dichloromethane) was detected at concentrations 0.24 mg/kg.
- Bis(2-Ethylhexyl)phthalate was detected at concentrations of 90 mg/kg.
- All other VOCs and SVOCs were either not detected at or above laboratory reporting limits or were detected at concentrations below screening levels.

5. Conceptual Site Model

This section presents a conceptual Site model (CSM) for the Site based on the data collected during the RI activities for the Site. The CSM identifies potential sources of contamination, contaminant fate and transport mechanisms/pathways, and potential receptor groups (human and ecological) and exposure pathways. Development of a CSM is dynamic and iterative and may be refined as additional information becomes available. The CSM is the basis for developing technically feasible cleanup alternatives and selecting a final cleanup as part of the FS process. The current CSM for the Site is discussed below and depicted on Figure 6.

5.1 CONTAMINANTS OF CONCERN

- Soil: the sum of TPH-D and TPH-O, SVOCs (pentachlorophenol), and metals (chromium, copper, and lead)
- Groundwater: none
- Air: none
- Surface Water: none

5.2 CONTAMINANT FATE, TRANSPORT, AND EXPOSURE ROUTES

Based on the history of the Site and results from the RI activities, the source(s) are likely related to the former industrial and processing operations. The primary transport mechanisms include atmospheric deposition to soils and/or sediments, stormwater runoff to soils and/or surface water, soil erosion, and food chain transfer originating from impacted media to higher trophic organisms. The following sections focus on the possible transport pathways and exposure routes from COCs at the Site (also shown in Figure 6).

5.2.1 Potential Sources and Release Mechanisms

Possible contaminant sources for the migration of tall oil-related products from the Site are due to the pulp kraft processing that occurred since the 1980s; unknown and known leaking secondary containments, staged drums, and miscellaneous abandoned vehicles and equipment scattered about the former working area; sand blasting grit related to metal processing in Warehouse A and on the eastern concrete pad; and possible other unknown sources.

5.2.2 Fate and Transport Processes

The fate and transport processes of heavy fuel oil depends on the composition of the contaminant and the environment affected by the contaminant. In general, when heavy fuel enters the environment, the individual products comprising the fuel partition to various environmental compartments according to their own physical-chemical properties (API, 2012).

The primary mechanisms likely to influence the fate and transport of chemicals at the Site include natural biodegradation of organic chemicals; sorption to soil; volatilization of volatile chemicals from soil; and discharge of chemically impacted soil to surface water. The relative importance of these processes varies depending on the chemical and physical properties of the released contaminant. The properties of soil, sediment, and the dynamics of surface water flow also affect contaminant fate and transport.

Contaminant releases at the Site appear to be primarily from surficial releases that have only minimally impacted subsurface soils due to the impermeable clay. These releases are primarily concentrated adjacent to the processing facilities; however, additional leaking tanks were stored on bare soil in several areas. The absence of groundwater encountered during the subsurface investigations throughout the entirety of the Site supports evidence that the surficial clay layer appears to have prevented any movement or penetration of water and aqueous-born contaminants to the underlain soils. For this reason, the soil-to-groundwater migration pathway is incomplete because groundwater was not encountered during remedial investigation activities. However, the soil-to-air, soil-to-surface water/sediment, and food transfer pathways are complete.

COCs present on the Site and their characteristics include the following:

- **TPH** refers to any mixture of hydrocarbons originating from crude oil. At this Site, TPH consists primarily of TPH-D and TPH-O that are less volatile and mobile than lighter products such as TPH-G. TPH can adsorb to soil particles, volatilize, and leach to and migrate in surface water. TPH in soil and surface water is very likely from the historical operations, including the pipe maze, storage tanks, and leaky secondary containment areas, as well as several documented

instances of poor housekeeping and inadequate maintenance of equipment and hazardous material storage on the Property, based on observed Site conditions.

- **Metals** occur naturally and can be deposited in the environment by anthropogenic means. They are dense compared to other common materials and are persistent in the environment. They do not degrade to nontoxic forms; however, they may be transformed into insoluble and biologically unavailable forms. Metals are transported primarily by being adsorbed on or absorbed in suspended particulate matter, and, therefore, soils and sediments are the most significant sink for metals. Certain metals (e.g., arsenic and lead) can be bioaccumulative.
- **SVOCs** are ubiquitous in the environment and are often associated with TPH, pesticides, and preservatives. In general, SVOCs do not dissolve easily in water and because of their low solubilities, typically partition into soils versus into surface water. Solubility and bioaccumulation potential vary among different SVOC compounds. SVOCs can be present in a variety of materials, including petroleum products, and are also formed during the incomplete burning of coal, oil and gas, or other organic substances. The presence of SVOCs (specifically pentachlorophenol) in soil is commonly linked with the use of wood-preserving agents or the handling, processing, transport, or storage of treated wood. This contamination is likely due to historical Site operations and activities involving wood preservatives and/or pesticides.

5.2.3 Potential Human Health Exposure Scenarios

The primary purpose of the human health CSM is to identify potential receptor groups and to describe pathways by which those populations may be exposed to Site-related chemicals in the environment. Populations that may be exposed to contaminants at a Site and pathways by which these populations may come into contact with contaminants are identified. A complete pathway requires:

- A source and mechanism for release of constituents;
- A transport or retention medium;
- A potential environmental contact (exposure point) with the affected medium; and
- An exposure route at the exposure point.

The Property is currently vacant with a security fence to the west and south of the Site; however, the Site is accessible by railway workers, Ecology Site Inspectors, and trespassers. The future Property uses are uncertain but are assumed to remain industrial.

The Property contains drainage ditches that discharge to the adjacent wetlands. Given the close proximity to the Site, there is potential for the COPCs to migrate downgradient of the suspected source area and impact sediment and surface water via stormwater runoff. However, based on lack of stormwater runoff during most of the year and recent stormwater drainage channel sampling which indicated that measured contaminant concentrations were typically below PCULs, it does not appear that this pathway is of significant concern at the Site.

The CSM presented in this report is developed to ensure that all potentially significant pathways and receptors under current and reasonable future Site scenarios are evaluated. Based on the current Property use, the anticipated receptors may include construction workers, railway workers, and trespassers. However, future land use may change but would likely involve industrial activities. The following pathways are potentially complete for human exposure:

Construction Workers - There are currently no construction workers on the Property. However, construction activities will be performed as part of any remediation activities. Construction workers are likely to contact chemicals in soil. Construction workers could potentially be exposed to chemicals in environmental media on the Site by the following pathways:

- Direct skin contact with or incidental ingestion of chemically impacted soil or surface water during excavations or other subsurface soil work on the Site.
- Inhalation of wind-borne particulates on or migrating off Site from chemically impacted soil being handled or exposed on Site during excavations on the Site.

Railway Employees, Future Property Employees, and Trespassers - The Property and the surrounding area is currently closed. The entrance to the Property was previously gated and not readily accessible by vehicles; however, pedestrians could access the area. The gate was also removed at some point in the fall of 2023. The Property can still be accessed by trespassers who could be exposed to chemicals migrating to the water or from the subsurface soils by the following potential pathways:

- Direct skin contact with and/or incidental ingestion of chemically impacted soil, sediments, or surface water at the Site.
- Inhalation of wind-borne particulates from chemically impacted soil.
- Inhalation of future indoor air emanating from soil or surface water with volatile chemical impacts.

Terrestrial Wildlife - There is potential for terrestrial wildlife to access the Property and be exposed to chemicals in the shallow surface soils by the following potential pathways:

- Direct contact with and/or ingestion of contaminated soil, sediments, or surface water through portions of the body contacting the ground, bathing, or through incidental contact with fugitive dust emissions from impacted areas.
- Inhalation of wind-borne particulates from chemically impacted soil.

5.3 NATURE AND EXTENT OF CONTAMINATION

This section describes the apparent extent of contaminated media discovered at the Site and is illustrated in Figures 3, 4, and 5.

TPH exceeded the MTCA Ecological Indicator Soil Concentrations for Protection of Wildlife was generally observed in the upper 0.5 to 2.5 feet bgs around former fuel storage and production areas (Figure 5). TPH-D and TPH-O were not detected at or above laboratory reporting limits or Method C screening levels in samples collected below 5 feet bgs. Pentachlorophenol was detected above the MTCA Ecological Indicator Soil Concentrations for Protection of Wildlife in one sample (B-07-S1) at a depth of approximately 1 to 2.5 feet bgs. Lead was detected above the MTCA Ecological Indicator Soil Concentrations for Protection of Wildlife screening level in two samples (S-10 and S-15) collected at a depth of approximately 0.5 feet bgs, lead was detected at concentrations below the MTCA Ecological Indicator Soil Concentrations for Protection of Wildlife screening level in all other samples analyzed.

See Tables 2 through 4 for summaries of soil data, accumulated water data, and supplemental water data respectively.

5.4 TERRESTRIAL ECOLOGICAL EVALUATION

The terrestrial ecological evaluation (TEE) process is required at all MTCA sites where there has been a release or threatened release of a hazardous substance that may pose a threat to human health or the environment. The purpose of the TEE is to systematically organize and evaluate data, assumptions, and uncertainties to help understand and characterize potential risks to terrestrial biota that may be exposed to site-related constituents in a manner that supports decision-making.

For the purpose of this RI, the initial step of the TEE process to determine whether a site qualifies for a *TEE exclusion* was completed. If a site meets at least one of the four exclusionary criteria described in WAC 173-340-7491, then no further evaluation of ecological risk is necessary.

The four exclusionary criteria are:

1. *Exclusion 1: Contamination below the point of compliance*. This means all soil contamination shall be below the standard point of compliance of 15 feet bgs, or below the conditional point of compliance of 6 feet bgs. The conditional point of compliance may only be used in conjunction with institutional controls which would prevent excavation of deeper soils.
2. *Exclusion 2: Incomplete exposure pathway*. The primary pathway to soil for ecological receptors would be direct contact and ingestion. The pathway could be considered incomplete if there were barriers for plants or animals to contact soils (e.g., pavement, buildings, or protective cap).
3. *Exclusion 3: Type of contamination and proximity to ecological receptors*. For sites contaminated with hazardous substances other than those specified in WAC 173-340-7491, there must be less than 1.5 acres of contiguous undeveloped land on the site or within 500 feet of any area located on the site.
4. *Exclusion 4: Concentrations below background levels*. For certain naturally occurring contaminants, or for contaminated sites found in urban areas, there may be contamination that is not directly attributable to the site.

Evaluation of Exclusions:

1. Exclusion 1 does not apply to the Site. TPH and other constituents were detected between 0 and 15 feet bgs.
2. Exclusion 2 does not apply to the Site. While there are some former foundations, concrete slabs associated with the industrial operations at the Site, the physical barriers are discontinuous. Large areas of undeveloped lands are located at the Site.
3. Exclusion 3 does not apply to the Site. There is undeveloped land within 500 feet of the Site and the undeveloped land is greater than 1.5 acres.
4. Exclusion 4 does not apply to the Site. Some of the contaminants found in soils at the Site are not naturally occurring and are unlikely to be present from other sources.

The Site evaluated under this RI Report does not qualify for the exclusions under WAC 173 340. Once it has been established that none of the exclusionary criteria apply, either a simplified or Site-specific TEE is required. Chapter 173 340 7492 of the MTCA specifically refers to the process of determining the type of evaluation that is required (simplified or Site-specific) as “Applicability of a Simplified Terrestrial Ecological Evaluation”.

5.4.1 Applicability of a Simplified TEE

WAC 173-340-7492 lists out criteria that are to be used to determine whether a simplified TEE can be used. If any of the below criteria apply, then a Site-specific TEE is necessary. Those criteria are as follows:

1. *Natural area.* The Site is located on, or directly adjacent to, an area where management or land use plans will maintain or restore native or semi-native vegetation.
2. *Vulnerable species.* The Site is used by a threated or endangered species; a wildlife species classified by the Washington Department of Fish and Wildlife as a "priority species" or "species of concern" under Title 77 RCW; or a plant species classified by the Washington State Department of Natural Resources natural heritage program as "endangered," "threatened," or "sensitive" under Title 79 RCW. For plants, "used" means that a plant species grows at the Site or has been found growing at the Site. For animals, "used" means that individuals of a species have been observed to live, feed, or breed at the Site.
3. *Extensive habitat.* The Site is located on a Property that contains at least 10 acres of native vegetation within 500 feet of the Site, not including vegetation beyond the Property boundaries.
4. *Risk to significant wildlife populations.* The department determines that the Site may present a risk to significant wildlife populations.

A simplified TEE is not appropriate for the Site since the Site is vegetated and there is continued presence of wetlands adjacent to and encroaching on the Site. Trees and understory vegetation are likely comprised of plants native to Washington state. Given that the Site is in a natural area that provides extensive habitat, a Site-specific TEE is required.

5.4.2 Site-Specific TEE

The Site-specific TEE process is designed to assess ecological risk at any site and to provide the basis for a CUL protective of terrestrial ecological receptors at the site, including sites with protected status species. Under WAC 173-340-7493, a site-specific TEE shall include the following steps:

- Problem formulation;
- Selection of appropriate evaluation method(s);
- Conducting the evaluation; and
- Establishing ecologically protective soil concentration.

For the purpose of this RI, as part of the problem-formulation step, the contaminants of ecological concern (CEC) were determined by comparing soil analytical data for the Site that is representative of current conditions (i.e., all data for soil that is currently in place) to ecological screening levels (SLs) presented in Table 749-3 of the MTCA regulation. Table 5.1, included in the Ecology's Draft Terrestrial Ecological Evaluation guidance document (Ecology, 2017), provides SL values for plants, soil biota, and wildlife for a group of selected analytes. In accordance with WAC 173 340-7493, for constituents that do not have a value published in Table 749-3, values from the literature should be obtained. Therefore, screening levels for soil biota, plants, and wildlife were obtained from the EPA Region 4 ecological soil screening level table (EPA, 2018). The Region 4 values are based on EPA Ecological Soil Screening Levels (EcoSSLs) and Department of Energy Laboratories (Los Alamos National Laboratory and Oak Ridge

National Laboratory). MTCA specifically identifies the Oak Ridge National Laboratory values as values to be considered in the identification of screening levels.

Table F-1 (Appendix F) presents the analytical data for soil from 0 to 15 feet bgs and identifies individual concentrations that exceed the lowest screening level based on terrestrial wildlife protection. Although there is some uncertainty regarding future land use, it is anticipated that the Site will continue to be used for industrial purposes. Per WAC 173-340-7490 (3)(b), only terrestrial wildlife protection exposures need to be evaluated for commercial and industrial properties.

Table F-2 provides a summary of statistics for and comparison of maximum detected concentrations of constituents in soil 0 to 15 feet bgs to the screening levels. Table F-3 provides a summary of statistics for and comparison of maximum detected concentrations of constituents in soil 0 to 6 feet bgs to the screening levels. Constituents detected at maximum concentrations above the SLs were initially retained as potential CECs. The full soil data set is reported in Table 2 of the RI Report.

As indicated in Tables F-2 and F-3, potential CECs based on terrestrial wildlife protection include cPAHs, phthalates, benzoic acid, TPH, and three metals. Because phthalates and benzoic acid detections were relatively infrequent and at estimated low concentrations that may be associated with sample handling, they were not retained as CECs.

One of the objectives of this RI is to analyze Site data to support an evaluation of potential cleanup actions. The comparison of soil data to ecological screening concentrations indicates widespread impacts of multiple CECs through the Site. Petroleum and metal exceedances of TEE-based screening levels will likely drive the need and scope of soil remediation.

5.5 PROPOSED CLEANUP LEVELS

Proposed cleanup standards for COCs by media are shown on Table 5, below. MTCA Method C Industrial direct contact CULs are used since no other human health transport/exposure pathways were identified (e.g., leaching to groundwater). Lead was compared to the MTCA Method A industrial CUL since no Method C direct contact values are available. Because the Site does not qualify for a TEE exclusion and will likely be used for industrial uses in the future, MTCA Ecological Indicator Soil Concentrations for Protection of Terrestrial Animals (Table 749-3) are also used as proposed CULs.

Table 5 on the following page summarizes the proposed soil CULs utilized for screening the Site COCs.

Table 5. Proposed Cleanup Standards

Contaminant of Concern	Project Cleanup Levels[1]	MTCA Method C Direct Contact (Industrial)	Site-Specific Terrestrial Ecological Evaluation (Commercial/Industrial)
TPH[2]	6,000	70,000	6,000
Pentachlorophenol	4.5	330	4.5
Chromium, total	67	5,300,000[3]	67
Copper	217	140,000	217
Lead	118	1,000[4]	118

Notes:

1. *Cleanup levels are the minimum between the Method C Direct Contact and TEE values.*
2. *TPH value is sum of diesel range (TPH-D) and oil range (TPH-O).*
3. *Assumed to be trivalent (Cr 3+).*
4. *Based on Method A industrial values.*

5.5.1 Point of Compliance

Soil. The standard POC for soil contamination by direct contact beneath a site is 15 feet bgs, which is a reasonable estimate of the depth that could be accessed during construction activities (WAC 173-340-740[6][d]). The standard POC for soil compliance based on protection from vapors is from the ground surface to the uppermost groundwater saturated zone (WAC 173-340-740[6][c]).

6. Summary and Conclusions

Results of 2023 RI activities indicate the presence of TPH, SVOCs (pentachlorophenol), and metals (primarily chromium, copper, and lead) in soil at concentrations above screening levels primarily in near surface soils (approximately in the upper 0.5 to 2.5 feet bgs). Groundwater was not encountered during RI activities, thus the soil to groundwater pathway is incomplete.

Accumulated water was observed in two locations adjacent to Warehouse B was observed with a sheen and sampled for future characterization related to waste disposal. Product material of a thick, tar-like consistency was observed ponded in the soil adjacent to the distillation tower and also sampled to characterize for purposes of waste disposal.

Grab water samples from small Site drainage channels (and ponded water within the working area) collected in December 2024 did not indicate the presence of TPHs, SVOCs, or VOCs above screening levels. Total metals (copper and lead) were detected at concentrations greater than their respective screening levels in one sample (HA-W-4) collected from the drainage channels (the ponded water sample [HA-PW-1] also had elevated total lead concentrations). While collecting sample HA-W-04, surface water within the shallow drainage channel became highly turbid during the sample collection process, apparently due to disturbances caused by the movement of the sampling team while gaining access to the area. Furthermore, the downstream sample (HA-W-5) did not have detections of metals greater than their respective screening levels, indicating that the soil to surface water pathway is insignificant.

The data, multiple lines of evidence, and conclusions presented in this report are sufficient to complete a FS and select a draft cleanup action. The primary objective for the FS and draft cleanup action is to identify and evaluate the most relevant remedial alternative that reduces contaminant exposure to levels that are protective to human health and the environment posed by the COCs. This will be addressed in a future FS report.

References

1. API, 2012. Heavy Fuel Oils Category Analysis and Hazard Characterization. Prepared for the US Environmental Protection Agency by The American Petroleum Institute Petroleum HPV Testing Group.

2. Climate Impacts Group in association with University of Washington. Heavy Precipitation Projections for use in Stormwater Planning. Online web map. Accessed November 2023.

3. Environment and Ecology, Inc. (E&E), 2017. Final Trip Report, Treoil Industries Bio-refinery Assessment and Emergency Removal Site, Ferndale, Washington; TDD: 17-01-0012 & 17-03-0003. Prepared for United States Environmental Protection Agency (EPA). 9 November.

4. Haley & Aldrich, 2023. Remedial Investigation Work Plan - Treoil Industries Biorefinery. For Washington State Department of Ecology. August.

5. Lapen, Thomas J., 2000. On behalf of Washington Division of Geology and Earth Resources. Geologic Map of Bellingham 1:100,000 Quadrangle, Washington.

6. Rutledge Brandt, 2022. Puget Sound Region: Tree Species Vulnerability Assessment.

7. U.S. Environmental Protection Agency (EPA), 2004. EPA contract laboratory program, national functional guidelines for inorganics data review. EPA 540/R-94/013. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. October.

8. EPA, 2008. EPA contract laboratory program, national functional guidelines for organics data review. EPA 540/R-08/01. U.S. Environmental Protection Agency, Office of Emergency and Remedial Response. June.

9. EPA, 2018. March 2018 Update, Region 4 Ecological Risk Assessment Supplemental Guidance.

10. EPA EJScreen. Online web map. Accessed November 2023.

11. Washington State Department of Ecology (Ecology), 2001. Site Hazard Assessment: Treoil Industries, Facility Site I.D. 2919. 27 February.

12. Ecology, 2017. Terrestrial Ecological Evaluations under the Model Toxics Control Act. Publication no. 19-09-05. February 2017.

13. Washington State Department of Health Environmental Health Disparities (EHD) Map. Online web map. Accessed November 2023.

14. Weston Solutions, Inc., 2023. Removal Action Report, Treoil Industries Biorefinery, Removal Action, Ferndale, Whatcom County, Washington. Contract No. 68HE07S0D0005, Task Order Nos. 68HE0722F0129, 68HE0722F0130. Prepared for EPA. February.

15. Whatcom County Assessor & Treasurer. Online database. Accessed November 2023.

TABLES

TABLE 1 - DEVIATIONS TO SAMPLING PLAN
TREOIL BIOREFINERY
FERNDALE, WASHINGTON
0204476-001/001

Location ID	Rationale	Reasons for Deviations	Estimated Ground Surface Elevation (ft ASML)	Total Depth (ft bgs)	Sample Matrix	TPH -DRO	TPH-Gx	VPH, EPH	VOCs, SVOCs	Metals (As, Cd, Cu, Cr, Pb, Hg, Ni, K, Na, Zn)	PCBs
BG-01	To collect background data, upgradient from impacts to site.	BG-01 shifted to approximate proposed background location of BG-02. Second background sample eliminated since conditions appreared to be similar.	8	21	Soil	2	2	0	1	1	0
BG-02	To collect background data, upgradient from impacts to site.		8		Soil	7	7	7	7	7	
B-01/M-01	To investigate and delineate the vertical extents of potential hydrocarbon contamination in an area that was previously observed to have stained soils. During site reconnaissance rosin was observed in this area. Tank 50 was formerly located south of this area.	B-01 location consistent with proposed location. No monitoring well installed as no groundwater was encountered during subsurface investigations.	8	51	Soil	2	2	3	2	2	0
B-02	To investigate and delineate the vertical extents of potential hydrocarbon contamination in an area that was previously observed to have stained soils.	B-02 shifted approximately 15' southwest of proposed location, due to obstructions of vegetation (cottonwood trees and dense blackberries).	8	30	Soil	1	1	1	1	1	
B-03/M-02	To investigate and delineate the vertical extents of potential hydrocarbon contamination downgradient of an area previously observed to have stained soils. The former laboratory trailers are also upgradient of this location.	B-03 location consistent with proposed location. No monitoring well installed as no groundwater was encountered during subsurface investigations.	8	50	Soil/GW	1	1	1	1	1	
B-04	To investigate and delineate the vertical extents of potential hydrocarbon contamination in an area that was previously observed to have stained soils.	B-04 location consistent with proposed location.	8	31	Soil	2	2	2	1	1	0
B-05	To investigate and delineate the vertical extents of the potential hydrocarbon contamination in an area previously observed to have stained soils. This area is adjacent to the distillation tower and during site reconnaissance there was product at the surface.	B-05 location consistent with proposed location.	8	30	Soil	3	3	3	3	3	
B-06/M-03	To investigate and delineate the vertical extents of the potential hydrocarbon contamination in an area previously observed to have stained soils. This area is downgradient from the former Tanks 1 through 3 locations.	B-06 location shifted approximately 15' south of B-05 location due to accumulated downed woody debris and ease of access for drilling equipment. No monitoring well installed as no groundwater was encountered during subsurface investigations.	8	31	Soil/GW	2	2	3	2	2	

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Location ID	Rationale	Reasons for Deviations	Estimated Ground Surface Elevation (ft ASML)	Total Depth (ft bgs)	Sample Matrix	TPH -DRO	TPH-Gx	VPH, EPH	VOCs, SVOCs	Metals (As, Cd, Cu, Cr, Pb, Hg, Ni, K, Na, Zn)	PCBs
B-07/M-04	To investigate and delineate the vertical extents of potential hydrocarbon contamination in soils beneath former secondary containment that was suspected to be leaking.	B-07 location consistent with proposed location. No monitoring well installed as no groundwater was encountered during subsurface investigations.	8	31	Soil/GW	2	2	2	2	2	
B-08	To investigate and delineate the vertical extents of potential hydrocarbon contamination in an area that was previously observed to have stained soils.	B-08 location consistent with proposed location.	8	30	Soil	2	2	1	1	1	
B-09	To investigate and delineate the vertical extents of potential hydrocarbon contamination downgradient from a former secondary containment.	B-08 location consistent with proposed location.	8	51	Soil	2	2	1	1	1	
B-10/M-05	To investigate and delineate the vertical extents of potential hydrocarbon contamination downgradient from Warehouse B.	B-10 location consistent with proposed location. No monitoring well installed as no groundwater was encountered during subsurface investigations.	8	31	Soil/GW	2	2	2	2	2	
B-11/M-06	To investigate and delineate the vertical extents of potential hydrocarbon contamination downgradient from Warehouse A. This area is also further downgradient from two of the former secondary containments.	B-11 location consistent with proposed location. No monitoring well installed as no groundwater was encountered during subsurface investigations.	8	28	Soil/GW	2	2	1	1	1	
B-12/M-07	To investigate and delineate the vertical extents of potential hydrocarbon contamination downgradient from Warehouse A.	B-12 location consistent with proposed location. No monitoring well installed as no groundwater was encountered during subsurface investigations.	8	30	Soil/GW	2	2	1	1	1	
S-01	To investigate and delineate potential hydrocarbon contamination in an area that was previously observed to have stained soils. Tank T-50 was formerly in this location.	S-01 location consistent with proposed location.	8	0.5	Soil	1	1	0	1	1	
S-02	To investigate and delineate potential hydrocarbon contamination in an area that was previously observed to have stained soils. Tank T-50 was formerly in this location.	S-02 location consistent with proposed location.	8	0.5	Soil	1	1	0	1	1	
S-03	To investigate and delineate potential hydrocarbon contamination in the former locations of Tanks 9 through 15.	S-03 location moved approximately 20' north of proposed location to avoid an improved gravel access road installed during 2022 EPA Emergency Removal activities.	8	0.5	Soil	1	1	0	1	1	
S-04	To support the terrestrial ecological evaluation (TEE).	S-04 location moved roughly 150 feet to the northeast due to dense vegetation obstructions, and to be west of BG-01 to support TEE.	8	0.5	Soil	1	1	0	1	1	

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Location ID	Rationale	Reasons for Deviations	Estimated Ground Surface Elevation (ft ASML)	Total Depth (ft bgs)	Sample Matrix	TPH -DRO	TPH-Gx	VPH, EPH	VOCs, SVOCs	Metals (As, Cd, Cu, Cr, Pb, Hg, Ni, K, Na, Zn)	PCBs
S-05	To investigate and delineate potential hydrocarbon contamination in the former Tank 6 location.	Proposed S-05 location was on top of a concrete pad, S-05 moved 20 feet southwest of concrete pad.	8	0.5	Soil	1	1	0	1	1	
S-06	To investigate and delineate potential heavy metals contamination in the former sand blasting area.	S-06 location consistent with proposed location.	8	0.5	Soil	1	1	0	1	1	
S-07	To investigate and delineate potential hydrocarbon contamination in an area that was previously observed to have stained soils.	S-07 location consistent with proposed location.	8	0.5	Soil	1	1	0	1	1	
S-08	To investigate and delineate potential hydrocarbon contamination in an area that was adjacent to the central processing facilities.	S-08 location consistent with proposed location.	8	0.5	Soil	1	1	0	1	1	
S-09	To investigate and delineate potential hydrocarbon contamination in the drainage sump adjacent to a former secondary containment.	S-09 sample eliminated as drainage sump was removed during 2022 EPA Emergency Removal activities.	8	0.5	Soil	1	1	0	1	1	
S-10	To investigate and delineate potential hydrocarbon contaminaiton in an area where equipment and debris was stored at one point.	S-10 location consistent with proposed location.	8	0.5	Soil	1	1	0	1	1	
S-11 SW-11	To investigate and delineate potential hydrocarbon contamination in the drainage sump. Drainage sump connects to previously identified ephemeral drainage that is suspected to convey contaminants off the site.	No soil/sediment material was accumulated in the drainage sump, however water was present. Water was collected and the sample ID was adjusted to "SW-11"	8	0.5	Water	1	1	0	1	Dissolved metals - 1 Total metals - 1	1
S-12 SW-12	To investigate and delineate potential hydrocarbon contamination in the drainage sump. Drainage sump connects to previously identified ephemeral drainage that is suspected to convey contaminants off the site.	No soil/sediment material was accumulated in the drainage sump, however water was present. Water was collected and the sample ID was adjusted to "SW-12"	8	0.5	Water	1	1	0	1	Dissolved metals - 1 Total metals - 1	1
S-13	To investigate and delineate potential hydrocarbon contamination in the drainage sump. Drainage sump connects to previously identified ephemeral drainage that is suspected to convey contaminants off the site.	Drainage sump was inaccessible due to obstructions including debris/materials/equipment left on site, the fenceline and dense vegetation from the west. Therefore, S-13 was moved ~30 feet west from proposed location.	8	0.5	Soil	1	1	0	1	1	
S-14	To investigate and delineate potential hydrocarbon contamination in an area that was previously observed to have stained soils.	S-14 location consistent with proposed location.	8	0.5	Soil	1	1	0	1	1	

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Location ID	Rationale	Reasons for Deviations	Estimated Ground Surface Elevation (ft ASML)	Total Depth (ft bgs)	Sample Matrix	TPH -DRO	TPH-Gx	VPH, EPH	VOCs, SVOCs	Metals (As, Cd, Cu, Cr, Pb, Hg, Ni, K, Na, Zn)	PCBs
S-15	To investigate and delineate potential hydrocarbon contamination in an area that was previously observed to have stained soils.	S-15 location consistent with proposed location.	8	0.5	Soil	1	1	0	1	1	
S-16	To investigate and delineate potential hydrocarbon contamination in an area that was previously observed to have stained soils.	S-16 location consistent with proposed location.	8	0.5	Soil	1	1	0	1	1	
S-17	To investigate and delineate potential hydrocarbon and PCB contamination adjacent to a decrepit electrical transformer.	S-17 location consistent with proposed location.	8	0.5	Soil	1	1	0	1	1	1
S-18	To investigate and delineate potential hydrocarbon contamination adjacent to an area with stained soils and adjacent to where equipment was stored at one point.	S-18 location consistent with proposed location.	8	0.5	Soil	1	1	0	1	1	
S-19	To investigate and delineate potential hydrocarbon contamination at the further downstream of a previously identified drainage swale. Sample would be further downstream from S-22. Drainage is suspected to convey contaminants off the site.	S-19 location consistent with proposed location.	8	0.5	Soil	1	1	0	1	1	
S-20	To investigate and delineate potential hydrocarbon contamination in the drainage sump. Drainage sump connects to previously identified ephemeral drainage that is suspected to convey contaminants off the site.	S-20 location consistent with proposed location.	8	0.5	Soil	1	1	0	1	1	
S-21	To investigate and delineate potential hydrocarbon contamination within the delineated wetland west and downgradient from the site.	S-21 shifted ~40 feet to the north due to blackberry and other dense vegatation. Sample location generally consistent with proposed location.	8	0.5	Soil	1	1	0	1	1	
S-22	To investigate and delineate potential hydrocarbon contamination at the start of a previously identified drainage swale. Drainage is suspected to convey contaminants off the site.	Drainage swale was inaccessible due to dense vegetation. S-22 was moved ~60 feet northwest from proposed location.	8	0.5	Soil	1	1	0	1	1	
S-23	To investigate and determine if any potential hydrocarbon, metals, or caustic contamination remains in the trench in Warehouse A.	S-23 location consistent with proposed location.	8	0.5	Soil	1	1	0	1	1	1
S-24	To investigate and delineate potential hydrocarbon contaminaiton in an area where equipment and debris was stored at one point.	S-24 location consistent with proposed location.	8	0.5	Soil	1	1	0	1	1	

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Location ID	Rationale	Reasons for Deviations	Estimated Ground Surface Elevation (ft ASML)	Total Depth (ft bgs)	Sample Matrix	TPH -DRO	TPH-Gx	VPH, EPH	VOCs, SVOCs	Metals (As, Cd, Cu, Cr, Pb, Hg, Ni, K, Na, Zn)	PCBs
PP-01	To characterize product material found dripping from pipe in distillation tower.	No material was dripping from piping during mobilization, however, an accumulated puddle was sampled instead.	8	0	Product	1	1	0	1	1	1
TP-1	To investigate and delineate potential hydrocarbon contaminaiton in an area where equipment and debris was stored at one point.	TP-1 location consistent with proposed location.	8	0.5	Soil	N/A: no samples collected - just visual screening and observation					
TP-2	To investigate and delineate potential hydrocarbon contaminaiton in an area where equipment and debris was stored at one point.	TP-2 location consistent with proposed location.	8	0.5	Soil	N/A: no samples collected - just visual screening and observation					
TP-3	To investigate and delineate potential hydrocarbon contaminaiton in an area where equipment and debris was stored at one point.	TP-3 location consistent with proposed location.	8	0.5	Soil	N/A: no samples collected - just visual screening and observation					

TABLE 2
SUMMARY OF SOIL QUALITY DATA
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name	Action Level				B-01	B-01	B-01	B-02	B-03	B-03	B-04	B-04	B-05	B-05	B-05	B-05	B-06	B-06	B-06	B-07
Sample Name					B-01-S1	B-01-S2	B-01-S7	B-02-S2	B-03-S1	B-03-S2	B-04-S1	B-04-S2	B-05-S1	FD01	B-05-S2	B-05-S3	B-06-S1	B-06-S2	B-06-S4	B-07-S1
Sample Date					08/08/2023	08/08/2023	08/08/2023	08/07/2023	08/07/2023	08/07/2023	08/09/2023	08/09/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/09/2023
Lab Sample ID					23H0691-03			23H0691-01	23H0691-02		23H0705-01		23H0704-02	23H0704-03			23H0704-01			23H0706-02
Sample Depth (bgs)	MTCA Method C Direct Contact Cancerous	MTCA Method C Direct Contact Non-Cancerous	MTCA Ecological Indicator Soil Concentrations for Protection of Wildlife	Puget Sound Natural Background Concentrations for Metals	580-130495-13 2.5 - 5 (ft)	580-130495-14 7.5 - 10 (ft)	580-130493-2 50 - 51 (ft)	580-130495-2 7.5 - 10 (ft)	580-130495-7 2.5 - 5 (ft)	580-130495-8 7.5 - 10 (ft)	580-130515-1 2.5 - 5 (ft)	580-130515-2 7.5 - 10 (ft)	580-130493-10 1 - 2.5 (ft)	580-130493-17 1 - 2.5 (ft)	580-130493-11 6 - 8 (ft)	580-130493-12 12 - 14 (ft)	580-130493-3 2.5 - 5 (ft)	580-130493-4 7.5 - 10 (ft)	580-130493-6 17 - 19 (ft)	580-130524-8 1 - 2.5 (ft)
Volatile Organic Compounds (mg/kg)																				
1,1,1,2-Tetrachloroethane	5000	110000	NA	NA	0.021 UJ	-	0.016 UJ	0.02 UJ	0.019 UJ	-	0.019 UJ	-	0.027 UJ	0.023 UJ	0.021 UJ	0.02 UJ	0.021 UJ	-	0.02 UJ	0.3 UJ
1,1,1-Trichloroethane	NA	7.00E+06	NA	NA	0.041 UJ	-	0.031 UJ	0.04 UJ	0.038 UJ	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
1,1,2,2-Tetrachloroethane	660	70000	NA	NA	0.021 UJ	-	0.016 UJ	0.02 UJ	0.019 UJ	-	0.019 UJ	-	0.027 UJ	0.023 UJ	0.021 UJ	0.02 UJ	0.021 UJ	-	0.02 UJ	0.3 UJ
1,1,2-Trichloroethane	2300	14000	NA	NA	0.021 UJ	-	0.016 UJ	0.02 UJ	0.019 UJ	-	0.019 UJ	-	0.027 UJ	0.023 UJ	0.021 UJ	0.02 UJ	0.021 UJ	-	0.02 UJ	0.3 UJ
1,1-Dichloroethane	23000	700000	NA	NA	0.041 UJ	-	0.031 UJ	0.04 UJ	0.038 UJ	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
1,1-Dichloroethene	NA	180000	NA	NA	0.041 UJ	-	0.031 UJ	0.04 UJ	0.038 UJ	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
1,1-Dichloropropene	NA	NA	NA	NA	0.041 UJ	-	0.031 UJ	0.04 UJ	0.038 UJ	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
1,2,3-Trichlorobenzene	NA	2800	NA	NA	**0.046 J**	-	0.063 UJ	**0.088 J**	**0.078 J**	-	0.076 UJ	-	0.11 UJ	0.092 UJ	0.084 UJ	0.082 UJ	0.086 UJ	-	0.081 UJ	1.2 UJ
1,2,3-Trichloropropane	4.4	14000	NA	NA	0.041 UJ	-	0.031 UJ	0.04 UJ	0.038 UJ	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
1,2,4-Trichlorobenzene	4500	35000	NA	NA	0.083 UJ	-	0.063 UJ	**0.051 J**	0.076 UJ	-	0.076 UJ	-	0.11 UJ	0.092 UJ	0.084 UJ	0.082 UJ	0.086 UJ	-	0.081 UJ	1.2 UJ
1,2,4-Trimethylbenzene	NA	35000	NA	NA	0.041 UJ	-	0.031 UJ	0.04 UJ	0.038 UJ	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
1,2-Dibromo-3-chloropropane (DBCP)	160	700	NA	NA	0.062 UJ	-	0.047 UJ	0.059 UJ	0.057 UJ	-	0.057 UJ	-	0.082 UJ	0.069 UJ	0.063 UJ	0.061 UJ	0.064 UJ	-	0.061 UJ	0.91 UJ
1,2-Dibromoethane (Ethylene Dibromide)	66	32000	NA	NA	0.021 UJ	-	0.016 UJ	0.02 UJ	0.019 UJ	-	0.019 UJ	-	0.027 UJ	0.023 UJ	0.021 UJ	0.02 UJ	0.021 UJ	-	0.02 UJ	0.3 UJ
1,2-Dichlorobenzene	NA	320000	NA	NA	0.041 UJ	-	0.031 UJ	0.04 UJ	0.038 UJ	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
1,2-Dichloroethane	1400	21000	NA	NA	0.021 UJ	-	0.016 UJ	0.02 UJ	0.019 UJ	-	0.019 UJ	-	0.027 UJ	0.023 UJ	0.021 UJ	0.02 UJ	0.021 UJ	-	0.02 UJ	0.3 UJ
1,2-Dichloropropane	3500	140000	NA	NA	0.021 UJ	-	0.016 UJ	0.02 UJ	0.019 UJ	-	0.019 UJ	-	0.027 UJ	0.023 UJ	0.021 UJ	0.02 UJ	0.021 UJ	-	0.02 UJ	0.3 UJ
1,3,5-Trimethylbenzene	NA	35000	NA	NA	0.041 UJ	-	0.031 UJ	0.04 UJ	0.038 UJ	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
1,3-Dichlorobenzene	NA	NA	NA	NA	0.062 UJ	-	0.047 UJ	0.059 UJ	0.057 UJ	-	0.057 UJ	-	0.082 UJ	0.069 UJ	0.063 UJ	0.061 UJ	0.064 UJ	-	0.061 UJ	0.91 UJ
1,3-Dichloropropane	NA	70000	NA	NA	0.062 UJ	-	0.047 UJ	0.059 UJ	0.057 UJ	-	0.057 UJ	-	0.082 UJ	0.069 UJ	0.063 UJ	0.061 UJ	0.064 UJ	-	0.061 UJ	0.91 UJ
1,4-Dichlorobenzene	24000	250000	NA	NA	0.062 UJ	-	0.047 UJ	0.059 UJ	0.057 UJ	-	0.057 UJ	-	0.082 UJ	0.069 UJ	0.063 UJ	0.061 UJ	0.064 UJ	-	0.061 UJ	0.91 UJ
2,2-Dichloropropane	NA	NA	NA	NA	0.041 UJ	-	0.031 UJ	0.04 UJ	0.038 UJ	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
2-Chlorotoluene	NA	70000	NA	NA	0.041 UJ	-	0.031 UJ	0.04 UJ	0.038 UJ	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
2-Phenylbutane (sec-Butylbenzene)	NA	350000	NA	NA	0.041 UJ	-	0.031 UJ	**0.01 J**	**0.0089 J**	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
4-Chlorotoluene	NA	70000	NA	NA	0.041 UJ	-	0.031 UJ	0.04 UJ	0.038 UJ	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
Benzene	2400	14000	NA	NA	0.021 UJ	-	0.016 UJ	0.02 UJ	0.019 UJ	-	0.019 UJ	-	0.027 UJ	0.023 UJ	0.021 UJ	0.02 UJ	0.021 UJ	-	0.02 UJ	**0.094 J**
Bromobenzene	NA	28000	NA	NA	0.041 UJ	-	0.031 UJ	0.04 UJ	0.038 UJ	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
Bromodichloromethane	2100	70000	NA	NA	0.041 UJ	-	0.031 UJ	0.04 UJ	0.038 UJ	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
Bromoform	17000	70000	NA	NA	0.041 UJ	-	0.031 UJ	0.04 UJ	0.038 UJ	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
Bromomethane (Methyl Bromide)	NA	4900	NA	NA	0.1 UJ	-	0.078 UJ	0.099 UJ	0.095 UJ	-	0.095 UJ	-	0.14 UJ	0.12 UJ	0.1 UJ	0.1 UJ	0.11 UJ	-	0.1 UJ	1.5 UJ
Carbon tetrachloride	1900	14000	NA	NA	0.021 UJ	-	0.016 UJ	0.02 UJ	0.019 UJ	-	0.019 UJ	-	0.027 UJ	0.023 UJ	0.021 UJ	0.02 UJ	0.021 UJ	-	0.02 UJ	0.3 UJ
Chlorobenzene	NA	70000	NA	NA	0.041 UJ	-	0.031 UJ	0.04 UJ	0.038 UJ	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
Chlorobromomethane	NA	NA	NA	NA	0.041 UJ	-	0.031 UJ	0.04 UJ	0.038 UJ	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
Chloroethane	NA	NA	NA	NA	0.083 UJ	-	0.063 UJ	0.079 UJ	0.076 UJ	-	0.076 UJ	-	0.11 UJ	0.092 UJ	0.084 UJ	0.082 UJ	0.086 UJ	-	0.081 UJ	1.2 UJ
Chloroform (Trichloromethane)	4200	35000	NA	NA	0.021 UJ	-	0.016 UJ	0.02 UJ	0.019 UJ	-	0.019 UJ	-	0.027 UJ	0.023 UJ	0.021 UJ	0.02 UJ	0.021 UJ	-	0.02 UJ	0.3 UJ
Chloromethane (Methyl Chloride)	NA	NA	NA	NA	0.062 UJ	-	0.047 UJ	0.059 UJ	0.057 UJ	-	0.057 UJ	-	0.082 UJ	0.069 UJ	0.063 UJ	0.061 UJ	0.064 UJ	-	0.061 UJ	0.91 UJ
cis-1,2-Dichloroethene	NA	7000	NA	NA	0.062 UJ	-	0.047 UJ	0.059 UJ	0.057 UJ	-	0.057 UJ	-	0.082 UJ	0.069 UJ	0.063 UJ	0.061 UJ	0.064 UJ	-	0.061 UJ	0.91 UJ
cis-1,3-Dichloropropene	NA	NA	NA	NA	0.021 UJ	-	0.016 UJ	0.02 UJ	0.019 UJ	-	0.019 UJ	-	0.027 UJ	0.023 UJ	0.021 UJ	0.02 UJ	0.021 UJ	-	0.02 UJ	0.3 UJ
Cymene (p-Isopropyltoluene)	NA	NA	NA	NA	0.041 UJ	-	0.031 UJ	**0.012 J**	**0.011 J**	-	0.038 UJ	-	**0.033 J**	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	**1.4 J**
Dibromochloromethane	1600	70000	NA	NA	0.021 UJ	-	0.016 UJ	0.02 UJ	0.019 UJ	-	0.019 UJ	-	0.027 UJ	0.023 UJ	0.021 UJ	0.02 UJ	0.021 UJ	-	0.02 UJ	0.3 UJ
Dibromomethane	NA	35000	NA	NA	0.041 UJ	-	0.031 UJ	0.04 UJ	0.038 UJ	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
Dichlorodifluoromethane (CFC-12)	NA	700000	NA	NA	0.26 UJ	-	0.2 UJ	0.25 UJ	0.24 UJ	-	0.24 UJ	-	0.34 UJ	0.29 UJ	0.26 UJ	0.25 UJ	0.27 UJ	-	0.25 UJ	3.8 UJ
Ethylbenzene	NA	350000	NA	NA	0.041 UJ	-	0.031 UJ	0.04 UJ	0.038 UJ	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
Hexachlorobutadiene	1700	3500	NA	NA	0.1 UJ	-	0.078 UJ	0.099 UJ	0.095 UJ	-	0.095 UJ	-	0.14 UJ	0.12 UJ	0.1 UJ	0.1 UJ	0.11 UJ	-	0.1 UJ	1.5 UJ
Isopropylbenzene (Cumene)	NA	350000	NA	NA	0.041 UJ	-	0.031 UJ	0.04 UJ	0.038 UJ	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
m,p-Xylenes	NA	NA	NA	NA	0.041 UJ	-	0.031 UJ	0.04 UJ	0.038 UJ	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
Methyl Tert Butyl Ether (MTBE)	73000	NA	NA	NA	0.041 UJ	-	0.031 UJ	0.04 UJ	0.038 UJ	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
Methylene chloride (Dichloromethane)	66000	21000	NA	NA	0.26 UJ	-	0.2 UJ	0.25 UJ	0.24 UJ	-	0.24 UJ	-	0.34 UJ	0.29 UJ	0.26 UJ	0.25 UJ	0.27 UJ	-	0.25 UJ	3.8 UJ
Naphthalene	NA	70000	NA	NA	0.16 UJ	-	0.12 UJ	0.15 UJ	0.14 UJ	-	0.14 UJ	-	0.21 UJ	0.17 UJ	0.16 UJ	0.15 UJ	0.16 UJ	-	0.15 UJ	2.3 UJ
n-Butylbenzene	NA	180000	NA	NA	0.041 UJ	-	0.031 UJ	**0.03 J**	**0.02 J**	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
n-Propylbenzene	NA	350000	NA	NA	0.041 UJ	-	0.031 UJ	0.04 UJ	0.038 UJ	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
o-Xylene	NA	700000	NA	NA	0.041 UJ	-	0.031 UJ	0.04 UJ	0.038 UJ	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
Styrene	NA	700000	NA	NA	0.041 UJ	-	0.031 UJ	0.04 UJ	0.038 UJ	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
tert-Butylbenzene	NA	350000	NA	NA	0.041 UJ	-	0.031 UJ	0.04 UJ	0.038 UJ	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
Tetrachloroethene	63000	21000	NA	NA	0.041 UJ	-	0.031 UJ	0.04 UJ	0.038 UJ	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
Toluene	NA	280000	NA	NA	0.062 UJ	-	0.047 UJ	0.059 UJ	0.057 UJ	-	0.057 UJ	-	**0.15 J**	0.069 UJ	**0.036 J**	0.061 UJ	0.064 UJ	-	0.061 UJ	0.91 UJ
trans-1,2-Dichloroethene	NA	70000	NA	NA	0.062 UJ	-	0.047 UJ	0.059 UJ	0.057 UJ	-	0.057 UJ	-	0.082 UJ	0.069 UJ	0.063 UJ	0.061 UJ	0.064 UJ	-	0.061 UJ	0.91 UJ
trans-1,3-Dichloropropene	NA	NA	NA	NA	0.041 UJ	-	0.031 UJ	0.04 UJ	0.038 UJ	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
Trichloroethene	2900	1800	NA	NA	0.041 UJ	-	0.031 UJ	0.04 UJ	0.038 UJ	-	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ	0.041 UJ	0.043 UJ	-	0.04 UJ	0.61 UJ
Trichlorofluoromethane (CFC-11)	NA	1.10E+06	NA	NA	0.083 UJ	-	0.063 UJ	0.079 UJ	0.076 UJ	-	0.076 UJ	-	0.11 UJ	0.092 UJ	0.084 UJ	0.082 UJ	0.086 UJ	-	0.081 UJ	1.2 UJ
Vinyl chloride	88	11000	NA	NA	0.1 UJ	-	0.078 UJ	0.099 UJ	0.095 UJ	-	0.095 UJ	-	0.14 UJ	0.12 UJ	0.1 UJ	0.1 UJ	0.11 UJ	-	0.1 UJ	1.5 UJ

TABLE 2
SUMMARY OF SOIL QUALITY DATA
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name	Action Level				B-01	B-01	B-01	B-02	B-03	B-03	B-04	B-04	B-05	B-05	B-05	B-05	B-06	B-06	B-06	B-07
Sample Name					B-01-S1	B-01-S2	B-01-S7	B-02-S2	B-03-S1	B-03-S2	B-04-S1	B-04-S2	B-05-S1	FD01	B-05-S2	B-05-S3	B-06-S1	B-06-S2	B-06-S4	B-07-S1
Sample Date					08/08/2023	08/08/2023	08/08/2023	08/07/2023	08/07/2023	08/07/2023	08/09/2023	08/09/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/09/2023
					23H0691-03			23H0691-01	23H0691-02		23H0705-01		23H0704-02	23H0704-03			23H0704-01			23H0706-02
Lab Sample ID	MTCA Method C	MTCA Method C	MTCA Ecological	Puget Sound Natural	580-130495-13	580-130495-14	580-130493-2	580-130495-2	580-130495-7	580-130495-8	580-130515-1	580-130515-2	580-130493-10	580-130493-17	580-130493-11	580-130493-12	580-130493-3	580-130493-4	580-130493-6	580-130524-8
Sample Depth (bgs)	Direct Contact Cancerous	Direct Contact Non-Cancerous	Indicator Soil Concentrations for Protection of Wildlife	Background Concentrations for Metals	2.5 - 5 (ft)	7.5 - 10 (ft)	50 - 51 (ft)	7.5 - 10 (ft)	2.5 - 5 (ft)	7.5 - 10 (ft)	2.5 - 5 (ft)	7.5 - 10 (ft)	1 - 2.5 (ft)	1 - 2.5 (ft)	6 - 8 (ft)	12 - 14 (ft)	2.5 - 5 (ft)	7.5 - 10 (ft)	17 - 19 (ft)	1 - 2.5 (ft)
Semi-Volatile Organic Compounds (mg/kg)																				
1,2,4-Trichlorobenzene	4500	35000	NA	NA	0.058 UJ	-	0.056 UJ	0.056 UJ	0.058 UJ	-	0.057 UJ	-	0.064 UJ	0.059 UJ	0.058 UJ	0.056 UJ	0.059 UJ	-	0.059 UJ	1 U
1,2-Dichlorobenzene	NA	320000	NA	NA	0.058 UJ	-	0.056 UJ	0.056 UJ	0.058 UJ	-	0.057 UJ	-	0.064 UJ	0.059 UJ	0.058 UJ	0.056 UJ	0.059 UJ	-	0.059 UJ	1 U
1,3-Dichlorobenzene	NA	NA	NA	NA	0.058 UJ	-	0.056 UJ	0.056 UJ	0.058 UJ	-	0.057 UJ	-	0.064 UJ	0.059 UJ	0.058 UJ	0.056 UJ	0.059 UJ	-	0.059 UJ	1 U
1,4-Dichlorobenzene	24000	250000	NA	NA	0.058 UJ	-	0.056 UJ	0.056 UJ	0.058 UJ	-	0.057 UJ	-	0.064 UJ	0.059 UJ	0.058 UJ	0.056 UJ	0.059 UJ	-	0.059 UJ	1 U
1-Methylnaphthalene	4500	250000	NA	NA	0.035 UJ	-	0.033 UJ	0.033 UJ	0.035 UJ	-	0.034 UJ	-	0.038 UJ	0.035 UJ	0.035 UJ	0.034 UJ	0.035 UJ	-	0.036 UJ	0.61 U
2,2'-oxybis(1-Chloropropane)	1900	140000	NA	NA	0.23 UJ	-	0.22 UJ	0.22 UJ	0.23 UJ	-	0.23 UJ	-	0.25 UJ	0.24 UJ	0.23 UJ	0.23 UJ	0.23 UJ	-	0.24 UJ	4 U
2,4,5-Trichlorophenol	NA	350000	NA	NA	0.23 UJ	-	0.22 UJ	0.22 UJ	0.23 UJ	-	0.23 UJ	-	0.25 UJ	0.24 UJ	0.23 UJ	0.23 UJ	0.23 UJ	-	0.24 UJ	4 U
2,4,6-Trichlorophenol	12000	3500	NA	NA	0.17 UJ	-	0.17 UJ	0.17 UJ	0.17 UJ	-	0.17 UJ	-	0.19 UJ	0.18 UJ	0.18 UJ	0.17 UJ	0.18 UJ	-	0.18 UJ	3 U
2,4-Dichlorophenol	NA	11000	NA	NA	0.23 UJ	-	0.22 UJ	0.22 UJ	0.23 UJ	-	0.23 UJ	-	0.25 UJ	0.24 UJ	0.23 UJ	0.23 UJ	0.23 UJ	-	0.24 UJ	4 U
2,4-Dimethylphenol	NA	70000	NA	NA	0.23 UJ	-	0.22 UJ	0.22 UJ	0.23 UJ	-	0.23 UJ	-	0.25 UJ	0.24 UJ	0.23 UJ	0.23 UJ	0.23 UJ	-	0.24 UJ	4 U
2,4-Dinitrophenol	NA	7000	NA	NA	2.3 UJ	-	2.2 UJ	2.2 UJ	2.3 UJ	-	2.3 UJ	-	2.5 UJ	2.4 UJ	2.3 UJ	2.3 UJ	2.3 UJ	-	2.4 UJ	40 U
2,4-Dinitrotoluene	420	7000	NA	NA	0.23 UJ	-	0.22 UJ	0.22 UJ	0.23 UJ	-	0.23 UJ	-	0.25 UJ	0.24 UJ	0.23 UJ	0.23 UJ	0.23 UJ	-	0.24 UJ	4 U
2,6-Dinitrotoluene	88	1100	NA	NA	0.17 UJ	-	0.17 UJ	0.17 UJ	0.17 UJ	-	0.17 UJ	-	0.19 UJ	0.18 UJ	0.18 UJ	0.17 UJ	0.18 UJ	-	0.18 UJ	3 U
2-Chloronaphthalene	NA	280000	NA	NA	0.029 UJ	-	0.028 UJ	0.028 UJ	0.029 UJ	-	0.028 UJ	-	0.032 UJ	0.029 UJ	0.029 UJ	0.028 UJ	0.029 UJ	-	0.03 UJ	0.5 U
2-Chlorophenol	NA	18000	NA	NA	0.23 UJ	-	0.22 UJ	0.22 UJ	0.23 UJ	-	0.23 UJ	-	0.25 UJ	0.24 UJ	0.23 UJ	0.23 UJ	0.23 UJ	-	0.24 UJ	4 U
2-Methylnaphthalene	NA	14000	NA	NA	0.058 UJ	-	0.056 UJ	0.056 UJ	0.058 UJ	-	0.057 UJ	-	0.064 UJ	0.059 UJ	0.058 UJ	0.056 UJ	0.059 UJ	-	0.059 UJ	1 U
2-Methylphenol (o-Cresol)	NA	180000	NA	NA	0.17 UJ	-	0.17 UJ	0.17 UJ	0.17 UJ	-	0.17 UJ	-	0.19 UJ	0.18 UJ	0.18 UJ	0.17 UJ	0.18 UJ	-	0.18 UJ	3 U
2-Nitroaniline	NA	35000	NA	NA	0.12 UJ	-	0.11 UJ	0.11 UJ	0.12 UJ	-	0.11 UJ	-	0.13 UJ	0.12 UJ	0.12 UJ	0.11 UJ	0.12 UJ	-	0.12 UJ	2 U
2-Nitrophenol	NA	NA	NA	NA	0.23 UJ	-	0.22 UJ	0.22 UJ	0.23 UJ	-	0.23 UJ	-	0.25 UJ	0.24 UJ	0.23 UJ	0.23 UJ	0.23 UJ	-	0.24 UJ	4 U
3&4-Methylphenol	NA	NA	NA	NA	0.23 UJ	-	0.22 UJ	0.22 UJ	0.23 UJ	-	0.23 UJ	-	**0.092 J-**	0.24 UJ	**0.045 J-**	0.23 UJ	0.23 UJ	-	0.24 UJ	**1**
3,3'-Dichlorobenzidine	290	NA	NA	NA	0.46 UJ	-	0.45 UJ	0.45 UJ	0.47 UJ	-	0.46 UJ	-	0.51 UJ	0.47 UJ	0.47 UJ	0.45 UJ	0.47 UJ	-	0.48 UJ	8.1 U
3-Nitroaniline	NA	NA	NA	NA	0.35 UJ	-	0.33 UJ	0.33 UJ	0.35 UJ	-	0.34 UJ	-	0.38 UJ	0.35 UJ	0.35 UJ	0.34 UJ	0.35 UJ	-	0.36 UJ	6.1 U
4,6-Dinitro-2-methylphenol	NA	280	NA	NA	1.2 UJ	-	1.1 UJ	1.1 UJ	1.2 UJ	-	1.1 UJ	-	1.3 UJ	1.2 UJ	1.2 UJ	1.1 UJ	1.2 UJ	-	1.2 UJ	20 U
4-Bromophenyl phenyl ether (BDE-3)	NA	NA	NA	NA	0.23 UJ	-	0.22 UJ	0.22 UJ	0.23 UJ	-	0.23 UJ	-	0.25 UJ	0.24 UJ	0.23 UJ	0.23 UJ	0.23 UJ	-	0.24 UJ	4 U
4-Chloro-3-methylphenol	NA	350000	NA	NA	0.17 UJ	-	0.17 UJ	0.17 UJ	0.17 UJ	-	0.17 UJ	-	0.19 UJ	0.18 UJ	0.18 UJ	0.17 UJ	0.18 UJ	-	0.18 UJ	3 U
4-Chloroaniline	660	14000	NA	NA	1.7 UJ	-	1.7 UJ	1.7 UJ	1.7 UJ	-	1.7 UJ	-	1.9 UJ	1.8 UJ	1.8 UJ	1.7 UJ	1.8 UJ	-	1.8 UJ	30 U
4-Chlorophenyl phenyl ether	NA	NA	NA	NA	0.23 UJ	-	0.22 UJ	0.22 UJ	0.23 UJ	-	0.23 UJ	-	0.25 UJ	0.24 UJ	0.23 UJ	0.23 UJ	0.23 UJ	-	0.24 UJ	4 U
4-Nitroaniline	6600	14000	NA	NA	0.17 UJ	-	0.17 UJ	0.17 UJ	0.17 UJ	-	0.17 UJ	-	0.19 UJ	0.18 UJ	0.18 UJ	0.17 UJ	0.18 UJ	-	0.18 UJ	3 U
4-Nitrophenol	NA	NA	NA	NA	2.3 UJ	-	2.2 UJ	2.2 UJ	2.3 UJ	-	2.3 UJ	-	2.5 UJ	2.4 UJ	2.3 UJ	2.3 UJ	2.3 UJ	-	2.4 UJ	40 U
Acenaphthene	NA	210000	NA	NA	0.046 UJ	-	0.045 UJ	0.045 UJ	0.047 UJ	-	0.046 UJ	-	0.051 UJ	0.047 UJ	0.047 UJ	0.045 UJ	0.047 UJ	-	0.048 UJ	0.81 U
Acenaphthylene	NA	NA	NA	NA	0.029 UJ	-	0.028 UJ	0.028 UJ	0.029 UJ	-	0.028 UJ	-	0.032 UJ	0.029 UJ	0.029 UJ	0.028 UJ	0.029 UJ	-	0.03 UJ	0.5 U
Anthracene	NA	1.10E+06	NA	NA	0.069 UJ	-	0.067 UJ	0.067 UJ	0.07 UJ	-	0.068 UJ	-	0.076 UJ	0.071 UJ	0.07 UJ	0.068 UJ	0.07 UJ	-	0.071 UJ	1.2 U
Benzo(a)anthracene	NA	NA	NA	NA	0.046 UJ	-	0.045 UJ	0.045 UJ	0.047 UJ	-	0.046 UJ	-	0.051 UJ	0.047 UJ	0.047 UJ	0.045 UJ	0.047 UJ	-	0.048 UJ	0.81 U
Benzo(a)pyrene	130	1100	12	NA	0.069 UJ	-	0.067 UJ	0.067 UJ	0.07 UJ	-	0.068 UJ	-	0.076 UJ	0.071 UJ	0.07 UJ	0.068 UJ	0.07 UJ	-	0.071 UJ	1.2 U
Benzo(b)fluoranthene	NA	NA	NA	NA	0.046 UJ	-	0.045 UJ	0.045 UJ	0.047 UJ	-	0.046 UJ	-	0.051 UJ	0.047 UJ	0.047 UJ	0.045 UJ	0.047 UJ	-	0.048 UJ	0.81 U
Benzo(g,h,i)perylene	NA	NA	NA	NA	0.069 UJ	-	0.067 UJ	0.067 UJ	0.07 UJ	-	0.068 UJ	-	0.076 UJ	0.071 UJ	0.07 UJ	0.068 UJ	0.07 UJ	-	0.071 UJ	1.2 U
Benzo(k)fluoranthene	NA	NA	NA	NA	0.069 UJ	-	0.067 UJ	0.067 UJ	0.07 UJ	-	0.068 UJ	-	0.076 UJ	0.071 UJ	0.07 UJ	0.068 UJ	0.07 UJ	-	0.071 UJ	1.2 U
Benzoic acid	NA	1.40E+07	NA	NA	4.6 UJ	-	4.5 R	4.5 UJ	4.7 UJ	-	4.6 UJ	-	5.1 UJ	4.7 UJ	4.7 UJ	4.5 UJ	4.7 UJ	-	4.8 UJ	81 U
Benzyl Alcohol	NA	350000	NA	NA	1.2 UJ	-	1.1 UJ	1.1 UJ	1.2 UJ	-	1.1 UJ	-	1.3 UJ	1.2 UJ	1.2 UJ	1.1 UJ	1.2 UJ	-	1.2 UJ	20 U
bis(2-Chloroethoxy)methane	NA	11000	NA	NA	0.23 UJ	-	0.22 UJ	0.22 UJ	0.23 UJ	-	0.23 UJ	-	0.25 UJ	0.24 UJ	0.23 UJ	0.23 UJ	0.23 UJ	-	0.24 UJ	4 U
bis(2-Chloroethyl)ether	120	NA	NA	NA	0.12 UJ	-	0.11 UJ	0.11 UJ	0.12 UJ	-	0.11 UJ	-	0.13 UJ	0.12 UJ	0.12 UJ	0.11 UJ	0.12 UJ	-	0.12 UJ	2 U
bis(2-Ethylhexyl)phthalate	9400	70000	NA	NA	**0.23 J-**	-	**0.22 J-**	0.67 UJ	0.7 UJ	-	**0.25 J-**	-	0.76 UJ	0.71 UJ	0.7 UJ	0.68 UJ	0.7 UJ	-	0.71 UJ	12 U
Butyl benzylphthalate (BBP)	69000	700000	NA	NA	0.23 UJ	-	0.22 UJ	0.22 UJ	0.23 UJ	-	0.23 UJ	-	0.25 UJ	0.24 UJ	0.23 UJ	0.23 UJ	0.23 UJ	-	0.24 UJ	4 U
Carbazole	NA	NA	NA	NA	0.17 UJ	-	0.17 UJ	0.17 UJ	0.17 UJ	-	0.17 UJ	-	0.19 UJ	0.18 UJ	0.18 UJ	0.17 UJ	0.18 UJ	-	0.18 UJ	3 U
Chrysene	NA	NA	NA	NA	0.069 UJ	-	0.067 UJ	0.067 UJ	0.07 UJ	-	0.068 UJ	-	0.076 UJ	0.071 UJ	0.07 UJ	0.068 UJ	0.07 UJ	-	0.071 UJ	1.2 U
Dibenz(a,h)anthracene	NA	NA	NA	NA	0.058 UJ	-	0.056 UJ	0.056 UJ	0.058 UJ	-	0.057 UJ	-	0.064 UJ	0.059 UJ	0.058 UJ	0.056 UJ	0.059 UJ	-	0.059 UJ	1 U
Dibenzofuran	NA	3500	NA	NA	0.17 UJ	-	0.17 UJ	0.17 UJ	0.17 UJ	-	0.17 UJ	-	0.19 UJ	0.18 UJ	0.18 UJ	0.17 UJ	0.18 UJ	-	0.18 UJ	3 U
Diethyl phthalate	NA	2.80E+06	NA	NA	0.46 UJ	-	0.45 UJ	0.45 UJ	0.47 UJ	-	0.46 UJ	-	0.51 UJ	0.47 UJ	0.47 UJ	0.45 UJ	0.47 UJ	-	0.48 UJ	8.1 U
Dimethyl phthalate	NA	NA	NA	NA	0.17 UJ	-	0.17 UJ	0.17 UJ	0.17 UJ	-	0.17 UJ	-	0.19 UJ	0.18 UJ	0.18 UJ	0.17 UJ	0.18 UJ	-	0.18 UJ	3 U
Di-n-butylphthalate (DBP)	NA	350000	NA	NA	0.58 UJ	-	0.56 UJ	0.56 UJ	**0.27 J-**	-	0.57 UJ	-	0.64 UJ	0.59 UJ	0.58 UJ	0.56 UJ	0.59 UJ	-	0.59 UJ	10 U
Di-n-octyl phthalate (DnOP)	NA	35000	NA	NA	0.17 UJ	-	0.17 UJ	0.17 UJ	0.17 UJ	-	0.17 UJ	-	0.19 UJ	0.18 UJ	0.18 UJ	0.17 UJ	0.18 UJ	-	0.18 UJ	3 U
Fluoranthene	NA	140000	NA	NA	0.046 UJ	-	0.045 UJ	0.045 UJ	0.047 UJ	-	0.046 UJ	-	0.051 UJ	0.047 UJ	0.047 UJ	0.045 UJ	0.047 UJ	-	0.048 UJ	0.81 U
Fluorene	NA	140000	NA	NA	0.029 UJ	-	0.028 UJ	0.028 UJ	0.029 UJ	-	0.028 UJ	-	0.032 UJ	0.029 UJ	0.029 UJ	0.028 UJ	0.029 UJ	-	0.03 UJ	0.5 U
Hexachlorobenzene	82	2800	17	NA	0.058 UJ	-	0.056 UJ	0.056 UJ	0.058 UJ	-	0.057 UJ	-	0.064 UJ	0.059 UJ	0.058 UJ	0.056 UJ	0.059 UJ	-	0.059 UJ	1 U
Hexachlorobutadiene	1700	3500	NA	NA	0.058 UJ	-	0.056 UJ	0.056 UJ	0.058 UJ	-	0.057 UJ	-	0.064 UJ	0.059 UJ	0.058 UJ	0.056 UJ	0.059 UJ	-	0.059 UJ	1 U
Hexachlorocyclopentadiene	NA	21000	NA	NA	0.12 UJ	-	0.11 UJ	0.11 UJ	0.12 UJ	-	0.11 UJ	-	0.13 UJ	0.12 UJ	0.12 UJ	0.11 UJ	0.12 UJ	-	0.12 UJ	2 U
Hexachloroethane	3300	2500	NA	NA	0.17 UJ	-	0.17 UJ	0.17 UJ	0.17 UJ	-	0.17 UJ	-	0.19 UJ	0.18 UJ	0.18 UJ	0.17 UJ	0.18 UJ	-	0.18 UJ	3 U
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	0.046 UJ	-	0.045 UJ	0.045 UJ	0.047 UJ	-	0.046 UJ	-	0.051 UJ	0.047 UJ	0.047 UJ	0.045 UJ	0.047 UJ	-	0.048 UJ	0.81 U
Isophorone	140000	700000	NA	NA	0.17 UJ	-	0.17 UJ	0.17 UJ	0.17 UJ	-	0.17 UJ	-	0.19 UJ	0.18 UJ	0.18 UJ	0.17 UJ	0.18 UJ	-	0.18 UJ	3 U
Naphthalene	NA	70000	NA	NA	0.029 UJ	-	0.028 UJ	0.028 UJ	0.029 UJ	-	**0.0058 J-**	-	**0.0074 J-**	0.029 UJ	0.029 UJ	0.028 UJ	0.029 UJ	-	0.03 UJ	0.5 U
Nitrobenzene	NA	7000	NA	NA	0.23 UJ	-	0.22 UJ	0.22 UJ	0.23 UJ	-	0.23 UJ	-	0.25 UJ	0.24 UJ	0.23 UJ	0.23 UJ	0.23 UJ	-	0.24 UJ	4 U
N-Nitrosodi-n-propylamine	19	NA	NA	NA	0.23 UJ	-	0.22 UJ	0.22 UJ	0.23 UJ	-	0.23 UJ	-	0.25 UJ	0.24 UJ	0.23 UJ	0.23 UJ	0.23 UJ	-	0.24 UJ	4 U
N-Nitrosodiphenylamine	27000	NA	NA	NA	0.069 UJ	-	0.067 UJ	0.067 UJ	0.07 UJ	-	0.068 UJ	-	0.076 UJ	0.071 UJ	0.07 UJ	0.068 UJ	0.07 UJ	-	0.071 UJ	1.2 U
Pentachlorophenol	330	18000	4.5	NA	0.46 UJ	-	0.45 UJ	0.45 UJ	0.47 UJ	-	0.46 UJ	-	0.51 UJ	0.47 UJ	0.47 UJ	0.45 UJ	0.47 UJ	-	0.48 UJ	**5.8** [A]
Phenanthrene	NA	NA	NA	NA	0.069 UJ	-	0.067 UJ	0.067 UJ	0.07 UJ	-	0.068 UJ	-	0.076 UJ	0.071 UJ	0.07 UJ	0.068 UJ	0.07 UJ	-	0.071 UJ	1.2 U
Phenol	NA	1.10E+06	NA	NA	0.17 UJ	-	0.17 UJ	0.17 UJ	0.17 UJ	-	0.17 UJ	-	0.19 UJ	0.18 UJ	0.18 UJ	0.17 UJ	0.18 UJ	-	0.18 UJ	3 U
Pyrene	NA	110000	NA	NA	0.069 UJ	-	0.067 UJ	0.067 UJ	0.07 UJ	-	0.068 UJ	-	0.076 UJ	0.071 UJ	0.07 UJ	0.068 UJ	0.07 UJ	-	0.071 UJ	1.2 U
cPAHs-TEQ	130	1100	NA	NA	0.048 UJ	-	0.047 UJ	0.047 UJ	0.049 UJ	-	0.047 UJ	-	0.053 UJ	0.049 UJ	0.049 UJ	0.047 UJ	0.049 UJ	-	0.05 UJ	0.84 U

TABLE 2
SUMMARY OF SOIL QUALITY DATA
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name	Action Level				B-01	B-01	B-01	B-02	B-03	B-03	B-04	B-04	B-05	B-05	B-05	B-05	B-06	B-06	B-06	B-07
Sample Name					B-01-S1	B-01-S2	B-01-S7	B-02-S2	B-03-S1	B-03-S2	B-04-S1	B-04-S2	B-05-S1	FD01	B-05-S2	B-05-S3	B-06-S1	B-06-S2	B-06-S4	B-07-S1
Sample Date					08/08/2023	08/08/2023	08/08/2023	08/07/2023	08/07/2023	08/07/2023	08/09/2023	08/09/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/09/2023
Lab Sample ID					23H0691-03			23H0691-01	23H0691-02		23H0705-01		23H0704-02	23H0704-03			23H0704-01			23H0706-02
Sample Depth (bgs)	MTCA Method C Direct Contact Cancerous	MTCA Method C Direct Contact Non-Cancerous	MTCA Ecological Indicator Soil Concentrations for Protection of Wildlife	Puget Sound Natural Background Concentrations for Metals	580-130495-13 2.5 - 5 (ft)	580-130495-14 7.5 - 10 (ft)	580-130493-2 50 - 51 (ft)	580-130495-2 7.5 - 10 (ft)	580-130495-7 2.5 - 5 (ft)	580-130495-8 7.5 - 10 (ft)	580-130515-1 2.5 - 5 (ft)	580-130515-2 7.5 - 10 (ft)	580-130493-10 1 - 2.5 (ft)	580-130493-17 1 - 2.5 (ft)	580-130493-11 6 - 8 (ft)	580-130493-12 12 - 14 (ft)	580-130493-3 2.5 - 5 (ft)	580-130493-4 7.5 - 10 (ft)	580-130493-6 17 - 19 (ft)	580-130524-8 1 - 2.5 (ft)
Total Petroleum Hydrocarbons (mg/kg)																				
Gasoline	NA	NA	5000	NA	4.1 UJ	4.2 UJ	3.1 UJ	4 UJ	3.8 UJ	4.5 UJ	3.8 UJ	4.5 UJ	**1.2 J**	4.6 UJ	4.2 UJ	4.1 UJ	4.3 UJ	4.4 UJ	4 UJ	**29 J**
Total Petroleum Hydrocarbons (C10-C24), DRO Silica-Gel Cleanup	NA	NA	6000	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**4700 J**
Total Petroleum Hydrocarbons (C24-C36), MRO Silica-Gel Cleanup	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**5100 J**
Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	NA	NA	6000	NA	58 UJ	57 UJ	53 UJ	56 UJ	59 UJ	61 UJ	59 UJ	62 UJ	66 UJ	**120 J-**	**17 J-**	59 UJ	58 UJ	59 UJ	59 UJ	**4400 J-**
Total Petroleum Hydrocarbons (C24-C36) Motor Oil	NA	NA	NA	NA	58 UJ	57 UJ	53 UJ	56 UJ	59 UJ	61 UJ	59 UJ	62 UJ	66 UJ	**300 J-**	**25 J-**	59 UJ	58 UJ	59 UJ	59 UJ	**4700 J-**
Total Petroleum Hydrocarbons (C10-C36) DRO + MRO	NA	70000[1]	6000	NA	58 UJ	57 UJ	53 UJ	56 UJ	59 UJ	61 UJ	59 UJ	62 UJ	66 UJ	**420 J-**	**42 J-**	59 UJ	58 UJ	59 UJ	59 UJ	**9100 J-** [A]
VPH (mg/kg)																				
1,2,3-Trichlorobenzene	NA	2800	NA	NA	1.05 U	-	-	0.922 U	0.927 U	-	0.844 U	-	1.26 U	1.48 U	-	-	0.944 U	-	-	1.91 U
1-Methylnaphthalene	4500	250000	NA	NA	1.05 U	-	-	0.922 U	0.927 U	-	0.844 U	-	1.26 U	1.48 U	-	-	0.944 U	-	-	1.91 U
Benzene	2400	14000	NA	NA	1.05 U	-	-	0.922 U	0.927 U	-	0.844 U	-	1.26 U	1.48 U	-	-	0.944 U	-	-	1.91 U
Ethylbenzene	NA	350000	NA	NA	1.05 U	-	-	0.922 U	0.927 U	-	0.844 U	-	1.26 U	1.48 U	-	-	0.944 U	-	-	1.91 U
Hexane	NA	210000	NA	NA	1.05 U	-	-	0.922 U	0.927 U	-	0.844 U	-	1.26 U	1.48 U	-	-	0.944 U	-	-	1.91 U
m,p-Xylenes	NA	NA	NA	NA	2.1 U	-	-	1.84 U	1.85 U	-	1.69 U	-	2.53 U	2.96 U	-	-	1.89 U	-	-	3.82 U
Methyl Tert Butyl Ether (MTBE)	73000	NA	NA	NA	1.05 U	-	-	0.922 U	0.927 U	-	0.844 U	-	1.26 U	1.48 U	-	-	0.944 U	-	-	1.91 U
Naphthalene	NA	70000	NA	NA	1.05 U	-	-	0.922 U	0.927 U	-	0.844 U	-	1.26 U	1.48 U	-	-	0.944 U	-	-	1.91 U
N-Decane	NA	NA	NA	NA	1.05 U	-	-	0.922 U	0.927 U	-	0.844 U	-	1.26 U	1.48 U	-	-	0.944 U	-	-	1.91 U
N-Dodecane	NA	NA	NA	NA	1.05 U	-	-	0.922 U	0.927 U	-	0.844 U	-	1.26 U	1.48 U	-	-	0.944 U	-	-	1.91 U
Octane	NA	NA	NA	NA	1.05 U	-	-	0.922 U	0.927 U	-	0.844 U	-	1.26 U	1.48 U	-	-	0.944 U	-	-	1.91 U
o-Xylene	NA	700000	NA	NA	1.05 U	-	-	0.922 U	0.927 U	-	0.844 U	-	1.26 U	1.48 U	-	-	0.944 U	-	-	1.91 U
Pentane	NA	NA	NA	NA	1.05 U	-	-	0.922 U	0.927 U	-	0.844 U	-	1.26 U	**1.98**	-	-	0.944 U	-	-	1.91 U
Toluene	NA	280000	NA	NA	1.05 U	-	-	0.922 U	0.927 U	-	0.844 U	-	1.26 U	1.48 U	-	-	0.944 U	-	-	1.91 U
Volatile Petroleum Hydrocarbons (C5-C6) Aliphatic	NA	NA	NA	NA	10.5 U	-	-	9.22 U	9.27 U	-	8.44 U	-	12.6 U	14.8 U	-	-	9.44 U	-	-	19.1 U
Volatile Petroleum Hydrocarbons (C6-C8) Aliphatic	NA	NA	NA	NA	10.5 U	-	-	9.22 U	9.27 U	-	8.44 U	-	12.6 U	14.8 U	-	-	9.44 U	-	-	19.1 U
Volatile Petroleum Hydrocarbons (C8-C10) Aliphatic	NA	NA	NA	NA	10.5 U	-	-	9.22 U	9.27 U	-	8.44 U	-	12.6 U	14.8 U	-	-	9.44 U	-	-	19.1 U
Volatile Petroleum Hydrocarbons (C10-C12) Aliphatic	NA	NA	NA	NA	10.5 U	-	-	9.22 U	9.27 U	-	8.44 U	-	12.6 U	14.8 U	-	-	9.44 U	-	-	19.1 U
Volatile Petroleum Hydrocarbons (C8-C10) Aromatic	NA	NA	NA	NA	10.5 U	-	-	9.22 U	9.27 U	-	8.44 U	-	12.6 U	14.8 U	-	-	9.44 U	-	-	19.1 U
Volatile Petroleum Hydrocarbons (C10-C12) Aromatic	NA	NA	NA	NA	10.5 U	-	-	9.22 U	9.27 U	-	8.44 U	-	12.6 U	14.8 U	-	-	9.44 U	-	-	19.1 U
Volatile Petroleum Hydrocarbons (C12-C13) Aromatic	NA	NA	NA	NA	10.5 U	-	-	9.22 U	9.27 U	-	8.44 U	-	12.6 U	14.8 U	-	-	9.44 U	-	-	19.1 U
EPH (mg/kg)																				
Extractable Petroleum Hydrocarbons (C8-C10) Aliphatic	NA	NA	NA	NA	2.49 UJ	-	-	2.42 UJ	2.37 UJ	-	2.42 UJ	-	2.73 UJ	2.9 UJ	-	-	2.37 UJ	-	-	2.32 UJ
Extractable Petroleum Hydrocarbons (C10-C12) Aliphatic	NA	NA	NA	NA	2.49 UJ	-	-	2.42 UJ	2.37 UJ	-	2.42 UJ	-	2.73 UJ	2.9 UJ	-	-	2.37 UJ	-	-	2.32 UJ
Extractable Petroleum Hydrocarbons (C12-C16) Aliphatic	NA	NA	NA	NA	2.49 UJ	-	-	2.42 UJ	2.37 UJ	-	2.42 UJ	-	2.73 UJ	2.9 UJ	-	-	2.37 UJ	-	-	**13.9 J-**
Extractable Petroleum Hydrocarbons (C16-C21) Aliphatic	NA	NA	NA	NA	2.49 UJ	-	-	2.42 UJ	2.37 UJ	-	2.42 UJ	-	**10.7 J-**	**3.89 J-**	-	-	2.37 UJ	-	-	**229 J-**
Extractable Petroleum Hydrocarbons (C21-C34) Aliphatic	NA	NA	NA	NA	2.49 UJ	-	-	2.42 UJ	2.37 UJ	-	2.42 UJ	-	2.73 UJ	**9.88 J-**	-	-	2.37 UJ	-	-	**649 J-**
Extractable Petroleum Hydrocarbons (C8-C10) Aromatic	NA	NA	NA	NA	2.49 UJ	-	-	2.42 UJ	2.37 UJ	-	2.42 UJ	-	2.73 UJ	2.9 UJ	-	-	2.37 UJ	-	-	**3.08 J-**
Extractable Petroleum Hydrocarbons (C10-C12) Aromatic	NA	NA	NA	NA	2.49 UJ	-	-	2.42 UJ	2.37 UJ	-	2.42 UJ	-	2.73 UJ	2.9 UJ	-	-	2.37 UJ	-	-	**2.46 J-**
Extractable Petroleum Hydrocarbons (C12-C16) Aromatic	NA	NA	NA	NA	2.49 UJ	-	-	2.42 UJ	2.37 UJ	-	2.42 UJ	-	2.73 UJ	2.9 UJ	-	-	2.37 UJ	-	-	**5.44 J-**
Extractable Petroleum Hydrocarbons (C16-C21) Aromatic	NA	NA	NA	NA	2.49 UJ	-	-	2.42 UJ	2.37 UJ	-	2.42 UJ	-	**3.51 J-**	**3.49 J-**	-	-	2.37 UJ	-	-	**126 J-**
Extractable Petroleum Hydrocarbons (C21-C34) Aromatic	NA	NA	NA	NA	2.49 UJ	-	-	2.42 UJ	2.37 UJ	-	2.42 UJ	-	**4.94 J-**	**5.14 J-**	-	-	2.37 UJ	-	-	**294 J-**
Inorganic Compounds (mg/kg)																				
Arsenic	88	1100	132[2]	7	**6.4**	-	**2.7**	**7.2**	**5.4**	-	**5.9**	-	**5.2**	**2.7**	**8**	**6.7**	**4.7**	-	**3.5**	**2.4**
Cadmium	NA	3500	14	1	**0.25 J**	-	**0.18 J**	**0.24 J**	**0.22 J**	-	**0.18 J**	-	**0.13 J**	**0.2 J**	**0.56 J**	**0.33 J**	**0.15 J**	-	**0.36 J**	**0.39 J**
Chromium	NA	5300000[3]	67	48	**62**	-	**27**	**46**	**47**	-	**53**	-	**39**	**38**	**60**	**42**	**44**	-	**39**	**34**
Copper	NA	140000	217	36	**46 J**	-	**16 J**	**34 J**	**32 J**	-	**35 J**	-	**13 J**	**22 J**	**44 J**	**35 J**	**27 J**	-	**31 J**	**20 J**
Lead	NA	1000[4]	118	24	**5.6**	-	**2**	**4.8**	**4.2**	-	**4**	-	**2.9 J**	**5.2 J**	**5.2**	**3.9**	**3**	-	**4**	**5.3**
Mercury	NA	NA	5.5[5]	0.07	**0.16**	-	**0.031 J+**	**0.058**	**0.065**	-	**0.042**	-	**0.045 J+**	**0.04 J+**	**0.059 J+**	**0.047 J+**	**0.052 J+**	-	**0.05 J+**	**0.037**
Nickel	NA	70000	980	48	**58**	-	**23**	**38**	**41**	-	**46**	-	**30**	**32**	**55**	**41**	**37**	-	**40**	**20**
Potassium	NA	NA	NA	NA	**1500 J+**	-	**1000 J+**	**1400 J+**	**1100 J+**	-	**1100 J**	-	**720 J+**	**640 J+**	**1700 J+**	**1500 J+**	**1200 J+**	-	**1800 J+**	**340 J**
Sodium	NA	NA	NA	NA	**380 J+**	-	**570**	**520 J+**	**380 J+**	-	**380**	-	**390 J**	**240 J**	**550**	**510**	**330**	-	**590**	**290**
Zinc	NA	1.10E+06	360	85	**75**	-	**33**	**58**	**53**	-	**53**	-	**38**	**53**	**71**	**55**	**51**	-	**56**	**50**
TCLP Inorganic Compounds (mg/L)																				
Arsenic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs (mg/kg)																				
Aroclor-1016 (PCB-1016)	1900	250	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	66	70	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	66	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Polychlorinated biphenyls (PCBs)	66	NA	0.65	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 2
SUMMARY OF SOIL QUALITY DATA
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name	Action Level				B-07	B-07	B-08	B-08	B-09	B-09	B-10	B-10	B-11	B-11	B-12	B-12	BG-01	BG-01	PP-01
Sample Name					B-07-S2	FD-02	B-08-S1	B-08-S2	B-09-S1	B-09-S2	B-10-S1	B-10-S2	B-11-S1	B-11-S2	B-12-S1	B-12-S2	BG-01-S1	BG-01-S2	PP-01
Sample Date					08/09/2023	08/09/2023	08/10/2023 23H0706-01	08/10/2023	08/09/2023 23H0705-02	08/09/2023	08/09/2023 23H0706-05	08/09/2023	08/10/2023 23H0706-03	08/10/2023	08/10/2023 23H0706-04	08/10/2023	08/09/2023	08/09/2023	08/09/2023
Lab Sample ID	MTCA Method C Direct Contact Cancerous	MTCA Method C Direct Contact Non-Cancerous	MTCA Ecological Indicator Soil Concentrations for Protection of Wildlife	Puget Sound Natural Background Concentrations for Metals	580-130524-9	580-130515-21	580-130524-1	580-130524-2	580-130515-13	580-130515-14	580-130524-24	580-130524-25	580-130524-15	580-130524-16	580-130524-20	580-130524-21	580-130515-8	580-130515-9	580-130515-20
Sample Depth (bgs)					7.5 - 10 (ft)	7.5 - 10 (ft)	3 - 5 (ft)	8 - 10 (ft)	2.5 - 5 (ft)	7.5 - 10 (ft)	2 - 3 (ft)	8 - 10 (ft)	1 - 2 (ft)	8 - 10 (ft)	2 - 4 (ft)	8 - 10 (ft)	2.5 - 5 (ft)	7.5 - 10 (ft)	-
Volatile Organic Compounds (mg/kg)																			
1,1,1,2-Tetrachloroethane	5000	110000	NA	NA	0.02 UJ	0.019 UJ	0.02 UJ	-	0.021 UJ	-	0.019 UJ	0.023 UJ	0.019 UJ	-	0.02 UJ	-	0.02 UJ	-	0.19 UJ
1,1,1-Trichloroethane	NA	7.00E+06	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
1,1,2,2-Tetrachloroethane	660	70000	NA	NA	0.02 UJ	0.019 UJ	0.02 UJ	-	0.021 UJ	-	0.019 UJ	0.023 UJ	0.019 UJ	-	0.02 UJ	-	0.02 UJ	-	0.19 UJ
1,1,2-Trichloroethane	2300	14000	NA	NA	0.02 UJ	0.019 UJ	0.02 UJ	-	0.021 UJ	-	0.019 UJ	0.023 UJ	0.019 UJ	-	0.02 UJ	-	0.02 UJ	-	0.19 UJ
1,1-Dichloroethane	23000	700000	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
1,1-Dichloroethene	NA	180000	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
1,1-Dichloropropene	NA	NA	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
1,2,3-Trichlorobenzene	NA	2800	NA	NA	0.081 UJ	0.077 UJ	0.081 UJ	-	0.085 UJ	-	0.077 UJ	0.091 UJ	0.078 UJ	-	0.08 UJ	-	0.078 UJ	-	0.74 UJ
1,2,3-Trichloropropane	4.4	14000	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
1,2,4-Trichlorobenzene	4500	35000	NA	NA	0.081 UJ	0.077 UJ	0.081 UJ	-	0.085 UJ	-	0.077 UJ	0.091 UJ	0.078 UJ	-	0.08 UJ	-	0.078 UJ	-	0.74 UJ
1,2,4-Trimethylbenzene	NA	35000	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
1,2-Dibromo-3-chloropropane (DBCP)	160	700	NA	NA	0.061 UJ	0.057 UJ	0.061 UJ	-	0.064 UJ	-	0.058 UJ	0.068 UJ	0.058 UJ	-	0.06 UJ	-	0.059 UJ	-	0.56 UJ
1,2-Dibromoethane (Ethylene Dibromide)	66	32000	NA	NA	0.02 UJ	0.019 UJ	0.02 UJ	-	0.021 UJ	-	0.019 UJ	0.023 UJ	0.019 UJ	-	0.02 UJ	-	0.02 UJ	-	0.19 UJ
1,2-Dichlorobenzene	NA	320000	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
1,2-Dichloroethane	1400	21000	NA	NA	0.02 UJ	0.019 UJ	0.02 UJ	-	0.021 UJ	-	0.019 UJ	0.023 UJ	0.019 UJ	-	0.02 UJ	-	0.02 UJ	-	0.19 UJ
1,2-Dichloropropane	3500	140000	NA	NA	0.02 UJ	0.019 UJ	0.02 UJ	-	0.021 UJ	-	0.019 UJ	0.023 UJ	0.019 UJ	-	0.02 UJ	-	0.02 UJ	-	0.19 UJ
1,3,5-Trimethylbenzene	NA	35000	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
1,3-Dichlorobenzene	NA	NA	NA	NA	0.061 UJ	0.057 UJ	0.061 UJ	-	0.064 UJ	-	0.058 UJ	0.068 UJ	0.058 UJ	-	0.06 UJ	-	0.059 UJ	-	0.56 UJ
1,3-Dichloropropane	NA	70000	NA	NA	0.061 UJ	0.057 UJ	0.061 UJ	-	0.064 UJ	-	0.058 UJ	0.068 UJ	0.058 UJ	-	0.06 UJ	-	0.059 UJ	-	0.56 UJ
1,4-Dichlorobenzene	24000	250000	NA	NA	0.061 UJ	0.057 UJ	0.061 UJ	-	0.064 UJ	-	0.058 UJ	0.068 UJ	0.058 UJ	-	0.06 UJ	-	0.059 UJ	-	0.56 UJ
2,2-Dichloropropane	NA	NA	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
2-Chlorotoluene	NA	70000	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
2-Phenylbutane (sec-Butylbenzene)	NA	350000	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
4-Chlorotoluene	NA	70000	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
Benzene	2400	14000	NA	NA	0.02 UJ	0.019 UJ	0.02 UJ	-	0.021 UJ	-	**0.0061 J**	**0.005 J**	0.019 UJ	-	0.02 UJ	-	0.02 UJ	-	**0.099 J**
Bromobenzene	NA	28000	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
Bromodichloromethane	2100	70000	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
Bromoform	17000	70000	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
Bromomethane (Methyl Bromide)	NA	4900	NA	NA	0.1 UJ	0.096 UJ	0.1 UJ	-	0.11 UJ	-	0.096 UJ	0.11 UJ	0.097 UJ	-	0.1 UJ	-	0.098 UJ	-	0.93 UJ
Carbon tetrachloride	1900	14000	NA	NA	0.02 UJ	0.019 UJ	0.02 UJ	-	0.021 UJ	-	0.019 UJ	0.023 UJ	0.019 UJ	-	0.02 UJ	-	0.02 UJ	-	0.19 UJ
Chlorobenzene	NA	70000	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
Chlorobromomethane	NA	NA	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
Chloroethane	NA	NA	NA	NA	0.081 UJ	0.077 UJ	0.081 UJ	-	0.085 UJ	-	0.077 UJ	0.091 UJ	0.078 UJ	-	0.08 UJ	-	0.078 UJ	-	0.74 UJ
Chloroform (Trichloromethane)	4200	35000	NA	NA	0.02 UJ	0.019 UJ	0.02 UJ	-	0.021 UJ	-	0.019 UJ	0.023 UJ	0.019 UJ	-	0.02 UJ	-	0.02 UJ	-	0.19 UJ
Chloromethane (Methyl Chloride)	NA	NA	NA	NA	0.061 UJ	0.057 UJ	0.061 UJ	-	0.064 UJ	-	0.058 UJ	0.068 UJ	0.058 UJ	-	0.06 UJ	-	0.059 UJ	-	0.56 UJ
cis-1,2-Dichloroethene	NA	7000	NA	NA	0.061 UJ	0.057 UJ	0.061 UJ	-	0.064 UJ	-	0.058 UJ	0.068 UJ	0.058 UJ	-	0.06 UJ	-	0.059 UJ	-	0.56 UJ
cis-1,3-Dichloropropene	NA	NA	NA	NA	0.02 UJ	0.019 UJ	0.02 UJ	-	0.021 UJ	-	0.019 UJ	0.023 UJ	0.019 UJ	-	0.02 UJ	-	0.02 UJ	-	0.19 UJ
Cymene (p-Isopropyltoluene)	NA	NA	NA	NA	**0.037 J**	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	**0.017 J**	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
Dibromochloromethane	1600	70000	NA	NA	0.02 UJ	0.019 UJ	0.02 UJ	-	0.021 UJ	-	0.019 UJ	0.023 UJ	0.019 UJ	-	0.02 UJ	-	0.02 UJ	-	0.19 UJ
Dibromomethane	NA	35000	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
Dichlorodifluoromethane (CFC-12)	NA	700000	NA	NA	0.25 UJ	0.24 UJ	0.25 UJ	-	0.27 UJ	-	0.24 UJ	0.28 UJ	0.24 UJ	-	0.25 UJ	-	0.24 UJ	-	2.3 UJ
Ethylbenzene	NA	350000	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
Hexachlorobutadiene	1700	3500	NA	NA	0.1 UJ	0.096 UJ	0.1 UJ	-	0.11 UJ	-	0.096 UJ	0.11 UJ	0.097 UJ	-	0.1 UJ	-	0.098 UJ	-	0.93 UJ
Isopropylbenzene (Cumene)	NA	350000	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
m,p-Xylenes	NA	NA	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	**0.12 J**
Methyl Tert Butyl Ether (MTBE)	73000	NA	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
Methylene chloride (Dichloromethane)	66000	21000	NA	NA	0.25 UJ	0.24 UJ	0.25 UJ	-	0.27 UJ	-	0.24 UJ	0.28 UJ	0.24 UJ	-	0.25 UJ	-	0.24 UJ	-	**0.24 J**
Naphthalene	NA	70000	NA	NA	0.15 UJ	0.14 UJ	0.15 UJ	-	0.16 UJ	-	0.14 UJ	0.17 UJ	0.15 UJ	-	0.15 UJ	-	0.15 UJ	-	1.4 UJ
n-Butylbenzene	NA	180000	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
n-Propylbenzene	NA	350000	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
o-Xylene	NA	700000	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
Styrene	NA	700000	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
tert-Butylbenzene	NA	350000	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
Tetrachloroethene	63000	21000	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
Toluene	NA	280000	NA	NA	0.061 UJ	0.057 UJ	0.061 UJ	-	0.064 UJ	-	0.058 UJ	0.068 UJ	0.058 UJ	-	0.06 UJ	-	0.059 UJ	-	0.56 UJ
trans-1,2-Dichloroethene	NA	70000	NA	NA	0.061 UJ	0.057 UJ	0.061 UJ	-	0.064 UJ	-	0.058 UJ	0.068 UJ	0.058 UJ	-	0.06 UJ	-	0.059 UJ	-	0.56 UJ
trans-1,3-Dichloropropene	NA	NA	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
Trichloroethene	2900	1800	NA	NA	0.04 UJ	0.038 UJ	0.041 UJ	-	0.043 UJ	-	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ	-	0.039 UJ	-	0.37 UJ
Trichlorofluoromethane (CFC-11)	NA	1.10E+06	NA	NA	0.081 UJ	0.077 UJ	0.081 UJ	-	0.085 UJ	-	0.077 UJ	0.091 UJ	0.078 UJ	-	0.08 UJ	-	0.078 UJ	-	0.74 UJ
Vinyl chloride	88	11000	NA	NA	0.1 UJ	0.096 UJ	0.1 UJ	-	0.11 UJ	-	0.096 UJ	0.11 UJ	0.097 UJ	-	0.1 UJ	-	0.098 UJ	-	0.93 UJ

TABLE 2
SUMMARY OF SOIL QUALITY DATA
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name	Action Level				B-07	B-07	B-08	B-08	B-09	B-09	B-10	B-10	B-11	B-11	B-12	B-12	BG-01	BG-01	PP-01
Sample Name					B-07-S2	FD-02	B-08-S1	B-08-S2	B-09-S1	B-09-S2	B-10-S1	B-10-S2	B-11-S1	B-11-S2	B-12-S1	B-12-S2	BG-01-S1	BG-01-S2	PP-01
Sample Date					08/09/2023	08/09/2023	08/10/2023 23H0706-01	08/10/2023	08/09/2023 23H0705-02	08/09/2023	08/09/2023 23H0706-05	08/09/2023	08/10/2023 23H0706-03	08/10/2023	08/10/2023 23H0706-04	08/10/2023	08/09/2023	08/09/2023	08/09/2023
Lab Sample ID	MTCA Method C Direct Contact Cancerous	MTCA Method C Direct Contact Non-Cancerous	MTCA Ecological Indicator Soil Concentrations for Protection of Wildlife	Puget Sound Natural Background Concentrations for Metals	580-130524-9	580-130515-21	580-130524-1	580-130524-2	580-130515-13	580-130515-14	580-130524-24	580-130524-25	580-130524-15	580-130524-16	580-130524-20	580-130524-21	580-130515-8	580-130515-9	580-130515-20
Sample Depth (bgs)					7.5 - 10 (ft)	7.5 - 10 (ft)	3 - 5 (ft)	8 - 10 (ft)	2.5 - 5 (ft)	7.5 - 10 (ft)	2 - 3 (ft)	8 - 10 (ft)	1 - 2 (ft)	8 - 10 (ft)	2 - 4 (ft)	8 - 10 (ft)	2.5 - 5 (ft)	7.5 - 10 (ft)	-
Semi-Volatile Organic Compounds (mg/kg)																			
1,2,4-Trichlorobenzene	4500	35000	NA	NA	0.058 U	0.055 U	0.06 U	-	0.057 UJ	-	0.055 UJ	0.062 UJ	0.055 U	-	0.053 U	-	0.058 UJ	-	26 UJ
1,2-Dichlorobenzene	NA	320000	NA	NA	0.058 U	0.055 U	0.06 U	-	0.057 UJ	-	0.055 UJ	0.062 UJ	0.055 U	-	0.053 U	-	0.058 UJ	-	26 UJ
1,3-Dichlorobenzene	NA	NA	NA	NA	0.058 U	0.055 U	0.06 U	-	0.057 UJ	-	0.055 UJ	0.062 UJ	0.055 U	-	0.053 U	-	0.058 UJ	-	26 UJ
1,4-Dichlorobenzene	24000	250000	NA	NA	0.058 U	0.055 U	0.06 U	-	0.057 UJ	-	0.055 UJ	0.062 UJ	0.055 U	-	0.053 U	-	0.058 UJ	-	26 UJ
1-Methylnaphthalene	4500	250000	NA	NA	0.035 U	0.033 U	0.036 U	-	0.034 UJ	-	0.033 UJ	0.037 UJ	0.033 U	-	0.032 U	-	0.035 UJ	-	15 UJ
2,2'-oxybis(1-Chloropropane)	1900	140000	NA	NA	0.23 U	0.22 U	0.24 U	-	0.23 UJ	-	0.22 UJ	0.25 UJ	0.22 U	-	0.21 U	-	0.23 UJ	-	100 UJ
2,4,5-Trichlorophenol	NA	350000	NA	NA	0.23 U	0.22 U	0.24 U	-	0.23 UJ	-	0.22 UJ	0.25 UJ	0.22 U	-	0.21 U	-	0.23 UJ	-	100 UJ
2,4,6-Trichlorophenol	12000	3500	NA	NA	0.17 U	0.16 U	0.18 U	-	0.17 UJ	-	0.16 UJ	0.19 UJ	0.17 U	-	0.16 U	-	0.17 UJ	-	77 UJ
2,4-Dichlorophenol	NA	11000	NA	NA	0.23 U	0.22 U	0.24 U	-	0.23 UJ	-	0.22 UJ	0.25 UJ	0.22 U	-	0.21 U	-	0.23 UJ	-	100 UJ
2,4-Dimethylphenol	NA	70000	NA	NA	0.23 U	0.22 U	0.24 U	-	0.23 UJ	-	0.22 UJ	0.25 UJ	0.22 U	-	0.21 U	-	0.23 UJ	-	100 UJ
2,4-Dinitrophenol	NA	7000	NA	NA	2.3 U	2.2 U	2.4 U	-	2.3 UJ	-	2.2 UJ	2.5 UJ	2.2 U	-	2.1 U	-	2.3 UJ	-	1000 UJ
2,4-Dinitrotoluene	420	7000	NA	NA	0.23 U	0.22 U	0.24 U	-	0.23 UJ	-	0.22 UJ	0.25 UJ	0.22 U	-	0.21 U	-	0.23 UJ	-	100 UJ
2,6-Dinitrotoluene	88	1100	NA	NA	0.17 U	0.16 U	0.18 U	-	0.17 UJ	-	0.16 UJ	0.19 UJ	0.17 U	-	0.16 U	-	0.17 UJ	-	77 R
2-Chloronaphthalene	NA	280000	NA	NA	0.029 U	0.027 U	0.03 U	-	0.029 UJ	-	0.027 UJ	0.031 UJ	0.028 U	-	0.026 U	-	0.029 UJ	-	13 UJ
2-Chlorophenol	NA	18000	NA	NA	0.23 U	0.22 U	0.24 U	-	0.23 UJ	-	0.22 UJ	0.25 UJ	0.22 U	-	0.21 U	-	0.23 UJ	-	100 UJ
2-Methylnaphthalene	NA	14000	NA	NA	0.058 U	0.055 U	0.06 U	-	0.057 UJ	-	0.055 UJ	0.062 UJ	0.055 U	-	0.053 U	-	0.058 UJ	-	26 UJ
2-Methylphenol (o-Cresol)	NA	180000	NA	NA	0.17 U	0.16 U	0.18 U	-	0.17 UJ	-	0.16 UJ	0.19 UJ	0.17 U	-	0.16 U	-	0.17 UJ	-	77 UJ
2-Nitroaniline	NA	35000	NA	NA	0.12 U	0.11 U	0.12 U	-	0.11 UJ	-	0.11 UJ	0.12 UJ	0.11 U	-	0.11 U	-	0.12 UJ	-	51 R
2-Nitrophenol	NA	NA	NA	NA	0.23 U	0.22 U	0.24 U	-	0.23 UJ	-	0.22 UJ	0.25 UJ	0.22 U	-	0.21 U	-	0.23 UJ	-	100 UJ
3&4-Methylphenol	NA	NA	NA	NA	0.23 U	0.22 U	0.24 U	-	0.23 UJ	-	0.22 UJ	0.25 UJ	0.22 U	-	0.21 U	-	0.23 UJ	-	100 UJ
3,3'-Dichlorobenzidine	290	NA	NA	NA	0.46 U	0.44 U	0.48 U	-	0.46 UJ	-	0.44 UJ	0.49 UJ	0.44 U	-	0.42 U	-	0.46 UJ	-	200 UJ
3-Nitroaniline	NA	NA	NA	NA	0.35 U	0.33 U	0.36 U	-	0.34 UJ	-	0.33 UJ	0.37 UJ	0.33 U	-	0.32 U	-	0.35 UJ	-	150 UJ
4,6-Dinitro-2-methylphenol	NA	280	NA	NA	1.2 U	1.1 U	1.2 U	-	1.1 UJ	-	1.1 UJ	1.2 UJ	1.1 U	-	1.1 U	-	1.2 UJ	-	510 UJ
4-Bromophenyl phenyl ether (BDE-3)	NA	NA	NA	NA	0.23 U	0.22 U	0.24 U	-	0.23 UJ	-	0.22 UJ	0.25 UJ	0.22 U	-	0.21 U	-	0.23 UJ	-	100 UJ
4-Chloro-3-methylphenol	NA	350000	NA	NA	0.17 U	0.16 U	0.18 U	-	0.17 UJ	-	0.16 UJ	0.19 UJ	0.17 U	-	0.16 U	-	0.17 UJ	-	77 UJ
4-Chloroaniline	660	14000	NA	NA	1.7 U	1.6 U	1.8 U	-	1.7 UJ	-	1.6 UJ	1.9 UJ	1.7 U	-	1.6 U	-	1.7 UJ	-	770 UJ
4-Chlorophenyl phenyl ether	NA	NA	NA	NA	0.23 U	0.22 U	0.24 U	-	0.23 UJ	-	0.22 UJ	0.25 UJ	0.22 U	-	0.21 U	-	0.23 UJ	-	100 UJ
4-Nitroaniline	6600	14000	NA	NA	0.17 U	0.16 U	0.18 U	-	0.17 UJ	-	0.16 UJ	0.19 UJ	0.17 U	-	0.16 U	-	0.17 UJ	-	77 UJ
4-Nitrophenol	NA	NA	NA	NA	2.3 U	2.2 U	2.4 U	-	2.3 UJ	-	2.2 UJ	2.5 UJ	2.2 U	-	2.1 U	-	2.3 UJ	-	1000 UJ
Acenaphthene	NA	210000	NA	NA	0.046 U	0.044 U	0.048 U	-	0.046 UJ	-	0.044 UJ	0.049 UJ	0.044 U	-	0.042 U	-	0.046 UJ	-	20 UJ
Acenaphthylene	NA	NA	NA	NA	0.029 U	0.027 U	0.03 U	-	0.029 UJ	-	0.027 UJ	0.031 UJ	0.028 U	-	0.026 U	-	0.029 UJ	-	13 UJ
Anthracene	NA	1.10E+06	NA	NA	0.07 U	0.066 U	0.072 U	-	0.069 UJ	-	0.066 UJ	0.074 UJ	0.066 U	-	0.063 U	-	0.069 UJ	-	31 UJ
Benzo(a)anthracene	NA	NA	NA	NA	0.046 U	0.044 U	0.048 U	-	0.046 UJ	-	0.044 UJ	0.049 UJ	0.044 U	-	0.042 U	-	0.046 UJ	-	20 UJ
Benzo(a)pyrene	130	1100	12	NA	0.07 U	0.066 U	0.072 U	-	0.069 UJ	-	0.066 UJ	0.074 UJ	0.066 U	-	0.063 U	-	0.069 UJ	-	31 UJ
Benzo(b)fluoranthene	NA	NA	NA	NA	0.046 U	0.044 U	0.048 U	-	0.046 UJ	-	0.044 UJ	0.049 UJ	0.044 U	-	0.042 U	-	0.046 UJ	-	20 UJ
Benzo(g,h,i)perylene	NA	NA	NA	NA	0.07 U	0.066 U	0.072 U	-	0.069 UJ	-	0.066 UJ	0.074 UJ	0.066 U	-	0.063 U	-	0.069 UJ	-	31 UJ
Benzo(k)fluoranthene	NA	NA	NA	NA	0.07 U	0.066 U	0.072 U	-	0.069 UJ	-	0.066 UJ	0.074 UJ	0.066 U	-	0.063 U	-	0.069 UJ	-	31 UJ
Benzoic acid	NA	1.40E+07	NA	NA	4.6 U	4.4 U	4.8 U	-	4.6 UJ	-	4.4 UJ	4.9 UJ	4.4 U	-	4.2 U	-	4.6 UJ	-	2000 UJ
Benzyl Alcohol	NA	350000	NA	NA	1.2 U	1.1 U	1.2 U	-	1.1 UJ	-	1.1 UJ	1.2 UJ	1.1 U	-	1.1 U	-	1.2 UJ	-	510 UJ
bis(2-Chloroethoxy)methane	NA	11000	NA	NA	0.23 U	0.22 U	0.24 U	-	0.23 UJ	-	0.22 UJ	0.25 UJ	0.22 U	-	0.21 U	-	0.23 UJ	-	100 UJ
bis(2-Chloroethyl)ether	120	NA	NA	NA	0.12 U	0.11 U	0.12 U	-	0.11 UJ	-	0.11 UJ	0.12 UJ	0.11 U	-	0.11 U	-	0.12 UJ	-	51 UJ
bis(2-Ethylhexyl)phthalate	9400	70000	NA	NA	0.7 U	0.66 U	0.72 U	-	0.69 UJ	-	**0.22 J-**	0.74 UJ	0.66 U	-	0.63 U	-	**0.23 J-**	-	**90 J-**
Butyl benzylphthalate (BBP)	69000	700000	NA	NA	0.23 U	0.22 U	0.24 U	-	0.23 UJ	-	0.22 UJ	0.25 UJ	0.22 U	-	0.21 U	-	0.23 UJ	-	100 UJ
Carbazole	NA	NA	NA	NA	0.17 U	0.16 U	0.18 U	-	0.17 UJ	-	0.16 UJ	0.19 UJ	0.17 U	-	0.16 U	-	0.17 UJ	-	77 UJ
Chrysene	NA	NA	NA	NA	0.07 U	0.066 U	0.072 U	-	0.069 UJ	-	0.066 UJ	0.074 UJ	0.066 U	-	0.063 U	-	0.069 UJ	-	31 UJ
Dibenz(a,h)anthracene	NA	NA	NA	NA	0.058 U	0.055 U	0.06 U	-	0.057 UJ	-	0.055 UJ	0.062 UJ	0.055 U	-	0.053 U	-	0.058 UJ	-	26 UJ
Dibenzofuran	NA	3500	NA	NA	0.17 U	0.16 U	0.18 U	-	0.17 UJ	-	0.16 UJ	0.19 UJ	0.17 U	-	0.16 U	-	0.17 UJ	-	77 UJ
Diethyl phthalate	NA	2.80E+06	NA	NA	0.46 U	0.44 U	0.48 U	-	0.46 UJ	-	0.44 UJ	0.49 UJ	0.44 U	-	0.42 U	-	0.46 UJ	-	200 UJ
Dimethyl phthalate	NA	NA	NA	NA	0.17 U	0.16 U	0.18 U	-	0.17 UJ	-	0.16 UJ	0.19 UJ	0.17 U	-	0.16 U	-	0.17 UJ	-	77 UJ
Di-n-butylphthalate (DBP)	NA	350000	NA	NA	0.58 U	0.55 U	0.6 U	-	0.57 UJ	-	0.55 UJ	0.62 UJ	**0.061 J**	-	0.53 U	-	0.58 UJ	-	260 UJ
Di-n-octyl phthalate (DnOP)	NA	35000	NA	NA	0.17 U	0.16 U	0.18 U	-	0.17 UJ	-	0.16 UJ	0.19 UJ	0.17 U	-	0.16 U	-	0.17 UJ	-	77 UJ
Fluoranthene	NA	140000	NA	NA	0.046 U	0.044 U	0.048 U	-	0.046 UJ	-	0.044 UJ	0.049 UJ	0.044 U	-	0.042 U	-	0.046 UJ	-	20 UJ
Fluorene	NA	140000	NA	NA	0.029 U	0.027 U	0.03 U	-	0.029 UJ	-	0.027 UJ	0.031 UJ	0.028 U	-	0.026 U	-	0.029 UJ	-	13 UJ
Hexachlorobenzene	82	2800	17	NA	0.058 U	0.055 U	0.06 U	-	0.057 UJ	-	0.055 UJ	0.062 UJ	0.055 U	-	0.053 U	-	0.058 UJ	-	26 UJ
Hexachlorobutadiene	1700	3500	NA	NA	0.058 U	0.055 U	0.06 U	-	0.057 UJ	-	0.055 UJ	0.062 UJ	0.055 U	-	0.053 U	-	0.058 UJ	-	26 UJ
Hexachlorocyclopentadiene	NA	21000	NA	NA	0.12 U	0.11 U	0.12 U	-	0.11 UJ	-	0.11 UJ	0.12 UJ	0.11 U	-	0.11 U	-	0.12 UJ	-	51 R
Hexachloroethane	3300	2500	NA	NA	0.17 U	0.16 U	0.18 U	-	0.17 UJ	-	0.16 UJ	0.19 UJ	0.17 U	-	0.16 U	-	0.17 UJ	-	77 UJ
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	0.046 U	0.044 U	0.048 U	-	0.046 UJ	-	0.044 UJ	0.049 UJ	0.044 U	-	0.042 U	-	0.046 UJ	-	20 UJ
Isophorone	140000	700000	NA	NA	0.17 U	0.16 U	0.18 U	-	0.17 UJ	-	0.16 UJ	0.19 UJ	0.17 U	-	0.16 U	-	0.17 UJ	-	77 UJ
Naphthalene	NA	70000	NA	NA	0.029 U	0.027 U	0.03 U	-	0.029 UJ	-	0.027 UJ	0.031 UJ	0.028 U	-	0.026 U	-	0.029 UJ	-	13 UJ
Nitrobenzene	NA	7000	NA	NA	0.23 U	0.22 U	0.24 U	-	0.23 UJ	-	0.22 UJ	0.25 UJ	0.22 U	-	0.21 U	-	0.23 UJ	-	100 UJ
N-Nitrosodi-n-propylamine	19	NA	NA	NA	0.23 U	0.22 U	0.24 U	-	0.23 UJ	-	0.22 UJ	0.25 UJ	0.22 U	-	0.21 U	-	0.23 UJ	-	100 UJ
N-Nitrosodiphenylamine	27000	NA	NA	NA	0.07 U	0.066 U	0.072 U	-	0.069 UJ	-	0.066 UJ	0.074 UJ	0.066 U	-	0.063 U	-	0.069 UJ	-	31 UJ
Pentachlorophenol	330	18000	4.5	NA	0.46 U	0.44 U	0.48 U	-	0.46 UJ	-	0.44 UJ	0.49 UJ	0.44 U	-	0.42 U	-	0.46 UJ	-	200 UJ
Phenanthrene	NA	NA	NA	NA	0.07 U	0.066 U	0.072 U	-	0.069 UJ	-	0.066 UJ	0.074 UJ	0.066 U	-	0.063 U	-	0.069 UJ	-	31 UJ
Phenol	NA	1.10E+06	NA	NA	0.17 U	0.16 U	0.18 U	-	0.17 UJ	-	0.16 UJ	0.19 UJ	0.17 U	-	0.16 U	-	0.17 UJ	-	77 UJ
Pyrene	NA	110000	NA	NA	0.07 U	0.066 U	0.072 U	-	0.069 UJ	-	0.066 UJ	0.074 UJ	0.066 U	-	0.063 U	-	0.069 UJ	-	31 UJ
cPAHs-TEQ	130	1100	NA	NA	0.049 U	0.046 U	0.05 U	-	0.048 UJ	-	0.046 UJ	0.052 UJ	0.046 U	-	0.044 U	-	0.048 UJ	-	22 UJ

TABLE 2
SUMMARY OF SOIL QUALITY DATA
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name	Action Level				B-07	B-07	B-08	B-08	B-09	B-09	B-10	B-10	B-11	B-11	B-12	B-12	BG-01	BG-01	PP-01
Sample Name					B-07-S2	FD-02	B-08-S1	B-08-S2	B-09-S1	B-09-S2	B-10-S1	B-10-S2	B-11-S1	B-11-S2	B-12-S1	B-12-S2	BG-01-S1	BG-01-S2	PP-01
Sample Date					08/09/2023	08/09/2023	08/10/2023 23H0706-01	08/10/2023	08/09/2023 23H0705-02	08/09/2023	08/09/2023 23H0706-05	08/09/2023	08/10/2023 23H0706-03	08/10/2023	08/10/2023 23H0706-04	08/10/2023	08/09/2023	08/09/2023	08/09/2023
Lab Sample ID	MTCA Method C Direct Contact Cancerous	MTCA Method C Direct Contact Non-Cancerous	MTCA Ecological Indicator Soil Concentrations for Protection of Wildlife	Puget Sound Natural Background Concentrations for Metals	580-130524-9	580-130515-21	580-130524-1	580-130524-2	580-130515-13	580-130515-14	580-130524-24	580-130524-25	580-130524-15	580-130524-16	580-130524-20	580-130524-21	580-130515-8	580-130515-9	580-130515-20
Sample Depth (bgs)					7.5 - 10 (ft)	7.5 - 10 (ft)	3 - 5 (ft)	8 - 10 (ft)	2.5 - 5 (ft)	7.5 - 10 (ft)	2 - 3 (ft)	8 - 10 (ft)	1 - 2 (ft)	8 - 10 (ft)	2 - 4 (ft)	8 - 10 (ft)	2.5 - 5 (ft)	7.5 - 10 (ft)	-
Total Petroleum Hydrocarbons (mg/kg)																			
Gasoline	NA	NA	5000	NA	**2.5 J**	3.8 UJ	4.1 UJ	3.7 UJ	4.3 UJ	4.2 UJ	**0.59 J**	4.5 UJ	**0.57 J**	4.1 UJ	4 UJ	4.5 UJ	3.9 UJ	3.8 UJ	**92 J**
Total Petroleum Hydrocarbons (C10-C24), DRO Silica-Gel Cleanup	NA	NA	6000	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**200000 J** [A]
Total Petroleum Hydrocarbons (C24-C36), MRO Silica-Gel Cleanup	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**230000 J** [A]
Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	NA	NA	6000	NA	**37 J-**	57 UJ	57 UJ	55 UJ	53 UJ	58 UJ	55 UJ	59 UJ	**18 J-**	60 UJ	52 UJ	63 UJ	55 UJ	53 UJ	**200000 J-** [A]
Total Petroleum Hydrocarbons (C24-C36) Motor Oil	NA	NA	NA	NA	**41 J-**	57 UJ	57 UJ	55 UJ	53 UJ	58 UJ	55 UJ	59 UJ	**20 J-**	60 UJ	52 UJ	63 UJ	55 UJ	53 UJ	**230000 J-**
Total Petroleum Hydrocarbons (C10-C36) DRO + MRO	NA	70000[1]	6000	NA	**78 J-**	57 UJ	57 UJ	55 UJ	53 UJ	58 UJ	55 UJ	59 UJ	**38 J-**	60 UJ	52 UJ	63 UJ	55 UJ	53 UJ	**430000 J-** [AC]
VPH (mg/kg)																			
1,2,3-Trichlorobenzene	NA	2800	NA	NA	-	-	1.06 U	-	0.813 U	-	0.981 U	-	0.936 U	-	0.937 U	-	-	-	-
1-Methylnaphthalene	4500	250000	NA	NA	-	-	1.06 U	-	0.813 U	-	0.981 U	-	0.936 U	-	0.937 U	-	-	-	-
Benzene	2400	14000	NA	NA	-	-	1.06 U	-	0.813 U	-	0.981 U	-	0.936 U	-	0.937 U	-	-	-	-
Ethylbenzene	NA	350000	NA	NA	-	-	1.06 U	-	0.813 U	-	0.981 U	-	0.936 U	-	0.937 U	-	-	-	-
Hexane	NA	210000	NA	NA	-	-	1.06 U	-	0.813 U	-	0.981 U	-	0.936 U	-	0.937 U	-	-	-	-
m,p-Xylenes	NA	NA	NA	NA	-	-	2.12 U	-	1.63 U	-	1.96 U	-	1.87 U	-	1.87 U	-	-	-	-
Methyl Tert Butyl Ether (MTBE)	73000	NA	NA	NA	-	-	1.06 U	-	0.813 U	-	0.981 U	-	0.936 U	-	0.937 U	-	-	-	-
Naphthalene	NA	70000	NA	NA	-	-	1.06 U	-	0.813 U	-	0.981 U	-	0.936 U	-	0.937 U	-	-	-	-
N-Decane	NA	NA	NA	NA	-	-	1.06 U	-	0.813 U	-	0.981 U	-	0.936 U	-	0.937 U	-	-	-	-
N-Dodecane	NA	NA	NA	NA	-	-	1.06 U	-	0.813 U	-	0.981 U	-	0.936 U	-	0.937 U	-	-	-	-
Octane	NA	NA	NA	NA	-	-	1.06 U	-	0.813 U	-	0.981 U	-	0.936 U	-	0.937 U	-	-	-	-
o-Xylene	NA	700000	NA	NA	-	-	1.06 U	-	0.813 U	-	0.981 U	-	0.936 U	-	0.937 U	-	-	-	-
Pentane	NA	NA	NA	NA	-	-	1.06 U	-	0.813 U	-	0.981 U	-	0.936 U	-	0.937 U	-	-	-	-
Toluene	NA	280000	NA	NA	-	-	1.06 U	-	0.813 U	-	0.981 U	-	0.936 U	-	0.937 U	-	-	-	-
Volatile Petroleum Hydrocarbons (C5-C6) Aliphatic	NA	NA	NA	NA	-	-	10.6 U	-	8.13 U	-	9.81 U	-	9.36 U	-	9.37 U	-	-	-	-
Volatile Petroleum Hydrocarbons (C6-C8) Aliphatic	NA	NA	NA	NA	-	-	10.6 U	-	8.13 U	-	9.81 U	-	9.36 U	-	9.37 U	-	-	-	-
Volatile Petroleum Hydrocarbons (C8-C10) Aliphatic	NA	NA	NA	NA	-	-	10.6 U	-	8.13 U	-	9.81 U	-	9.36 U	-	9.37 U	-	-	-	-
Volatile Petroleum Hydrocarbons (C10-C12) Aliphatic	NA	NA	NA	NA	-	-	10.6 U	-	8.13 U	-	9.81 U	-	9.36 U	-	9.37 U	-	-	-	-
Volatile Petroleum Hydrocarbons (C8-C10) Aromatic	NA	NA	NA	NA	-	-	10.6 U	-	8.13 U	-	9.81 U	-	9.36 U	-	9.37 U	-	-	-	-
Volatile Petroleum Hydrocarbons (C10-C12) Aromatic	NA	NA	NA	NA	-	-	10.6 U	-	8.13 U	-	9.81 U	-	9.36 U	-	9.37 U	-	-	-	-
Volatile Petroleum Hydrocarbons (C12-C13) Aromatic	NA	NA	NA	NA	-	-	10.6 U	-	8.13 U	-	9.81 U	-	9.36 U	-	9.37 U	-	-	-	-
EPH (mg/kg)																			
Extractable Petroleum Hydrocarbons (C8-C10) Aliphatic	NA	NA	NA	NA	-	-	2.42 UJ	-	2.38 UJ	-	2.25 UJ	-	2.37 UJ	-	2.34 UJ	-	-	-	-
Extractable Petroleum Hydrocarbons (C10-C12) Aliphatic	NA	NA	NA	NA	-	-	2.42 UJ	-	2.38 UJ	-	2.25 UJ	-	2.37 UJ	-	2.34 UJ	-	-	-	-
Extractable Petroleum Hydrocarbons (C12-C16) Aliphatic	NA	NA	NA	NA	-	-	2.42 UJ	-	2.38 UJ	-	2.25 UJ	-	2.37 UJ	-	2.34 UJ	-	-	-	-
Extractable Petroleum Hydrocarbons (C16-C21) Aliphatic	NA	NA	NA	NA	-	-	2.42 UJ	-	2.38 UJ	-	2.25 UJ	-	2.37 UJ	-	2.34 UJ	-	-	-	-
Extractable Petroleum Hydrocarbons (C21-C34) Aliphatic	NA	NA	NA	NA	-	-	**2.47 J-**	-	2.38 UJ	-	**3.78 J-**	-	**7.11 J-**	-	**3.67 J-**	-	-	-	-
Extractable Petroleum Hydrocarbons (C8-C10) Aromatic	NA	NA	NA	NA	-	-	2.42 UJ	-	2.38 UJ	-	2.25 UJ	-	2.37 UJ	-	2.34 UJ	-	-	-	-
Extractable Petroleum Hydrocarbons (C10-C12) Aromatic	NA	NA	NA	NA	-	-	2.42 UJ	-	2.38 UJ	-	2.25 UJ	-	2.37 UJ	-	2.34 UJ	-	-	-	-
Extractable Petroleum Hydrocarbons (C12-C16) Aromatic	NA	NA	NA	NA	-	-	2.42 UJ	-	2.38 UJ	-	2.25 UJ	-	2.37 UJ	-	2.34 UJ	-	-	-	-
Extractable Petroleum Hydrocarbons (C16-C21) Aromatic	NA	NA	NA	NA	-	-	2.42 UJ	-	2.38 UJ	-	2.25 UJ	-	2.37 UJ	-	2.34 UJ	-	-	-	-
Extractable Petroleum Hydrocarbons (C21-C34) Aromatic	NA	NA	NA	NA	-	-	2.42 UJ	-	2.38 UJ	-	**3.37 J-**	-	**8.65 J-**	-	**4.28 J-**	-	-	-	-
Inorganic Compounds (mg/kg)																			
Arsenic	88	1100	132[2]	7	**4**	**5.7**	**4.2**	-	**4.9**	-	**3.4**	**9.6**	**3.3**	-	**2.9**	-	**5**	-	-
Cadmium	NA	3500	14	1	**0.18 J**	**0.31 J**	**0.16 J**	-	**0.17 J**	-	**0.072 J**	**0.31 J**	**0.15 J**	-	**0.045 J**	-	**0.14 J**	-	-
Chromium	NA	5300000[3]	67	48	**35**	**50**	**41**	-	**35**	-	**30**	**58**	**30**	-	**27**	-	**49**	-	-
Copper	NA	140000	217	36	**28 J**	**37 J**	**33 J**	-	**28 J**	-	**14 J**	**45 J**	**16 J**	-	**11 J**	-	**28 J**	-	-
Lead	NA	1000[4]	118	24	**4**	**4.7**	**5**	-	**3.6**	-	**2.8**	**5.6**	**2.3**	-	**2.4**	-	**3.4**	-	-
Mercury	NA	NA	5.5[5]	0.07	**0.059**	**0.051**	**0.073**	-	**0.051**	-	**0.048**	**0.083**	**0.039**	-	**0.039**	-	**0.046**	-	-
Nickel	NA	70000	980	48	**35**	**46**	**40**	-	**36**	-	**29**	**53**	**29**	-	**22**	-	**40**	-	-
Potassium	NA	NA	NA	NA	**930 J**	**1400 J**	**990 J**	-	**1000 J**	-	**600 J**	**1600 J**	**490 J**	-	**340 J**	-	**1000 J**	-	-
Sodium	NA	NA	NA	NA	**360 J**	**500 J**	**310**	-	**390**	-	**240**	**410**	**290**	-	**210**	-	**410**	-	-
Zinc	NA	1.10E+06	360	85	**47**	**64**	**52**	-	**50**	-	**26**	**70**	**26**	-	**17**	-	**48**	-	-
TCLP Inorganic Compounds (mg/L)																			
Arsenic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs (mg/kg)																			
Aroclor-1016 (PCB-1016)	1900	250	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.67 UJ
Aroclor-1221 (PCB-1221)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.67 UJ
Aroclor-1232 (PCB-1232)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.67 UJ
Aroclor-1242 (PCB-1242)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.67 UJ
Aroclor-1248 (PCB-1248)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.67 UJ
Aroclor-1254 (PCB-1254)	66	70	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.67 UJ
Aroclor-1260 (PCB-1260)	66	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.67 UJ
Total Polychlorinated biphenyls (PCBs)	66	NA	0.65	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.67 UJ

TABLE 2
SUMMARY OF SOIL QUALITY DATA
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name	Action Level				S-01	S-02	S-03	S-04	S-04	S-05	S-06	S-07	S-08	S-08	S-10	S-10	S-13	S-13	S-14
Sample Name					S-01-20230808	S-02-20230808	S-03-20230807	S-04-20230808	S-04-20230821	S-05-20230807	S-06-20230807	S-07-20230807	S-08-20230808	S-08-20230821	S-10-20230808	S-10-20230821	S-13-20230808	S-13-20230821	S-14-20230808
Sample Date					08/08/2023	08/08/2023	08/07/2023	08/08/2023	08/21/2023	08/07/2023	08/07/2023	08/07/2023	08/08/2023	08/21/2023	08/08/2023	08/21/2023	08/08/2023	08/21/2023	08/08/2023
Lab Sample ID	MTCA Method C	MTCA Method C	MTCA Ecological Indicator Soil	Puget Sound Natural Background	580-130485-16	580-130485-14	580-130485-4	580-130485-13	580-130816-2	580-130485-3	580-130485-2	580-130485-1	580-130485-21	580-130816-1	580-130485-5	580-130816-3	580-130485-19	580-130816-5	580-130485-12
Sample Depth (bgs)	Direct Contact Cancerous	Direct Contact Non-Cancerous	Concentrations for Protection of Wildlife	Concentrations for Metals	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)
Volatile Organic Compounds (mg/kg)																			
1,1,1,2-Tetrachloroethane	5000	110000	NA	NA	0.024 U	0.019 U	0.025 U	-	0.023 U	0.016 U	-	0.022 U	0.019 U	0.017 U	-	0.019 U	-	0.03 U	0.017 U
1,1,1-Trichloroethane	NA	7.00E+06	NA	NA	0.048 U	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	0.035 U	-	0.038 U	-	0.059 U	0.035 U
1,1,2,2-Tetrachloroethane	660	70000	NA	NA	0.024 U	0.019 U	0.025 U	-	0.023 U	0.016 U	-	0.022 U	0.019 U	0.017 U	-	0.019 U	-	0.03 U	0.017 U
1,1,2-Trichloroethane	2300	14000	NA	NA	0.024 U	0.019 U	0.025 U	-	0.023 U	0.016 U	-	0.022 U	0.019 U	0.017 U	-	0.019 U	-	0.03 U	0.017 U
1,1-Dichloroethane	23000	700000	NA	NA	0.048 U	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	0.035 U	-	0.038 U	-	0.059 U	0.035 U
1,1-Dichloroethene	NA	180000	NA	NA	0.048 U	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	0.035 U	-	**0.024 J**	-	0.059 U	0.035 U
1,1-Dichloropropene	NA	NA	NA	NA	0.048 U	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	0.035 U	-	0.038 U	-	0.059 U	0.035 U
1,2,3-Trichlorobenzene	NA	2800	NA	NA	0.097 U	0.076 U	0.1 U	-	0.091 U	0.062 U	-	0.086 U	0.075 U	0.07 U	-	0.077 U	-	0.12 U	0.069 U
1,2,3-Trichloropropane	4.4	14000	NA	NA	0.048 U	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	0.035 U	-	0.038 U	-	0.059 U	0.035 U
1,2,4-Trichlorobenzene	4500	35000	NA	NA	0.097 U	0.076 U	0.1 U	-	0.091 U	0.062 U	-	0.086 U	0.075 U	0.07 U	-	0.077 U	-	0.12 U	0.069 U
1,2,4-Trimethylbenzene	NA	35000	NA	NA	**0.21 J+**	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	**0.028 J**	-	0.038 U	-	0.059 U	0.035 U
1,2-Dibromo-3-chloropropane (DBCP)	160	700	NA	NA	0.072 U	0.057 U	0.075 U	-	0.068 U	0.047 U	-	0.065 U	0.056 U	0.052 U	-	0.058 U	-	0.089 U	0.052 U
1,2-Dibromoethane (Ethylene Dibromide)	66	32000	NA	NA	0.024 U	0.019 U	0.025 U	-	0.023 U	0.016 U	-	0.022 U	0.019 U	0.017 U	-	0.019 U	-	0.03 U	0.017 U
1,2-Dichlorobenzene	NA	320000	NA	NA	0.048 U	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	0.035 U	-	0.038 U	-	0.059 U	0.035 U
1,2-Dichloroethane	1400	21000	NA	NA	0.024 U	0.019 U	0.025 U	-	0.023 U	0.016 U	-	0.022 U	0.019 U	0.017 U	-	0.019 U	-	0.03 U	0.017 U
1,2-Dichloropropane	3500	140000	NA	NA	0.024 U	0.019 U	0.025 U	-	0.023 U	0.016 U	-	0.022 U	0.019 U	0.017 U	-	0.019 U	-	0.03 U	0.017 U
1,3,5-Trimethylbenzene	NA	35000	NA	NA	**0.12 J+**	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	0.035 U	-	0.038 U	-	0.059 U	0.035 U
1,3-Dichlorobenzene	NA	NA	NA	NA	0.072 U	0.057 U	0.075 U	-	0.068 U	0.047 U	-	0.065 U	0.056 U	0.052 U	-	0.058 U	-	0.089 U	0.052 U
1,3-Dichloropropane	NA	70000	NA	NA	0.072 U	0.057 U	0.075 U	-	0.068 U	0.047 U	-	0.065 U	0.056 U	0.052 U	-	0.058 U	-	0.089 U	0.052 U
1,4-Dichlorobenzene	24000	250000	NA	NA	0.072 U	0.057 U	0.075 U	-	0.068 U	0.047 U	-	0.065 U	0.056 U	0.052 U	-	0.058 U	-	0.089 U	0.052 U
2,2-Dichloropropane	NA	NA	NA	NA	0.048 U	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	0.035 U	-	0.038 U	-	0.059 U	0.035 U
2-Chlorotoluene	NA	70000	NA	NA	0.048 U	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	0.035 U	-	0.038 U	-	0.059 U	0.035 U
2-Phenylbutane (sec-Butylbenzene)	NA	350000	NA	NA	0.048 U	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	0.035 U	-	0.038 U	-	0.059 U	0.035 U
4-Chlorotoluene	NA	70000	NA	NA	0.048 U	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	0.035 U	-	0.038 U	-	0.059 U	0.035 U
Benzene	2400	14000	NA	NA	0.024 U	0.019 U	0.025 U	-	0.023 U	0.016 U	-	0.022 U	0.019 U	0.017 U	-	0.019 U	-	0.03 U	0.017 U
Bromobenzene	NA	28000	NA	NA	0.048 U	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	0.035 U	-	0.038 U	-	0.059 U	0.035 U
Bromodichloromethane	2100	70000	NA	NA	0.048 U	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	0.035 U	-	0.038 U	-	0.059 U	0.035 U
Bromoform	17000	70000	NA	NA	0.048 U	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	0.035 U	-	0.038 U	-	0.059 U	0.035 U
Bromomethane (Methyl Bromide)	NA	4900	NA	NA	0.12 U	0.094 U	0.13 U	-	0.11 U	0.078 U	-	0.11 U	0.093 U	0.087 U	-	0.096 U	-	0.15 U	0.087 U
Carbon tetrachloride	1900	14000	NA	NA	0.024 U	0.019 U	0.025 U	-	0.023 U	0.016 U	-	0.022 U	0.019 U	0.017 U	-	0.019 U	-	0.03 U	0.017 U
Chlorobenzene	NA	70000	NA	NA	0.048 U	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	0.035 U	-	0.038 U	-	0.059 U	0.035 U
Chlorobromomethane	NA	NA	NA	NA	0.048 U	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	0.035 U	-	0.038 U	-	0.059 U	0.035 U
Chloroethane	NA	NA	NA	NA	0.097 U	0.076 U	0.1 U	-	0.091 U	0.062 U	-	0.086 U	0.075 U	0.07 U	-	0.077 U	-	0.12 U	0.069 U
Chloroform (Trichloromethane)	4200	35000	NA	NA	0.024 U	0.019 U	0.025 U	-	0.023 U	0.016 U	-	0.022 U	0.019 U	0.017 U	-	0.019 U	-	0.03 U	0.017 U
Chloromethane (Methyl Chloride)	NA	NA	NA	NA	0.072 U	0.057 U	0.075 U	-	0.068 U	0.047 U	-	0.065 U	0.056 U	0.052 U	-	0.058 U	-	0.089 U	0.052 U
cis-1,2-Dichloroethene	NA	7000	NA	NA	0.072 U	0.057 U	0.075 U	-	0.068 U	0.047 U	-	0.065 U	0.056 U	0.052 U	-	0.058 U	-	0.089 U	0.052 U
cis-1,3-Dichloropropene	NA	NA	NA	NA	0.024 U	0.019 U	0.025 U	-	0.023 U	0.016 U	-	0.022 U	0.019 U	0.017 U	-	0.019 U	-	0.03 U	0.017 U
Cymene (p-Isopropyltoluene)	NA	NA	NA	NA	**0.025 J+**	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	0.035 U	-	0.038 U	-	0.059 U	0.035 U
Dibromochloromethane	1600	70000	NA	NA	0.024 U	0.019 U	0.025 U	-	0.023 U	0.016 U	-	0.022 U	0.019 U	0.017 U	-	0.019 U	-	0.03 U	0.017 U
Dibromomethane	NA	35000	NA	NA	0.048 U	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	0.035 U	-	0.038 U	-	0.059 U	0.035 U
Dichlorodifluoromethane (CFC-12)	NA	700000	NA	NA	0.3 U	0.24 U	0.31 U	-	0.28 U	0.19 U	-	0.27 U	0.23 U	0.22 U	-	0.24 U	-	0.37 U	0.22 U
Ethylbenzene	NA	350000	NA	NA	**0.033 J+**	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	0.035 U	-	0.038 U	-	0.059 U	0.035 U
Hexachlorobutadiene	1700	3500	NA	NA	0.12 U	0.094 U	0.13 U	-	0.11 U	0.078 U	-	0.11 U	0.093 U	0.087 U	-	0.096 U	-	0.15 U	0.087 U
Isopropylbenzene (Cumene)	NA	350000	NA	NA	**0.027 J+**	0.038 U	0.05 U	-	0.046 U	0.031 U	-	**0.0097 J**	0.037 U	0.035 U	-	0.038 U	-	0.059 U	0.035 U
m,p-Xylenes	NA	NA	NA	NA	**0.11 J+**	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	**0.058**	-	0.038 U	-	0.059 U	0.035 U
Methyl Tert Butyl Ether (MTBE)	73000	NA	NA	NA	0.048 U	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	0.035 U	-	0.038 U	-	0.059 U	0.035 U
Methylene chloride (Dichloromethane)	66000	21000	NA	NA	0.3 U	0.24 U	0.31 U	-	0.28 U	0.19 U	-	0.27 U	0.23 U	0.22 U	-	0.24 U	-	0.37 U	0.22 U
Naphthalene	NA	70000	NA	NA	**2.2 J+**	0.14 U	0.19 U	-	0.17 U	0.12 U	-	0.16 U	0.14 U	0.13 U	-	0.14 U	-	0.22 U	0.13 U
n-Butylbenzene	NA	180000	NA	NA	0.048 U	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	0.035 U	-	0.038 U	-	0.059 U	0.035 U
n-Propylbenzene	NA	350000	NA	NA	0.048 U	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	0.035 U	-	0.038 U	-	0.059 U	0.035 U
o-Xylene	NA	700000	NA	NA	**0.13 J+**	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	**0.011 J**	-	0.038 U	-	0.059 U	0.035 U
Styrene	NA	700000	NA	NA	0.048 U	0.038 U	0.05 U	-	0.046 U	0.031 U	-	**0.016 J**	0.037 U	0.035 U	-	0.038 U	-	0.059 U	0.035 U
tert-Butylbenzene	NA	350000	NA	NA	0.048 U	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	0.035 U	-	0.038 U	-	0.059 U	0.035 U
Tetrachloroethene	63000	21000	NA	NA	0.048 U	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	0.035 U	-	0.038 U	-	0.059 U	0.035 U
Toluene	NA	280000	NA	NA	**0.044 J**	0.057 U	0.075 U	-	0.068 U	0.047 U	-	0.065 U	0.056 U	0.052 U	-	0.058 U	-	0.089 U	0.052 U
trans-1,2-Dichloroethene	NA	70000	NA	NA	0.072 U	0.057 U	0.075 U	-	0.068 U	0.047 U	-	0.065 U	0.056 U	0.052 U	-	0.058 U	-	0.089 U	0.052 U
trans-1,3-Dichloropropene	NA	NA	NA	NA	0.048 U	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	0.035 U	-	0.038 U	-	0.059 U	0.035 U
Trichloroethene	2900	1800	NA	NA	0.048 U	0.038 U	0.05 U	-	0.046 U	0.031 U	-	0.043 U	0.037 U	0.035 U	-	0.038 U	-	0.059 U	0.035 U
Trichlorofluoromethane (CFC-11)	NA	1.10E+06	NA	NA	0.097 U	0.076 U	0.1 U	-	0.091 U	0.062 U	-	0.086 U	0.075 U	0.07 U	-	**0.13**	-	0.12 U	0.069 U
Vinyl chloride	88	11000	NA	NA	0.12 U	0.094 U	0.13 U	-	0.11 U	0.078 U	-	0.11 U	0.093 U	0.087 U	-	0.096 U	-	0.15 U	0.087 U

TABLE 2
SUMMARY OF SOIL QUALITY DATA
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name	Action Level				S-01	S-02	S-03	S-04	S-04	S-05	S-06	S-07	S-08	S-08	S-10	S-10	S-13	S-13	S-14
Sample Name					S-01-20230808	S-02-20230808	S-03-20230807	S-04-20230808	S-04-20230821	S-05-20230807	S-06-20230807	S-07-20230807	S-08-20230808	S-08-20230821	S-10-20230808	S-10-20230821	S-13-20230808	S-13-20230821	S-14-20230808
Sample Date					08/08/2023	08/08/2023	08/07/2023	08/08/2023	08/21/2023	08/07/2023	08/07/2023	08/07/2023	08/08/2023	08/21/2023	08/08/2023	08/21/2023	08/08/2023	08/21/2023	08/08/2023
Lab Sample ID	MTCA Method C Direct Contact Cancerous	MTCA Method C Direct Contact Non-Cancerous	MTCA Ecological Indicator Soil Concentrations for Protection of Wildlife	Puget Sound Natural Background Concentrations for Metals	580-130485-16	580-130485-14	580-130485-4	580-130485-13	580-130816-2	580-130485-3	580-130485-2	580-130485-1	580-130485-21	580-130816-1	580-130485-5	580-130816-3	580-130485-19	580-130816-5	580-130485-12
Sample Depth (bgs)					0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)
Semi-Volatile Organic Compounds (mg/kg)																			
1,2,4-Trichlorobenzene	4500	35000	NA	NA	0.055 U	0.051 U	0.056 U	0.053 U	-	0.049 U	0.05 U	0.049 U	0.051 U	-	0.052 U	-	0.059 U	-	0.049 U
1,2-Dichlorobenzene	NA	320000	NA	NA	0.055 U	0.051 U	0.056 U	0.053 U	-	0.049 U	0.05 U	0.049 U	0.051 U	-	0.052 U	-	0.059 U	-	0.049 U
1,3-Dichlorobenzene	NA	NA	NA	NA	0.055 U	0.051 U	0.056 U	0.053 U	-	0.049 U	0.05 U	0.049 U	0.051 U	-	0.052 U	-	0.059 U	-	0.049 U
1,4-Dichlorobenzene	24000	250000	NA	NA	0.055 U	0.051 U	0.056 U	0.053 U	-	0.049 U	0.05 U	0.049 U	0.051 U	-	0.052 U	-	0.059 U	-	0.049 U
1-Methylnaphthalene	4500	250000	NA	NA	**0.017 J**	0.031 U	**0.047**	0.032 U	-	**0.031**	0.03 U	**0.011 J**	0.03 U	-	0.031 U	-	0.035 U	-	0.029 U
2,2'-oxybis(1-Chloropropane)	1900	140000	NA	NA	0.22 U	0.2 U	0.22 U	0.21 U	-	0.2 U	0.2 U	0.19 U	0.2 U	-	0.21 U	-	0.24 U	-	0.2 U
2,4,5-Trichlorophenol	NA	350000	NA	NA	0.22 U	0.2 U	0.22 U	0.21 U	-	0.2 U	0.2 U	0.19 UJ	0.2 U	-	0.21 U	-	0.24 U	-	0.2 U
2,4,6-Trichlorophenol	12000	3500	NA	NA	0.16 U	0.15 U	0.17 U	0.16 U	-	0.15 U	0.15 U	0.15 UJ	0.15 U	-	0.16 U	-	0.18 U	-	0.15 U
2,4-Dichlorophenol	NA	11000	NA	NA	0.22 U	0.2 U	0.22 U	0.21 U	-	0.2 U	0.2 U	0.19 U	0.2 U	-	0.21 U	-	0.24 U	-	0.2 U
2,4-Dimethylphenol	NA	70000	NA	NA	0.22 U	0.2 U	**1.6**	0.21 U	-	0.2 U	0.2 U	0.19 U	0.2 U	-	0.21 U	-	0.24 U	-	0.2 U
2,4-Dinitrophenol	NA	7000	NA	NA	2.2 U	2 U	2.2 U	2.1 U	-	2 U	2 U	1.9 UJ	2 U	-	2.1 U	-	2.4 U	-	2 U
2,4-Dinitrotoluene	420	7000	NA	NA	0.22 U	0.2 U	0.22 U	0.21 U	-	0.2 U	0.2 U	0.19 U	0.2 U	-	0.21 U	-	0.24 U	-	0.2 U
2,6-Dinitrotoluene	88	1100	NA	NA	0.16 U	0.15 U	0.17 U	0.16 U	-	0.15 U	0.15 U	0.15 U	0.15 U	-	0.16 U	-	0.18 U	-	0.15 U
2-Chloronaphthalene	NA	280000	NA	NA	0.027 U	0.026 U	0.028 U	0.027 U	-	0.025 U	0.025 U	0.024 U	0.025 U	-	0.026 U	-	0.029 U	-	0.024 U
2-Chlorophenol	NA	18000	NA	NA	0.22 U	0.2 U	0.22 U	0.21 U	-	0.2 U	0.2 U	0.19 U	0.2 U	-	0.21 U	-	0.24 U	-	0.2 U
2-Methylnaphthalene	NA	14000	NA	NA	**0.017 J**	0.051 U	**0.039 J**	0.053 U	-	**0.04 J**	0.05 U	**0.024 J**	0.051 U	-	0.052 U	-	0.059 U	-	0.049 U
2-Methylphenol (o-Cresol)	NA	180000	NA	NA	**0.042 J**	0.15 U	**0.7**	0.16 U	-	0.15 U	0.15 U	0.15 U	0.15 U	-	0.16 U	-	0.18 U	-	0.15 U
2-Nitroaniline	NA	35000	NA	NA	0.11 U	0.1 U	0.11 U	0.11 U	-	0.099 U	0.1 U	0.097 U	0.1 U	-	0.1 U	-	0.12 U	-	0.098 U
2-Nitrophenol	NA	NA	NA	NA	0.22 U	0.2 U	0.22 U	0.21 U	-	0.2 U	0.2 U	0.19 U	0.2 U	-	0.21 U	-	0.24 U	-	0.2 U
3&4-Methylphenol	NA	NA	NA	NA	**0.078 J**	0.2 U	**2.1**	0.21 U	-	0.2 U	0.2 U	0.19 U	**0.023 J**	-	0.21 U	-	0.24 U	-	0.2 U
3,3'-Dichlorobenzidine	290	NA	NA	NA	22 U	0.41 U	0.44 R	0.43 U	-	0.39 U	0.4 U	0.39 U	0.4 U	-	0.41 U	-	0.47 U	-	0.39 U
3-Nitroaniline	NA	NA	NA	NA	0.33 U	0.31 U	0.33 R	0.32 U	-	0.3 U	0.3 U	0.29 U	0.3 U	-	0.31 U	-	0.35 U	-	**1.1**
4,6-Dinitro-2-methylphenol	NA	280	NA	NA	1.1 U	1 U	1.1 U	1.1 U	-	0.99 U	1 U	0.97 UJ	1 U	-	1 U	-	1.2 U	-	0.98 U
4-Bromophenyl phenyl ether (BDE-3)	NA	NA	NA	NA	0.22 U	0.2 U	0.22 U	0.21 U	-	0.2 U	0.2 U	0.19 U	0.2 U	-	0.21 U	-	0.24 U	-	0.2 U
4-Chloro-3-methylphenol	NA	350000	NA	NA	0.16 U	0.15 U	0.17 U	0.16 U	-	0.15 U	0.15 U	0.15 U	0.15 U	-	0.16 U	-	0.18 U	-	0.15 U
4-Chloroaniline	660	14000	NA	NA	1.6 U	1.5 U	1.7 R	1.6 U	-	1.5 U	1.5 U	1.5 U	1.5 U	-	1.6 U	-	1.8 U	-	1.5 U
4-Chlorophenyl phenyl ether	NA	NA	NA	NA	0.22 U	0.2 U	0.22 U	0.21 U	-	0.2 U	0.2 U	0.19 U	0.2 U	-	0.21 U	-	0.24 U	-	0.2 U
4-Nitroaniline	6600	14000	NA	NA	0.16 U	0.15 U	0.17 R	0.16 U	-	0.15 U	0.15 U	0.15 U	0.15 U	-	0.16 U	-	0.18 U	-	0.15 U
4-Nitrophenol	NA	NA	NA	NA	2.2 U	2 U	2.2 U	2.1 U	-	2 U	2 U	1.9 UJ	2 U	-	2.1 U	-	2.4 U	-	2 U
Acenaphthene	NA	210000	NA	NA	**0.07**	**0.018 J**	**0.19 J**	0.043 U	-	0.039 U	0.04 U	**0.051**	0.04 U	-	0.041 U	-	0.047 U	-	0.039 U
Acenaphthylene	NA	NA	NA	NA	0.027 U	0.026 U	**0.023 J**	0.027 U	-	0.025 U	0.025 U	0.024 U	0.025 U	-	0.026 U	-	0.029 U	-	**0.016 J**
Anthracene	NA	1.10E+06	NA	NA	**0.19**	**0.06 J**	**3.3 J**	0.064 U	-	0.059 U	0.06 U	**0.16**	0.061 U	-	0.062 U	-	0.071 U	-	0.059 U
Benzo(a)anthracene	NA	NA	NA	NA	**1.3 J**	**0.69**	**13**	**0.014 J**	-	**0.11**	0.04 U	**0.98**	0.04 U	-	**0.042**	-	**0.021 J**	-	0.039 U
Benzo(a)pyrene	130	1100	12	NA	**0.8**	**0.34**	**9.4**	0.064 U	-	**0.093**	0.06 U	**0.67**	0.061 U	-	0.062 U	-	0.071 U	-	0.059 U
Benzo(b)fluoranthene	NA	NA	NA	NA	**1.4**	**0.82**	**13**	0.043 U	-	**0.2**	**0.033 J**	**0.97**	0.04 U	-	**0.05**	-	0.047 U	-	0.039 U
Benzo(g,h,i)perylene	NA	NA	NA	NA	**0.14**	**0.081**	**3.5 J**	0.064 U	-	0.059 U	0.06 U	**0.37**	0.061 U	-	0.062 U	-	0.071 U	-	0.059 U
Benzo(k)fluoranthene	NA	NA	NA	NA	0.066 U	0.061 U	**6.5 J**	0.064 U	-	0.059 U	0.06 U	**0.39**	0.061 U	-	0.062 U	-	0.071 U	-	0.059 U
Benzoic acid	NA	1.40E+07	NA	NA	**1.4 J**	4.1 U	**1.5 J**	4.3 U	-	3.9 U	4 U	**1.3 J**	4 U	-	4.1 U	-	**1.6 J**	-	**2.1 J**
Benzyl Alcohol	NA	350000	NA	NA	1.1 U	1 U	**0.2 J**	1.1 U	-	0.99 U	1 U	0.97 U	1 U	-	1 U	-	1.2 U	-	**0.28 J**
bis(2-Chloroethoxy)methane	NA	11000	NA	NA	0.22 U	0.2 U	0.22 U	0.21 U	-	0.2 U	0.2 U	0.19 U	0.2 U	-	0.21 U	-	0.24 U	-	0.2 U
bis(2-Chloroethyl)ether	120	NA	NA	NA	0.11 U	0.1 U	0.11 U	0.11 U	-	0.099 U	0.1 U	0.097 U	0.1 U	-	0.1 U	-	0.12 U	-	0.098 U
bis(2-Ethylhexyl)phthalate	9400	70000	NA	NA	**13 J**	**0.97**	**3 J**	0.64 U	-	0.59 U	0.6 U	**0.27 J**	**0.25 J**	-	0.62 U	-	0.71 U	-	0.59 U
Butyl benzylphthalate (BBP)	69000	700000	NA	NA	**4.1 J**	0.2 U	0.22 U	0.21 U	-	0.2 U	0.2 U	0.19 U	0.2 U	-	0.21 U	-	0.24 U	-	0.2 U
Carbazole	NA	NA	NA	NA	**0.31**	**0.097 J**	**1.5**	0.16 U	-	0.15 U	0.15 U	**0.11 J**	0.15 U	-	**0.014 J**	-	0.18 U	-	0.15 U
Chrysene	NA	NA	NA	NA	**1.7 J**	**0.78**	**14**	**0.017 J**	-	**0.16**	0.06 U	**1.1**	0.061 U	-	**0.045 J**	-	**0.028 J**	-	0.059 U
Dibenz(a,h)anthracene	NA	NA	NA	NA	0.055 U	0.051 U	**1.5 J**	0.053 U	-	0.049 U	0.05 U	**0.11**	0.051 U	-	0.052 U	-	0.059 U	-	0.049 U
Dibenzofuran	NA	3500	NA	NA	**0.033 J**	**0.0075 J**	**0.16 J**	0.16 U	-	0.15 U	0.15 U	**0.021 J**	0.15 U	-	**0.0077 J**	-	0.18 U	-	0.15 U
Diethyl phthalate	NA	2.80E+06	NA	NA	0.44 U	0.41 U	0.44 U	0.43 U	-	0.39 U	0.4 U	0.39 U	0.4 U	-	0.41 U	-	0.47 U	-	0.39 U
Dimethyl phthalate	NA	NA	NA	NA	0.16 U	0.15 U	0.17 U	0.16 U	-	0.15 U	0.15 U	0.15 U	0.15 U	-	**0.0095 J**	-	0.18 U	-	**0.086 J**
Di-n-butylphthalate (DBP)	NA	350000	NA	NA	0.55 U	0.51 U	0.56 U	0.53 U	-	0.49 U	0.5 U	0.49 U	0.51 U	-	0.52 U	-	0.59 U	-	0.49 U
Di-n-octyl phthalate (DnOP)	NA	35000	NA	NA	0.16 U	0.15 U	0.17 U	0.16 U	-	0.15 U	0.15 U	0.15 U	0.15 U	-	0.16 U	-	0.18 U	-	0.15 U
Fluoranthene	NA	140000	NA	NA	**2.9**	**1.2**	**22**	**0.023 J**	-	**0.22**	**0.019 J**	**1.4**	0.04 U	-	**0.098**	-	**0.032 J**	-	**0.02 J**
Fluorene	NA	140000	NA	NA	**0.065**	**0.012 J**	**0.24 J**	0.027 U	-	0.025 U	0.025 U	**0.044**	0.025 U	-	0.026 U	-	0.029 U	-	0.024 U
Hexachlorobenzene	82	2800	17	NA	0.055 U	0.051 U	0.056 U	0.053 U	-	0.049 U	0.05 U	0.049 U	0.051 U	-	0.052 U	-	0.059 U	-	0.049 U
Hexachlorobutadiene	1700	3500	NA	NA	0.055 U	0.051 U	0.056 U	0.053 U	-	0.049 U	0.05 U	0.049 U	0.051 U	-	0.052 U	-	0.059 U	-	0.049 U
Hexachlorocyclopentadiene	NA	21000	NA	NA	0.11 U	0.1 U	0.11 UJ	0.11 U	-	0.099 U	0.1 U	0.097 U	0.1 U	-	0.1 U	-	0.12 U	-	0.098 U
Hexachloroethane	3300	2500	NA	NA	0.16 U	0.15 U	0.17 U	0.16 U	-	0.15 U	0.15 U	0.15 U	0.15 U	-	0.16 U	-	0.18 U	-	0.15 U
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	**0.19**	**0.098**	**4.3 J**	0.043 U	-	**0.058**	0.04 U	**0.38**	0.04 U	-	**0.012 J**	-	0.047 U	-	0.039 U
Isophorone	140000	700000	NA	NA	0.16 U	0.15 U	0.17 U	0.16 U	-	0.15 U	0.15 U	0.15 U	0.15 U	-	0.16 U	-	0.18 U	-	0.15 U
Naphthalene	NA	70000	NA	NA	**0.029**	**0.0058 J**	**0.06**	0.027 U	-	**0.15 J+**	**0.057 J+**	**0.2**	0.025 U	-	**0.0084 J**	-	0.039 U	-	0.024 U
Nitrobenzene	NA	7000	NA	NA	0.22 U	0.2 U	0.22 U	0.21 U	-	0.2 U	0.2 U	0.19 U	0.2 U	-	0.21 U	-	0.24 U	-	0.2 U
N-Nitrosodi-n-propylamine	19	NA	NA	NA	0.22 U	0.2 U	0.22 U	0.21 U	-	0.2 U	0.2 U	0.19 U	0.2 U	-	0.21 U	-	0.24 U	-	0.2 U
N-Nitrosodiphenylamine	27000	NA	NA	NA	0.066 U	0.061 U	0.067 U	0.064 U	-	0.059 U	0.06 U	0.058 U	0.061 U	-	0.062 U	-	0.071 U	-	0.059 U
Pentachlorophenol	330	18000	4.5	NA	0.44 U	0.41 U	0.44 U	0.43 U	-	0.39 U	0.4 U	0.39 UJ	0.4 U	-	0.41 U	-	0.47 U	-	0.39 U
Phenanthrene	NA	NA	NA	NA	**1.1**	**0.36**	**14**	**0.014 J**	-	**0.15**	0.06 U	**0.83**	0.061 U	-	**0.089**	-	**0.021 J**	-	**0.0073 J**
Phenol	NA	1.10E+06	NA	NA	0.16 U	0.15 U	**0.26**	0.16 U	-	0.15 U	0.15 U	0.15 U	0.15 U	-	0.16 U	-	0.18 U	-	**0.057 J**
Pyrene	NA	110000	NA	NA	**2.3**	**1.1**	**20**	**0.017 J**	-	**0.22**	**0.018 J**	**1.4**	0.061 U	-	**0.086**	-	**0.024 J**	-	**0.018 J**
cPAHs-TEQ	130	1100	NA	NA	**1.1 J**	**0.51**	**13 J**	**0.04 J**	-	**0.14**	**0.043 J**	**0.96**	0.042 U	-	**0.05 J**	-	**0.049 J**	-	0.041 U

TABLE 2
SUMMARY OF SOIL QUALITY DATA
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name	Action Level				S-01	S-02	S-03	S-04	S-04	S-05	S-06	S-07	S-08	S-08	S-10	S-10	S-13	S-13	S-14
Sample Name					S-01-20230808	S-02-20230808	S-03-20230807	S-04-20230808	S-04-20230821	S-05-20230807	S-06-20230807	S-07-20230807	S-08-20230808	S-08-20230821	S-10-20230808	S-10-20230821	S-13-20230808	S-13-20230821	S-14-20230808
Sample Date	MTCA Method C Direct Contact Cancerous	MTCA Method C Direct Contact Non-Cancerous	MTCA Ecological Indicator Soil Concentrations for Protection of Wildlife	Puget Sound Natural Background Concentrations for Metals	08/08/2023	08/08/2023	08/07/2023	08/08/2023	08/21/2023	08/07/2023	08/07/2023	08/07/2023	08/08/2023	08/21/2023	08/08/2023	08/21/2023	08/08/2023	08/21/2023	08/08/2023
Lab Sample ID					580-130485-16	580-130485-14	580-130485-4	580-130485-13	580-130816-2	580-130485-3	580-130485-2	580-130485-1	580-130485-21	580-130816-1	580-130485-5	580-130816-3	580-130485-19	580-130816-5	580-130485-12
Sample Depth (bgs)					0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)
Total Petroleum Hydrocarbons (mg/kg)																			
Gasoline	NA	NA	5000	NA	**16**	3.8 U	5 U	-	4.6 U	3.1 U	-	4.3 U	3.7 U	**1.3 J**	-	3.8 U	-	5.9 U	3.5 U
Total Petroleum Hydrocarbons (C10-C24), DRO Silica-Gel Cleanup	NA	NA	6000	NA	**2400 J**	-	**400 J**	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C24-C36), MRO Silica-Gel Cleanup	NA	NA	NA	NA	**2800 J**	-	**800 J**	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	NA	NA	6000	NA	**3600 J+**	**350 J**	**680 J**	**29 J**	-	**23 J**	**14 J**	**260 J**	**130 J**	-	**59 J**	-	**130 J**	-	**460 J**
Total Petroleum Hydrocarbons (C24-C36) Motor Oil	NA	NA	NA	NA	**7600 J+**	**810 J**	**2000 J**	**180 J**	-	**120 J**	**61 J**	**930 J**	**400 J**	-	**340 J**	-	**700 J**	-	**1100 J**
Total Petroleum Hydrocarbons (C10-C36) DRO + MRO	NA	70000[1]	6000	NA	**11200 J+** [AD]	**1160 J**	**2680 J**	**209 J**	-	**143 J**	**75 J**	**1190 J**	**530 J**	-	**399 J**	-	**830 J**	-	**1560 J**
VPH (mg/kg)																			
1,2,3-Trichlorobenzene	NA	2800	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Methylnaphthalene	4500	250000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	2400	14000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	NA	350000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane	NA	210000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
m,p-Xylenes	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Tert Butyl Ether (MTBE)	73000	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	NA	70000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Decane	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Dodecane	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Octane	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	NA	700000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentane	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	NA	280000	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Petroleum Hydrocarbons (C5-C6) Aliphatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Petroleum Hydrocarbons (C6-C8) Aliphatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Petroleum Hydrocarbons (C8-C10) Aliphatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Petroleum Hydrocarbons (C10-C12) Aliphatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Petroleum Hydrocarbons (C8-C10) Aromatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Petroleum Hydrocarbons (C10-C12) Aromatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Petroleum Hydrocarbons (C12-C13) Aromatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EPH (mg/kg)																			
Extractable Petroleum Hydrocarbons (C8-C10) Aliphatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Extractable Petroleum Hydrocarbons (C10-C12) Aliphatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Extractable Petroleum Hydrocarbons (C12-C16) Aliphatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Extractable Petroleum Hydrocarbons (C16-C21) Aliphatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Extractable Petroleum Hydrocarbons (C21-C34) Aliphatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Extractable Petroleum Hydrocarbons (C8-C10) Aromatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Extractable Petroleum Hydrocarbons (C10-C12) Aromatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Extractable Petroleum Hydrocarbons (C12-C16) Aromatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Extractable Petroleum Hydrocarbons (C16-C21) Aromatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Extractable Petroleum Hydrocarbons (C21-C34) Aromatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Inorganic Compounds (mg/kg)																			
Arsenic	88	1100	132[2]	7	**4.5**	**4.7 J-**	**4.6**	**2.6**	-	**2.5**	**2.6**	**46**	**2.6**	-	**3.8 J-**	-	**4.1**	-	**1.6 J**
Cadmium	NA	3500	14	1	**0.17 J**	**0.12 J**	**0.31 J**	**0.14 J**	-	**0.21 J**	**0.21 J**	**1.5**	**0.21 J**	-	**0.3 J-**	-	**0.1 J**	-	**0.13 J**
Chromium	NA	5300000[3]	67	48	**29 J**	**34 J-**	**31 J**	**24 J**	-	**17 J**	**35 J**	**79 J** [A]	**46 J**	-	**38 J**	-	**30 J**	-	**18 J**
Copper	NA	140000	217	36	**12 J**	**11 J-**	**21 J**	**9.1 J**	-	**20 J**	**30 J**	**440 J** [A]	**24 J**	-	**41 J-**	-	**15 J**	-	**13 J**
Lead	NA	1000[4]	118	24	**7.1 J**	**5.8 J-**	**18 J**	**4.6 J**	-	**6.4 J**	**5.2 J**	**53 J**	**3.8 J**	-	**280 J** [A]	-	**7.6 J**	-	**11 J**
Mercury	NA	NA	5.5[5]	0.07	**0.055**	**0.033**	**0.082**	**0.065**	-	**0.033**	**0.044**	**0.035**	**0.022**	-	**0.055**	-	**0.098**	-	**0.026**
Nickel	NA	70000	980	48	**23**	**27 J-**	**25**	**15**	-	**37**	**44**	**41**	**39**	-	**30 J-**	-	**21**	-	**22**
Potassium	NA	NA	NA	NA	**570**	**570**	**800**	**430**	-	**560**	**580**	**1800**	**850**	-	**620 J+**	-	**770**	-	**440**
Sodium	NA	NA	NA	NA	**230**	**170**	**210**	**130**	-	**190**	**220**	**520**	**320**	-	**180**	-	**160**	-	**140**
Zinc	NA	1.10E+06	360	85	**62 J**	**45 J-**	**66 J**	**47 J**	-	**46 J**	**48 J**	**330 J**	**46 J**	-	**100 J**	-	**63 J**	-	**37 J**
TCLP Inorganic Compounds (mg/L)																			
Arsenic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	0.06 U	-	-	-	-
Barium	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	0.37 B	-	-	-	-
Cadmium	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	0.02 U	-	-	-	-
Chromium	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	0.025 U	-	-	-	-
Lead	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	0.043	-	-	-	-
Selenium	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	0.1 U	-	-	-	-
Silver	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	0.05 U	-	-	-	-
PCBs (mg/kg)																			
Aroclor-1016 (PCB-1016)	1900	250	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	66	70	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	66	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Polychlorinated biphenyls (PCBs)	66	NA	0.65	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 2
SUMMARY OF SOIL QUALITY DATA
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name	Action Level				S-15	S-16	S-17	S-18	S-19	S-20	S-21	S-22	S-23	S-24	S-24
Sample Name					S-15-20230808	S-16-20230808	S-17-20230808	S-18-20230808	S-19-20230808	S-20-20230808	S-21-20230808	S-22-20230808	S-23-20230808	S-24-20230808	S-24-20230821
Sample Date					08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/21/2023
Lab Sample ID	MTCA Method C Direct Contact Cancerous	MTCA Method C Direct Contact Non-Cancerous	MTCA Ecological Indicator Soil Concentrations for Protection of Wildlife	Puget Sound Natural Background Concentrations for Metals	580-130485-11	580-130485-8	580-130485-9	580-130485-7	580-130485-15	580-130485-17	580-130485-18	580-130485-20	580-130485-10	580-130485-6	580-130816-4
Sample Depth (bgs)					0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)
Volatile Organic Compounds (mg/kg)															
1,1,1,2-Tetrachloroethane	5000	110000	NA	NA	0.017 U	0.017 U	0.017 U	0.03 U	0.049 U	0.039 U	0.031 U	0.04 U	0.062 U	-	0.016 U
1,1,1-Trichloroethane	NA	7.00E+06	NA	NA	0.034 U	0.035 U	0.034 U	0.061 U	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
1,1,2,2-Tetrachloroethane	660	70000	NA	NA	0.017 U	0.017 U	0.017 U	0.03 U	0.049 U	0.039 U	0.031 U	0.04 U	0.062 U	-	0.016 U
1,1,2-Trichloroethane	2300	14000	NA	NA	0.017 U	0.017 U	0.017 U	0.03 U	0.049 U	0.039 U	0.031 U	0.04 U	0.062 U	-	0.016 U
1,1-Dichloroethane	23000	700000	NA	NA	0.034 U	0.035 U	0.034 U	0.061 U	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
1,1-Dichloroethene	NA	180000	NA	NA	0.034 U	0.035 U	0.034 U	0.061 U	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
1,1-Dichloropropene	NA	NA	NA	NA	0.034 U	0.035 U	0.034 U	0.061 U	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
1,2,3-Trichlorobenzene	NA	2800	NA	NA	0.067 U	0.069 U	0.069 U	0.12 U	0.2 U	0.15 U	0.12 U	0.16 U	0.25 U	-	0.064 U
1,2,3-Trichloropropane	4.4	14000	NA	NA	0.034 U	0.035 U	0.034 U	0.061 U	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
1,2,4-Trichlorobenzene	4500	35000	NA	NA	0.067 U	0.069 U	0.069 U	0.12 U	0.2 U	0.15 U	0.12 U	0.16 U	0.25 U	-	0.064 U
1,2,4-Trimethylbenzene	NA	35000	NA	NA	**0.062 J+**	0.035 U	0.034 U	**0.093 J+**	0.098 U	0.077 U	**0.096 J+**	0.079 U	0.12 U	-	0.032 U
1,2-Dibromo-3-chloropropane (DBCP)	160	700	NA	NA	0.051 U	0.052 U	0.052 U	0.091 U	0.15 U	0.12 U	0.092 U	0.12 U	0.19 U	-	0.048 U
1,2-Dibromoethane (Ethylene Dibromide)	66	32000	NA	NA	0.017 U	0.017 U	0.017 U	0.03 U	0.049 U	0.039 U	0.031 U	0.04 U	0.062 U	-	0.016 U
1,2-Dichlorobenzene	NA	320000	NA	NA	0.034 U	0.035 U	0.034 U	0.061 U	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
1,2-Dichloroethane	1400	21000	NA	NA	0.017 U	0.017 U	0.017 U	0.03 U	0.049 U	0.039 U	0.031 U	0.04 U	0.062 U	-	0.016 U
1,2-Dichloropropane	3500	140000	NA	NA	0.017 U	0.017 U	0.017 U	0.03 U	0.049 U	0.039 U	0.031 U	0.04 U	0.062 U	-	0.016 U
1,3,5-Trimethylbenzene	NA	35000	NA	NA	0.034 U	0.035 U	0.034 U	0.061 U	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
1,3-Dichlorobenzene	NA	NA	NA	NA	0.051 U	0.052 U	0.052 U	0.091 U	0.15 U	0.12 U	0.092 U	0.12 U	0.19 U	-	0.048 U
1,3-Dichloropropane	NA	70000	NA	NA	0.051 U	0.052 U	0.052 U	0.091 U	0.15 U	0.12 U	0.092 U	0.12 U	0.19 U	-	0.048 U
1,4-Dichlorobenzene	24000	250000	NA	NA	0.051 U	0.052 U	0.052 U	0.091 U	0.15 U	0.12 U	0.092 U	0.12 U	0.19 U	-	0.048 U
2,2-Dichloropropane	NA	NA	NA	NA	0.034 U	0.035 U	0.034 U	0.061 U	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
2-Chlorotoluene	NA	70000	NA	NA	0.034 U	0.035 U	0.034 U	0.061 U	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
2-Phenylbutane (sec-Butylbenzene)	NA	350000	NA	NA	0.034 U	0.035 U	0.034 U	0.061 U	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
4-Chlorotoluene	NA	70000	NA	NA	0.034 U	0.035 U	0.034 U	0.061 U	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
Benzene	2400	14000	NA	NA	**0.0041 J**	0.017 U	0.017 U	0.03 U	0.049 U	0.039 U	0.031 U	0.04 U	0.062 U	-	0.016 U
Bromobenzene	NA	28000	NA	NA	0.034 U	0.035 U	0.034 U	0.061 U	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
Bromodichloromethane	2100	70000	NA	NA	0.034 U	0.035 U	0.034 U	0.061 U	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
Bromoform	17000	70000	NA	NA	0.034 U	0.035 U	0.034 U	0.061 U	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
Bromomethane (Methyl Bromide)	NA	4900	NA	NA	0.084 U	0.086 U	0.086 U	0.15 U	0.25 U	0.19 U	0.15 U	0.2 U	0.31 U	-	0.08 U
Carbon tetrachloride	1900	14000	NA	NA	0.017 U	0.017 U	0.017 U	0.03 U	0.049 U	0.039 U	0.031 U	0.04 U	0.062 U	-	0.016 U
Chlorobenzene	NA	70000	NA	NA	0.034 U	0.035 U	0.034 U	0.061 U	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
Chlorobromomethane	NA	NA	NA	NA	0.034 U	0.035 U	0.034 U	0.061 U	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
Chloroethane	NA	NA	NA	NA	0.067 U	0.069 U	0.069 U	0.12 U	0.2 U	0.15 U	0.12 U	0.16 U	0.25 U	-	0.064 U
Chloroform (Trichloromethane)	4200	35000	NA	NA	0.017 U	0.017 U	0.017 U	0.03 U	0.049 U	0.039 U	0.031 U	0.04 U	0.062 U	-	0.016 U
Chloromethane (Methyl Chloride)	NA	NA	NA	NA	0.051 U	0.052 U	0.052 U	0.091 U	0.15 U	0.12 U	0.092 U	0.12 U	0.19 U	-	0.048 U
cis-1,2-Dichloroethene	NA	7000	NA	NA	0.051 U	0.052 U	0.052 U	0.091 U	0.15 U	0.12 U	0.092 U	0.12 U	0.19 U	-	0.048 U
cis-1,3-Dichloropropene	NA	NA	NA	NA	0.017 U	0.017 U	0.017 U	0.03 U	0.049 U	0.039 U	0.031 U	0.04 U	0.062 U	-	0.016 U
Cymene (p-Isopropyltoluene)	NA	NA	NA	NA	**0.24**	0.035 U	0.034 U	0.061 U	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
Dibromochloromethane	1600	70000	NA	NA	0.017 U	0.017 U	0.017 U	0.03 U	0.049 U	0.039 U	0.031 U	0.04 U	0.062 U	-	0.016 U
Dibromomethane	NA	35000	NA	NA	0.034 U	0.035 U	0.034 U	0.061 U	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
Dichlorodifluoromethane (CFC-12)	NA	700000	NA	NA	0.21 U	0.22 U	0.22 U	0.38 U	0.62 U	0.48 U	0.38 U	0.49 U	0.77 U	-	0.2 U
Ethylbenzene	NA	350000	NA	NA	**0.059**	0.035 U	0.034 U	**0.03 J**	0.098 U	0.077 U	**0.028 J**	0.079 U	0.12 U	-	0.032 U
Hexachlorobutadiene	1700	3500	NA	NA	0.084 U	0.086 U	0.086 U	0.15 U	0.25 U	0.19 U	0.15 U	0.2 U	0.31 U	-	0.08 U
Isopropylbenzene (Cumene)	NA	350000	NA	NA	**0.013 J**	0.035 U	0.034 U	0.061 U	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
m,p-Xylenes	NA	NA	NA	NA	**0.076 J+**	0.035 U	0.034 U	**0.1**	0.098 U	0.077 U	**0.099**	0.079 U	0.12 U	-	0.032 U
Methyl Tert Butyl Ether (MTBE)	73000	NA	NA	NA	0.034 U	0.035 U	0.034 U	0.061 U	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
Methylene chloride (Dichloromethane)	66000	21000	NA	NA	0.21 U	0.22 U	0.22 U	0.38 U	0.62 U	0.48 U	0.38 U	0.49 U	0.77 U	-	0.2 U
Naphthalene	NA	70000	NA	NA	0.13 U	0.13 U	0.13 U	0.23 U	0.37 U	**1**	**0.099 J**	0.3 U	0.46 U	-	0.12 U
n-Butylbenzene	NA	180000	NA	NA	0.034 U	0.035 U	0.034 U	0.061 U	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
n-Propylbenzene	NA	350000	NA	NA	0.034 U	0.035 U	0.034 U	0.061 U	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
o-Xylene	NA	700000	NA	NA	**0.035**	0.035 U	0.034 U	**0.036 J**	0.098 U	0.077 U	**0.035 J**	0.079 U	0.12 U	-	0.032 U
Styrene	NA	700000	NA	NA	0.034 U	0.035 U	0.034 U	0.061 U	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
tert-Butylbenzene	NA	350000	NA	NA	0.034 U	0.035 U	0.034 U	0.061 U	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
Tetrachloroethene	63000	21000	NA	NA	0.034 U	0.035 U	0.034 U	0.061 U	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
Toluene	NA	280000	NA	NA	**0.055**	0.052 U	**0.016 J**	**0.029 J**	0.15 U	0.12 U	**0.027 J**	0.12 U	0.19 U	-	0.048 U
trans-1,2-Dichloroethene	NA	70000	NA	NA	0.051 U	0.052 U	0.052 U	0.091 U	0.15 U	0.12 U	0.092 U	0.12 U	0.19 U	-	0.048 U
trans-1,3-Dichloropropene	NA	NA	NA	NA	0.034 U	0.035 U	0.034 U	0.061 U	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
Trichloroethene	2900	1800	NA	NA	0.034 U	0.035 U	0.034 U	0.061 U	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
Trichlorofluoromethane (CFC-11)	NA	1.10E+06	NA	NA	0.067 U	0.069 U	0.069 U	0.12 U	0.2 U	0.15 U	0.12 U	0.16 U	0.25 U	-	0.064 U
Vinyl chloride	88	11000	NA	NA	0.084 U	0.086 U	0.086 U	0.15 U	0.25 U	0.19 U	0.15 U	0.2 U	0.31 U	-	0.08 U

TABLE 2
SUMMARY OF SOIL QUALITY DATA
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name	Action Level				S-15	S-16	S-17	S-18	S-19	S-20	S-21	S-22	S-23	S-24	S-24
Sample Name					S-15-20230808	S-16-20230808	S-17-20230808	S-18-20230808	S-19-20230808	S-20-20230808	S-21-20230808	S-22-20230808	S-23-20230808	S-24-20230808	S-24-20230821
Sample Date	MTCA Method C Direct Contact Cancerous	MTCA Method C Direct Contact Non-Cancerous	MTCA Ecological Indicator Soil Concentrations for Protection of Wildlife	Puget Sound Natural Background Concentrations for Metals	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/21/2023
Lab Sample ID					580-130485-11	580-130485-8	580-130485-9	580-130485-7	580-130485-15	580-130485-17	580-130485-18	580-130485-20	580-130485-10	580-130485-6	580-130816-4
Sample Depth (bgs)					0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)
Semi-Volatile Organic Compounds (mg/kg)															
1,2,4-Trichlorobenzene	4500	35000	NA	NA	1.3 U	0.051 U	0.05 U	0.049 U	0.071 U	0.066 R	0.059 U	0.69 U	0.098 U	0.05 U	-
1,2-Dichlorobenzene	NA	320000	NA	NA	1.3 U	0.051 U	0.05 U	0.049 U	0.071 U	0.066 R	0.059 U	0.69 U	0.098 U	0.05 U	-
1,3-Dichlorobenzene	NA	NA	NA	NA	1.3 U	0.051 U	0.05 U	0.049 U	0.071 U	0.066 R	0.059 U	0.69 U	0.098 U	0.05 U	-
1,4-Dichlorobenzene	24000	250000	NA	NA	1.3 U	0.051 U	0.05 U	0.049 U	0.071 U	0.066 R	0.059 U	0.69 U	0.098 U	0.05 U	-
1-Methylnaphthalene	4500	250000	NA	NA	0.81 U	0.03 U	0.03 U	0.03 U	0.043 U	0.04 R	0.036 U	0.41 U	**0.036 J**	0.03 U	-
2,2'-oxybis(1-Chloropropane)	1900	140000	NA	NA	5.4 U	0.2 U	0.2 U	0.2 U	0.28 U	0.27 R	0.24 U	2.7 U	0.39 U	0.2 U	-
2,4,5-Trichlorophenol	NA	350000	NA	NA	5.4 U	0.2 U	0.2 U	0.2 U	0.28 U	0.27 R	0.24 U	2.7 U	0.39 U	0.2 U	-
2,4,6-Trichlorophenol	12000	3500	NA	NA	4 U	0.15 U	0.15 U	0.15 U	0.21 U	0.2 R	0.18 U	2.1 U	0.29 U	0.15 U	-
2,4-Dichlorophenol	NA	11000	NA	NA	5.4 U	0.2 U	0.2 U	0.2 U	0.28 U	0.27 R	0.24 U	2.7 U	0.39 U	0.2 U	-
2,4-Dimethylphenol	NA	70000	NA	NA	5.4 U	0.2 U	0.2 U	0.2 U	0.28 U	0.27 R	0.24 U	2.7 U	0.39 U	0.2 U	-
2,4-Dinitrophenol	NA	7000	NA	NA	54 U	2 U	2 U	2 U	2.8 U	2.7 R	2.4 U	27 U	3.9 U	2 U	-
2,4-Dinitrotoluene	420	7000	NA	NA	5.4 U	0.2 U	0.2 U	0.2 U	0.28 U	0.27 R	0.24 U	2.7 U	0.39 U	0.2 U	-
2,6-Dinitrotoluene	88	1100	NA	NA	4 U	0.15 U	0.15 U	0.15 U	0.21 U	0.2 R	0.18 U	2.1 U	0.29 U	0.15 U	-
2-Chloronaphthalene	NA	280000	NA	NA	0.67 U	0.025 U	0.025 U	0.025 U	0.035 U	0.033 R	0.03 U	0.34 U	0.049 U	0.025 U	-
2-Chlorophenol	NA	18000	NA	NA	5.4 U	0.2 U	0.2 U	0.2 U	0.28 U	0.27 R	0.24 U	2.7 U	0.39 U	0.2 U	-
2-Methylnaphthalene	NA	14000	NA	NA	1.3 U	0.051 U	0.05 U	0.049 U	0.071 U	0.066 R	0.059 U	0.69 U	**0.073 J**	0.05 U	-
2-Methylphenol (o-Cresol)	NA	180000	NA	NA	**3.7 J**	0.15 U	0.15 U	0.15 U	0.21 U	0.2 UJ	0.18 U	2.1 U	0.29 U	0.15 U	-
2-Nitroaniline	NA	35000	NA	NA	2.7 U	0.1 U	0.1 U	0.099 U	0.14 U	0.13 R	0.12 U	1.4 U	0.2 U	0.099 U	-
2-Nitrophenol	NA	NA	NA	NA	5.4 U	0.2 U	0.2 U	0.2 U	0.28 U	0.27 R	0.24 U	2.7 U	0.39 U	0.2 U	-
3&4-Methylphenol	NA	NA	NA	NA	**2.8 J**	0.2 U	**0.027 J**	0.2 U	0.28 U	0.27 R	0.24 U	2.7 U	**0.063 J**	0.2 U	-
3,3'-Dichlorobenzidine	290	NA	NA	NA	11 U	0.4 U	0.4 U	0.39 U	0.57 U	0.53 R	0.47 U	5.5 U	0.79 U	0.4 U	-
3-Nitroaniline	NA	NA	NA	NA	8.1 U	0.3 U	0.3 U	0.3 U	**0.82**	0.4 R	0.36 U	4.1 U	0.59 U	0.3 U	-
4,6-Dinitro-2-methylphenol	NA	280	NA	NA	27 U	1 U	1 U	0.99 U	1.4 U	1.3 R	1.2 U	14 U	2 U	0.99 U	-
4-Bromophenyl phenyl ether (BDE-3)	NA	NA	NA	NA	5.4 U	0.2 U	0.2 U	0.2 U	0.28 U	0.27 R	0.24 U	2.7 U	0.39 U	0.2 U	-
4-Chloro-3-methylphenol	NA	350000	NA	NA	4 U	0.15 U	0.15 U	0.15 U	0.21 U	0.2 UJ	0.18 U	2.1 U	0.29 U	0.15 U	-
4-Chloroaniline	660	14000	NA	NA	40 U	1.5 U	1.5 U	1.5 U	2.1 U	2 R	1.8 U	21 U	2.9 U	1.5 U	-
4-Chlorophenyl phenyl ether	NA	NA	NA	NA	5.4 U	0.2 U	0.2 U	0.2 U	0.28 U	0.27 R	0.24 U	2.7 U	0.39 U	0.2 U	-
4-Nitroaniline	6600	14000	NA	NA	4 U	0.15 U	0.15 U	0.15 U	0.21 U	0.2 R	0.18 U	2.1 U	0.29 U	0.15 U	-
4-Nitrophenol	NA	NA	NA	NA	54 U	2 U	2 U	2 U	2.8 U	2.7 R	2.4 U	27 U	3.9 U	2 U	-
Acenaphthene	NA	210000	NA	NA	1.1 U	0.04 U	0.04 U	0.039 U	0.057 U	0.053 R	0.047 U	0.55 U	**0.043 J**	0.04 U	-
Acenaphthylene	NA	NA	NA	NA	0.67 U	0.025 U	0.025 U	0.025 U	0.035 U	0.033 R	0.03 U	0.34 U	0.049 U	0.025 U	-
Anthracene	NA	1.10E+06	NA	NA	1.6 U	0.061 U	0.06 U	0.059 U	0.085 U	0.08 R	0.071 U	0.82 U	**0.06 J**	0.06 U	-
Benzo(a)anthracene	NA	NA	NA	NA	1.1 U	0.04 U	0.04 U	0.039 U	**0.04 J**	0.053 R	**0.021 J**	0.55 U	**0.32**	0.04 U	-
Benzo(a)pyrene	130	1100	12	NA	1.6 U	0.061 U	0.06 U	0.059 U	**0.054 J**	0.08 R	0.071 U	0.82 U	**0.25**	**0.024 J**	-
Benzo(b)fluoranthene	NA	NA	NA	NA	1.1 U	0.04 U	0.04 U	**0.022 J**	**0.074**	0.053 R	0.047 U	0.55 U	**0.41**	**0.022 J**	-
Benzo(g,h,i)perylene	NA	NA	NA	NA	1.6 U	0.061 U	0.06 U	0.059 U	0.085 U	0.08 R	0.071 U	0.82 U	**0.081 J**	0.06 U	-
Benzo(k)fluoranthene	NA	NA	NA	NA	1.6 U	0.061 U	0.06 U	0.059 U	0.085 U	0.08 R	0.071 U	0.82 U	0.12 U	0.06 U	-
Benzoic acid	NA	1.40E+07	NA	NA	110 U	4 U	4 U	3.9 U	5.7 U	5.3 R	4.7 U	55 U	7.9 U	4 U	-
Benzyl Alcohol	NA	350000	NA	NA	27 U	1 U	1 U	0.99 U	1.4 U	1.3 R	1.2 U	14 U	**0.11 J**	0.99 U	-
bis(2-Chloroethoxy)methane	NA	11000	NA	NA	5.4 U	0.2 U	0.2 U	0.2 U	0.28 U	0.27 R	0.24 U	2.7 U	0.39 U	0.2 U	-
bis(2-Chloroethyl)ether	120	NA	NA	NA	2.7 U	0.1 U	0.1 U	0.099 U	0.14 U	0.13 R	0.12 U	1.4 U	0.2 U	0.099 U	-
bis(2-Ethylhexyl)phthalate	9400	70000	NA	NA	16 U	**0.21 J**	**0.13 J**	**0.12 J**	0.85 U	0.8 U	0.71 U	8.2 U	**11**	0.6 U	-
Butyl benzylphthalate (BBP)	69000	700000	NA	NA	5.4 U	0.2 U	0.2 U	0.2 U	0.28 U	0.27 R	0.24 U	2.7 U	0.39 U	0.2 U	-
Carbazole	NA	NA	NA	NA	4 U	0.15 U	0.15 U	0.15 U	0.21 U	0.2 R	0.18 U	2.1 U	**0.043 J**	0.15 U	-
Chrysene	NA	NA	NA	NA	1.6 U	0.061 U	**0.015 J**	**0.016 J**	**0.054 J**	0.08 R	**0.027 J**	0.82 U	**0.35**	**0.018 J**	-
Dibenz(a,h)anthracene	NA	NA	NA	NA	1.3 U	0.051 U	0.05 U	0.049 U	0.071 U	0.066 R	0.059 U	0.69 U	0.098 U	0.05 U	-
Dibenzofuran	NA	3500	NA	NA	4 U	0.15 U	0.15 U	0.15 U	0.21 U	0.2 R	0.18 U	2.1 U	**0.047 J**	0.15 U	-
Diethyl phthalate	NA	2.80E+06	NA	NA	11 U	0.4 U	0.4 U	0.39 U	0.57 U	0.53 R	0.47 U	5.5 U	0.79 U	0.4 U	-
Dimethyl phthalate	NA	NA	NA	NA	4 U	0.15 U	0.15 U	0.15 U	0.21 U	0.2 R	0.18 U	2.1 U	0.29 U	0.15 U	-
Di-n-butylphthalate (DBP)	NA	350000	NA	NA	13 U	0.51 U	0.5 U	0.49 U	0.71 U	0.66 R	0.59 U	6.9 U	0.98 U	0.5 U	-
Di-n-octyl phthalate (DnOP)	NA	35000	NA	NA	4 U	0.15 U	0.15 U	0.15 U	0.21 U	0.2 R	0.18 U	2.1 U	0.29 U	0.15 U	-
Fluoranthene	NA	140000	NA	NA	1.1 U	0.04 U	**0.013 J**	**0.02 J**	**0.067**	0.053 R	**0.03 J**	0.55 U	**0.67**	**0.019 J**	-
Fluorene	NA	140000	NA	NA	0.67 U	0.025 U	0.025 U	0.025 U	0.035 U	0.033 R	0.03 U	0.34 U	**0.033 J**	0.025 U	-
Hexachlorobenzene	82	2800	17	NA	1.3 U	0.051 U	0.05 U	0.049 U	0.071 U	0.066 R	0.059 U	0.69 U	0.098 U	0.05 U	-
Hexachlorobutadiene	1700	3500	NA	NA	1.3 U	0.051 U	0.05 U	0.049 U	0.071 U	0.066 R	0.059 U	0.69 U	0.098 U	0.05 U	-
Hexachlorocyclopentadiene	NA	21000	NA	NA	2.7 U	0.1 U	0.1 U	0.099 U	0.14 U	0.13 R	0.12 U	1.4 U	0.2 U	0.099 U	-
Hexachloroethane	3300	2500	NA	NA	4 U	0.15 U	0.15 U	0.15 U	0.21 U	0.2 R	0.18 U	2.1 U	0.29 U	0.15 U	-
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	1.1 U	0.04 U	0.04 U	0.039 U	0.057 U	0.053 R	0.047 U	0.55 U	**0.082**	0.04 U	-
Isophorone	140000	700000	NA	NA	4 U	0.15 U	0.15 U	0.15 U	0.21 U	0.2 U	0.18 U	2.1 U	0.29 U	0.15 U	-
Naphthalene	NA	70000	NA	NA	0.67 U	0.025 U	0.025 U	0.025 U	0.035 U	**0.05 J**	**0.09 J+**	**0.083 J**	**0.049**	0.025 U	-
Nitrobenzene	NA	7000	NA	NA	5.4 U	0.2 U	0.2 U	0.2 U	0.28 U	0.27 U	0.24 U	2.7 U	0.39 U	0.2 U	-
N-Nitrosodi-n-propylamine	19	NA	NA	NA	5.4 U	0.2 U	0.2 U	0.2 U	0.28 U	0.27 R	0.24 U	2.7 U	0.39 U	0.2 U	-
N-Nitrosodiphenylamine	27000	NA	NA	NA	1.6 U	0.061 U	0.06 U	0.059 U	0.085 U	0.08 R	0.071 U	0.82 U	0.12 U	0.06 U	-
Pentachlorophenol	330	18000	4.5	NA	11 U	0.4 U	0.4 U	0.39 U	0.57 U	0.53 R	0.47 U	5.5 U	0.79 U	0.4 U	-
Phenanthrene	NA	NA	NA	NA	1.6 U	0.061 U	**0.0087 J**	**0.0084 J**	**0.031 J**	0.08 R	0.071 U	0.82 U	**0.42**	**0.0067 J**	-
Phenol	NA	1.10E+06	NA	NA	**0.72 J**	**0.15**	0.15 U	0.15 U	0.21 U	0.2 UJ	0.18 U	2.1 U	0.29 U	0.15 U	-
Pyrene	NA	110000	NA	NA	1.6 U	0.061 U	0.06 U	**0.014 J**	**0.054 J**	0.08 R	**0.028 J**	0.82 U	**0.74**	**0.018 J**	-
cPAHs-TEQ	130	1100	NA	NA	1.1 U	0.042 U	**0.042 J**	**0.041 J**	**0.077 J**	0.11 R	**0.049 J**	0.57 U	**0.35**	**0.036 J**	-

TABLE 2
SUMMARY OF SOIL QUALITY DATA
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name	Action Level				S-15	S-16	S-17	S-18	S-19	S-20	S-21	S-22	S-23	S-24	S-24
Sample Name					S-15-20230808	S-16-20230808	S-17-20230808	S-18-20230808	S-19-20230808	S-20-20230808	S-21-20230808	S-22-20230808	S-23-20230808	S-24-20230808	S-24-20230821
Sample Date	MTCA Method C Direct Contact Cancerous	MTCA Method C Direct Contact Non-Cancerous	MTCA Ecological Indicator Soil Concentrations for Protection of Wildlife	Puget Sound Natural Background Concentrations for Metals	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/08/2023	08/21/2023
Lab Sample ID					580-130485-11	580-130485-8	580-130485-9	580-130485-7	580-130485-15	580-130485-17	580-130485-18	580-130485-20	580-130485-10	580-130485-6	580-130816-4
Sample Depth (bgs)					0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)	0 - 0.5 (ft)
Total Petroleum Hydrocarbons (mg/kg)															
Gasoline	NA	NA	5000	NA	**15**	3.5 U	3.4 U	6.1 U	9.8 U	8.7 U	6.1 U	**7.9 J+**	12 U	-	3.2 U
Total Petroleum Hydrocarbons (C10-C24), DRO Silica-Gel Cleanup	NA	NA	6000	NA	**41000 J** [A]	-	-	-	-	**1300 J**	-	**800 J**	-	-	-
Total Petroleum Hydrocarbons (C24-C36), MRO Silica-Gel Cleanup	NA	NA	NA	NA	**8000 J**	-	-	-	-	**2000 J**	-	**1600 J**	-	-	-
Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	NA	NA	6000	NA	**45000 J** [A]	**520 J**	**71 J**	**38 J**	**49 J**	**2600 J**	**70 J**	**1600 J**	**630 J**	**35 J**	-
Total Petroleum Hydrocarbons (C24-C36) Motor Oil	NA	NA	NA	NA	**17000 J**	**1000 J**	**320 J**	**200 J**	**360 J**	**5600 J**	**320 J**	**4900 J**	**1600 J**	**190 J**	-
Total Petroleum Hydrocarbons (C10-C36) DRO + MRO	NA	70000[1]	6000	NA	**62000 J** [AC]	**1520 J**	**391**	**238**	**409**	**8200 J** [A]	**390 J**	**6500 J** [A]	**2230 J**	**225 J**	-
VPH (mg/kg)															
1,2,3-Trichlorobenzene	NA	2800	NA	NA	-	-	-	-	-	-	-	-	-	-	-
1-Methylnaphthalene	4500	250000	NA	NA	-	-	-	-	-	-	-	-	-	-	-
Benzene	2400	14000	NA	NA	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	NA	350000	NA	NA	-	-	-	-	-	-	-	-	-	-	-
Hexane	NA	210000	NA	NA	-	-	-	-	-	-	-	-	-	-	-
m,p-Xylenes	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
Methyl Tert Butyl Ether (MTBE)	73000	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	NA	70000	NA	NA	-	-	-	-	-	-	-	-	-	-	-
N-Decane	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
N-Dodecane	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
Octane	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	NA	700000	NA	NA	-	-	-	-	-	-	-	-	-	-	-
Pentane	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
Toluene	NA	280000	NA	NA	-	-	-	-	-	-	-	-	-	-	-
Volatile Petroleum Hydrocarbons (C5-C6) Aliphatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
Volatile Petroleum Hydrocarbons (C6-C8) Aliphatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
Volatile Petroleum Hydrocarbons (C8-C10) Aliphatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
Volatile Petroleum Hydrocarbons (C10-C12) Aliphatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
Volatile Petroleum Hydrocarbons (C8-C10) Aromatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
Volatile Petroleum Hydrocarbons (C10-C12) Aromatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
Volatile Petroleum Hydrocarbons (C12-C13) Aromatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
EPH (mg/kg)															
Extractable Petroleum Hydrocarbons (C8-C10) Aliphatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
Extractable Petroleum Hydrocarbons (C10-C12) Aliphatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
Extractable Petroleum Hydrocarbons (C12-C16) Aliphatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
Extractable Petroleum Hydrocarbons (C16-C21) Aliphatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
Extractable Petroleum Hydrocarbons (C21-C34) Aliphatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
Extractable Petroleum Hydrocarbons (C8-C10) Aromatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
Extractable Petroleum Hydrocarbons (C10-C12) Aromatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
Extractable Petroleum Hydrocarbons (C12-C16) Aromatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
Extractable Petroleum Hydrocarbons (C16-C21) Aromatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
Extractable Petroleum Hydrocarbons (C21-C34) Aromatic	NA	NA	NA	NA	-	-	-	-	-	-	-	-	-	-	-
Inorganic Compounds (mg/kg)															
Arsenic	88	1100	132[2]	7	**3.3**	**5.4**	**2.3**	**6.5**	**3**	**11**	**4.6**	**6.1**	**3.8 J**	**2.6**	-
Cadmium	NA	3500	14	1	**0.33 J**	**0.64 J**	**0.17 J**	**1.1**	**0.12 J**	**0.83 J**	**0.18 J**	**0.68 J**	**0.58 J**	**0.2 J**	-
Chromium	NA	5300000[3]	67	48	**40 J**	**42 J**	**22 J**	**54 J**	**32 J**	**36 J**	**39 J**	**39 J**	**43 J**	**34 J**	-
Copper	NA	140000	217	36	**74 J**	**210 J**	**31 J**	**58 J**	**18 J**	**54 J**	**15 J**	**30 J**	**54 J**	**20 J**	-
Lead	NA	1000[4]	118	24	**280 J** [A]	**19 J**	**22 J**	**31 J**	**9.2 J**	**50 J**	**7.9 J**	**66 J**	**37 J**	**5.7 J**	-
Mercury	NA	NA	5.5[5]	0.07	**0.029**	**0.051**	**0.033**	**0.042**	**0.09**	**0.1**	**0.1**	**0.074**	**0.049**	**0.023 J**	-
Nickel	NA	70000	980	48	**37**	**44**	**23**	**60**	**24**	**31**	**27**	**34**	**33**	**39**	-
Potassium	NA	NA	NA	NA	**950**	**1700**	**660**	**1500**	**410**	**730**	**760**	**680**	**850**	**670**	-
Sodium	NA	NA	NA	NA	**270**	**320**	**240**	**520**	**170**	**190**	**140**	**180**	**1800**	**220**	-
Zinc	NA	1.10E+06	360	85	**110 J**	**200 J**	**65 J**	**160 J**	**55 J**	**320 J**	**66 J**	**330 J**	**110 J**	**42 J**	-
TCLP Inorganic Compounds (mg/L)															
Arsenic	NA	NA	NA	NA	0.012 J	-	-	-	-	-	-	-	-	-	-
Barium	NA	NA	NA	NA	0.21 B	-	-	-	-	-	-	-	-	-	-
Cadmium	NA	NA	NA	NA	0.001 J	-	-	-	-	-	-	-	-	-	-
Chromium	NA	NA	NA	NA	0.022 J	-	-	-	-	-	-	-	-	-	-
Lead	NA	NA	NA	NA	0.2	-	-	-	-	-	-	-	-	-	-
Selenium	NA	NA	NA	NA	0.1 U	-	-	-	-	-	-	-	-	-	-
Silver	NA	NA	NA	NA	0.05 U	-	-	-	-	-	-	-	-	-	-
PCBs (mg/kg)															
Aroclor-1016 (PCB-1016)	1900	250	NA	NA	-	-	0.041 U	-	-	-	-	-	0.39 U	-	-
Aroclor-1221 (PCB-1221)	NA	NA	NA	NA	-	-	0.041 U	-	-	-	-	-	0.39 U	-	-
Aroclor-1232 (PCB-1232)	NA	NA	NA	NA	-	-	0.041 U	-	-	-	-	-	0.39 U	-	-
Aroclor-1242 (PCB-1242)	NA	NA	NA	NA	-	-	0.041 U	-	-	-	-	-	0.39 U	-	-
Aroclor-1248 (PCB-1248)	NA	NA	NA	NA	-	-	0.041 U	-	-	-	-	-	0.39 U	-	-
Aroclor-1254 (PCB-1254)	66	70	NA	NA	-	-	0.041 U	-	-	-	-	-	0.39 U	-	-
Aroclor-1260 (PCB-1260)	66	NA	NA	NA	-	-	0.041 U	-	-	-	-	-	0.39 U	-	-
Total Polychlorinated biphenyls (PCBs)	66	NA	0.65	NA	-	-	0.041 U	-	-	-	-	-	0.39 U	-	-

TABLE 2
SUMMARY OF SOIL QUALITY DATA
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

ABBREVIATIONS AND NOTES:

-: not analyzed or not available
(1) Concentration likely exceeds residual saturation.
(2) Assumed to be primarily in arsenate (arsenic V/pentavalent) form in the unsaturated zone.
(3) Chromium detections are assumed to be in trivalent form since no source of hexavalent chrome has been identified.
(4) based on Method A industrial values.
(5) Assumed to be primarily in inorganic form.
J: value is an estimate
J+: value is an estimate, biased high
J-: value is an estimate, biased low
mg/kg: milligrams per kilogram
MTCA: Model Toxics Control Act
NA: No Action level established
R: The sample results were rejected as unusable; the compound may or may not be present in the sample.
U: not detected, value is the laboratory reporting limit

Bold *values indicate a detected concentration.*
Puget Sound natural background concentrations for metals per Natural Background Soil Metals Concentrations in Washington state, Publication No. 94-115, October 1994.
exceedances below Puget Sound natural background concentrations for metals were not included
Light purple shading indicates a detected analyte concentration exceeding MTCA Method C Direct Contact Cancerous Cleanup Level.
Dark purple shading indicates a detected analyte concentration exceeding MTCA Method C Direct Contact Non-Cancerous Cleanup Level.
Orange shading indicates a detected analyte concentration exceeding MTCA Ecological Indicator Soil Concentrations for Protection of Wildlife.

When multiple action levels are exceeded a bracketed bold superscript corresponding to each screening level is denoted. A: MTCA Ecological Indicator Soil Concentrations for Protection of Wildlife; B: MTCA Method C Direct Contact Cancerous; C: MTCA Method C Direct Contact Non-Cancerous.

TABLE 3
SUMMARY OF SURFACE WATER QUALITY DATA
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name	Action Level					SW-11	SW-12
Sample Name	Surface Water Method B	Surface Water Method B	Surface Water Aquatic Life	Surface Water Aquatic Life	Surface Water Human Health	SW-11-20230808	SW-12-20230808
Sample Date	Cancerous	Noncancer	Fresh/Acute	Fresh/Chronic	Fresh Water	08/08/2023	08/08/2023
Lab Sample ID						580-130492-2	580-130492-1
Volatile Organic Compounds (ug/L)							
1,1,1,2-Tetrachloroethane	NA	NA	NA	NA	NA	1 U	1 U
1,1,1-Trichloroethane	NA	930000	NA	NA	47000	1 U	1 U
1,1,2,2-Tetrachloroethane	6.5	10000	NA	NA	0.12	1 U	1 U
1,1,2-Trichloroethane	25	2300	NA	NA	0.44	1 U	1 U
1,1-Dichloroethane	NA	NA	NA	NA	NA	1 U	1 U
1,1-Dichloroethene	NA	23000	NA	NA	1200	1 U	1 U
1,1-Dichloropropene	NA	NA	NA	NA	NA	1 U	1 U
1,2,3-Trichlorobenzene	NA	NA	NA	NA	NA	2 U	2 U
1,2,3-Trichloropropane	NA	NA	NA	NA	NA	1 U	1 U
1,2,4-Trichlorobenzene	2	230	NA	NA	0.12	1 U	1 U
1,2,4-Trimethylbenzene	NA	NA	NA	NA	NA	**0.68 J**	3 U
1,2-Dibromo-3-chloropropane (DBCP)	NA	NA	NA	NA	NA	3 U	3 U
1,2-Dibromoethane (Ethylene Dibromide)	NA	NA	NA	NA	NA	1 U	1 U
1,2-Dichlorobenzene	NA	4200	NA	NA	2000	1 U	1 U
1,2-Dichloroethane	59	13000	NA	NA	9.3	1 U	1 U
1,2-Dichloropropane	43	25000	NA	NA	0.71	1 U	1 U
1,3,5-Trimethylbenzene	NA	NA	NA	NA	NA	1 U	1 U
1,3-Dichlorobenzene	NA	NA	NA	NA	13	1 U	1 U
1,3-Dichloropropane	NA	NA	NA	NA	NA	1 U	1 U
1,4-Dichlorobenzene	22	3300	NA	NA	460	1 U	1 U
2,2-Dichloropropane	NA	NA	NA	NA	NA	1 U	1 U
2-Chlorotoluene	NA	NA	NA	NA	NA	1 U	1 U
2-Phenylbutane (sec-Butylbenzene)	NA	NA	NA	NA	NA	1 U	1 U
4-Chlorotoluene	NA	NA	NA	NA	NA	1 U	1 U
Benzene	23	2000	NA	10	0.44	1 U	1 U
Bromobenzene	NA	NA	NA	NA	NA	1 U	1 U
Bromodichloromethane	28	14000	NA	NA	0.77	1 U	1 U
Bromoform	220	14000	NA	NA	5.8	1 U	1 U
Bromomethane (Methyl Bromide)	NA	970	NA	NA	520	1 U	1 U
Carbon tetrachloride	4.9	550	NA	NA	0.2	1 U	1 U
Chlorobenzene	NA	5000	NA	NA	380	1 U	1 U
Chlorobromomethane	NA	NA	NA	NA	NA	1 U	1 U
Chloroethane	NA	NA	NA	NA	NA	1 U	1 U
Chloroform (Trichloromethane)	56	6900	NA	NA	260	1 U	1 U
Chloromethane (Methyl Chloride)	NA	NA	NA	NA	NA	1 U	1 U
cis-1,2-Dichloroethene	NA	NA	NA	NA	NA	1 U	1 U
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	1 U	1 U
Cymene (p-Isopropyltoluene)	NA	NA	NA	NA	NA	**0.32 J**	1 U
Dibromochloromethane	21	14000	NA	NA	0.65	1 U	1 U
Dibromomethane	NA	NA	NA	NA	NA	1 U	1 U
Dichlorodifluoromethane (CFC-12)	NA	NA	NA	NA	NA	1 U	1 U
Ethylbenzene	NA	6900	NA	12	200	1 U	1 U
Hexachlorobutadiene	30	930	NA	NA	0.69	3 U	3 U
Isopropylbenzene (Cumene)	NA	NA	NA	NA	NA	1 U	1 U
m,p-Xylenes	NA	NA	NA	NA	NA	**0.77 J**	2 U
Methyl Tert Butyl Ether (MTBE)	NA	NA	NA	NA	NA	1 U	1 U
Methylene chloride (Dichloromethane)	590	17000	NA	NA	16	5 U	5 U
Naphthalene	NA	4900	NA	NA	NA	3 U	3 U
n-Butylbenzene	NA	NA	NA	NA	NA	1 U	1 U
n-Propylbenzene	NA	NA	NA	NA	NA	1 U	1 U
o-Xylene	NA	NA	NA	NA	NA	1 U	1 U
Styrene	NA	NA	NA	NA	NA	1 U	1 U
tert-Butylbenzene	NA	NA	NA	NA	NA	2 U	2 U
Tetrachloroethene	100	500	NA	NA	4.9	1 U	1 U
Toluene	NA	19000	NA	53	180	**9.3**	1 U
trans-1,2-Dichloroethene	NA	33000	NA	NA	600	1 U	1 U
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	1 U	1 U
Trichloroethene	4.9	120	NA	NA	0.38	1 U	1 U
Trichlorofluoromethane (CFC-11)	NA	NA	NA	NA	NA	1 U	1 U
Vinyl chloride	3.7	6600	NA	NA	0.02	1 U	1 U
Semi-Volatile Organic Compounds (ug/L)							
1,2,4-Trichlorobenzene	2	230	NA	NA	0.12	20 U	0.41 U
1,2-Dichlorobenzene	NA	4200	NA	NA	2000	4 U	0.41 U
1,3-Dichlorobenzene	NA	NA	NA	NA	13	4 U	0.41 U
1,4-Dichlorobenzene	22	3300	NA	NA	460	4 U	0.41 U
1-Methylnaphthalene	NA	NA	NA	NA	NA	50 U	1 U
2,2'-oxybis(1-Chloropropane)	37	42000	NA	NA	NA	2.5 U	0.26 U
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	4 U	4.1 U
2,4,6-Trichlorophenol	3.9	17	NA	NA	0.25	6 U	6.2 U
2,4-Dichlorophenol	NA	190	NA	NA	25	50 U	1 U
2,4-Dimethylphenol	NA	550	NA	NA	85	40 U	4.1 U
2,4-Dinitrophenol	NA	3500	NA	NA	60	250 U	51 U
2,4-Dinitrotoluene	5.5	1400	NA	NA	0.039	10 U	10 U
2,6-Dinitrotoluene	NA	NA	NA	NA	NA	4 U	4.1 U
2-Chloronaphthalene	NA	1000	NA	NA	170	10 U	10 U
2-Chlorophenol	NA	97	NA	NA	15	10 U	1 U
2-Methylnaphthalene	NA	NA	NA	NA	NA	20 U	4.1 U
2-Methylphenol (o-Cresol)	NA	NA	NA	NA	NA	**2.5 J**	0.62 U
2-Nitroaniline	NA	NA	NA	NA	NA	10 U	10 U
2-Nitrophenol	NA	NA	NA	NA	NA	50 U	1 U
3&4-Methylphenol	NA	NA	NA	NA	NA	**8.3 J**	6.2 U
3,3'-Dichlorobenzidine	0.046	NA	NA	NA	0.0031	10 U	1 U
3-Nitroaniline	NA	NA	NA	NA	NA	30 U	31 U
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA	7.1	100 U	2.1 U
4-Bromophenyl phenyl ether (BDE-3)	NA	NA	NA	NA	NA	30 U	0.62 U
4-Chloro-3-methylphenol	NA	NA	NA	NA	36	6 U	6.2 U
4-Chloroaniline	NA	NA	NA	NA	NA	100 U	2.1 U
4-Chlorophenyl phenyl ether	NA	NA	NA	NA	NA	6 U	6.2 U
4-Nitroaniline	NA	NA	NA	NA	NA	20 U	21 U
4-Nitrophenol	NA	NA	NA	NA	NA	100 U	100 U
Acenaphthene	NA	640	NA	NA	110	4 U	4.1 U
Acenaphthylene	NA	NA	NA	NA	NA	10 U	10 U
Anthracene	NA	26000	NA	NA	3100	50 U	1 U
Benzo(a)anthracene	NA	NA	NA	NA	0.014	2.5 U	0.26 U
Benzo(a)pyrene	0.035	26	NA	NA	0.0014	2.5 U	0.26 U
Benzo(b)fluoranthene	NA	NA	NA	NA	0.014	2.5 U	0.26 U
Benzo(g,h,i)perylene	NA	NA	NA	NA	NA	2.5 U	0.26 U
Benzo(k)fluoranthene	NA	NA	NA	NA	0.014	2.5 U	0.26 U
Benzoic acid	NA	NA	NA	NA	NA	500 U	10 U
Benzyl Alcohol	NA	NA	NA	NA	NA	50 U	5.1 U
bis(2-Chloroethoxy)methane	NA	NA	NA	NA	NA	6 U	0.62 U
bis(2-Chloroethyl)ether	0.85	NA	NA	NA	0.02	1 U	0.1 U
bis(2-Ethylhexyl)phthalate	3.6	400	NA	NA	0.23	30 U	3.1 U
Butyl benzylphthalate (BBP)	8.2	1300	NA	NA	0.56	40 U	4.1 U
Carbazole	NA	NA	NA	NA	NA	30 U	0.62 U
Chrysene	NA	NA	NA	NA	1.4	2.5 U	0.26 U
Dibenz(a,h)anthracene	NA	NA	NA	NA	0.0014	2.5 U	0.26 U
Dibenzofuran	NA	NA	NA	NA	NA	4 U	4.1 U
Diethyl phthalate	NA	28000	NA	NA	4200	10 U	10 U
Dimethyl phthalate	NA	NA	NA	NA	92000	6 U	6.2 U
Di-n-butylphthalate (DBP)	NA	2900	NA	NA	450	500 U	10 U
Di-n-octyl phthalate (DnOP)	NA	NA	NA	NA	NA	10 U	1 U
Fluoranthene	NA	90	NA	NA	16	13 U	0.26 U
Fluorene	NA	3500	NA	NA	420	2.5 U	2.6 U
Hexachlorobenzene	0.00047	0.24	NA	NA	0.000051	30 U	0.62 U
Hexachlorobutadiene	30	930	NA	NA	0.69	50 U	1 U
Hexachlorocyclopentadiene	NA	3600	NA	NA	150	10 U	10 U
Hexachloroethane	1.9	21	NA	NA	0.11	50 U	10 U
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	0.014	4 U	0.41 U

TABLE 3
SUMMARY OF SURFACE WATER QUALITY DATA
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name	Action Level					SW-11	SW-12
Sample Name	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	SW-11-20230808	SW-12-20230808
Sample Date	Method B	Method B	Aquatic Life	Aquatic Life	Human Health	08/08/2023	08/08/2023
Lab Sample ID	Cancerous	Noncancer	Fresh/Acute	Fresh/Chronic	Fresh Water	580-130492-2	580-130492-1
Isophorone	1600	120000	NA	NA	27	4 U	0.41 U
Naphthalene	NA	4900	NA	NA	NA	20 U	4.1 U
Nitrobenzene	NA	1800	NA	NA	55	10 U	1 U
N-Nitrosodi-n-propylamine	0.82	NA	NA	NA	0.0044	4 U	0.41 U
N-Nitrosodiphenylamine	9.7	NA	NA	NA	0.62	50 U	1 U
Pentachlorophenol	1.5	1200	20	13	0.046	250 U	5.1 U
Phenanthrene	NA	NA	NA	NA	NA	50 U	1 U
Phenol	NA	560000	NA	NA	18000	10 U	1 U
Pyrene	NA	2600	NA	NA	310	50 U	1 U
Total Petroleum Hydrocarbons (ug/L)							
Gasoline	NA	NA	NA	1000	NA	**110**	50 U
Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	NA	NA	NA	*150/3000	NA	**14000 J+**	**1100**
Total Petroleum Hydrocarbons (C24-C36) Motor Oil	NA	NA	NA	NA	NA	**33000 J+**	**1700**
Inorganic Compounds (ug/L)							
Arsenic, Dissolved	0.098	18	360	190	10	60 U	60 U
Cadmium, Dissolved	NA	41	3.7	1	NA	20 U	20 U
Chromium, Dissolved	NA	NA	NA	NA	NA	25 U	25 U
Copper, Dissolved	NA	2900	17	11	1300	60 U	**14 J**
Lead, Dissolved	NA	NA	65	2.5	NA	30 U	30 U
Nickel, Dissolved	NA	1100	1400	160	150	**2.8 J**	**3.7 J**
Potassium, Dissolved	NA	NA	NA	NA	NA	**98000**	**34000**
Sodium, Dissolved	NA	NA	NA	NA	NA	**7000**	**70000**
Zinc, Dissolved	NA	17000	110	100	2300	40 U	40 U
Arsenic, Total	0.098	18	360	190	10	60 U	60 U
Cadmium, Total	NA	41	3.7	1	NA	20 U	20 U
Chromium, Total	NA	NA	NA	NA	NA	25 U	25 U
Copper, Total	NA	2900	17	11	1300	60 U	**22 J**
Lead, Total	NA	NA	65	2.5	NA	30 U	30 U
Mercury, Total	NA	NA	2.1	0.012	NA	0.3 U	0.3 U
Nickel, Total	NA	1100	1400	160	150	**2.4 J**	**3.9 J**
Potassium, Total	NA	NA	NA	NA	NA	**94000**	**31000**
Sodium, Total	NA	NA	NA	NA	NA	**7100**	**66000**
Zinc, Total	NA	17000	110	100	2300	**51**	40 U
PCBs (ug/L)							
Aroclor-1016 (PCB-1016)	0.003	0.0058	NA	NA	NA	0.9 U	0.99 U
Aroclor-1221 (PCB-1221)	NA	NA	NA	NA	NA	0.9 U	0.99 U
Aroclor-1232 (PCB-1232)	NA	NA	NA	NA	NA	0.9 U	0.99 U
Aroclor-1242 (PCB-1242)	NA	NA	NA	NA	NA	0.9 U	0.99 U
Aroclor-1248 (PCB-1248)	NA	NA	NA	NA	NA	0.9 U	0.99 U
Aroclor-1254 (PCB-1254)	0.0001	0.0017	NA	NA	NA	0.9 U	0.99 U
Aroclor-1260 (PCB-1260)	NA	NA	NA	NA	NA	0.9 U	0.99 U
Other							
Total Suspended Solids (TSS) (ug/L)	NA	NA	NA	NA	NA	**26000**	**2400**

ABBREVIATIONS AND NOTES:

**150 ug/L unweathered, 3000 ug/L weathered.*
J: value is an estimate
J+: value is an estimate, biased high
ug/L: micrograms per liter
MTCA: Model Toxics Control Act
NA: No Action level established
U: not detected, value is the laboratory reporting limit

There are no published state (173-201A) or federal (CWA 304) surface water aquatic life protective criteria. In their absence, protective concentrations were derived from studies published by Ecology's Environmental Assessment Program, and published in Implementation Memo #23 (IM 23). Ecology's IM 23 provides gasoline and diesel range organic concentrations that are protective of aquatic receptors in marine and fresh surface waters
***Bold** values indicate a detected concentration.*
Blue shading indicates a detected analyte concentration exceeding Surface Water Aquatic Life Fresh/Acute or Surface Water Aquatic Life Fresh/Chronic action level.

TABLE 4
SUMMARY OF SUPPLEMENTAL SURFACE WATER DRAINAGE SAMPLING DATA
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Lab Sample ID	PCUL-SLU Aquatic Life: Literature Values Implementation Memo 23 only	PCUL-SLU NRWQC Aquatic Life Fresh - Chronic CWA Section 304	PCUL-SLU WA State WQC Aquatic Life Fresh-Chronic WAC 173-201A-240, Table 240	HA-PW-01 HA-PW-01-20241212 12/12/2024 2412-206-04	HA-W-01 HA-W-01-20241212 12/12/2024 2412-206-05	HA-W-02 HA-W-02-20241212 12/12/2024 2412-206-03	HA-W-02 FD-01-20241212 12/12/2024 2412-206-06	HA-W-04 HA-W-04-20241212 12/12/2024 2412-206-02	HA-W-05 HA-W-05-20241212 12/12/2024 2412-206-01
Volatile Organic Compounds (ug/L)									
1,1,1,2-Tetrachloroethane	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,1-Trichloroethane	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2,2-Tetrachloroethane	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1,2-Trichloroethane	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethane	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloroethene	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,1-Dichloropropene	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,3-Trichlorobenzene	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,4-Trichlorobenzene	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,4-Trimethylbenzene	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dibromo-3-chloropropane (DBCP)	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane (Ethylene Dibromide)	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichlorobenzene	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloroethane	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2-Dichloropropane	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3,5-Trimethylbenzene	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-Dichlorobenzene	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,3-Dichloropropane	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,4-Dichlorobenzene	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,2-Dichloropropane	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Butanone (Methyl Ethyl Ketone)	NA	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U
2-Chlorotoluene	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Hexanone (Methyl Butyl Ketone)	NA	NA	NA	2 U	2 U	2 U	2 U	2 U	2 U
2-Phenylbutane (sec-Butylbenzene)	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-Chlorotoluene	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	NA	NA	NA	2 U	2 U	2 U	2 U	2 U	2 U
Acetone	NA	NA	NA	7 U	7 U	7 U	7 U	7 U	7 U
Benzene	1.00E+01	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromobenzene	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromodichloromethane	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Bromoform	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane (Methyl Bromide)	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	NA	NA	NA	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Carbon tetrachloride	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobenzene	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chlorobromomethane	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

TABLE 4
SUMMARY OF SUPPLEMENTAL SURFACE WATER DRAINAGE SAMPLING DATA
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Lab Sample ID	PCUL-SLU Aquatic Life: Literature Values Implementation Memo 23 only	PCUL-SLU NRWQC Aquatic Life Fresh - Chronic CWA Section 304	PCUL-SLU WA State WQC Aquatic Life Fresh-Chronic WAC 173-201A-240, Table 240	HA-PW-01 HA-PW-01-20241212 12/12/2024 2412-206-04	HA-W-01 HA-W-01-20241212 12/12/2024 2412-206-05	HA-W-02 HA-W-02-20241212 12/12/2024 2412-206-03	HA-W-02 FD-01-20241212 12/12/2024 2412-206-06	HA-W-04 HA-W-04-20241212 12/12/2024 2412-206-02	HA-W-05 HA-W-05-20241212 12/12/2024 2412-206-01
Chloroethane	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform (Trichloromethane)	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Chloromethane (Methyl Chloride)	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-1,3-Dichloropropene	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Cymene (p-Isopropyltoluene)	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromochloromethane	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibromomethane	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dichlorodifluoromethane (CFC-12)	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Ethylbenzene	1.20E+01	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Hexachlorobutadiene	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U
Iodomethane	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
m,p-Xylenes	NA	NA	NA	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Methyl Tert Butyl Ether (MTBE)	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Methylene chloride (Dichloromethane)	NA	NA	NA	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Naphthalene	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U
n-Butylbenzene	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
n-Propylbenzene	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
o-Xylene	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Styrene	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
tert-Butylbenzene	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Tetrachloroethene	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	5.30E+01	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-1,3-Dichloropropene	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichloroethene	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Trichlorofluoromethane (CFC-11)	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Vinyl acetate	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	NA	NA	NA	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Xylene (Total)	5.70E+01	NA	NA	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U

TABLE 4
SUMMARY OF SUPPLEMENTAL SURFACE WATER DRAINAGE SAMPLING DATA
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Lab Sample ID	PCUL-SLU Aquatic Life: Literature Values Implementation Memo 23 only	PCUL-SLU NRWQC Aquatic Life Fresh - Chronic CWA Section 304	PCUL-SLU WA State WQC Aquatic Life Fresh-Chronic WAC 173-201A-240, Table 240	HA-PW-01 HA-PW-01-20241212 12/12/2024 2412-206-04	HA-W-01 HA-W-01-20241212 12/12/2024 2412-206-05	HA-W-02 HA-W-02-20241212 12/12/2024 2412-206-03	HA-W-02 FD-01-20241212 12/12/2024 2412-206-06	HA-W-04 HA-W-04-20241212 12/12/2024 2412-206-02	HA-W-05 HA-W-05-20241212 12/12/2024 2412-206-01
Semi-Volatile Organic Compounds (ug/L)									
1,2,4-Trichlorobenzene	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
1,2-Dichlorobenzene	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
1,2-Dinitrobenzene	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
1,2-Diphenylhydrazine	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
1,3-Dichlorobenzene	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
1,3-Dinitrobenzene	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
1,4-Dichlorobenzene	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
1,4-Dinitrobenzene	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
2,2'-oxybis(2-Chloropropane)	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
2,3,4,6-Tetrachlorophenol	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
2,3,5,6-Tetrachlorophenol	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
2,3-dichlorobenzenamine	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
2,4,5-Trichlorophenol	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
2,4,6-Trichlorophenol	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
2,4-Dichlorophenol	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
2,4-Dimethylphenol	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
2,4-Dinitrophenol	NA	NA	NA	5.4 U	6.2 U	7.9 U	7.4 U	5.7 U	5.9 U
2,4-Dinitrotoluene	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
2,6-Dinitrotoluene	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
2-Chloronaphthalene	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
2-Chlorophenol	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
2-Methylphenol (o-Cresol)	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
2-Nitroaniline	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
2-Nitrophenol	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
3,3'-Dichlorobenzidine	NA	NA	NA	1.1 U	1.2 U	5.9 U	5.5 U	1.1 U	1.2 U
3-Nitroaniline	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
4,6-Dinitro-2-methylphenol	NA	NA	NA	5.4 U	6.2 U	8.6 U	8 U	5.7 U	5.9 U
4-Bromophenyl phenyl ether (BDE-3)	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
4-Chloro-3-methylphenol	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
4-Chloroaniline	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
4-Chlorophenyl phenyl ether	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
4-Nitroaniline	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
4-Nitrophenol	NA	NA	NA	5.4 U	6.2 U	5.9 U	5.5 U	5.7 U	5.9 U
Aniline	NA	NA	NA	5.4 U	6.2 U	5.9 U	5.5 U	5.7 U	5.9 U
Benzyl Alcohol	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
bis(2-Chloroethoxy)methane	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
bis(2-Chloroethyl)ether	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
bis(2-Ethylhexyl)adipate	NA	NA	NA	5.4 U	6.2 U	30 U	28 U	5.7 U	5.9 U

TABLE 4
SUMMARY OF SUPPLEMENTAL SURFACE WATER DRAINAGE SAMPLING DATA
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Lab Sample ID	PCUL-SLU Aquatic Life: Literature Values Implementation Memo 23 only	PCUL-SLU NRWQC Aquatic Life Fresh - Chronic CWA Section 304	PCUL-SLU WA State WQC Aquatic Life Fresh-Chronic WAC 173-201A-240, Table 240	HA-PW-01 HA-PW-01-20241212 12/12/2024 2412-206-04	HA-W-01 HA-W-01-20241212 12/12/2024 2412-206-05	HA-W-02 HA-W-02-20241212 12/12/2024 2412-206-03	HA-W-02 FD-01-20241212 12/12/2024 2412-206-06	HA-W-04 HA-W-04-20241212 12/12/2024 2412-206-02	HA-W-05 HA-W-05-20241212 12/12/2024 2412-206-01
bis(2-Ethylhexyl)phthalate	NA	NA	NA	1.1 U	**2**	5.9 U	5.5 U	1.1 U	1.2 U
Butyl benzylphthalate (BBP)	NA	NA	NA	5.4 U	6.2 U	30 U	28 U	5.7 U	5.9 U
Carbazole	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
Dibenzofuran	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
Diethyl phthalate	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
Dimethyl phthalate	NA	NA	NA	5.4 U	6.2 U	5.9 U	5.5 U	5.7 U	5.9 U
Di-n-butylphthalate (DBP)	NA	NA	NA	5.4 U	6.2 U	5.9 U	5.5 U	5.7 U	5.9 U
Di-n-octyl phthalate (DnOP)	NA	NA	NA	1.1 U	1.2 U	5.9 U	5.5 U	1.1 U	1.2 U
Hexachlorobenzene	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
Hexachlorobutadiene	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
Hexachlorocyclopentadiene	NA	NA	NA	5.4 U	6.2 U	7.7 U	7.2 U	5.7 U	5.9 U
Hexachloroethane	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
Isophorone	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
m,p-Cresols	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
Nitrobenzene	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
N-Nitrosodimethylamine	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
N-Nitrosodi-n-propylamine	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
N-Nitrosodiphenylamine	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
Pentachlorophenol	NA	NA	NA	5.4 U	6.2 U	5.9 U	5.5 U	5.7 U	5.9 U
Phenol	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
Pyridine	NA	NA	NA	1.1 U	1.2 U	1.2 U	1.1 U	1.1 U	1.2 U
Semi-Volatile Organic Compounds (SIM) (ug/L)									
1-Methylnaphthalene	NA	NA	NA	0.11 U	0.12 U	0.12 U	0.11 U	0.11 U	0.12 U
2-Methylnaphthalene	NA	NA	NA	0.11 U	0.12 U	0.12 U	0.11 U	0.11 U	0.12 U
Acenaphthene	NA	NA	NA	0.11 U	0.12 U	0.12 U	0.11 U	0.11 U	0.12 U
Acenaphthylene	NA	NA	NA	0.11 U	0.12 U	0.12 U	0.11 U	0.11 U	0.12 U
Anthracene	NA	NA	NA	0.11 U	0.12 U	0.12 U	0.11 U	0.11 U	0.12 U
Benzo(a)anthracene	NA	NA	NA	0.011 U	**0.014**	0.012 U	0.011 U	0.011 U	0.012 U
Benzo(a)pyrene	NA	NA	NA	0.011 U	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U
Benzo(b)fluoranthene	NA	NA	NA	0.011 U	**0.017**	0.012 U	0.011 U	0.011 U	0.012 U
Benzo(g,h,i)perylene	NA	NA	NA	0.011 U	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U
Benzo(j,k)fluoranthene	NA	NA	NA	0.011 U	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U
Chrysene	NA	NA	NA	0.011 U	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U
Dibenz(a,h)anthracene	NA	NA	NA	0.011 U	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U
Fluoranthene	NA	NA	NA	0.11 U	0.12 U	0.12 U	0.11 U	0.11 U	0.12 U
Fluorene	NA	NA	NA	0.11 U	0.12 U	0.12 U	0.11 U	0.11 U	0.12 U
Indeno(1,2,3-cd)pyrene	NA	NA	NA	0.011 U	0.012 U	0.012 U	0.011 U	0.011 U	0.012 U
Naphthalene	NA	NA	NA	0.11 U	0.12 U	0.12 U	0.11 U	0.11 U	0.12 U

TABLE 4
SUMMARY OF SUPPLEMENTAL SURFACE WATER DRAINAGE SAMPLING DATA
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Lab Sample ID	PCUL-SLU Aquatic Life: Literature Values Implementation Memo 23 only	PCUL-SLU NRWQC Aquatic Life Fresh - Chronic CWA Section 304	PCUL-SLU WA State WQC Aquatic Life Fresh-Chronic WAC 173-201A-240, Table 240	HA-PW-01 HA-PW-01-20241212 12/12/2024 2412-206-04	HA-W-01 HA-W-01-20241212 12/12/2024 2412-206-05	HA-W-02 HA-W-02-20241212 12/12/2024 2412-206-03	HA-W-02 FD-01-20241212 12/12/2024 2412-206-06	HA-W-04 HA-W-04-20241212 12/12/2024 2412-206-02	HA-W-05 HA-W-05-20241212 12/12/2024 2412-206-01
Naphthalene, Total	NA	NA	NA	0.11 U	0.12 U	0.12 U	0.11 U	0.11 U	0.12 U
Phenanthrene	NA	NA	NA	0.11 U	0.12 U	0.12 U	0.11 U	0.11 U	0.12 U
Pyrene	NA	NA	NA	0.11 U	0.12 U	0.12 U	0.11 U	0.11 U	0.12 U
Total Petroleum Hydrocarbons (ug/L)									
Gasoline Range Organics	1.00E+03	NA	NA	100 U	100 U	100 U	100 U	100 U	100 U
Diesel Range Organics	3000*	NA	NA	**570**	160 U	**520**	**440**	230 U	230 U
PHC as Lube Oil	NA	NA	NA	**1200**	260 U	**1000**	**920**	**260**	230 U
Diesel Range + Oil Range Organics	3.00E+03	NA	NA	**1770**	260 U	**1520**	**1360**	**260**	230 U
Inorganic Compounds (ug/L)									
Arsenic, Dissolved	NA	1.50E+02	1.90E+02	3 U	3 U	3 U	3 U	3 U	3 U
Cadmium, Dissolved	NA	7.18E-01	1.03E+00	4 U	4 U	4 U	4 U	4 U	4 U
Chromium, Dissolved	NA	NA	NA	10 U	10 U	10 U	10 U	10 U	10 U
Copper, Dissolved	NA	NA	1.14E+01	10 U	10 U	10 U	10 U	10 U	10 U
Lead, Dissolved	NA	2.52E+00	2.52E+00	**1.8**	1 U	1 U	1 U	1 U	1 U
Mercury, Dissolved	NA	7.70E-01	1.20E-02	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nickel, Dissolved	NA	5.20E+01	1.57E+02	20 U	20 U	20 U	20 U	20 U	20 U
Zinc, Dissolved	NA	1.18E+02	1.05E+02	25 U	25 U	25 U	25 U	25 U	25 U
Hardness as CaCO3	NA	NA	NA	**170000**	**38000**	**91000**	**94000**	**93000**	**34000**
Arsenic, Total	NA	1.50E+02	1.90E+02	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U
Cadmium, Total	NA	7.18E-01	1.03E+00	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U	4.4 U
Chromium, Total	NA	NA	NA	11 U	11 U	11 U	11 U	**19**	11 U
Copper, Total	NA	NA	1.14E+01	11 U	11 U	11 U	11 U	**23**	11 U
Lead, Total	NA	2.52E+00	2.52E+00	**3.6**	1.1 U	**2**	**1.5**	**7.9**	1.1 U
Mercury, Total	NA	7.70E-01	1.20E-02	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Nickel, Total	NA	5.20E+01	1.57E+02	22 U	22 U	22 U	22 U	22 U	22 U
Zinc, Total	NA	1.18E+02	1.05E+02	28 U	28 U	28 U	28 U	**36**	28 U
Other									
Total Suspended Solids (TSS) (ug/L)	NA	NA	NA	4000 U	**11000**	**15000**	**13000**	**320000**	**7000**
Field Parameters									
Temperature (Deg C)	NA	NA	NA	-	-	-	-	**6.7**	**4.2**
Conductivity, Field (mS/cm)	NA	NA	NA	**0.1616**	**0.0706**	**0.035**	**0.035**	**0.085**	**0**
Turbidity, Field (NTU)	NA	NA	NA	**2.81**	**43.5**	**10.65**	**10.65**	**53.5**	**11.87**
pH, Field (pH units)	NA	NA	NA	**7.15**	**6.6**	**6.28**	**6.28**	**6.06**	**6.4**

TABLE 4
SUMMARY OF SUPPLEMENTAL SURFACE WATER DRAINAGE SAMPLING DATA
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

ABBREVIATIONS AND NOTES:

**3000 ug/L weathered*
mS/cm: millisiemens per centimeter
NA: No Action level established
NTU: Nephelometric Turbidity Units
U: not detected, value is the laboratory reporting limit
ug/L: micrograms per liter

There are no published state (173-201A) or federal (CWA 304) surface water aquatic life protective criteria. In their absence, protective concentrations were derived from studies published by Ecology's Environmental Assessment Program, and published in Implementation Memo #23 (IM 23). Ecology's IM 23 provides gasoline and diesel range organic concentrations that are protective of aquatic receptors in marine and fresh surface waters

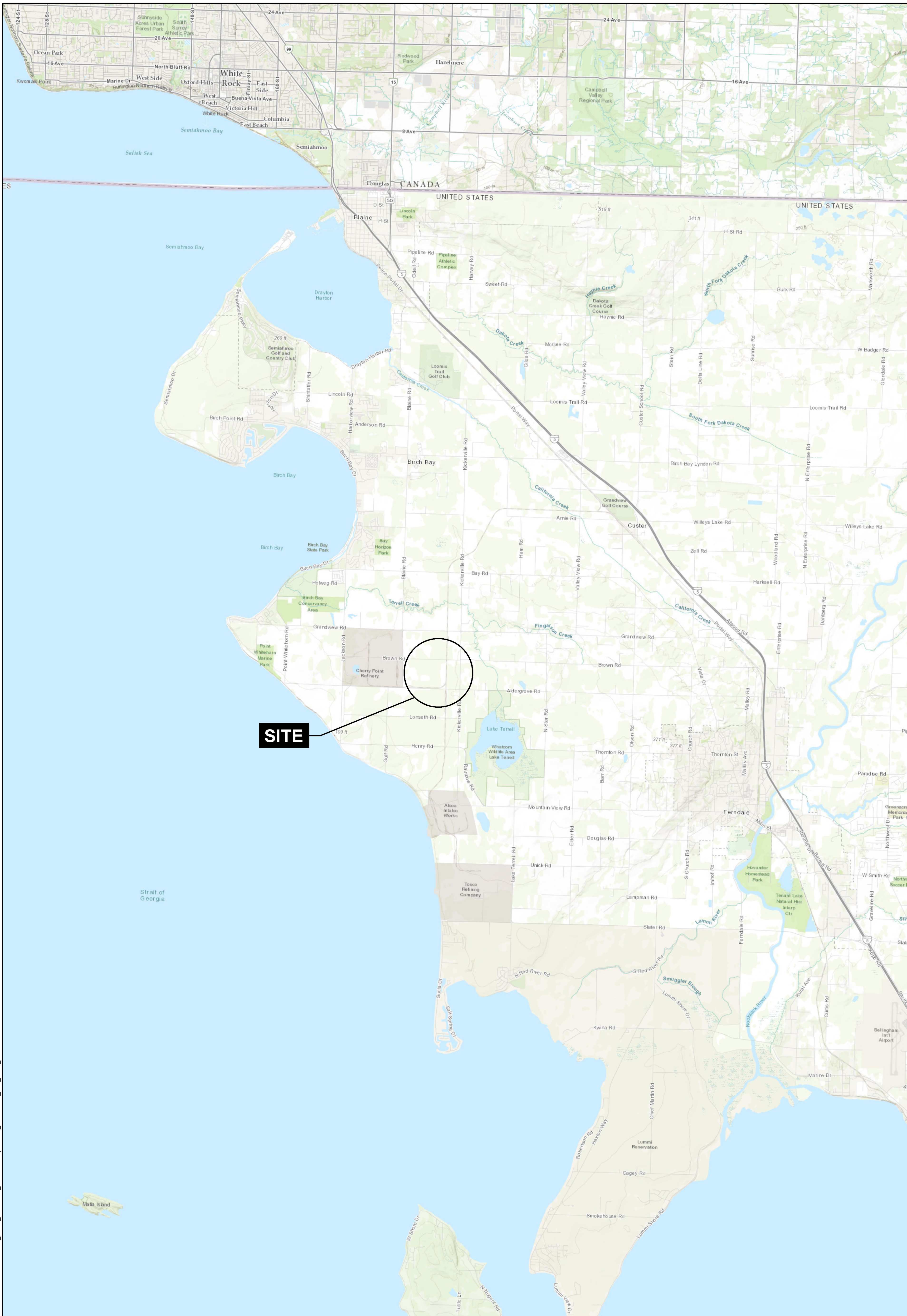
Bold *values indicate a detected concentration.*

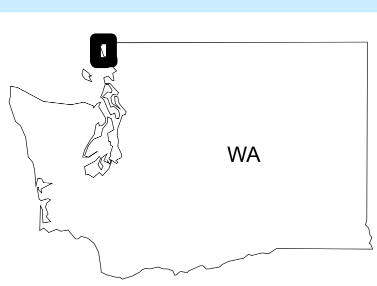
Blue shading indicates a detected analyte concentration exceeding Preliminary Cleanup level South Lake Union (PCUL-SLU) Aquatic Life: Literature Values from Implementation Memo 23 only

Green shading indicates a detected analyte concentration exceeding PCUL-SLU National Recommended Water Quality Criteria (NRWQC) Aquatic Life Fresh - Chronic CWA Section 304

Purple shading indicates a detected analyte concentration exceeding WA State Water Quality Criteria (WQC) Aquatic Life Fresh-Chronic Washington Administrative Code (WAC) 173-201A-240, Table 240

FIGURES





0 1 2
SCALE IN MILES

N

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.

2. BASEMAP IMAGERY SOURCE: ESRI

HALEY ALDRICH

TREOIL INDUSTRIES SITE
FERNDALE, WASHINGTON

VICINITY MAP

JULY 2023

FIGURE 1

GIS FILE PATH: \\haleyaldrich.com\share\sea_projects\Notebooks\0204476-000_Treoil_Industries_Site\GIS\Maps\2023_07\204476_000_0001_VICINITY MAP.mxd — USER: mschweitzer — LAST SAVED: 7/11/2023 4:32:01 PM

S-04
BG-01
B-01
S-02
S-01
S-03
HA-W-01
BNSF RAILROAD
B-02
S-05
S-14
B-03
S-06
B-04
TP-1
B-05
S-07
TP-2
S-08
HA-W-02
S-13
S-15
SW-12
PP-01
B-06
HA-PW-01
B-07
B-08
TP-3
S-17
S-09
S-21
SW-11
B-10
B-09
S-16
S-23
S-18
S-10
B-11
S-20
B-12
S-22
HA-W-04
S-24
S-19
HA-W-05
ALDERGROVE RD

LEGEND

- SUPPLEMENTAL GRAB WATER SAMPLE
- BACKGROUND SAMPLE
- RECONNAISSANCE BORING
- SURFICIAL SOIL SAMPLE
- SURFICIAL WATER SAMPLE
- PRODUCT SAMPLE
- TEST PIT
- DRAINAGE
- DELINEATED WETLAND
- PARCEL BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. DRAINAGE IN RAILROAD RIGHT OF WAY IS ASSUMED TO EXTEND NORTHWARD TO BROWN ROAD. FULL PATH NOT SHOWN.
3. THE DRAINAGES SHOWN ARE BASED ON CONDITIONS OBSERVED IN 2017 BY ECOLOGY STAFF. SINCE THAT TIME, THE EPA HAS CONDUCTED MULTIPLE REMOVAL ACTIONS AND SITE CONDITIONS HAVE CHANGED.
4. ASSESSOR PARCEL DATA SOURCE: WHATCOM COUNTY
5. AERIAL IMAGERY SOURCE: NEARMAP, 10 MAY 2024

N

0 100 200

MAIN MAP SCALE IN FEET

HALEY ALDRICH

TREOIL INDUSTRIES SITE
FERNDALE, WASHINGTON

SITE MAP AND SAMPLE LOCATIONS

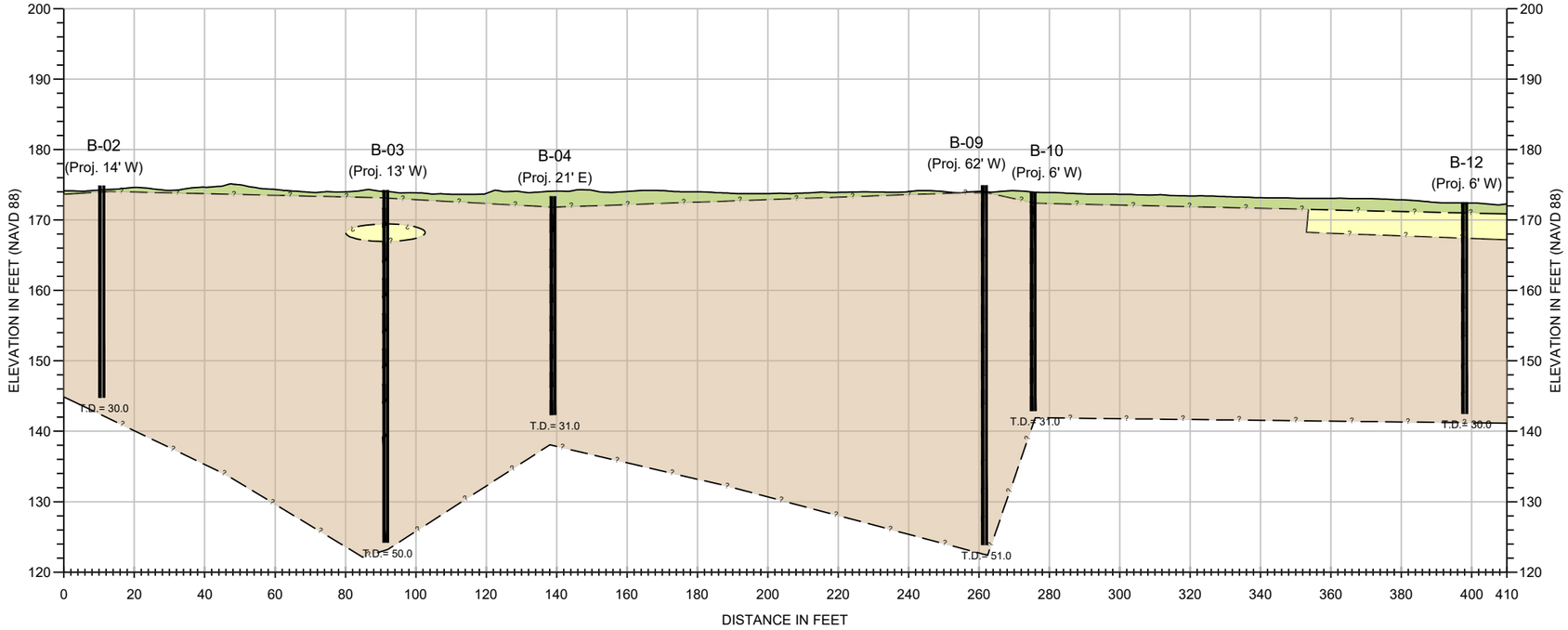
JANUARY 2025

FIGURE 2

GIS FILE PATH: \\haleyaldrich.com\share\sea_projects\Notebooks\0204476-000_Treoil_Industries_Site\GIS\Maps\2025_01\204476_000_0002_SITE_MAP_AND_SAMPLE_LOCATIONS.mxd — USER: ayabu — LAST SAVED: 1/20/2025 4:09:44 PM

A (NORTH)

A' (SOUTH)



BORING NAME WITH OFFSET — B-1 (Proj. 92' S)

BORING LOCATION —

WATER LEVEL AT TIME OF DRILLING

N-VALUE — 22 — WATER LEVEL

SCREEN INTERVAL

LEGEND

- TOP SOIL
- SAND TO SILTY OR CLAYEY SAND
- CLAY

NOTES

1. THIS SUBSURFACE PROFILE IS GENERALIZED FROM MATERIALS OBSERVED IN SOIL BORINGS. VARIATIONS MAY EXIST BETWEEN PROFILE AND ACTUAL CONDITIONS.
2. GROUNDWATER WAS NOT ENCOUNTERED IN ANY OF THE BORING LOCATIONS.

HORIZ. 0 40 80

VERT. 0 20 40

SCALE IN FEET

HALEY ALDRICH

TREOIL INDUSTRIES SITE
FERNDALE, WASHINGTON

CROSS SECTION A-A'

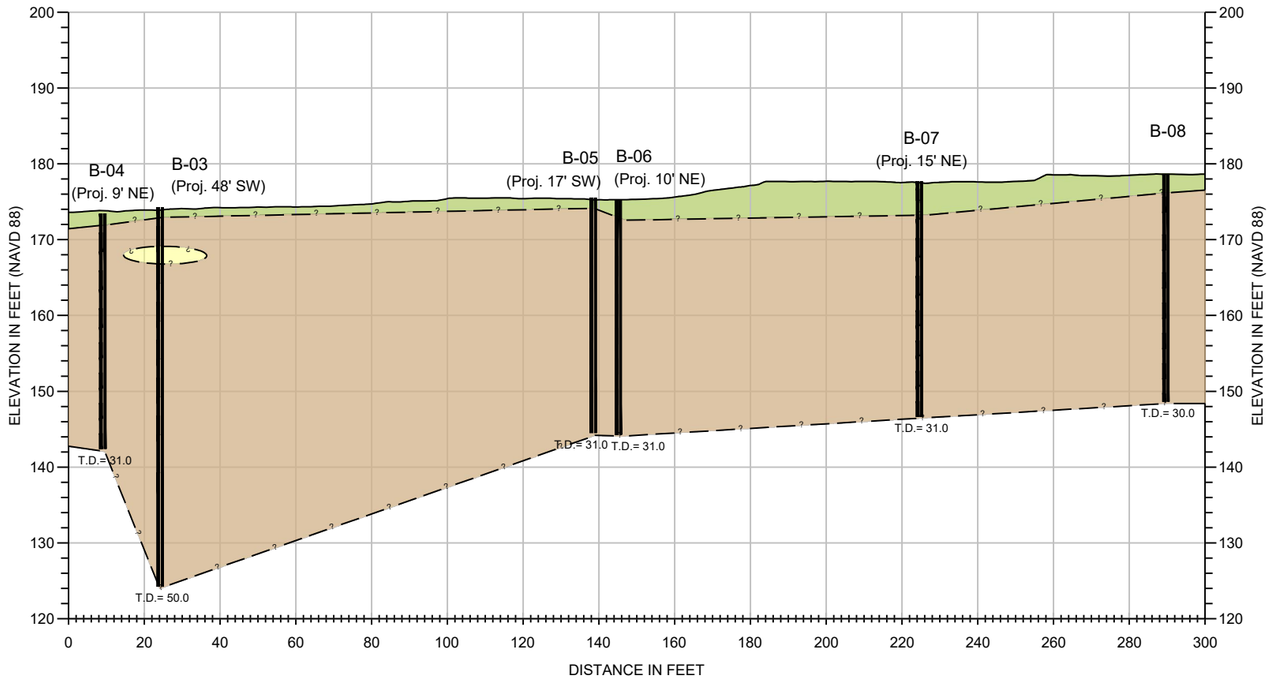
JANUARY 2024

FIGURE 3

Saved by: GWILDE Printed: 2/7/2024 8:30 PM Sheet: SECTION_A
\\HALEYALDRICH.COM\SHARE\SEA_PROJECTS\NOTEBOOKS\0204476-001_TREOIL INDUSTRIES RI-FS\CAD\C3D\204476_000_CROSS_SECTIONS.DWG

B
(NORTHWEST)

B'
(SOUTHEAST)



BORING NAME WITH OFFSET — B-1 (Proj. 92' S)

BORING LOCATION

WATER LEVEL AT TIME OF DRILLING

N-VALUE — 22 — WATER LEVEL

SCREEN INTERVAL

LEGEND

- TOP SOIL
- SAND TO SILTY OR CLAYEY SAND
- CLAY

NOTES

1. THIS SUBSURFACE PROFILE IS GENERALIZED FROM MATERIALS OBSERVED IN SOIL BORINGS. VARIATIONS MAY EXIST BETWEEN PROFILE AND ACTUAL CONDITIONS.
2. GROUNDWATER WAS NOT ENCOUNTERED IN ANY OF THE BORING LOCATIONS.

HORIZ. 0 40 80
VERT. 0 20 40
SCALE IN FEET

HALEY ALDRICH

TREOIL INDUSTRIES SITE
FERNDALE, WASHINGTON

CROSS SECTION B-B'

JANUARY 2024

FIGURE 4

Saved by: GWILDE Printed: 2/7/2024 8:43 PM Sheet: SECTION_B
\\HALEYALDRICH.COM\SHARE\SEA_PROJECTS\NOTEBOOKS\0204476-001_TREOIL INDUSTRIES RI-FS\CAD\XREFS\B.DWG

BG-01	2.5 - 5 (ft) BG-01-S1
Soil (mg/kg) Chromium	49

S-03	0 - 0.5 (ft) S-03-20230807
Soil (mg/kg) TPH-D	680 J

B-01	2.5 - 5 (ft) B-01-S1	50 - 51 (ft) B-01-S7
Soil (mg/kg) Chromium	62	27

S-02	0 - 0.5 (ft) S-02-20230808
Soil (mg/kg) TPH-D	350 J

S-01	0 - 0.5 (ft) S-01-20230808
Soil (mg/kg)	
TPH-D	3600 J+
TPH-O	7600 J+
TPH-D+O	6500 J

B-02	7.5 - 10 (ft) B-02-S2
Soil (mg/kg) Chromium	46

B-03	2.5 - 5 (ft) B-03-S1
Soil (mg/kg) Chromium	47

S-14	0 - 0.5 (ft) S-14-20230808
Soil (mg/kg) TPH-D	460 J

B-04	2.5 - 5 (ft) B-04-S1
Soil (mg/kg) Chromium	53

B-05	1 - 2.5 (ft) B-05-S1	1 - 2.5 (ft) FD01	6 - 8 (ft) B-05-S2	12 - 14 (ft) B-05-S3
Soil (mg/kg) Chromium	39	38	60	42

S-07	0 - 0.5 (ft) S-07-20230807
Soil (mg/kg)	
Chromium	79 J
Copper	440 J
TPH-D	260 J

S-15	0 - 0.5 (ft) S-15-20230808
Soil (mg/kg)	
Copper	74 J
Lead	280 J
TPH-D	45000 J
TPH-O	17000 J
TPH-D+O	62000 J

S-08	0 - 0.5 (ft) S-08-20230808
Soil (mg/kg) Chromium	46 J

B-10	2 - 3 (ft) B-10-S1	8 - 10 (ft) B-10-S2
Soil (mg/kg) Chromium	30	58

B-07	1 - 2.5 (ft) B-07-S1	7.5 - 10 (ft) B-07-S2	7.5 - 10 (ft) FD-02
Soil (mg/kg)			
Benzene	0.094 J		
Pentachlorophenol	5.8		
Chromium	34	35	50
TPH-D	4400 J-	37 J-	ND (57) J
TPH-O	4700 J-	41 J-	ND (57) J
TPH-D+O	9100 J		

S-16	0 - 0.5 (ft) S-16-20230808
Soil (mg/kg)	
Copper	210 J
TPH-D	520 J

PP-01	- PP-01
Oil (mg/kg)	
TPH-D	200000 J-
TPH-O	230000 J-
TPH-D+O	430000 J

S-10	0 - 0.5 (ft) S-10-20230808
Soil (mg/kg)	
Lead	280 J

S-18	0 - 0.5 (ft) S-18-20230808
Soil (mg/kg)	
Chromium	54 J
Copper	58 J

B-06	2.5 - 5 (ft) B-06-S1	17 - 19 (ft) B-06-S4
Soil (mg/kg) Chromium	44	39

S-20	0 - 0.5 (ft) S-20-20230808
Soil (mg/kg)	
Copper	54 J
TPH-D	2600 J
TPH-O	5600 J
TPH-D+O	8200 J

S-22	0 - 0.5 (ft) S-22-20230808
Soil (mg/kg)	
Lead	66 J
TPH-D	1600 J
TPH-O	4900 J
TPH-D+O	6500 J

S-23	0 - 0.5 (ft) S-23-20230808
Soil (mg/kg)	
Chromium	43 J
Copper	54 J
TPH-D	630 J

S-04, BG-01, B-01, S-02, S-01, S-03, B-02, A, A′, S-14, B-03, B, B′, B-04, S-05, HA-W-01, S-06, TP-1, B-05, S-07, TP-2, S-15, SW-12, PP-01, B-06, S-08, HA-W-02, S-13, HA-PW-01, TP-3, B-07, B-08, S-17, SW-11, S-21, B-10, B-09, S-16, S-23, S-18, S-10, B-11, S-20, B-12, S-22, HA-W-04, S-24, S-19, HA-W-05, BNSF RAILROAD, ALDERGROVE RD

LEGEND

- SUPPLEMENTAL GRAB WATER SAMPLE
- BACKGROUND SAMPLE
- RECONNAISSANCE BORING
- SURFICIAL SOIL SAMPLE
- ACCUMULATED WATER SAMPLE
- PRODUCT SAMPLE
- TEST PIT
- CROSS SECTION
- INFERRED EXTENT OF CONTAMINATED SOIL
- PARCEL BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. GREY SHADING INDICATES CONCENTRATIONS THAT EXCEED MODEL TOXICS CONTROL ACT (MTCA) SCREENING LEVELS AND/OR SITE-SPECIFIC TERRESTRIAL ECOLOGICAL EVALUATION.
3. DEFINITIONS:
   J = RESULT IS AN ESTIMATE
   J+ = RESULT IS AN ESTIMATE, BIASED HIGH
   J- = RESULT IS AN ESTIMATE, BIASED LOW
   cPAH-TEQ = CARCINOGENIC POLYCYCLIC AROMATIC HYDROCARBONS TOXICITY EQUIVALENCY FACTORS
   TPH-D = DIESEL-RANGE TOTAL PETROLEUM HYDROCABON
   TPH-O = OIL-RANGE TOTAL PETROLEUM HYDROCARBON
   TPH-D+O = SUM OF DIESEL- AND OIL-RANGE TOTAL PETROLEUM HYDROCARBONS
4. CONCENTRATIONS IN mg/kg (MILLIGRAMS PER KILOGRAM)
5. ASSESSOR PARCEL DATA SOURCE: WHATCOM COUNTY
6. NO MATERIAL COLLECTED AT TEST PIT
7. EXTENT OF IMPACTS APPEAR LIMITED TO SURFACE SOILS AND EXTENT SHOWN IS INFERRED BASED ON RI RESULTS.
8. AERIAL IMAGERY SOURCE: NEARMAP, 10 MAY 2024

N

0 100 200

SCALE IN FEET

HALEY ALDRICH

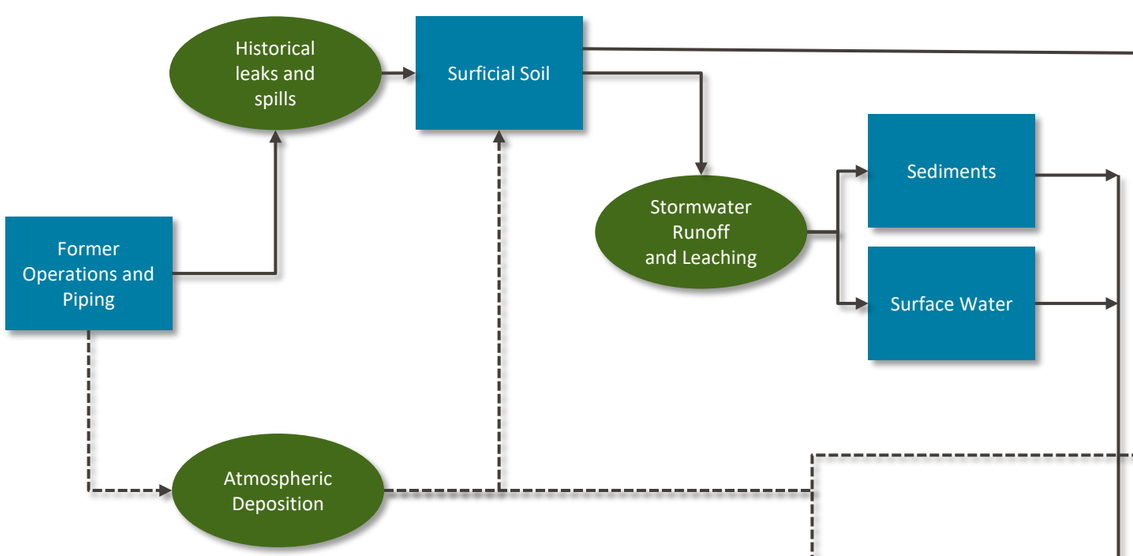
TREOIL INDUSTRIES SITE
FERNDALE, WASHINGTON

SAMPLE LOCATIONS AND EXCEEDANCES

JANUARY 2025

FIGURE 5

GIS FILE PATH: \\haleyaldrich.com\share\sea_projects\Notebooks\0204476-000_Treoil_Industries_Site\GISMaps\2025_01\204476_000_0005_SAMPLE_LOCATIONS_AND_EXCEEDANCES.mxd — USER: ayabu — LAST SAVED: 1/20/2025 4:09:12 PM



Primary Source	Primary Release Mechanism	Secondary Source	Secondary Release Mechanism	Tertiary Source	Tertiary Release Mechanism	Point of Contact	Exposure Route	Current and Potential Future Receptors: Construction Workers	Current and Potential Future Receptors: Occupational Workers/ Residents	Current and Potential Future Receptors: Terrestrial/ Wildlife
						Subsurface Soil <15 ft bgs	Ingestion Dermal Contact Inhalation	✓ ✓ ✓	I I I	✓ ✓ ✓
						Perched Groundwater	Ingestion Dermal Contact Inhalation	Ø Ø Ø	Ø Ø Ø	Ø Ø Ø
						Groundwater	Ingestion Dermal Contact Inhalation	Ø Ø Ø	Ø Ø Ø	Ø Ø Ø
						Indoor Air	Inhalation	O	O	O
						Outdoor Air	Inhalation	? / I	? / I	? / I
						Surface Water and Sediment	Ingestion Dermal Contact	I I	I I	I I

LEGEND

- → POTENTIALLY COMPLETE PATHWAY
- ⇢ UNKNOWN PATHWAY
- → CURRENTLY INCOMPLETE, BUT POTENTIAL FUTURE PATHWAY
- ✓ POTENTIALLY COMPLETE EXPOSURE ROUTE
- Ø INCOMPLETE EXPOSURE ROUTE
- I INSIGNIFICANT EXPOSURE ROUTE
- ? UNKOWN EXPOSURE ROUTE
- O CURRENTLY INCOMPLETE, BUT POTENTIAL FUTURE EXPOSURE ROUTE

NOTES

1. FT BGS = FEET BELOW GROUND SURFACE.
2. IT IS ASSUMED THAT GIVEN THE LACK OF GROUNDWATER, VOLATILIZATION WILL NOT OCCUR.

HALEY ALDRICH

TREOIL INDUSTRIES BIOREFINERY
4242 ALDERGROVE ROAD
FERNDALE, WASHINGTON

CONCEPTUAL SITE MODEL

JANUARY 2025

FIGURE 6

APPENDIX A
Ecology Water Quality Program Sample Results

Burlington, WA *Corporate Laboratory (a)*
1620 S Walnut St - Burlington, WA 98233 - **800.755.9295** • 360.757.1400

Bellingham, WA *Microbiology (b)*
805 Orchard Dr Ste 4 - Bellingham, WA 98225 - 360.715.1212

Portland, OR *Microbiology/Chemistry (c)*
9725 SW Commerce Cr Ste A2 - Wilsonville, OR 97070 - 503.682.7802

Corvallis, OR *Microbiology/Chemistry (d)*
1100 NE Circle Blvd, Ste 130 - Corvallis, OR 97330 - 541.753.4946

Bend, OR *Microbiology (e)*
20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

July 20, 2022

Elizabeth Fint
Department of Ecology - Water Resources
Bellingham Field Office
913 Squalicum Way Unit 101
Bellingham, WA 98225

RE: 22-17834 - Water Testing

Dear Elizabeth Fint,

Your project: Water Testing, was received on Friday May 27, 2022.

All samples were analyzed within the accepted holding times and were appropriately preserved and analyzed according to approved analytical protocols, unless noted in the data or QC reports. The quality control data was within laboratory acceptance limits, unless specified in the data or QC reports.

If you have questions phone us at 800 755-9295.

Respectfully

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

Enclosures: Data Report
QC Reports
Chain of Custody

Burlington, WA	Corporate Laboratory (a)	1620 S Walnut St	Burlington, WA 98233	800.755.9295 • 360.757.1400
Bellingham, WA	Microbiology (b)	805 Orchard Dr Ste 4	Bellingham, WA 98225	360.715.1212
Portland, OR	Microbiology/Chemistry (c)	9725 SW Commerce Cr A2	Wilsonville, OR 97070	503.682.7802
Corvallis, OR	Microbiology/Chemistry (d)	540 SW Third Street	Corvallis, OR 97333	541.753.4946
Bend, OR	Microbiology/Chemistry (e)	20332 Empire Ave, Ste F4	Bend, OR 97703	541.639.8425

July 20, 2022

Case Narrative

Reference: **22-17834**

Lab Sample ID	Sample Information
34353	**S-01 - Secondary Cont.**

Analytical Method	Notes	Created by
NWTPH-Dx	The chromatogram for sample 22-17834 34353 did not resemble the diesel or the other hydrocarbon reference standards. The sample was analyzed by mass spectrometry and confirmed the presences of biodiesel in the diesel and heavier oils range.	MA

Lab Sample ID	Sample Information
34355	**W-01 - Wetland**

Analytical Method	Notes	Created by
NWTPH-Dx	The chromatogram for sample 22-17834 34355 did not resemble the diesel or the other hydrocarbon reference standards. The sample was analyzed by mass spectrometry and confirmed the presences of alkenes and alkanes in the heavier oils range.	MA

EDGE ANALYTICAL

Burlington, WA *Corporate Laboratory (a)*
1620 S Walnut St - Burlington, WA 98233 - **800.755.9295** • 360.757.1400

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1100 NE Circle Blvd, Ste 130 - Corvallis, OR 97330 - 541.753.4946

Bend, OR *Microbiology (e)*
20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

Data Report

Client Name: Department of Ecology - Water Resources
Bellingham Field Office
913 Squalicum Way Unit 101
Bellingham, WA 98225

Reference Number: **22-17834**
Project: Water Testing

Report Date: 7/20/22

Date Received: 5/27/22
Approved by: anp,bj,mcs
Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

Sample Description: S-01 Secondary Cont. Matrix ST Sample Date: 5/26/22 3:42 pm
Lab Number: 34353 Sample Comment: Collected By: Mindy Collins

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
E-11778	**HARDNESS as Calcium Carbonate**	158000	3300	100	ug/L	1.0	200.7/TR	a	6/10/22	BJ	200.7_220610A	
7440-38-2	**ARSENIC**	0.9	0.5	0.5	ug/L	1.0	200.8/TR	a	6/15/22	BJ	200.8_220615A2	
7440-39-3	**BARIUM**	73.0	1	0.11	ug/L	1.0	200.8/TR	a	6/15/22	BJ	200.8_220615A2	
7440-43-9	**CADMIUM**	1.4	0.25	0.09	ug/L	1.0	200.8/TR	a	6/15/22	BJ	200.8_220615A2	
7440-47-3	**CHROMIUM**	21.6	1	0.36	ug/L	1.0	200.8/TR	a	6/15/22	BJ	200.8_220615A2	
7440-50-8	**COPPER**	5.9	2.0	0.073	ug/L	1.0	200.8/TR	a	6/15/22	BJ	200.8_220615A2	
7439-92-1	**LEAD**	39.8	0.5	0.091	ug/L	1.0	200.8/TR	a	6/15/22	BJ	200.8_220615A2	
7782-49-2	**SELENIUM**	1.7	1	0.22	ug/L	1.0	200.8/TR	a	6/15/22	BJ	200.8_220615A2	
7440-22-4	**SILVER**	ND	0.2	0.2	ug/L	1.0	200.8/TR	a	6/15/22	BJ	200.8_220615A2	
7440-66-6	**ZINC**	3.64	2.5	0.79	ug/L	1.0	200.8/TR	a	6/15/22	BJ	200.8_220615A2	
7439-97-6	**MERCURY**	ND	0.0002	5.10E-05	mg/L	1.0	245.1	a	6/3/22	TJB	245.1_220603	
59473-04-0	**TOTAL ORGANIC HALIDES**	18 J	50	4	ug/L	1.0	9020	a	6/8/22	ALS	ALS_220608	
E-10128	**TOTAL NITRATE+NITRITE as N**	0.02	0.01	0.0063	mg/L	1.0	SM4500-NO3 F	a	6/20/22	TJB	NO3NO2_220620	
7723-14-0	**TOTAL PHOSPHORUS**	0.0059 J	0.010	0.0021	mg/L	1.0	SM4500-P F/SM4500-P B(5)	a	6/22/22	TJB	TPHOS_220622	
E-10106	**5-Day BOD Test**	376	1.0		mg/L	1.0	SM5210 B	a	6/1/22	CRC	BOD_220527	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

If you have any questions concerning this report contact us at the above phone number.

Form: cRslt_2.rpt

ANALYTICAL

Reference Number: **22-17834**
Report Date: 7/20/22

Data Report

Sample Description: B-01 Background | Matrix ST | Sample Date: 5/26/22 2:40 pm
Lab Number: 34354 | Sample Comment: | Collected By: Mindy Collins

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
E-11778	**HARDNESS as Calcium Carbonate**	126000	3300	100	ug/L	1.0	200.7/TR	a	6/10/22	BJ	200.7_220610A	
7440-38-2	**ARSENIC**	2.9	0.5	0.5	ug/L	1.0	200.8/TR	a	6/15/22	BJ	200.8_220615A2	
7440-39-3	**BARIUM**	46.1	1	0.11	ug/L	1.0	200.8/TR	a	6/15/22	BJ	200.8_220615A2	
7440-43-9	**CADMIUM**	ND	0.25	0.09	ug/L	1.0	200.8/TR	a	6/15/22	BJ	200.8_220615A2	
7440-47-3	**CHROMIUM**	2.1	1	0.36	ug/L	1.0	200.8/TR	a	6/15/22	BJ	200.8_220615A2	
7440-50-8	**COPPER**	3.0	2.0	0.073	ug/L	1.0	200.8/TR	a	6/15/22	BJ	200.8_220615A2	
7439-92-1	**LEAD**	0.45 J	0.5	0.091	ug/L	1.0	200.8/TR	a	6/15/22	BJ	200.8_220615A2	
7782-49-2	**SELENIUM**	0.78 J	1	0.22	ug/L	1.0	200.8/TR	a	6/15/22	BJ	200.8_220615A2	
7440-22-4	**SILVER**	ND	0.2	0.2	ug/L	1.0	200.8/TR	a	6/15/22	BJ	200.8_220615A2	
7440-66-6	**ZINC**	10.9	2.5	0.79	ug/L	1.0	200.8/TR	a	6/15/22	BJ	200.8_220615A2	
7439-97-6	**MERCURY**	ND	0.0002	5.10E-05	mg/L	1.0	245.1	a	6/20/22	TJB	245.1_220620	
59473-04-0	**TOTAL ORGANIC HALIDES**	53	50	4	ug/L	1.0	9020	a	6/8/22	ALS	ALS_220608	
E-10128	**TOTAL NITRATE+NITRITE as N**	0.01	0.01	0.0063	mg/L	1.0	SM4500-NO3 F	a	6/20/22	TJB	NO3NO2_220620	
7723-14-0	**TOTAL PHOSPHORUS**	0.226	0.010	0.0021	mg/L	1.0	SM4500-P F/SM4500-P B(5)	a	6/22/22	TJB	TPHOS_220622	
E-10106	**5-Day BOD Test**	17	1.0		mg/L	1.0	SM5210 B	a	6/1/22	CRC	BOD_220527	

Sample Description: W-01 Wetland | Matrix ST | Sample Date: 5/26/22 3:07 pm
Lab Number: 34355 | Sample Comment: | Collected By: Mindy Collins

CAS ID#	Parameter	Result	PQL	MDL	Units	DF	Method	Lab	Analyzed	Analyst	Batch	Comment
E-11778	**HARDNESS as Calcium Carbonate**	220000	3300	100	ug/L	1.0	200.7/TR	a	6/10/22	BJ	200.7_220610A	
7440-38-2	**ARSENIC**	4.8	0.5	0.5	ug/L	1.0	200.8/TR	a	6/15/22	BJ	200.8_220615A2	
7440-39-3	**BARIUM**	213	1	0.11	ug/L	1.0	200.8/TR	a	6/15/22	BJ	200.8_220615A2	
7440-43-9	**CADMIUM**	0.4	0.25	0.09	ug/L	1.0	200.8/TR	a	6/15/22	BJ	200.8_220615A2	
7440-47-3	**CHROMIUM**	13.2	1	0.36	ug/L	1.0	200.8/TR	a	6/15/22	BJ	200.8_220615A2	
7440-50-8	**COPPER**	93.0	2.0	0.073	ug/L	1.0	200.8/TR	a	6/15/22	BJ	200.8_220615A2	
7439-92-1	**LEAD**	37.5	0.5	0.091	ug/L	1.0	200.8/TR	a	6/15/22	BJ	200.8_220615A2	
7782-49-2	**SELENIUM**	1.0	1	0.22	ug/L	1.0	200.8/TR	a	6/15/22	BJ	200.8_220615A2	
7440-22-4	**SILVER**	0.3	0.2	0.2	ug/L	1.0	200.8/TR	a	6/15/22	BJ	200.8_220615A2	
7440-66-6	**ZINC**	236	2.5	0.79	ug/L	1.0	200.8/TR	a	6/15/22	BJ	200.8_220615A2	
7439-97-6	**MERCURY**	ND	0.0002	5.10E-05	mg/L	1.0	245.1	a	6/20/22	TJB	245.1_220620	
59473-04-0	**TOTAL ORGANIC HALIDES**	56	50	4	ug/L	1.0	9020	a	6/8/22	ALS	ALS_220608	
E-10128	**TOTAL NITRATE+NITRITE as N**	0.02	0.01	0.0063	mg/L	1.0	SM4500-NO3 F	a	6/20/22	TJB	NO3NO2_220620	
7723-14-0	**TOTAL PHOSPHORUS**	0.380	0.010	0.0021	mg/L	1.0	SM4500-P F/SM4500-P B(5)	a	6/22/22	TJB	TPHOS_220622	
E-10106	**5-Day BOD Test**	76	1.0		mg/L	1.0	SM5210 B	a	6/1/22	CRC	BOD_220527	

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

EDGE ANALYTICAL

Burlington, WA *Corporate Laboratory (a)*
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Corvallis, OR *Microbiology/Chemistry (d)*
1100 NE Circle Blvd, Ste 130 - Corvallis, OR 97330 - 541.753.4946

Bend, OR *Microbiology (e)*
20332 Empire Blvd Ste 4 - Bend, OR 97701 - 541.639.8425

Hydrocarbon Data Report

Client Name: Department of Ecology - Water Resources
Bellingham Field Office
913 Squalicum Way Unit 101
Bellingham, WA 98225

Reference Number: **22-17834**
Project: Water Testing
Report Date: 7/20/22

Date Received: 5/27/22
Approved By: ma,pdm
Authorized by:

Lawrence J Henderson, PhD
Director of Laboratories, Vice President

Sample Description: S-01 - Secondary Cont.
Lab Number: 34353
Date Analyzed: 6/7/22
Sample Date: 5/26/22 15:42
Collected By: Mindy Collins
Analyzed By: NML

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Lab	Batch	Comment
NWTPH-Gx											
BENZENE	**ND**		2	5	0.8	0.44	ug/L	8260C/5030B	a	GXW_220607	
TOLUENE	**ND**		2	1000	0.8	0.36	ug/L	8260C/5030B	a	GXW_220607	
ETHYLBENZENE	**ND**		2	700	0.8	0.48	ug/L	8260C/5030B	a	GXW_220607	
XYLENES	**ND**		2		0.8	0.68	ug/L	8260C/5030B	a	GXW_220607	
NWTPH-Dx											
DIESEL (C12 - C24)	**5.97**		1	0.5	0.1	0.048	mg/L	NWTPH-Dx/3510C	a	DXW_220602	
HEAVIER OILS (>C24)	**1.19**		1	0.5	0.1		mg/L	NWTPH-Dx/3510C	a	DXW_220602	

Sample Description: B-01 - Background
Lab Number: 34354
Date Analyzed: 6/7/22
Sample Date: 5/26/22 14:40
Collected By: Mindy Collins
Analyzed By: NML

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Lab	Batch	Comment
NWTPH-Gx											
BENZENE	**ND**		5	5	2	1.1	ug/L	8260C/5030B	a	GXW_220607	
TOLUENE	**ND**		5	1000	2	0.9	ug/L	8260C/5030B	a	GXW_220607	
ETHYLBENZENE	**ND**		5	700	2	1.2	ug/L	8260C/5030B	a	GXW_220607	
XYLENES	**ND**		5		2	1.7	ug/L	8260C/5030B	a	GXW_220607	
NWTPH-Dx											
DIESEL (C12 - C24)	**ND**		1	0.5	0.1	0.048	mg/L	NWTPH-Dx/3510C	a	DXW_220602	
HEAVIER OILS (>C24)	**ND**		1	0.5	0.1		mg/L	NWTPH-Dx/3510C	a	DXW_220602	

Notation:
ND - A result of "ND" indicates that the compound was not detected above the Lab's Practical Quantitation Limit - PQL.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor
Cleanup Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter173-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001
The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.

If you have any questions concerning this report contact us at the above phone number.
Form: cHCID.rpt

Reference Number: **22-17834**
Report Date: 7/20/22

Hydrocarbon Data Report

Sample Description: W-01 - Wetland
Lab Number: 34355
Date Analyzed: 6/7/22

Sample Date: 5/26/22 15:07
Collected By: Mindy Collins
Analyzed By: NML

Parameter	Result	Flag	DF	Cleanup Level	PQL	MDL	Units	Method	Lab	Batch	Comment
NWTPH-Gx											
BENZENE	**ND**		5	5	2	1.1	ug/L	8260C/5030B	a	GXW_220607	
TOLUENE	**21.2**		5	1000	2	0.9	ug/L	8260C/5030B	a	GXW_220607	
ETHYLBENZENE	**ND**		5	700	2	1.2	ug/L	8260C/5030B	a	GXW_220607	
XYLENES	**ND**		5		2	1.7	ug/L	8260C/5030B	a	GXW_220607	
NWTPH-Dx											
DIESEL (C12 - C24)	**ND**		1	0.5	0.1	0.048	mg/L	NWTPH-Dx/3510C	a	DXW_220602	
HEAVIER OILS (>C24)	**1.25**	N1	1	0.5	0.1		mg/L	NWTPH-Dx/3510C	a	DXW_220602	

Notation:

ND - A result of "ND" indicates that the compound was not detected above the Lab's Practical Quantitation Limit - PQL.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor
Cleanup Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter173-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001

The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.

ANALYTICAL

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **22-17834**
Report Date: 07/20/22

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
Calibration Check											
200.7_220610A	2	HARDNESS as Calcium Carbonate	73.4	72.8	mg/L	200.7	101	90-110		CAL	
200.8_220615A2	0	ZINC	0.00103	0.001	mg/L	200.8	103	80-120		CAL	
	0	ARSENIC	0.00101	0.001	mg/L	200.8	101	80-120		CAL	
	0	BARIUM	0.00104	0.001	mg/L	200.8	104	80-120		CAL	
	0	CADMIUM	0.00099	0.001	mg/L	200.8	99	80-120		CAL	
	0	CHROMIUM	0.00099	0.001	mg/L	200.8	99	80-120		CAL	
	0	COPPER	0.00101	0.001	mg/L	200.8	101	80-120		CAL	
	0	LEAD	0.001	0.001	mg/L	200.8	100	80-120		CAL	
	0	SELENIUM	0.00096	0.001	mg/L	200.8	96	80-120		CAL	
	0	SILVER	0.00104	0.001	mg/L	200.8	104	80-120		CAL	
245.1_220603	0	MERCURY	0.00205	0.002	mg/L	245.1	103	95-105		CAL	
245.1_220620	0	MERCURY	0.00194	0.002	mg/L	245.1	97	95-105		CAL	
NO3NO2_22062(	0	TOTAL NITRATE+NITRITE as N	1.03	1.00	mg/L	SM4500-NO3 F	103	90-110		CAL	
tphos_220622	0	TOTAL PHOSPHORUS	0.101	0.100	mg/L	SM4500-P F	101	85-115		CAL	
Laboratory Fortified Blank											
200.7_220610A	2	HARDNESS as Calcium Carbonate	45.9	43	mg/L	200.7	107	85-115		LFB	
200.8_220615A2	0	ZINC	0.012	0.0125	mg/L	200.8	96	85-115		LFB	
	0	ARSENIC	0.0118	0.0125	mg/L	200.8	94	85-115		LFB	
	0	BARIUM	0.0126	0.0125	mg/L	200.8	101	85-115		LFB	
	0	CADMIUM	0.0118	0.0125	mg/L	200.8	94	85-115		LFB	
	0	CHROMIUM	0.0122	0.0125	mg/L	200.8	98	85-115		LFB	
	0	COPPER	0.0128	0.0125	mg/L	200.8	102	85-115		LFB	
	0	LEAD	0.0119	0.0125	mg/L	200.8	95	85-115		LFB	
	0	SELENIUM	0.0116	0.0125	mg/L	200.8	93	85-115		LFB	
	0	SILVER	0.00624	0.00625	mg/L	200.8	100	85-115		LFB	
245.1_220603	0	MERCURY	0.00160	0.00167	mg/L	245.1	96	85-115		LFB	
245.1_220620	0	MERCURY	0.00160	0.00167	mg/L	245.1	96	85-115		LFB	
DXW_220602	0	DIESEL (C12 - C24)	5.06	5	mg/L	NWTPH-Dx	101	70-130		LFB	
GXW_220607	0	BENZENE	0.0100	0.01	mg/L	8260C	100	80-120		LFB	
	0	ETHYLBENZENE	0.0100	0.01	mg/L	8260C	100	80-120		LFB	
	0	TOLUENE	0.0101	0.01	mg/L	8260C	101	80-120		LFB	
	0	XYLENES	0.0298	0.03	mg/L	8260C	99	80-120		LFB	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QCIndependent4.rpt

ANALYTICAL

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **22-17834**
Report Date: 07/20/22

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
Laboratory Reagent Blank											
200.7_220610A	0	HARDNESS as Calcium Carbonate	ND		mg/L	200.7		0-0		LRB	
200.8_220615A2	0	ZINC	ND		mg/L	200.8		0-0		LRB	
	0	ARSENIC	ND		mg/L	200.8		0-0		LRB	
	0	BARIUM	ND		mg/L	200.8		0-0		LRB	
	0	CADMIUM	ND		mg/L	200.8		0-0		LRB	
	0	CHROMIUM	ND		mg/L	200.8		0-0		LRB	
	0	COPPER	ND		mg/L	200.8		0-0		LRB	
	0	LEAD	ND		mg/L	200.8		0-0		LRB	
	0	SELENIUM	ND		mg/L	200.8		0-0		LRB	
	0	SILVER	ND		mg/L	200.8		0-0		LRB	
245.1_220603	0	MERCURY	ND		mg/L	245.1		0-0		LRB	
245.1_220620	0	MERCURY	ND		mg/L	245.1		0-0		LRB	
NO3NO2_22062(	0	TOTAL NITRATE+NITRITE as N	ND		mg/L	SM4500-NO3 F		0-0		LRB	
tphos_220622	0	TOTAL PHOSPHORUS	ND		mg/L	SM4500-P F		0-0		LRB	
Method Blank											
200.7_220610A	0	HARDNESS as Calcium Carbonate	ND		mg/L	200.7		0-0		MB	
200.8_220615A2	0	ZINC	0.0008		mg/L	200.8		0-0		MB	
	0	ARSENIC	ND		mg/L	200.8		0-0		MB	
	0	BARIUM	ND		mg/L	200.8		0-0		MB	
	0	CADMIUM	ND		mg/L	200.8		0-0		MB	
	0	CHROMIUM	ND		mg/L	200.8		0-0		MB	
	0	COPPER	0.0002		mg/L	200.8		0-0		MB	
	0	LEAD	ND		mg/L	200.8		0-0		MB	
	0	SELENIUM	ND		mg/L	200.8		0-0		MB	
	0	SILVER	ND		mg/L	200.8		0-0		MB	
BOD_220527	0	5-Day BOD Test	ND		mg/L	SM5210 B		0-0		MB	
DXW_220602	0	DIESEL (C12 - C24)	ND		mg/L	NWTPH-Dx		0-0		MB	
	0	HEAVIER OILS (>C24)	ND		mg/L	NWTPH-Dx		0-0		MB	
GXW_220607	0	BENZENE	ND		mg/L	8260C		0-0		MB	
	0	ETHYLBENZENE	ND		mg/L	8260C		0-0		MB	
	0	TOLUENE	ND		mg/L	8260C		0-0		MB	
	0	XYLENES	ND		mg/L	8260C		0-0		MB	
	1	BENZENE	ND		mg/L	8260C		0-0		MB	TB 22-17834
	1	ETHYLBENZENE	ND		mg/L	8260C		0-0		MB	TB 22-17834
	1	TOLUENE	ND		mg/L	8260C		0-0		MB	TB 22-17834
	1	XYLENES	ND		mg/L	8260C		0-0		MB	TB 22-17834
NO3NO2_22062(	0	TOTAL NITRATE+NITRITE as N	ND		mg/L	SM4500-NO3 F		0-0		MB	
tphos_220622	0	TOTAL PHOSPHORUS	ND		mg/L	SM4500-P F		0-0		MB	

*Notation:
% Recovery = (Result of Analysis)/(True Value) * 100
NA = Indicates % Recovery could not be calculated.
Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

ANALYTICAL

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Reference Number: **22-17834**
Report Date: 07/20/22

Batch		Analyte	Result	True Value	Units	Method	% Recovery	Limits*	QC Qualifier	QC Type	Comment
Method Detection Limit Sample											
GXW_220607	0	BENZENE	0.48	0.4	ug/L	8260C	120	50-150		MDL	
	0	ETHYLBENZENE	0.43	0.4	ug/L	8260C	108	50-150		MDL	
	0	TOLUENE	0.46	0.4	ug/L	8260C	115	50-150		MDL	
	0	XYLENES	1.32	1.2	ug/L	8260C	110	50-150		MDL	
Quality Control Sample											
200.7_220610A	1	HARDNESS as Calcium Carbonate	138	132.3	mg/L	200.7	104	95-105		QCS	
200.8_220615A2	0	ZINC	0.0389	0.04	mg/L	200.8	97	90-110		QCS	
	0	ARSENIC	0.0403	0.04	mg/L	200.8	101	90-110		QCS	
	0	BARIUM	0.0403	0.04	mg/L	200.8	101	90-110		QCS	
	0	CADMIUM	0.0396	0.04	mg/L	200.8	99	90-110		QCS	
	0	CHROMIUM	0.0402	0.04	mg/L	200.8	101	90-110		QCS	
	0	COPPER	0.0409	0.04	mg/L	200.8	102	90-110		QCS	
	0	LEAD	0.0388	0.04	mg/L	200.8	97	90-110		QCS	
	0	SELENIUM	0.0402	0.04	mg/L	200.8	101	90-110		QCS	
	0	SILVER	0.021	0.02	mg/L	200.8	105	90-110		QCS	
245.1_220603	0	MERCURY	0.00231	0.00248	mg/L	245.1	93	90-110		QCS	
245.1_220620	0	MERCURY	0.00246	0.00248	mg/L	245.1	99	90-110		QCS	
BOD_220527	0	5-Day BOD Test	179	198	mg/L	SM5210 B	90	85-115		QCS	
NO3NO2_22062(	0	TOTAL NITRATE+NITRITE as N	1.97	2.00	mg/L	SM4500-NO3 F	99	90-110		QCS	
tphos_220622	0	TOTAL PHOSPHORUS	0.166	0.172	mg/L	SM4500-P F	97	90-110		QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QCIndependent4.rpt

SAMPLE DEPENDENT
QUALITY CONTROL REPORT
Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

Duplicate

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Type	Comments
200.7_220610A										
E-11778	34355	HARDNESS as Calcium Carbonate	220000	221000	ug/L	**0.5**	0-20		DUP	
E-11778	35338	HARDNESS as Calcium Carbonate	41.1	41.3	mg/L	**0.5**	0-20		DUP	
200.8_220615A2										
7440-50-8	32934	COPPER	0.0013	0.0013	mg/L	**0.0**	0-20		DUP	
7440-38-2	34355	ARSENIC	4.8	5.1	ug/L	**6.1**	0-20		DUP	
7440-39-3	34355	BARIUM	213	223	ug/L	**4.6**	0-20		DUP	
7440-43-9	34355	CADMIUM	0.4	0.4	ug/L	**0.0**	0-20		DUP	
7440-47-3	34355	CHROMIUM	13.2	14.1	ug/L	**6.6**	0-20		DUP	
7440-50-8	34355	COPPER	93.0	94.1	ug/L	**1.2**	0-20		DUP	
7439-92-1	34355	LEAD	37.5	39.2	ug/L	**4.4**	0-20		DUP	
7782-49-2	34355	SELENIUM	1.0	1.0	ug/L	**0.0**	0-20		DUP	
7440-22-4	34355	SILVER	0.3	0.3	ug/L	**0.0**	0-20		DUP	
7440-66-6	34355	ZINC	236	246	ug/L	**4.1**	0-20		DUP	
7440-50-8	34471	COPPER	512	513	ug/L	**0.2**	0-20		DUP	
7439-92-1	34471	LEAD	3.3	3.5	ug/L	**5.9**	0-20		DUP	
7440-66-6	34471	ZINC	185	188	ug/L	**1.6**	0-20		DUP	
7440-66-6	35168	ZINC	25.6	26.1	ug/L	**1.9**	0-20		DUP	
7440-50-8	35602	COPPER	0.0030	0.0031	mg/L	**3.3**	0-20		DUP	
7440-66-6	35602	ZINC	0.0434	0.0423	mg/L	**2.6**	0-20		DUP	
7440-66-6	36911	ZINC	0.0019	0.0018	mg/L	**5.4**	0-20		DUP	
BOD_220527										
E-10106	34013	5-Day BOD Test	476	304	mg/L	**44.1**	0-20	INH	DUP	
E-10106	34116	5-Day BOD Test	24	11	mg/L	**74.3**	0-20	INH	DUP	
DXW_220602										
NA	34353	DIESEL (C12 - C24)	5.97	1.91	mg/L	**103.0**	0-30	FH	DUP	
NA	34353	HEAVIER OILS (>C24)	1.19	0.24	mg/L	**132.9**	0-30	FH	DUP	
GXW_220607										

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

Reference Number: 22-17834
Report Date: 7/20/2022

Duplicate

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Type	Comments
71-43-2	34355	BENZENE	ND	ND	ug/L	**NA**	0-30		DUP	
100-41-4	34355	ETHYLBENZENE	ND	ND	ug/L	**NA**	0-30		DUP	
108-88-3	34355	TOLUENE	21.2	15.8	ug/L	**29.2**	0-30		DUP	
1330-20-7	34355	XYLENES	ND	ND	ug/L	**NA**	0-30		DUP	
71-43-2	35933	BENZENE	ND	ND	mg/L	**NA**	0-30		DUP	
100-41-4	35933	ETHYLBENZENE	ND	ND	mg/L	**NA**	0-30		DUP	
108-88-3	35933	TOLUENE	ND	ND	mg/L	**NA**	0-30		DUP	
1330-20-7	35933	XYLENES	ND	ND	mg/L	**NA**	0-30		DUP	
NO3NO2_220620										
E-10128	33445	TOTAL NITRATE+NITRITE as N	0.05	0.05	mg/L	**0.0**	0-20		DUP	
E-10128	33449	TOTAL NITRATE+NITRITE as N	0.13	0.12	mg/L	**8.0**	0-20		DUP	
E-10128	33898	TOTAL NITRATE+NITRITE as N	0.04	0.04	mg/L	**0.0**	0-20		DUP	
E-10128	34242	TOTAL NITRATE+NITRITE as N	0.05	0.05	mg/L	**0.0**	0-20		DUP	
TPHOS_220622										
7723-14-0	33825	TOTAL PHOSPHORUS	0.014	0.034	mg/L	**83.3**	0-20	INH	DUP	
7723-14-0	34113	TOTAL PHOSPHORUS	0.0085	0.010	mg/L	**16.2**	0-20		DUP	
7723-14-0	36723	TOTAL PHOSPHORUS	0.048	0.048	mg/L	**0.0**	0-20		DUP	
7723-14-0	36732	TOTAL PHOSPHORUS	ND	ND	mg/L	**NA**	0-20		DUP	
7723-14-0	36738	TOTAL PHOSPHORUS	0.145	0.147	mg/L	**1.4**	0-20		DUP	
7723-14-0	36739	TOTAL PHOSPHORUS	0.591	0.576	mg/L	**2.6**	0-20		DUP	
7723-14-0	36834	TOTAL PHOSPHORUS	0.029	0.030	mg/L	**3.4**	0-20		DUP	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

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Laboratory Fortified Matrix (MS)

Batch/CAS	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Conc	Units	Percent Recovery MS	Percent Recovery MSD	Limits*	%RPD	Limits*	QC Qualifier	Type	Comments
200.7_220610A															
E-11778	34355	HARDNESS as Calcium Carbonate	220000	265000		43000	ug/L	**105**		70-130	**NA**	0-20		LFM	
E-11778	35338	HARDNESS as Calcium Carbonate	41.1	83.8		43.0	mg/L	**99**		70-130	**NA**	0-20		LFM	
200.8_220615A2															
7440-50-8	32934	COPPER	0.0013	0.0140		0.0125	mg/L	**102**		70-130	**NA**	0-20		LFM	
7440-38-2	34355	ARSENIC	4.8	17.5		12.5	ug/L	**102**		70-130	**NA**	0-20		LFM	
7440-39-3	34355	BARIUM	213	432		250	ug/L	**88**		70-130	**NA**	0-20		LFM	
7440-43-9	34355	CADMIUM	0.4	12.5		12.5	ug/L	**97**		70-130	**NA**	0-20		LFM	
7440-47-3	34355	CHROMIUM	13.2	26.0		12.5	ug/L	**102**		70-130	**NA**	0-20		LFM	
7440-50-8	34355	COPPER	93.0	106		12.5	ug/L	**104**		70-130	**NA**	0-20		LFM	
7439-92-1	34355	LEAD	37.5	50.8		12.5	ug/L	**106**		70-130	**NA**	0-20		LFM	
7782-49-2	34355	SELENIUM	1.0	12.7		12.5	ug/L	**94**		70-130	**NA**	0-20		LFM	
7440-22-4	34355	SILVER	0.3	6.5		6.25	ug/L	**99**		70-130	**NA**	0-20		LFM	
7440-66-6	34355	ZINC	236	251		12.5	ug/L	**120**		70-130	**NA**	0-20		LFM	
7440-50-8	34471	COPPER	512	523		12.5	ug/L	**88**		70-130	**NA**	0-20		LFM	
7439-92-1	34471	LEAD	3.3	15.3		12.5	ug/L	**96**		70-130	**NA**	0-20		LFM	
7440-66-6	34471	ZINC	185	196		12.5	ug/L	**88**		70-130	**NA**	0-20		LFM	
7440-66-6	35168	ZINC	25.6	37.4		12.5	ug/L	**94**		70-130	**NA**	0-20		LFM	
7440-50-8	35602	COPPER	0.0030	0.0154		0.0125	mg/L	**99**		70-130	**NA**	0-20		LFM	
7440-66-6	35602	ZINC	0.0434	0.0568		0.0125	mg/L	**107**		70-130	**NA**	0-20		LFM	
7440-66-6	36911	ZINC	0.0019	0.0132		0.0125	mg/L	**90**		70-130	**NA**	0-20		LFM	
245.1_220603															
7439-97-6	34353	MERCURY	ND	0.00152	0.00153	0.00167	mg/L	**91**	**92**	70-130	**0.7**	0-20		LFM	
245.1_220620															
7439-97-6	34354	MERCURY	ND	0.00158	0.00154	0.00167	mg/L	**95**	**92**	70-130	**2.6**	0-20		LFM	
GXW_220607															
71-43-2	35932	BENZENE	ND	0.0042		0.004	mg/L	**105**	**NA**	70-130	**NA**	0-30		LFM	
100-41-4	35932	ETHYLBENZENE	ND	0.0040		0.004	mg/L	**100**	**NA**	70-130	**NA**	0-30		LFM	
108-88-3	35932	TOLUENE	ND	0.0042		0.004	mg/L	**105**	**NA**	70-130	**NA**	0-30		LFM	
1330-20-7	35932	XYLENES	ND	0.0119		0.012	mg/L	**99**	**NA**	70-130	**NA**	0-30		LFM	
NO3NO2_220620															
E-10128	33445	TOTAL NITRATE+NITRITE as N	0.05	1.05	1.05	1.00	mg/L	**100**	**100**	80-120	**0.0**	0-20		LFM	
E-10128	33449	TOTAL NITRATE+NITRITE as N	0.13	1.13	1.14	1.00	mg/L	**100**	**101**	80-120	**1.0**	0-20		LFM	
E-10128	33898	TOTAL NITRATE+NITRITE as N	0.04	0.94	0.95	1.00	mg/L	**90**	**91**	80-120	**1.1**	0-20		LFM	
E-10128	34242	TOTAL NITRATE+NITRITE as N	0.05	0.99	1.00	1.00	mg/L	**94**	**95**	80-120	**1.1**	0-20		LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

Reference Number: 22-17834
Report Date: 7/20/2022

Laboratory Fortified Matrix (MS)

Batch/CAS	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Conc	Units	Percent Recovery MS	Percent Recovery MSD	Limits*	%RPD	Limits*	QC Qualifier	Type	Comments
TPHOS_220622															
7723-14-0	33825	TOTAL PHOSPHORUS	0.014	0.066	0.065	0.050	mg/L	**104**	**102**	70-130	**1.9**	0-20		LFM	
7723-14-0	34113	TOTAL PHOSPHORUS	0.0085	0.057	0.056	0.050	mg/L	**97**	**95**	70-130	**2.1**	0-20		LFM	
7723-14-0	36723	TOTAL PHOSPHORUS	0.048	0.096	0.098	0.050	mg/L	**96**	**100**	70-130	**4.1**	0-20		LFM	
7723-14-0	36732	TOTAL PHOSPHORUS	ND	0.050	0.053	0.050	mg/L	**100**	**106**	70-130	**5.8**	0-20		LFM	
7723-14-0	36738	TOTAL PHOSPHORUS	0.145	0.201	0.189	0.050	mg/L	**112**	**88**	70-130	**24.0**	0-20	INH	LFM	
7723-14-0	36739	TOTAL PHOSPHORUS	0.591	0.650	0.634	0.050	mg/L	**118**	**86**	70-130	**31.4**	0-20	IS	LFM	
7723-14-0	36834	TOTAL PHOSPHORUS	0.029	0.083	0.079	0.050	mg/L	**108**	**100**	70-130	**7.7**	0-20		LFM	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

QUALITY CONTROL REPORT
SURROGATE REPORT

Reference Number: 22-17834
Report Date: 07/20/22

Lab No	Analyte	Result	Qualifier	Units	Method	Limit
DXW_220602						
34353	O-TERPHENYL	127	N1	%	NWTPH-Dx	Acceptance Limits: 50-150%
GXW_220607						
34353	d8-TOLUENE (Surr)	101		%	8260C	
DXW_220602						
34354	O-TERPHENYL	89		%	NWTPH-Dx	Acceptance Limits: 50-150%
GXW_220607						
34354	d8-TOLUENE (Surr)	100		%	8260C	
DXW_220602						
34355	O-TERPHENYL	100		%	NWTPH-Dx	Acceptance Limits: 50-150%
GXW_220607						
34355	d8-TOLUENE (Surr)	98		%	8260C	

*Notation:

A surrogate is a pure compound added to a sample in the laboratory just before processing so that the overall efficiency of a meA surrogate is a pure compound added to a sample in the la

The Acceptance Limits (or Control Limits) approximate a 99% confidence interval around the mean recovery.

Qualifier Definitions

Reference Number: 22-17834
Report Date: 07/20/22

Qualifier	Definition
FH	Field duplicates did not appear to be homogeneous. The higher values were reported as the sample recovery and the lower values as the Duplicate recovery.
INH	The sample was non-homogeneous
IS	The ratio of the spike concentration to sample background was too low to meet performance criteria
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
N1	See case narrative.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

Chain of Custody / Analysis Request

22-17834
34353 - 34355

(Please complete all applicable shaded sections)

Page _____ of _____

Report to: Dept of Ecology	Bill to: Same MIS00	For Lab Use Only
Ship Address:	Address:	Ref #
City: St: Zip:	City: St: WA Zip:	Check Regulatory Program
Attn: Elizabeth ~~Flint~~ Fint	Phone: FAX:	☐ Safe Drinking Water Act
Phone: . FAX:	P.O.#: DEP02 Attn:	☐ Clean Water Act
Email: efin461@ECY.WA.GOV	☐ Visa ☐ M/C ☐ A/E Expires /	☐ RCRA / CERCLA
Project	Card#:	☐ Other

EDGE ANALYTICAL
Main Lab (800-755-9295)
1620 South Walnut St. Burlington, WA 98233
Microbiology (888-725-1212)
805 W. Orchard Dr. Suite 4 Bellingham, WA 98225
Wilsonville Lab (503-682-7802)
9725 SW Commerce Cir. Ste A2 Wilsonville, OR 97070
Corvallis Lab (541-753-4946)
1100 NE Circle Blvd, Ste 130, Corvallis, OR 97330
Bend Lab (541-639-8425)
20332 Empire Ave Ste F4, Bend, OR 97703

1. Use one line per sample Location.
2. Be specific in analysis requests.
3. List each metal individually
4. Check off analyses to be performed for each sample Location.
5. Enter number of containers.
6. ***(NEW)*** Report to __ MDL or __ PQL ***(NEW)***

Turn Around Time Required
- ☐ Standard
- ☐ Half-time (50% surcharge)
- ☐ Quickest (100% surcharge) Phone Call Req.
- ☐ Emergency (Phone Call Req.)

Analyses Requested

CO052429

	Field ID	Location	Grab/ Comp	Sample Matrix*	Date	Time	BOD (ONLY)	BTEX	NO2/NO3, T.Phos	NWTPH-Dx	RCRA Metals, Cu, Zn, HARD	TOX			Number of Containers	Special Instructions Conditions on Receipt
1	S-01	Secondary Cont.	Comp*	ST	5-26-22	3:42pm	X	X	X	X	X	X				* BTEX grab
2	B-01	background	Grab	SW	5-26-22	2:40pm	X	X	X	X	X	X				
3	W-01	Wetland	Grab	SW	5-26-22	3:07pm	X	X	X	X	X	X				
4																
5																
6																
7																
8																
9																

**Are there known hazardous or dangerous wastes in these samples? YES / NO If YES, indicate type on reverse of this form; samples may be returned to you.

Total Containers

Sampled by: Mindy Collins Phone: 360-296-0274 FAX: Email: efin461@ECY.WA.GOV

Sample Receipt Request (Must include FAX or (Email)) X

* **W** - water **SW** - surface water **WW** - waste water **SL** - salt water
DW - drinking water **ST** - storm water **S** - soil **OL** - oil Other:

**Relinquished by	Date	Time	Received by	Date	Time
[signature]	5-26-22	5:20p	RML	5/26/22	1720

EDGE 5/27/22 1500
REC8

	Yes	No	N/A
Custody seals intact	X		
Sample temp 13.3 C satisfactory	Y		
Samples received intact	X		
Chain of custody & labels agree	X		

FORM COC 3-7-2022

APPENDIX B
Environmental Justice Review Documentation

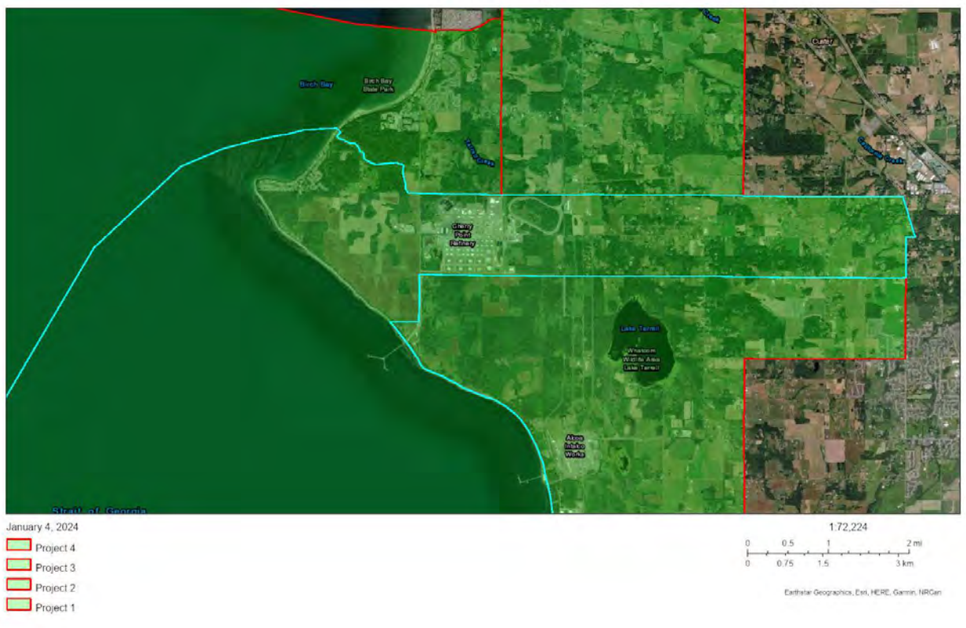
EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

Whatcom County, WA

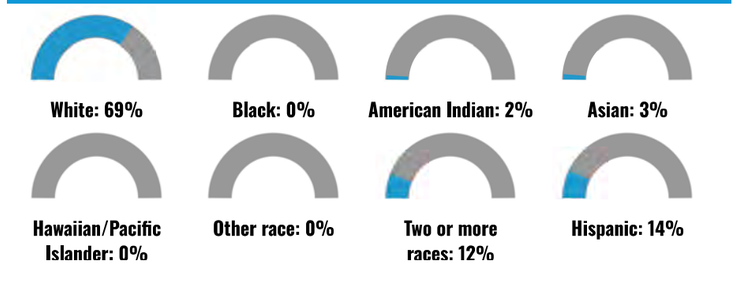
Blockgroup: 530730105042
Population: 921
Area in square miles: 37.01

A3 Landscape



COMMUNITY INFORMATION

BREAKDOWN BY RACE

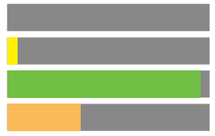


LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	81%

Spanish	2%
German or other West Germanic	1%
Russian, Polish, or Other Slavic	7%
Other Indo-European	1%
Korean	3%
Other Asian and Pacific Island	1%
Arabic	4%
Total Non-English	19%

BREAKDOWN BY AGE



From Ages 1 to 4	**0%**
From Ages 1 to 18	**5%**
From Ages 18 and up	**95%**
From Ages 65 and up	**36%**

LIMITED ENGLISH SPEAKING BREAKDOWN

Speak Spanish	**0%**
Speak Other Indo-European Languages	**100%**
Speak Asian-Pacific Island Languages	**0%**
Speak Other Languages	**0%**

Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race.
Source: U.S. Census Bureau, American Community Survey (ACS) 2017 -2021. Life expectancy data comes from the Centers for Disease Control.

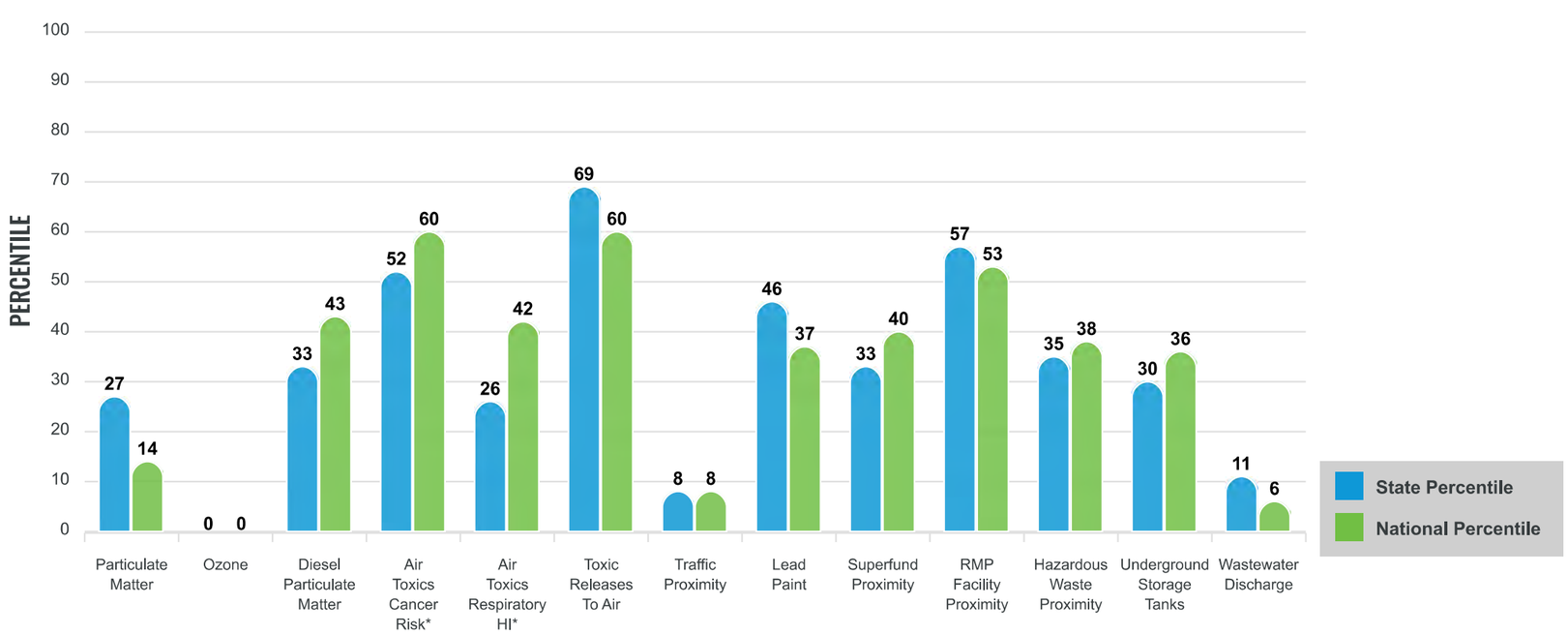
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the EJScreen website.

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

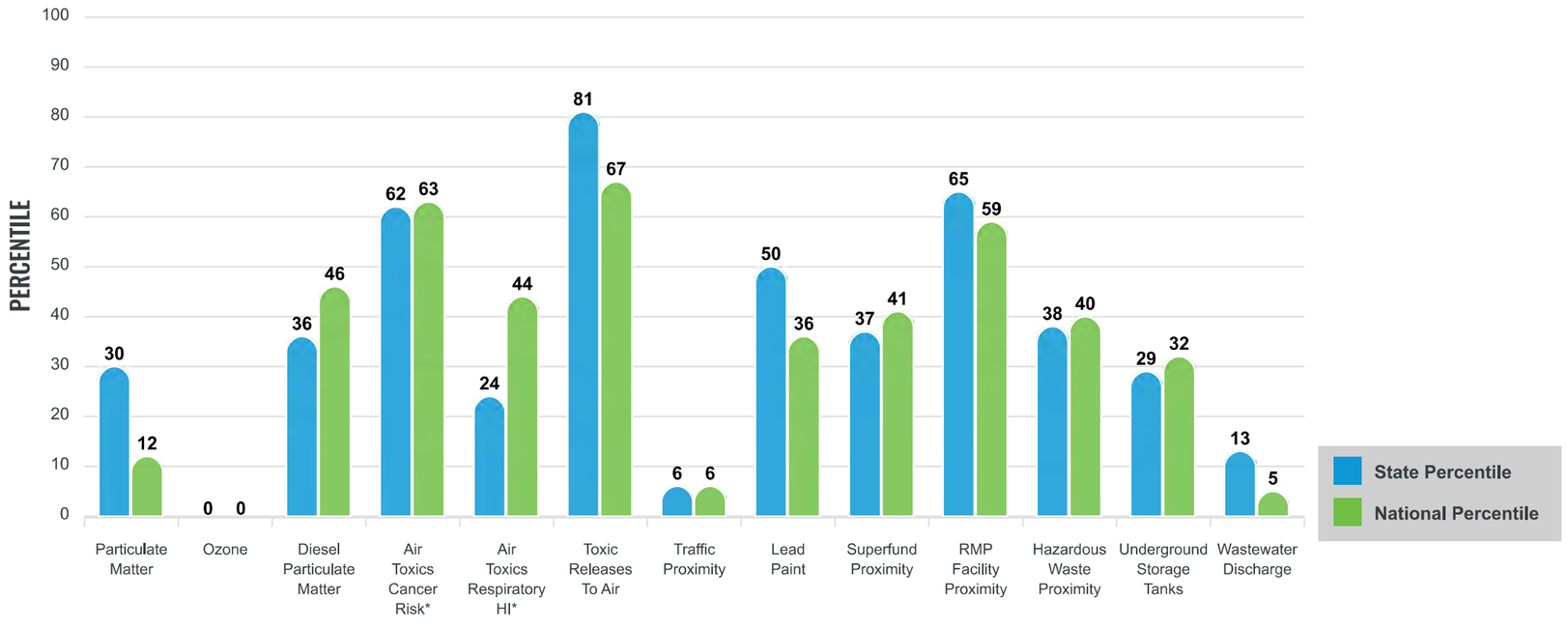
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for Blockgroup: 530730105042

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu g/m^3$)	6.51	7.02	28	8.08	12
Ozone (ppb)	44.4	49.8	0	61.6	0
Diesel Particulate Matter ($\mu g/m^3$)	0.217	0.355	34	0.261	50
Air Toxics Cancer Risk* (lifetime risk per million)	30	27	37	25	52
Air Toxics Respiratory HI*	0.3	0.39	14	0.31	31
Toxic Releases to Air	5,800	1,800	94	4,600	87
Traffic Proximity (daily traffic count/distance to road)	2	190	6	210	6
Lead Paint (% Pre-1960 Housing)	0.15	0.23	52	0.3	42
Superfund Proximity (site count/km distance)	0.052	0.18	33	0.13	44
RMP Facility Proximity (facility count/km distance)	0.44	0.4	75	0.43	74
Hazardous Waste Proximity (facility count/km distance)	0.28	1.6	37	1.9	42
Underground Storage Tanks (count/km^2)	0.2	6.3	27	3.9	32
Wastewater Discharge (toxicity-weighted concentration/m distance)	3.4E-07	0.024	11	22	5
SOCIOECONOMIC INDICATORS					
Demographic Index	19%	28%	31	35%	29
Supplemental Demographic Index	9%	12%	41	14%	30
People of Color	31%	32%	56	39%	50
Low Income	6%	24%	13	31%	11
Unemployment Rate	6%	5%	69	6%	67
Limited English Speaking Households	3%	4%	67	5%	69
Less Than High School Education	12%	8%	77	12%	64
Under Age 5	0%	6%	0	6%	0
Over Age 64	36%	16%	94	17%	93
Low Life Expectancy	18%	18%	54	20%	41

*Diesel particulate matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: https://www.epa.gov/haps/air-toxics-data-update.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	1
Water Dischargers	23
Air Pollution	4
Brownfields	0
Toxic Release Inventory	3

Other community features within defined area:

Schools	0
Hospitals	0
Places of Worship	0

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	No
Selected location contains an EPA IRA disadvantaged community	No

Report for Blockgroup: 530730105042

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS

INDICATOR	HEALTH VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	18%	18%	54	20%	41
Heart Disease	5.3	5.3	51	6.1	35
Asthma	10.6	10.5	51	10	71
Cancer	6.3	6.3	50	6.1	52
Persons with Disabilities	16.7%	13.1%	75	13.4%	74

CLIMATE INDICATORS

INDICATOR	HEALTH VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	1%	11%	25	12%	19
Wildfire Risk	0%	12%	0	14%	0

CRITICAL SERVICE GAPS

INDICATOR	HEALTH VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	17%	9%	84	14%	68
Lack of Health Insurance	2%	6%	16	9%	15
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access	Yes	N/A	N/A	N/A	N/A
Food Desert	No	N/A	N/A	N/A	N/A

Footnotes

Report for Blockgroup: 530730105042

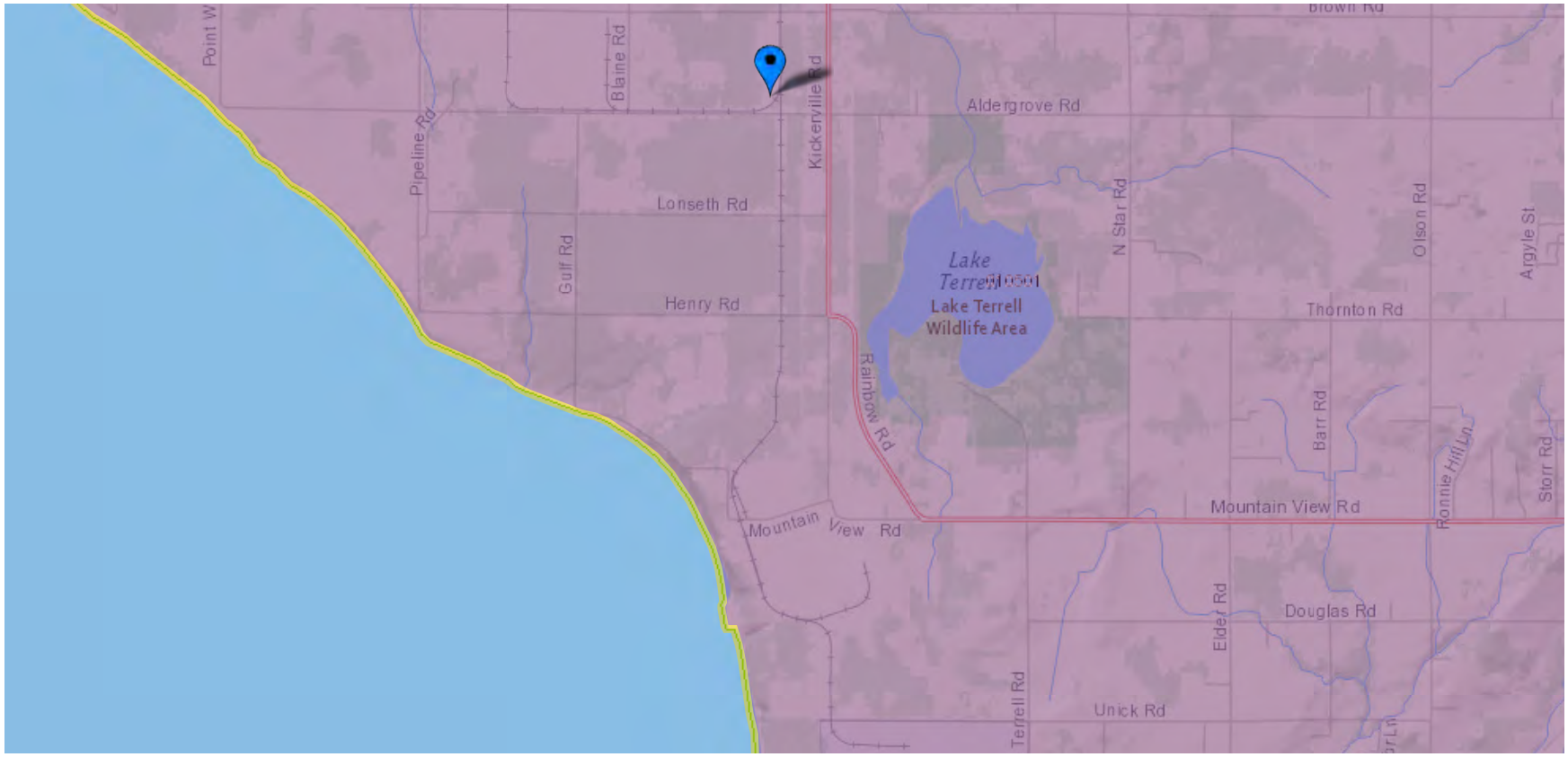
Washington State Department of Health

Selection:

Date: 02/15/2024 at 5:16 PM

Environmental Health Disparities V 2.0 -> Environmental Exposures -> Toxic Releases from Facilities (RSEI Model)

Legend: (High) 10 9 8 7 6 5 4 3 2 1 **(Low)**



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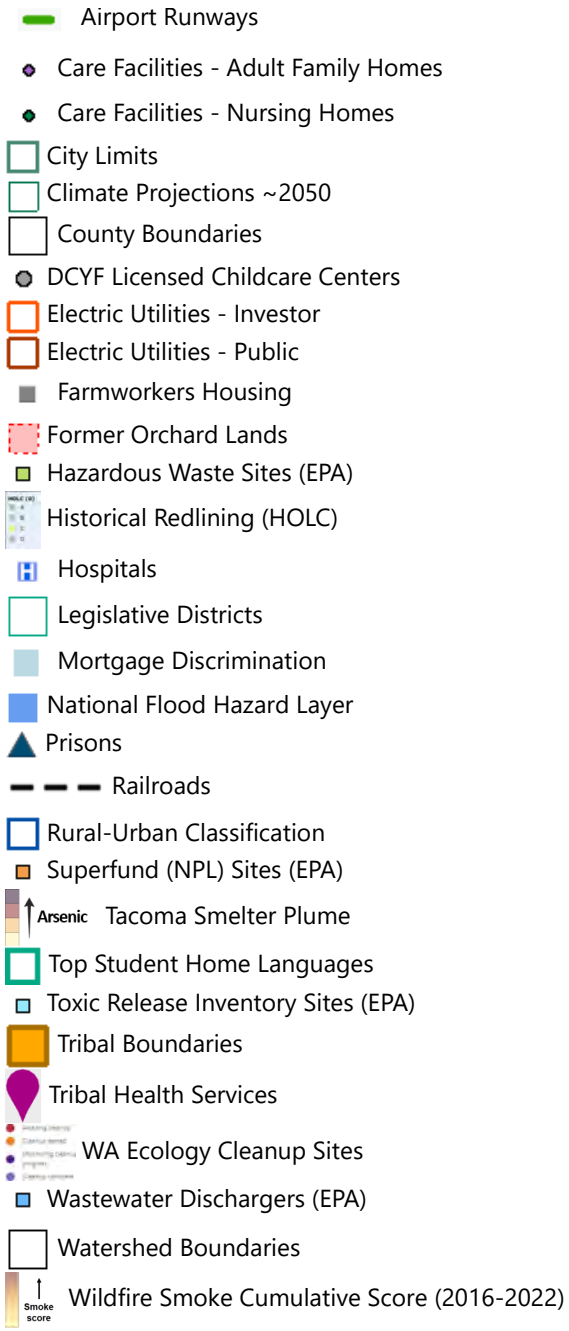
Legend


Airport Runways
Care Facilities - Adult Family Homes
Care Facilities - Nursing Homes
City Limits
Climate Projections ~2050
County Boundaries
DCYF Licensed Childcare Centers
Electric Utilities - Investor
Electric Utilities - Public
Farmworkers Housing
Former Orchard Lands
Hazardous Waste Sites (EPA)
Historical Redlining (HOLC)
Hospitals
Legislative Districts
Mortgage Discrimination
National Flood Hazard Layer
Prisons
Railroads
Rural-Urban Classification
Superfund (NPL) Sites (EPA)
Arsenic
Tacoma Smelter Plume
Top Student Home Languages
Toxic Release Inventory Sites (EPA)
Tribal Boundaries
Tribal Health Services
WA Ecology Cleanup Sites
Wastewater Dischargers (EPA)
Watershed Boundaries
Smoke score
Wildfire Smoke Cumulative Score (2016-2022)

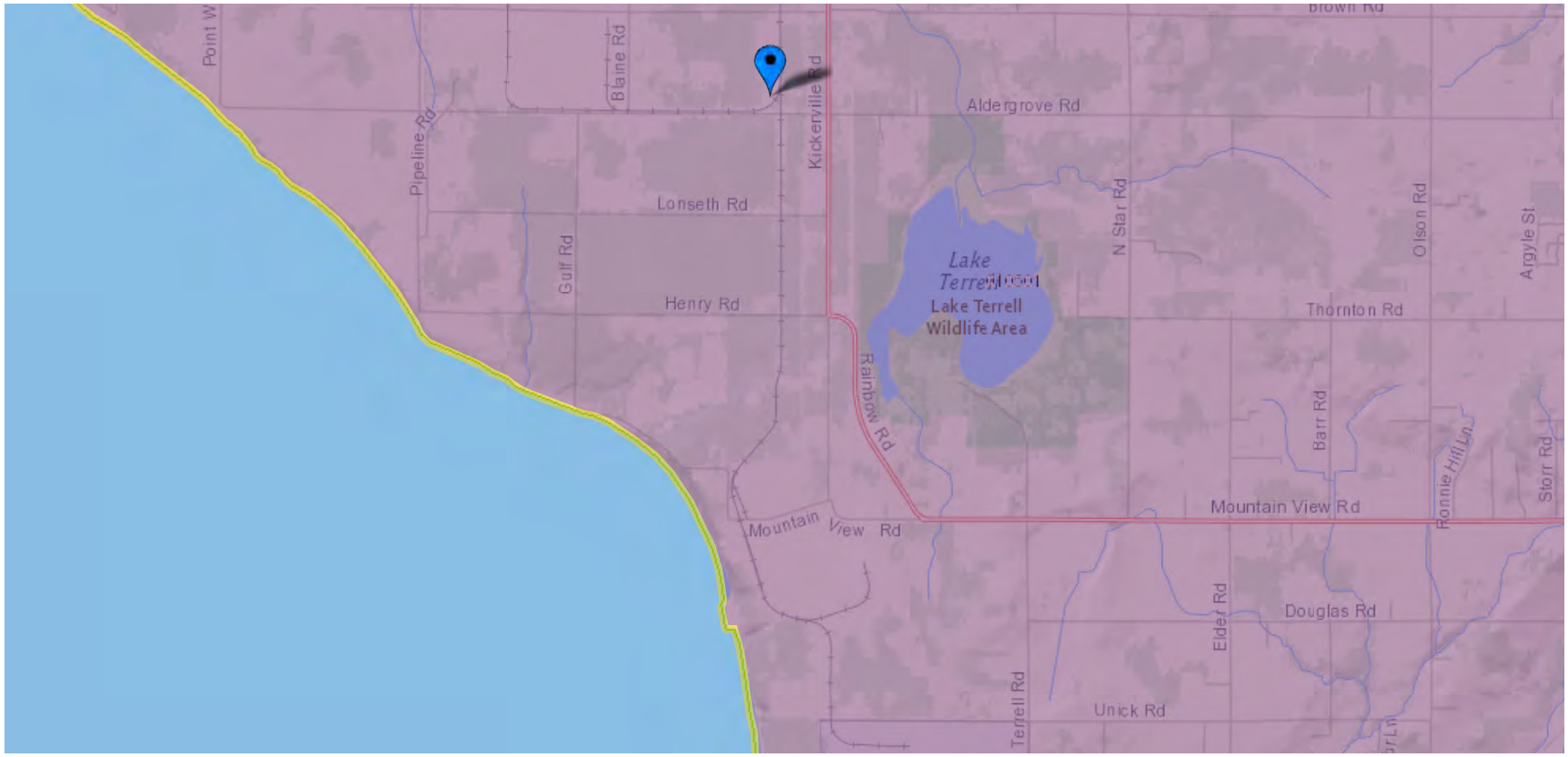
Washington State Department of Health

Selection:

Date: 02/15/2024 at 5:16 PM

Environmental Health Disparities V 2.0 -> Environmental Effects -> Proximity to Risk Management Plan (RMP) Facililties

Legend: (High) 10 9 8 7 6 5 4 3 2 1 **(Low)**



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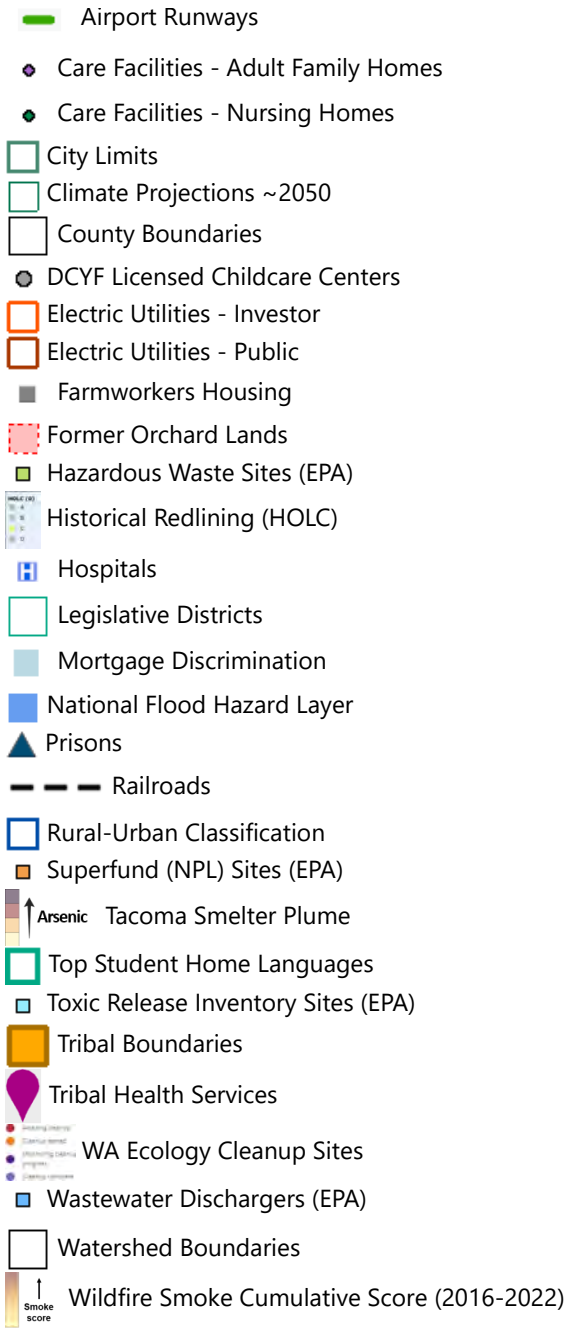
Legend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Wastewater Dischargers (EPA)
Watershed Boundaries
Smoke score
Wildfire Smoke Cumulative Score (2016-2022)

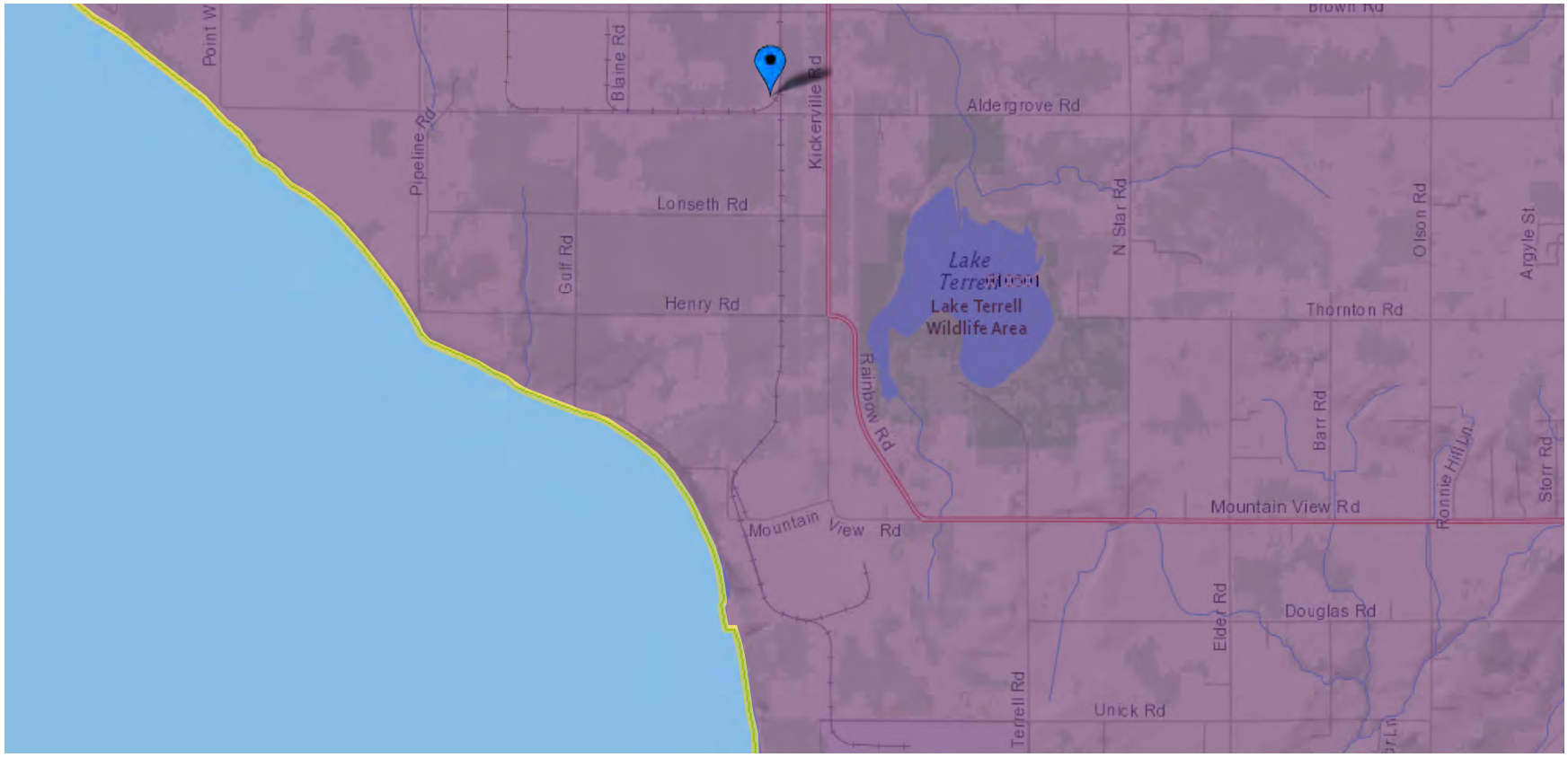
Washington State Department of Health

Selection:

Date: 02/15/2024 at 5:17 PM

Environmental Health Disparities V 2.0 -> Socioeconomic Factors -> Transportation Expense

Legend: (High) 10 9 8 7 6 5 4 3 2 1 **(Low)**



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Legend

- Airport Runways
- Care Facilities - Adult Family Homes
- Care Facilities - Nursing Homes
- City Limits
- Climate Projections ~2050
- County Boundaries
- DCYF Licensed Childcare Centers
- Electric Utilities - Investor
- Electric Utilities - Public
- Farmworkers Housing
- Former Orchard Lands
- Hazardous Waste Sites (EPA)
- Historical Redlining (HOLC)
- Hospitals
- Legislative Districts
- Mortgage Discrimination
- National Flood Hazard Layer
- Prisons
- Railroads
- Rural-Urban Classification
- Superfund (NPL) Sites (EPA)
- Arsenic Tacoma Smelter Plume
- Top Student Home Languages
- Toxic Release Inventory Sites (EPA)
- Tribal Boundaries
- Tribal Health Services
- WA Ecology Cleanup Sites
- Wastewater Dischargers (EPA)
- Watershed Boundaries
- Smoke score Wildfire Smoke Cumulative Score (2016-2022)

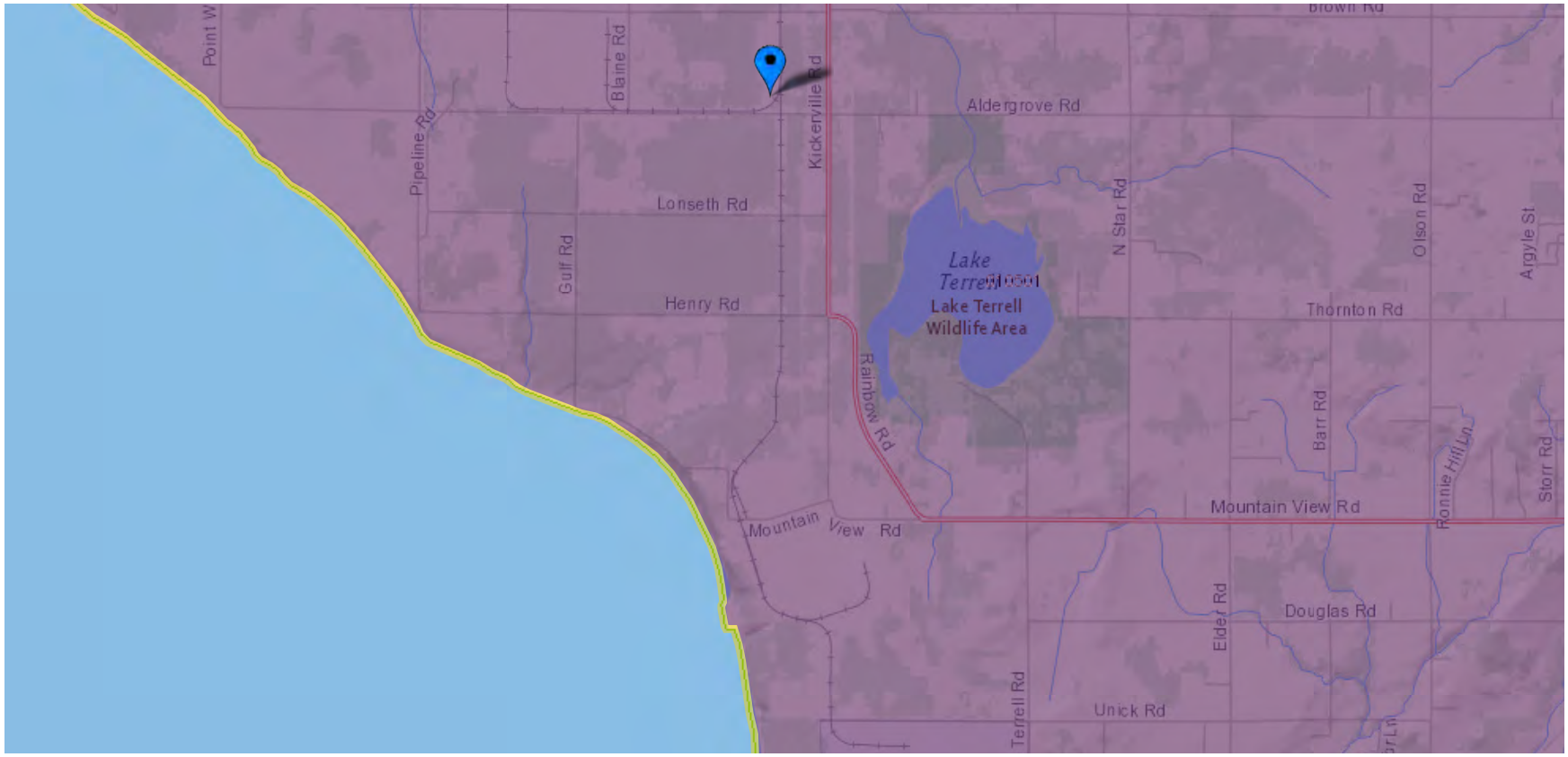
Washington State Department of Health

Selection:

Date: 02/15/2024 at 5:17 PM

Environmental Health Disparities V 2.0 -> Socioeconomic Factors -> Unaffordable Housing (>30% of Income)

Legend: (High) 10 9 8 7 6 5 4 3 2 1 **(Low)**



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Legend

- Airport Runways
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- Tribal Health Services
- WA Ecology Cleanup Sites
- Wastewater Dischargers (EPA)
- Watershed Boundaries
- Smoke score Wildfire Smoke Cumulative Score (2016-2022)

APPENDIX C
Field Methods and Exploration Logs

Sample Description

Identification of soils in this report is based on visual field and laboratory observations which include density/consistency, moisture condition, grain size, and plasticity estimates and should not be construed to imply field nor laboratory testing unless presented herein. ASTM D 2488 visual-manual identification methods were used as a guide. Where laboratory testing confirmed visual-manual identifications, then ASTM D 2487 was used to classify the soils.

Relative Density/Consistency

Soil density/consistency in borings is related primarily to the standard penetration resistance (N). Soil density/consistency in test pits and probes is estimated based on visual observation and is presented parenthetically on the logs.

SAND or GRAVEL Relative Density	N (Blows/Foot)	SILT or CLAY Consistency	N (Blows/Foot)
Very loose	0 to 4	Very soft	0 to 1
Loose	5 to 10	Soft	2 to 4
Medium dense	11 to 30	Medium stiff	5 to 8
Dense	31 to 50	Stiff	9 to 15
Very dense	>50	Very stiff	16 to 30
		Hard	>30

Moisture

Dry	Absence of moisture, dusty, dry to the touch
Moist	Damp but no visible water
Wet	Visible free water, usually soil is below water table

USCS Soil Classification Chart (ASTM D 2487)

Major Divisions			Symbols: Graph	Symbols: USCS	Typical Descriptions
Coarse Grained Soils: More than 50% of Material Retained on No. 200 Sieve	Gravel and Gravelly Soils: More than 50% of Coarse Fraction Retained on No. 4 Sieve	Clean Gravels (<5% fines)		GW	Well-Graded Gravel; Well-Graded Gravel with Sand
				GP	Poorly Graded Gravel; Poorly Graded Gravel with Sand
		Gravels (5-12% fines)		GW-GM	Well-Graded Gravel with Silt; Well-Graded Gravel with Silt and Sand
				GW-GC	Well-Graded Gravel with Clay; Well-Graded Gravel with Clay and Sand
				GP-GM	Poorly Graded Gravel with Silt; Poorly Graded Gravel with Silt and Sand
				GP-GC	Poorly Graded Gravel with Clay; Poorly Graded Gravel with Clay and Sand
		Gravels with Fines (>12% fines)		GM	Silty Gravel; Silty Gravel with Sand
				GC	Clayey Gravel; Clayey Gravel with Sand
	Sand and Sandy Soils: More than 50% of Coarse Fraction Passing No. 4 Sieve	Sands with few Fines (<5% fines)		SW	Well-Graded Sand; Well-Graded Sand with Gravel
				SP	Poorly Graded Sand; Poorly Graded Sand with Gravel
		Sands (5-12% fines)		SW-SM	Well-Graded Sand with Silt Well-Graded Sand with Silt and Gravel
				SW-SC	Well-Graded Sand with Clay; Well-Graded Sand with Clay and Gravel
				SP-SM	Poorly Graded Sand with Silt; Poorly Graded Sand with Silt and Gravel
				SP-SC	Poorly Graded Sand with Clay; Poorly Graded Sand with Clay and Gravel
		Sands with Fines (>12% fines)		SM	Silty Sand; Silty Sand with Gravel
				SC	Clayey Sand; Clayey Sand with Gravel
Fine Grained Soils: More than 50% of Material Passing No. 200 Sieve	Silts			ML	Silt; Silt with Sand or Gravel; Sandy or Gravelly Silt
				MH	Elastic Silt; Elastic Silt with Sand or Gravel; Sandy or Gravelly Elastic Silt
	Silty Clay (based on Atterberg Limits)			CL-ML	Silty Clay; Silty Clay with Sand or Gravel; Gravelly or Sandy Silty Clay
	Clays			CL	Lean Clay; Lean Clay with Sand or Gravel; Sandy or Gravelly Lean Clay
				CH	Fat Clay; Fat Clay with Sand or Gravel; Sandy or Gravelly Fat Clay
	Organics			OL/OH	Organic Soil; Organic Soil with Sand or Gravel; Sandy or Gravelly Organic Soil
Highly Organic (>50% organic material)				PT	Peat - Decomposing Vegetation - Fibrous to Amorphous Texture

Minor Constituents

	Estimated Percentage
Sand, Gravel	
Trace	<5
Few	5 - 15
Cobbles, Boulders	
Trace	<5
Few	5 - 10
Little	15 - 25
Some	30 - 45

Soil Test Symbols

%F	Percent Passing No. 200 Sieve
AL	Atterberg Limits (%)
	Liquid Limit (LL)
	Water Content (WC)
	Plastic Limit (PL)
CA	Chemical Analysis
CAUC	Consolidated Anisotropic Undrained Compression
CAUE	Consolidated Anisotropic Undrained Extension
CBR	California Bearing Ratio
CIDC	Consolidated Drained Isotropic Triaxial Compression
CIUC	Consolidated Isotropic Undrained Compression
CK0DC	Consolidated Drained k0 Triaxial Compression
CK0DSS	Consolidated k0 Undrained Direct Simple Shear
CK0UC	Consolidated k0 Undrained Compression
CK0UE	Consolidated k0 Undrained Extension
CRSCN	Constant Rate of Strain Consolidation
DS	Direct Shear
DSS	Direct Simple Shear
DT	In Situ Density
GS	Grain Size Classification
HYD	Hydrometer
ILCN	Incremental Load Consolidation
K0CN	k0 Consolidation
kc	Constant Head Permeability
kf	Falling Head Permeability
MD	Moisture Density Relationship
OC	Organic Content
OT	Tests by Others
P	Pressuremeter
PID	Photoionization Detector Reading
PP	Pocket Penetrometer
SG	Specific Gravity
TRS	Torsional Ring Shear
TV	Torvane
UC	Unconfined Compression
UUC	Unconsolidated Undrained Triaxial Compression
VS	Vane Shear
WC	Water Content (%)

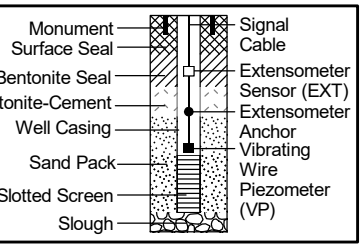
Groundwater Indicators

- Groundwater Level on Date or At Time of Drilling (ATD)
- Groundwater Level on Date Measured in Piezometer
- Groundwater Seepage (Test Pits)

Sample Symbols

- 1.5" I.D. Split Spoon
- 3.0" I.D. Split Spoon
- Modified California Sampler
- Rock Core Run
- Sonic Core
- Thin-walled Sampler
- Grab
- Cuttings
- Push Probe

Well Symbols



HALEY ALDRICH

Project: Treoil Industries RI-FS
Location: Ferndale, Washington
Project No.: 0204476-001

Key to Exploration Logs

Figure **A-1**
Sheet **1 of 1**

Date Started: 08/08/2023	Date Completed: 08/08/2023	Contractor/Crew: Holocene Drilling, Inc. / Casey	
Logged by: Z. Stephens	Checked by: A. Nakahara	Rig Model/Type: GeoProbe® 7800 / Track-mounted push-probe rig	
Location: Lat: 48.880617 Long: -122.710065 (WGS 84)		Hole Diameter: 2 inches	Well Casing Diameter: NA
Ground Surface Elevation:		Total Depth: 55 feet	Depth to Groundwater: Not Identified
Comments:			

Elevation (feet)	Depth (feet)	Sample Data: Type	Recovery	Length (inches)	Number Tests	PID (ppm)	Graphic Log	Material Description	Depth (feet)
	0							Topsoil (24-inches thick)	0
		50in.	60		S-1	0.2		LEAN CLAY WITH SAND (CL), (stiff), moist, brown, few iron oxide staining.	
	5								5
		60in.	60		S-2	0.1			
	10								10
		60in.	60		S-3	0.1		SANDY FAT CLAY (CH), few gravel, (stiff), moist, gray.	
	15								15
		50in.	60		S-4	0.1			
	20							driller noted expansive soils	20
		60in.	60		S-5	0.1			
	25								25
		60in.	60		S-6	0.1			
	30								30
		60in.		48					
	35							SANDY FAT CLAY WITH GRAVEL (CH), (medium stiff), moist, gray.	35
		60in.		48					
						0.1			

General Notes:
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

HALEY ALDRICH

Project: Treoil Industries RI-FS
Location: Ferndale, Washington
Project No.: 0204476-001

Push Probe Log
B-01

Figure **A-2**
Sheet **1 of 2**

Date Started: 08/08/2023	Date Completed: 08/08/2023	Contractor/Crew: Holocene Drilling, Inc. / Casey	
Logged by: Z. Stephens	Checked by: A. Nakahara	Rig Model/Type: GeoProbe® 7800 / Track-mounted push-probe rig	
Location: Lat: 48.880617 Long: -122.710065 (WGS 84)		Hole Diameter: 2 inches	Well Casing Diameter: NA
Ground Surface Elevation:		Total Depth: 55 feet	Depth to Groundwater: Not Identified
Comments:			

Elevation (feet)	Depth (feet)	Sample Data: Type	Recovery	Length (inches)	Number Tests	PID (ppm)	Graphic Log	Material Description	Depth (feet)
40	40		60in.	48		0.1		SANDY FAT CLAY WITH GRAVEL (CH), (medium stiff), moist, gray. *(continued)*	40
45	45		60in.	48					45
			60in.	48					
50	50							CLAYEY SAND (SC), (medium dense), wet, gray.	50
			60in.	48	S-7	0.1		SANDY FAT CLAY WITH GRAVEL (CH), (medium stiff), moist, gray.	
55	55		12in.	12				Bottom of Borehole at 55.0 feet.	55
60	60								60
65	65								65
70	70								70
75	75								75

General Notes:
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

HALEY ALDRICH

Project: Treoil Industries RI-FS
Location: Ferndale, Washington
Project No.: 0204476-001

Push Probe Log
B-01

Figure **A-2**
Sheet **2 of 2**

Date Started: 08/07/2023	Date Completed: 08/07/2023	Contractor/Crew: Holocene Drilling, Inc. / Casey	
Logged by: Z. Stephens	Checked by: A. Nakahara	Rig Model/Type: GeoProbe® 7800 / Track-mounted push-probe rig	
Location: Lat: 48.879792 Long: -122.711096 (WGS 84)		Hole Diameter: 2 inches	Well Casing Diameter: NA
Ground Surface Elevation:		Total Depth: 30 feet	Depth to Groundwater: Not Identified
Comments:			

Elevation (feet)	Depth (feet)	Sample Data: Type	Recovery	Length (inches)	Number Tests	PID (ppm)	Graphic Log	Material Description	Depth (feet)
	0							Topsoil (6-inches thick)	0
								LEAN CLAY WITH SAND (CL), (stiff), moist, brown, few iron oxide staining.	
	5	60in.	60		S-1	0.6			5
		60in.	60		S-2	0.1		FAT CLAY (CH), trace gravel, (very stiff), moist, brown.	
	10							driller noted expansive soil	10
		60in.	60		S-3	0.0			
	15							SANDY FAT CLAY WITH GRAVEL (CH), (medium stiff), moist, gray.	15
		60in.	60		S-4	0.1		LEAN CLAY (CL), trace gravel, (medium stiff), moist, gray, sand lens (4-inches thick) at 17 ft.	
	20								20
		60in.	60		S-5	0.1			
	25								25
		60in.	60		S-6	0.1			
	30							Bottom of Borehole at 30.0 feet.	30
	35								35

General Notes:
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

HALEY ALDRICH	Project: Treoil Industries RI-FS Location: Ferndale, Washington Project No.: 0204476-001	Push Probe Log **B-02**	Figure **A-3** Sheet **1 of 1**

Date Started: 08/07/2023	Date Completed: 08/07/2023	Contractor/Crew: Holocene Drilling, Inc. / Casey	
Logged by: Z. Stephens	Checked by: A. Nakahara	Rig Model/Type: GeoProbe® 7800 / Track-mounted push-probe rig	
Location: Lat: 48.879570 Long: -122.711101 (WGS 84)		Hole Diameter: 2 inches	Well Casing Diameter: NA
Ground Surface Elevation:		Total Depth: 50 feet	Depth to Groundwater: Not Identified
Comments:			

Elevation (feet)	Depth (feet)	Sample Data: Type	Recovery	Length (inches)	Number Tests	PID (ppm)	Graphic Log	Material Description	Depth (feet)
	0							Topsoil (12-inches thick)	0
								LEAN CLAY WITH SAND (CL), (stiff), moist, gray-brown.	
			48in.	60	S-1	0.2			
	5							CLAYEY SAND (SC), (medium stiff), moist, brown.	5
								LEAN CLAY WITH SAND (CL), (medium stiff), moist, gray-brown grades to gray.	
			60in.	60	S-2	0.2			
	10								10
			60in.	60	S-3	0.2			
	15								15
			60in.	60	S-4	0.2			
	20							FAT CLAY WITH SAND (CH), (stiff), moist, gray-brown.	20
			50in.	60	S-5	0.2			
	25								25
			60in.	60	S-6	0.2			
	30					0.1			30
			60in.	60					
	35					0.4			35
			18in.	60					

General Notes:
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

HALEY ALDRICH

Project: Treoil Industries RI-FS
Location: Ferndale, Washington
Project No.: 0204476-001

Push Probe Log
B-03

Figure **A-4**
Sheet **1 of 2**

Date Started: 08/07/2023	Date Completed: 08/07/2023	Contractor/Crew: Holocene Drilling, Inc. / Casey	
Logged by: Z. Stephens	Checked by: A. Nakahara	Rig Model/Type: GeoProbe® 7800 / Track-mounted push-probe rig	
Location: Lat: 48.879570 Long: -122.711101 (WGS 84)		Hole Diameter: 2 inches	Well Casing Diameter: NA
Ground Surface Elevation:		Total Depth: 50 feet	Depth to Groundwater: Not Identified
Comments:			

Elevation (feet)	Depth (feet)	Sample Data: Type	Recovery	Length (inches)	Number Tests	PID (ppm)	Graphic Log	Material Description	Depth (feet)
	40					0.4		SANDY LEAN CLAY (CL), (stiff), moist, gray.	40
	45					0.2		FAT CLAY WITH SAND (CH), (stiff), moist, gray.	45
	50							Bottom of Borehole at 50.0 feet.	50
	55								55
	60								60
	65								65
	70								70
	75								75

General Notes:
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

HALEY ALDRICH	Project: Treoil Industries RI-FS Location: Ferndale, Washington Project No.: 0204476-001	Push Probe Log **B-03**	Figure **A-4** Sheet **2 of 2**

Date Started: 08/09/2023	Date Completed: 08/09/2023	Contractor/Crew: Holocene Drilling, Inc. / Casey	
Logged by: Z. Stephens	Checked by: A. Nakahara	Rig Model/Type: GeoProbe® 7800 / Track-mounted push-probe rig	
Location: Lat: 48.879439 Long: -122.711239 (WGS 84)		Hole Diameter: 2 inches	Well Casing Diameter: NA
Ground Surface Elevation:		Total Depth: 31 feet	Depth to Groundwater: Not Identified
Comments:			

Elevation (feet)	Depth (feet)	Sample Data: Type	Recovery	Length (inches)	Number Tests	PID (ppm)	Graphic Log	Material Description	Depth (feet)
	0							Topsoil (18-inches thick)	0
								SANDY LEAN CLAY (CL), (stiff), moist, gray-brown.	
		60in.	60		S-1	0.1			
	5								5
		60in.	60		S-2	0.1			
	10								10
		60in.	60		S-3	0.1			
	15							FAT CLAY WITH GRAVEL (CH), (stiff), moist, gray.	15
		60in.	48		S-4	0.1			
	20							SANDY FAT CLAY WITH GRAVEL (CH), (medium stiff), moist, gray.	20
		48in.	48		S-5	0.1			
	25							FAT CLAY (CH), some gravel, (stiff), moist, gray.	25
		60in.	48		S-6	0.1			
								SANDY LEAN CLAY WITH GRAVEL (CL), (stiff), moist, gray.	
	30	60in.	48		S-7	0.1			30
								Bottom of Borehole at 31.0 feet.	
	35								35

General Notes:
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

HALEY ALDRICH

Project: Treoil Industries RI-FS
Location: Ferndale, Washington
Project No.: 0204476-001

Push Probe Log
B-04

Figure **A-5**
Sheet **1 of 1**

Date Started: 08/08/2023	Date Completed: 08/08/2023	Contractor/Crew: Holocene Drilling, Inc. / Casey	
Logged by: Z. Stephens	Checked by: A. Nakahara	Rig Model/Type: GeoProbe® 7800 / Track-mounted push-probe rig	
Location: Lat: 48.879386 Long: -122.710696 (WGS 84)		Hole Diameter: 2 inches	Well Casing Diameter: NA
Ground Surface Elevation:		Total Depth: 31 feet	Depth to Groundwater: Not Identified
Comments:			

Elevation (feet)	Depth (feet)	Sample Data: Type	Recovery	Length (inches)	Number Tests	PID (ppm)	Graphic Log	Material Description	Depth (feet)
	0							Topsoil (12-inches thick)	0
					S-1	0.3		SANDY LEAN CLAY (CL), (stiff), moist, gray-brown.	
			30in.	60					
	5				S-2	0.3			5
			60in.	60					
	10							FAT CLAY WITH SAND (CH), (stiff), moist, gray.	10
			60in.	60	S-3	0.1			
	15				S-4	0.0			15
			60in.	48				SANDY FAT CLAY WITH GRAVEL (CH), (medium stiff), moist, gray.	
	20				S-5	0.2			20
			54in.	48					
	25		60in.	48	S-6	0.1		FAT CLAY (CH), some gravel, (stiff), moist, gray.	25
								SANDY LEAN CLAY WITH GRAVEL (CL), (stiff), moist, gray.	
					S-7	0.1			
	30		60in.	48					30
								Bottom of Borehole at 31.0 feet.	
	35								35

General Notes:
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

HALEY ALDRICH

Project: Treoil Industries RI-FS
Location: Ferndale, Washington
Project No.: 0204476-001

Push Probe Log
B-05

Figure **A-6**
Sheet **1 of 1**

Date Started: 08/08/2023	Date Completed: 08/08/2023	Contractor/Crew: Holocene Drilling, Inc. / Casey	
Logged by: Z. Stephens	Checked by: A. Nakahara	Rig Model/Type: GeoProbe® 7800 / Track-mounted push-probe rig	
Location: Lat: 48.879309 Long: -122.710709 (WGS 84)		Hole Diameter: 2 inches	Well Casing Diameter: NA
Ground Surface Elevation:		Total Depth: 31 feet	Depth to Groundwater: Not Identified
Comments:			

Elevation (feet)	Depth (feet)	Sample Data: Type	Recovery	Length (inches)	Number Tests	PID (ppm)	Graphic Log	Material Description	Depth (feet)
	0							Topsoil (24-inches thick)	0
		50in.	60		S-1/FD-01	0.0		SANDY LEAN CLAY WITH GRAVEL (CL), (very stiff), moist, gray-brown.	
	5								5
		60in.	60		S-2	0.0			
	10							FAT CLAY WITH SAND (CH), trace gravel, (stiff), moist, gray-brown.	10
		60in.	60		S-3	0.1			
	15							grades to gray	15
		60in.	48		S-4	0.1			
	20								20
		60in.	48		S-5	0.1			
	25							SANDY FAT CLAY (CH), trace gravel, (stiff), moist, gray.	25
		60in.	48		S-6	0.1			
	30								30
		48in.	48		S-7	0.1			
								Bottom of Borehole at 31.0 feet.	
	35								35

General Notes:
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

HALEY ALDRICH	Project: Treoil Industries RI-FS Location: Ferndale, Washington Project No.: 0204476-001	Push Probe Log **B-06**	Figure **A-7** Sheet **1 of 1**

Date Started: 08/09/2023	Date Completed: 08/09/2023	Contractor/Crew: Holocene Drilling, Inc. / Casey	
Logged by: Z. Stephens	Checked by: A. Nakahara	Rig Model/Type: GeoProbe® 7800 / Track-mounted push-probe rig	
Location: Lat: 48.879223 Long: -122.710405 (WGS 84)		Hole Diameter: 2 inches	Well Casing Diameter: NA
Ground Surface Elevation:		Total Depth: 31 feet	Depth to Groundwater: Not Identified
Comments: Ecology placed remediation cap.			

Elevation (feet)	Depth (feet)	Sample Data: Type	Recovery	Length (inches)	Number Tests	PID (ppm)	Graphic Log	Material Description	Depth (feet)
	0							Diatomaceous Earth placed by EPA (48-inches thick).	0
			60in.	60	S-1	0.6		free product observed at 0.5 ft free product observed from 1 to 2 ft, petroleum-like odor, sheen	
	5							SANDY LEAN CLAY WITH GRAVEL (CL), (very stiff), moist, gray-brown.	5
			60in.	60	S-2/FD-02	0.1			
	10								10
			60in.	60	S-3	0.1			
	15							SANDY FAT CLAY (CH), some gravel, (medium stiff), moist, brown to gray.	15
			60in.	48	S-4	0.0			
	20							grades to trace gravel, stiff, gray	20
			60in.	48	S-5	0.1			
	25		60in.	48	S-6	0.1			25
	30		60in.	48	S-7	0.0			30
								Bottom of Borehole at 31.0 feet.	
	35								35

General Notes:
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

HALEY ALDRICH

Project: Treoil Industries RI-FS
Location: Ferndale, Washington
Project No.: 0204476-001

Push Probe Log
B-07

Figure **A-8**
Sheet **1 of 1**

Date Started: 08/10/2023	Date Completed: 08/10/2023	Contractor/Crew: Holocene Drilling, Inc. / Casey	
Logged by: Z. Stephens	Checked by: A. Nakahara	Rig Model/Type: GeoProbe® 7800 / Track-mounted push-probe rig	
Location: Lat: 48.879204 Long: -122.710128 (WGS 84)		Hole Diameter: 2 inches	Well Casing Diameter: NA
Ground Surface Elevation:		Total Depth: 30 feet	Depth to Groundwater: Not Identified
Comments:			

Elevation (feet)	Depth (feet)	Sample Data: Type	Recovery	Length (inches)	Number Tests	PID (ppm)	Graphic Log	Material Description	Depth (feet)
	0							Topsoil (24-inches thick)	0
			60in.	60	S-1	0.0		SANDY LEAN CLAY (CL), some gravel, (very stiff), moist, brown.	
	5								5
			60in.	60	S-2				
	10							SANDY FAT CLAY (CH), some gravel, (stiff), moist, brown, some iron oxide staining.	10
			60in.	60	S-3				
	15								15
			60in.	48	S-4			FAT CLAY WITH SAND (CH), (medium stiff), moist, gray.	
	20							SANDY FAT CLAY WITH GRAVEL (CH), (stiff), moist, gray.	20
			60in.	48	S-5				
	25								25
			48in.	48	S-6				
	30		40in.	36	S-7			Bottom of Borehole at 30.0 feet.	30
	35								35

General Notes:
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

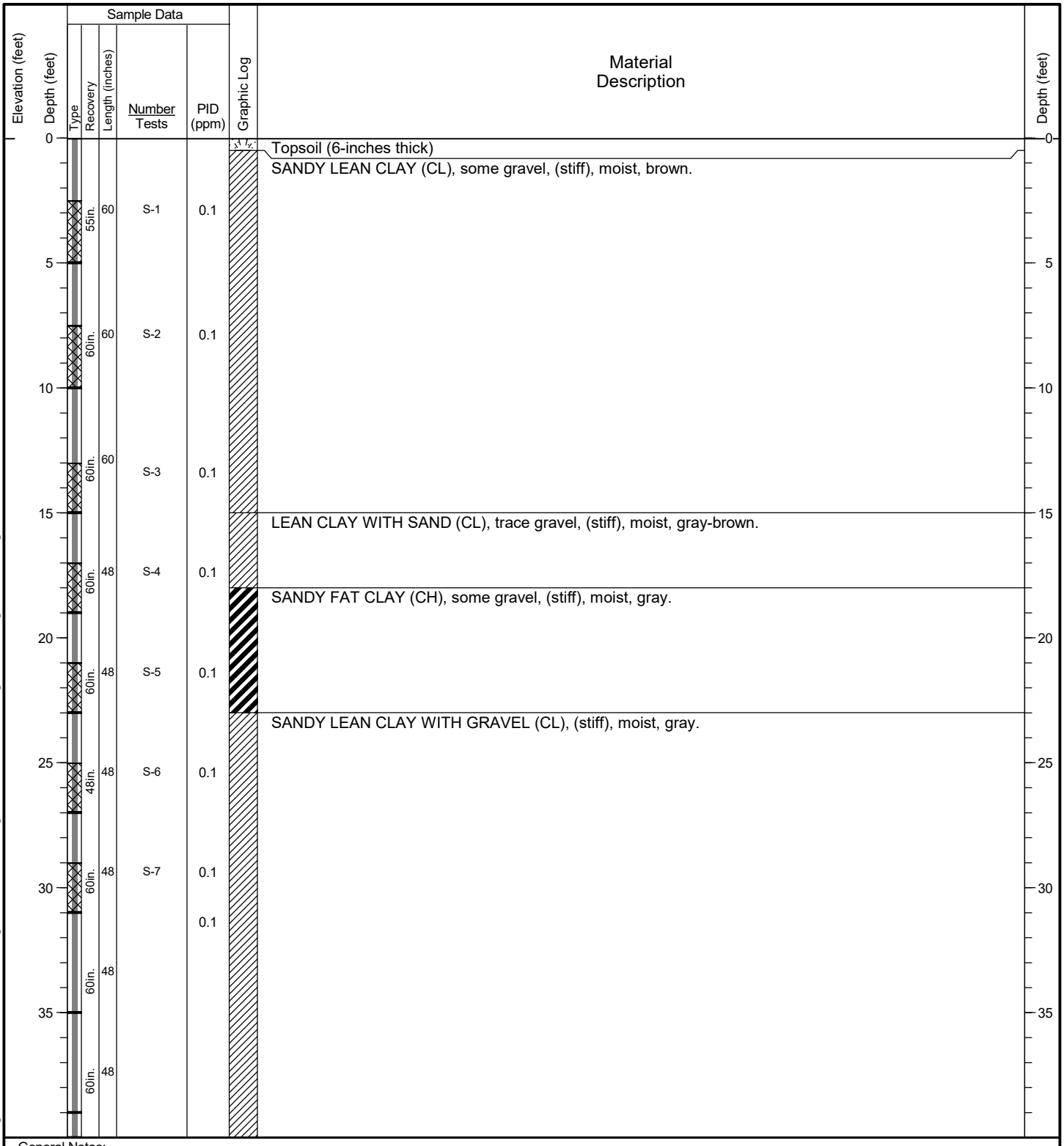
HALEY ALDRICH

Project: Treoil Industries RI-FS
Location: Ferndale, Washington
Project No.: 0204476-001

Push Probe Log
B-08

Figure **A-9**
Sheet **1 of 1**

Date Started: 08/09/2023	Date Completed: 08/09/2023	Contractor/Crew: Holocene Drilling, Inc. / Casey	
Logged by: Z. Stephens	Checked by: A. Nakahara	Rig Model/Type: GeoProbe® 7800 / Track-mounted push-probe rig	
Location: Lat: 48.879105 Long: -122.710889 (WGS 84)		Hole Diameter: 2 inches	Well Casing Diameter: NA
Ground Surface Elevation:		Total Depth: 51 feet	Depth to Groundwater: Not Identified
Comments:			



General Notes:
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

HALEY ALDRICH	Project: Treoil Industries RI-FS Location: Ferndale, Washington Project No.: 0204476-001	Push Probe Log **B-09**	Figure **A-10** Sheet **1 of 2**

Date Started: 08/09/2023 Date Completed: 08/09/2023 Contractor/Crew: Holocene Drilling, Inc. / Casey

Logged by: Z. Stephens Checked by: A. Nakahara Rig Model/Type: GeoProbe® 7800 / Track-mounted push-probe rig

Location: Lat: 48.879105 Long: -122.710889 (WGS 84) Hole Diameter: 2 inches Well Casing Diameter: NA

Ground Surface Elevation: Total Depth: 51 feet Depth to Groundwater: Not Identified

Comments:

Elevation (feet)	Depth (feet)	Sample Data: Type	Recovery	Length (inches)	Number Tests	PID (ppm)	Graphic Log	Material Description	Depth (feet)
	40							SANDY LEAN CLAY WITH GRAVEL (CL), (stiff), moist, gray. *(continued)*	40
			60in.	48		0.1			
	45		60in.	48					45
	50		24in.	48					50
								Bottom of Borehole at 51.0 feet.	
	55								55
	60								60
	65								65
	70								70
	75								75

General Notes:

1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

HALEY ALDRICH

Project: Treoil Industries RI-FS
Location: Ferndale, Washington
Project No.: 0204476-001

Push Probe Log
B-09

Figure **A-10**
Sheet **2 of 2**

Date Started: 08/09/2023	Date Completed: 08/09/2023	Contractor/Crew: Holocene Drilling, Inc. / Casey	
Logged by: Z. Stephens	Checked by: A. Nakahara	Rig Model/Type: GeoProbe® 7800 / Track-mounted push-probe rig	
Location: Lat: 48.879066 Long: -122.711122 (WGS 84)		Hole Diameter: 2 inches	Well Casing Diameter: NA
Ground Surface Elevation:		Total Depth: 31 feet	Depth to Groundwater: Not Identified
Comments:			

Elevation (feet)	Depth (feet)	Sample Data: Type	Recovery	Length (inches)	Number Tests	PID (ppm)	Graphic Log	Material Description	Depth (feet)
	0							Topsoil (18-inches thick)	0
			60in.	60	S-1	0.1		SANDY LEAN CLAY (CL), some gravel, (stiff), moist, brown.	
	5							LEAN CLAY WITH SAND (CL), trace gravel, (stiff), moist, gray-brown.	5
			60in.	60	S-2	0.2			
	10								10
			60in.	60	S-3	0.1			
	15							SANDY FAT CLAY (CH), trace gravel, (stiff), moist, gray.	15
			60in.	48	S-4	0.0			
	20								20
			60in.	48	S-5	0.1			
	25							SANDY FAT CLAY WITH GRAVEL (CH), (stiff), moist, gray.	25
			60in.	48	S-6	0.1			
	30								30
			60in.	48	S-7	0.2			
								Bottom of Borehole at 31.0 feet.	
	35								35

General Notes:
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

HALEY ALDRICH

Project: Treoil Industries RI-FS
Location: Ferndale, Washington
Project No.: 0204476-001

Push Probe Log
B-10

Figure **A-11**
Sheet **1 of 1**

Date Started: 08/10/2023	Date Completed: 08/10/2023	Contractor/Crew: Holocene Drilling, Inc. / Casey	
Logged by: Z. Stephens	Checked by: A. Nakahara	Rig Model/Type: GeoProbe® 7800 / Track-mounted push-probe rig	
Location: Lat: 48.878795 Long: -122.710619 (WGS 84)		Hole Diameter: 2 inches	Well Casing Diameter: NA
Ground Surface Elevation:		Total Depth: 31 feet	Depth to Groundwater: Not Identified
Comments:			

Elevation (feet)	Depth (feet)	Sample Data: Type	Recovery	Length (inches)	Number Tests	PID (ppm)	Graphic Log	Material Description	Depth (feet)
	0							Topsoil (6-inches thick)	0
					S-1	0.0		LEAN CLAY WITH SAND (CL), trace gravel, (stiff), moist, brown.	
			24in.	60					
	5								5
			60in.	60	S-2	0.0			
	10								10
			60in.	60	S-3	0.0			
	15								15
			60in.	48	S-4	0.1		FAT CLAY WITH SAND (CH), some gravel, (medium stiff), moist, gray.	
	20		0in.	48					20
	25		60in.	48	S-5	0.1			25
					S-6	0.1			
	30		12in.	48					30
								Bottom of Borehole at 31.0 feet.	
	35								35

General Notes:
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

HALEY ALDRICH	Project: Treoil Industries RI-FS Location: Ferndale, Washington Project No.: 0204476-001	Push Probe Log **B-11**	Figure **A-12** Sheet **1 of 1**

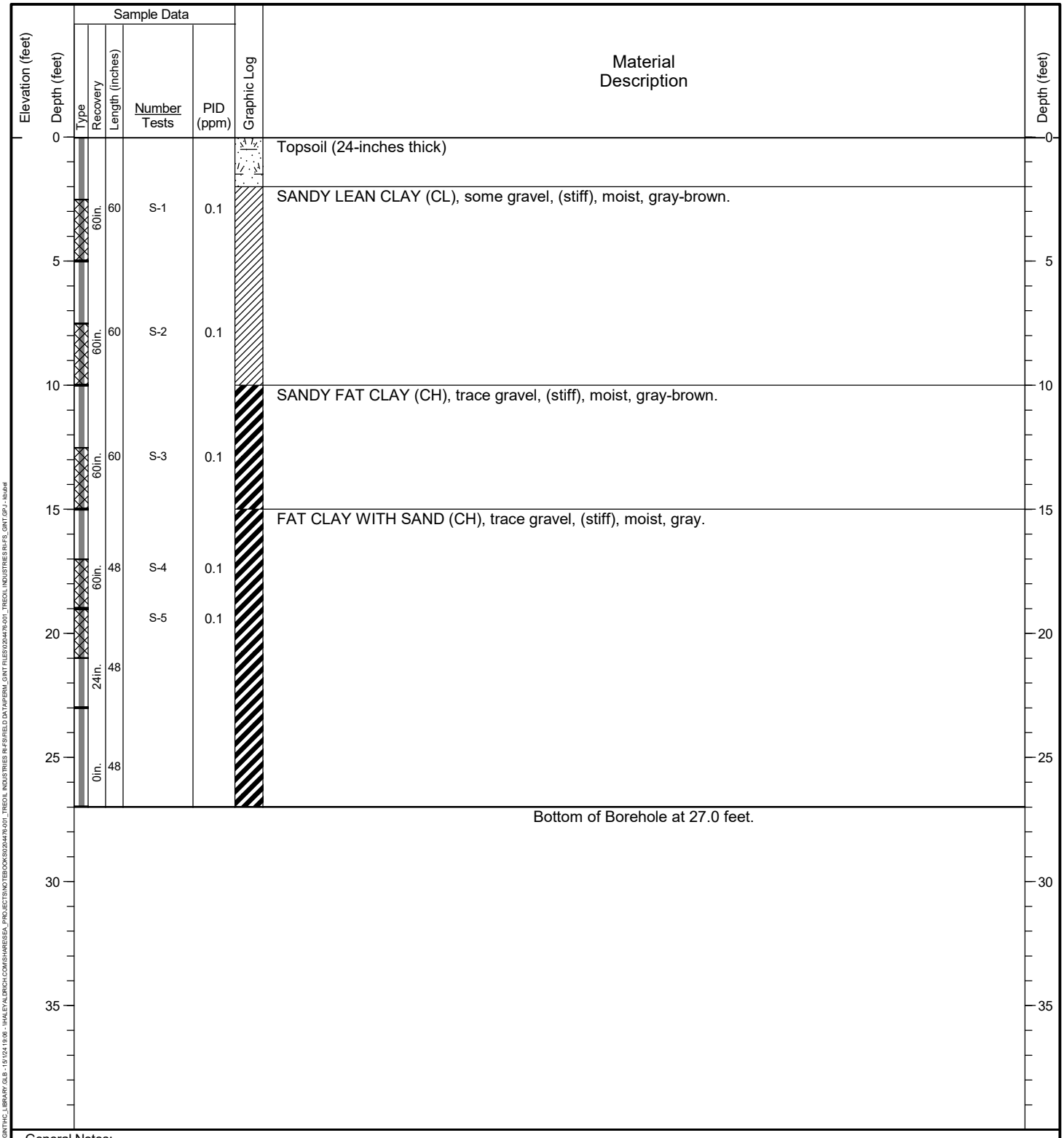
Date Started: 08/10/2023	Date Completed: 08/10/2023	Contractor/Crew: Holocene Drilling, Inc. / Casey	
Logged by: Z. Stephens	Checked by: A. Nakahara	Rig Model/Type: GeoProbe® 7800 / Track-mounted push-probe rig	
Location: Lat: 48.878730 Long: -122.711117 (WGS 84)		Hole Diameter: 2 inches	Well Casing Diameter: NA
Ground Surface Elevation:		Total Depth: 30 feet	Depth to Groundwater: Not Identified
Comments:			

Elevation (feet)	Depth (feet)	Sample Data: Type	Recovery	Length (inches)	Number Tests	PID (ppm)	Graphic Log	Material Description
	0							Topsoil (18-inches thick)
								SILTY SAND (SM), (loose), moist, gray-brown, some iron oxide staining.
			48in.	60	S-1	0.1		
	5							LEAN CLAY WITH SAND (CL), some gravel, (stiff), moist, gray-brown.
			60in.	60	S-2	0.1		
	10							
			60in.	60	S-3	0.1		
	15							FAT CLAY WITH SAND (CH), some gravel, (stiff), moist, gray.
			60in.	48	S-4	0.1		
	20					0.1		
			60in.	48				
	25					0.1		
			60in.	48				
						0.1		
	30		48in.	36				Bottom of Borehole at 30.0 feet.
	35							

General Notes:
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

HALEY ALDRICH	Project: Treoil Industries RI-FS Location: Ferndale, Washington Project No.: 0204476-001	Push Probe Log **B-12**	Figure **A-13** Sheet **1 of 1**

Date Started: 08/09/2023	Date Completed: 08/09/2023	Contractor/Crew: Holocene Drilling, Inc. / Casey	
Logged by: Z. Stephens	Checked by: A. Nakahara	Rig Model/Type: GeoProbe® 7800 / Track-mounted push-probe rig	
Location: ()		Hole Diameter: 2 inches	Well Casing Diameter: NA
Ground Surface Elevation:		Total Depth: 27 feet	Depth to Groundwater: Not Identified
Comments:			



General Notes:
1. Refer to Figure A-1 for explanation of descriptions and symbols.
2. Material stratum lines are interpretive and actual changes may be gradual. Solid lines indicate distinct contacts and dashed lines indicate gradual or approximate contacts.
3. USCS designations are based on visual-manual identification (ASTM D 2488), unless otherwise supported by laboratory testing (ASTM D 2487).
4. Groundwater level, if indicated, is at time of drilling/excavation (ATD) or for date specified. Level may vary with time.
5. Location and ground surface elevations are approximate.

HALEY ALDRICH	Project: Treoil Industries RI-FS Location: Ferndale, Washington Project No.: 0204476-001	Push Probe Log **BG-01**	Figure **A-14** Sheet **1 of 1**

APPENDIX D
Data User Summary Report and Laboratory Reports

Haley & Aldrich, Inc.
600 South Meyer Ave.
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Tucson, AZ 85701
520.289.8621

Data Usability Summary Report

Project Name: Treoil Industries Biorefinery for WA DOE

Sample Date(s): 7 through 10 August 2023

Analytical Laboratory: Eurofins Seattle – Tacoma, WA

Validation Performed by: Raul Tenorio and Kristina Ilina

Validation Reviewed by: Katherine Miller

Validation Date: 17 October 2023

Haley & Aldrich, Inc. prepared this Data Usability Summary Report (DUSR) to summarize the review and validation of the analytical results for Sample Delivery Group(s) (SDG) listed. This DUSR is organized into the following sections:

1. **Sample Delivery Group Numbers**
2. **Precision and Accuracy [for SDG(s) above]**
3. **Explanations**
4. **Glossary**
5. **Abbreviations**
6. **Qualifiers**

References

This data validation and usability assessment was performed per the guidance and requirements established by the United States Environmental Protection Agency (USEPA) using the following reference materials:

- National Functional Guidelines (NFG) for Inorganic Data Review.
- National Functional Guidelines (NFG) for Organic Data Review.

Data reported in this sampling event were reported to the laboratory method detection limit (MDL). Results found between the MDL and RL are flagged J as estimated.

Sample data were qualified in accordance with the laboratory's standard operating procedures (SOPs). The results presented in each laboratory report were found to be compliant with the data quality objectives (DQOs) for the project and are therefore usable; any exceptions are noted in the following pages.

1. Sample Delivery Group Numbers

1.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of SDG numbers:

- 580-130493-1, dated 1 October 2023;
- 580-130495-1, dated 1 October 2023;
- 580-130515-1, dated 1 October 2023; and
- 580-130524-1, dated 1 October 2023.

Samples were collected, preserved, and shipped following standard chain of custody (COC) protocols.

- Samples for WAEPH and WAVPH analysis were subcontracted to Analytical Resources, LLC – Tukwila, WA.

Samples were also received appropriately, identified correctly, and analyzed according to the COC. Issues noted with sample management are listed below:

- SDG 580-130493-1: The following samples were activated by the client on 8/23/23: B-01-S7 (580-130493-2), B-06-S1 (580-130493-3), B-06-S2 (580-130493-4), B-06-S4 (580-130493-6), B-05-S1 (580-130493-10), B-05-S2 (580-130493-11), and FD01 (580-130493-17). The analyses will be out of hold for extraction for NWTPH-DX and/or 8270E semi-volatile extraction. Samples were logged, pending client confirmation.
- SDGs 580-130493-1, 580-130495-1: The field sampler's name is not present on the COC. No qualification.
- SDG 580-130524-1: The samples were activated by the client on 8/23/23 which was past the holding time or within 48 hours for organic analyses by the time they were requested. Samples were originally logged on hold, pending client confirmation.
- SDG 580-130495-1: Methods for analysis were not check-marked in the COC. No qualification.
- SDGs 580-130493-1: The COC is incomplete and missing a signature for receipt by the laboratory. No qualification.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Date	Matrix	Methods
B-01-S7	N	580-130493-2	08/08/2023	SO	A, B, C, D, E, F
B-06-S1	N	580-130493-3	08/08/2023	SO	A, B, C, D, E, F
B-06-S2	N	580-130493-4	08/08/2023	SO	B, C
B-06-S4	N	580-130493-6	08/08/2023	SO	A, B, C, D, E, F
B-05-S1	N	580-130493-10	08/08/2023	SO	A, B, C, D, E, F
B-05-S2	N	580-130493-11	08/08/2023	SO	A, B, C, D, E, F
B-05-S3	N	580-130493-12	08/08/2023	SO	A, B, C, D, E, F
FD01	FD	580-130493-17	08/08/2023	SO	A, B, C, D, E, F

Sample ID	Sample Type	Lab ID	Sample Date	Matrix	Methods
B-02-S2	N	580-130495-2	08/07/2023	SO	A, B, C, D, E, F
B-03-S1	N	580-130495-7	08/07/2023	SO	A, B, C, D, E, F
B-03-S2	N	580-130495-8	08/07/2023	SO	B, C
B-01-S1	N	580-130495-13	08/08/2023	SO	A, B, C, D, E, F
B-01-S2	N	580-130495-14	08/08/2023	SO	B, C
B-04-S1	N	580-130515-1	08/09/2023	SO	A, B, C, D, E, F
B-04-S2	N	580-130515-2	08/09/2023	SO	B, C
BG-01-S1	N	580-130515-8	08/09/2023	SO	A, B, C, D, E, F
BG-01-S2	N	580-130515-9	08/09/2023	SO	B, C
B-09-S1	N	580-130515-13	08/09/2023	SO	A, B, C, D, E, F
B-09-S2	N	580-130515-14	08/09/2023	SO	B, C
PP-01	N	580-130515-20	08/09/2023	OIL	A, B, C, F, G
FD-02	FD	580-130515-21	08/09/2023	SO	A, B, C, D, E, F
B-08-S1	N	580-130524-1	08/10/2023	SO	A, B, C, D, E, F
B-08-S2	N	580-130524-2	08/10/2023	SO	B, C
B-07-S1	N	580-130524-8	08/09/2023	SO	A, B, C, D, E, F
B-07-S2	N	580-130524-9	08/09/2023	SO	A, B, C, D, E, F
B-11-S1	N	580-130524-15	08/10/2023	SO	A, B, C, D, E, F
B-11-S2	N	580-130524-16	08/10/2023	SO	B, C
B-12-S1	N	580-130524-20	08/10/2023	SO	A, B, C, D, E, F
B-12-S2	N	580-130524-21	08/10/2023	SO	B, C
B-10-S1	N	580-130524-24	08/09/2023	SO	A, B, C, D, E, F
B-10-S2	N	580-130524-25	08/09/2023	SO	A, B, C, D, E, F
B-02-S2	N	23H0691-01	08/07/2023	SO	H, I
B-03-S1	N	23H0691-02	08/07/2023	SO	H, I
B-01-S1	N	23H0691-03	08/08/2023	SO	H, I
B-06-S1	N	23H0704-01	08/08/2023	SO	H, I
B-05-S1	N	23H0704-02	08/08/2023	SO	H, I
FD01	FD	23H0704-03	08/08/2023	SO	H, I
B-04-S1	N	23H0705-01	08/09/2023	SO	H, I
B-09-S1	N	23H0705-02	08/09/2023	SO	H, I
B-09-S1	N	23H0705-02RE1	08/09/2023	SO	I
B-10-S1	N	23H0706-05	08/09/2023	SO	H, I
B-11-S1	N	23H0706-03	08/10/2023	SO	H, I
B-12-S1	N	23H0706-04	08/10/2023	SO	H, I
B-07-S1	N	23H0706-02	08/09/2023	SO	H, I
B-07-S1	N	23H0706-02RE1	08/09/2023	SO	I
B-08-S1	N	23H0706-01	08/10/2023	SO	H, I

Method Holding Times			
A.	SW8270E	Semi-volatile Organic Compounds (SVOCs)	14 days extraction / 40 days analysis for solid, unpreserved, 7 days extraction / 40 days analysis for liquid, unpreserved

Method Holding Times			
B.	NWTPH-DX	Total Petroleum Hydrocarbons (TPH) Total Diesel	14 days for solid unpreserved, 14 days for liquid, preserved 7 days for liquid unpreserved
C.	NWTPH-GX	Total Petroleum Hydrocarbons (TPH) Total Gasoline	14 days for solid unpreserved, 14 days for liquid, preserved 7 days for liquid unpreserved
D.	SW6010D	Metals (by Optical Emission Spectrometry)	180 days for solid unpreserved
E.	SW7471A	Mercury (in Solids)	28 days extraction / 48 hours analysis for solid, unpreserved
F.	SW8260D	Volatile Organic Compounds (VOCs)	14 days for solid, preserved 14 days for solid unpreserved, 14 days for liquid, preserved 7 days for liquid unpreserved
G.	SW8082A	PCBS	7 days extraction / 40 days analysis for liquid, unpreserved
H.	WAEPH	WAEPH	14 days extraction/40 days analysis for solid unpreserved
I.	WAVPH	WAVPH	28 days for solid unpreserved

1.2 CASE NARRATIVE

The laboratory report case narrative lists various quality control exceedances (e.g., continuing calibration verification) not evaluated by this review; thus, no qualifiers were applied to the reported results.

The laboratory report case narratives included the following issues:

- SDG 580-30493-41, Method 8260D: The following samples were provided to the laboratory with a significantly different initial weight than that required by the reference method: B-01-S7 (580-130493-2), B-06-S1 (580-130493-3), B-06-S4 (580-130493-6), B-05-S1 (580-130493-10), B-05-S2 (580-130493-11), B-05-S3 (580-130493-12), and FD01 (580-130493-17). Deviations in the weight by more than 20% may affect reporting limits and potentially method performance. The method specifies 10g. The amount provided was above or below this range.
- SDG 580-30493-41, Method NWTPH-GX: The following samples were provided to the laboratory with a significantly different initial weight than that required by the reference method: B-01-S7 (580-130493-2), B-06-S1 (580-130493-3), B-06-S4 (580-130493-6), B-05-S1 (580-130493-10), B-05-S2 (580-130493-11), B-05-S3 (580-130493-12), FD01 (580-130493-17), and B-06-S2 (580-130493-4). Deviations in the weight by more than 20% may affect reporting limits and potentially method performance. The method specifies 10g. The amount provided was above or below this range.
- SDG 580-30515-1, Method NWTPH-GX: The following sample was analyzed at reduced volume due to high concentrations of target analytes: PP-01 (580-130515-20). The calculation was performed using an initial volume adjustment rather than a dilution factor. The reporting limits have been elevated by the appropriate factor.
- SDG 580-30515-1, Method NWTPH-GX: The following samples were provided to the laboratory with a significantly different initial weight than that required by the reference method: B-04-S1 (580-130515-1), BG-01-S1 (580-130515-8), B-09-S1 (580-130515-13), and FD-02 (580-130515-21). Deviations in the weight by more than 20% may affect reporting limits and potentially

method performance. The method specifies 10g. The amount provided was above or below this range.

- SDG 580-30515-1, Method 8082A: The following sample formed emulsions during the extraction procedure: PP-01 (580-130515-20). The emulsions were broken up by adding an additional 4 mL of sulfuric acid and centrifuging the dilution.
- SDG 580-30524-1, Method 8260D: The following sample was analyzed at reduced volume due to high concentrations of target analytes: B-07-S1 (580-130524-8). The calculation was performed using an initial volume adjustment rather than a dilution factor. The reporting limits have been elevated by the appropriate factor.
- SDG 580-30524-1, Method NWTPH-GX : The following samples were provided to the laboratory with a significantly different initial weight than that required by the reference method: B-08-S1 (580-130524-1), B-07-S2 (580-130524-9), B-11-S1 (580-130524-15) and B-12-S1 (580-130524-20), B-07-S1 (580-130524-8), B-08-S2 (580-130524-2), B-11-S2 (580-130524-16), and B-12-S2 (580-130524-21), B-10-S1 (580-130524-24), and B-10-S2 (580-130524-25). Deviations in the weight by more than 20% may affect reporting limits and potentially method performance. The method specifies 10g. The amount provided was above or below this range.

1.3 MULTIPLE SAMPLE RESULTS

The laboratory reported multiple results for the samples listed below. The validator chose the results that best met the DQOs of the project.

Lab ID	Analysis Date/Time	Method	Analyte	Qualification
23H0705-02	8/31/2023 5:26:00 PM	WAVPH	All analytes	The laboratory reanalyzed the sample due to surrogate failure. The original results are marked nonreportable and the reanalysis results are accepted.

1.4 HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified per method protocol, with the following exceptions:

Method	Matrix	Holding Time	Preservation	Sample ID, Violation, Qualification
SW8270E	Soil	14 days extraction / 40 days analysis for solid, unpreserved	Cool to ≤ 6°C	The following samples were analyzed outside the holding time and qualified J-/UJ: SDG 580-130493-1: B-01-S7, B-05-S1, B-05-S2, B-05-S3, B-06-S1, B-06-S4, FD01 SDG 580-130495-1: B-01-S1, B-02-S2, B-03-S1 SDG 580-130515-1: B-04-S1, B-09-S1, BG-01-S1 SDG 580-130524-1: B-10-S1, B10-S2

Method	Matrix	Holding Time	Preservation	Sample ID, Violation, Qualification
SW8270E	Liquid	7 days extraction / 40 days analysis for liquid, unpreserved	Cool to ≤ 6°C	The following sample was analyzed outside the holding time and qualified J-/UJ: SDG 580-130515-1: PP-01
NWTPH-DX	Soil	14 days for solid unpreserved	Cool to ≤ 6°C	The following samples were analyzed outside the holding time and qualified J-/UJ: All samples except PP-01
NWTPH-DX	Liquid	14 days for liquid, preserved 7 days for liquid unpreserved	Cool to ≤ 6°C; pH < 2 with Hydrochloric Acid (HCl)	The following samples were analyzed outside the holding time and qualified J-/UJ: PP-01
NWTPH-GX	Soil	14 days for solid unpreserved	Cool to ≤ 6°C	The following samples were analyzed outside the holding time and qualified J/UJ: All samples except PP-01
NWTPH-GX	Liquid	14 days for liquid, preserved 7 days for liquid unpreserved	Cool to ≤ 6°C; pH < 2 with Hydrochloric Acid (HCl); No Headspace	The following samples were analyzed outside the holding time and qualified J/UJ: PP-01
SW8260D	Soil	14 days for solid, preserved 14 days for solid unpreserved	Cool to ≤ 6°C	The following samples were analyzed outside the holding time and qualified J/UJ: SDG 580-130493-1: B-01-S7, B-05-S1, B-05-S2, B-05-S3, B-06-S1, B-06-S4, FD01 SDG 580-130495-1: B-01-S1, B-02-S2, B-03-S1 SDG 580-130515-1: B-04-S1, B-09-S1, BG-01-S1, FD-02 SDG 580-130524-1: B-07-S1, B-07-S2, B-08-S1, B-10-S1, B-10-S2, B-11-S1, B-12-S1
SW8260D	Liquid	14 days for liquid, preserved 7 days for liquid unpreserved for liquid unpreserved	Cool to ≤ 6°C; pH < 2 with Hydrochloric Acid (HCl); No Headspace	The following samples were analyzed outside the holding time and qualified J/UJ: PP-01
SW8082A	Liquid	7 days extraction / 40 days analysis, liquid unpreserved	Cool to ≤ 6°C	The following samples were analyzed outside the holding time and qualified J-/UJ: PP-01

Method	Matrix	Holding Time	Preservation	Sample ID, Violation, Qualification
WAEPH	Soil	14 days extraction/40 days analysis for solid unpreserved	Cool to ≤ 6°C	All samples were extracted outside the holding time and qualified J-/UJ.

1.5 REPORTING LIMITS AND SAMPLE DILUTIONS

All sample dilutions were reviewed and found to be justified. Dilution of the project samples were required to bring calibration of target analytes within calibration range, matrix interference, foaming at the time of purging, or abundance of non-target analytes.

1.6 REPORTING BASIS (WET/DRY)

Refer to Section E 1.1. Soil data in this SDG were reported on a dry weight basis.

Where reported, percent solid results were reviewed and found to be within limits.

1.7 SURROGATE RECOVERY COMPLIANCE

Refer to Section E 1.2. The percent recovery (%R) for each surrogate compound added to each project sample were determined to be within the laboratory specified quality control (QC) limits, with the following exceptions:

SDG	Method	Sample ID	Surrogate	Dilution	%R	Qualification
580-130493-1	SW8270E	B-01-S7	2,4,6-Tribromophenol	1x	46%	J-/UJ target compounds*
580-130493-1	SW8270E	B-06-S1	2,4,6-Tribromophenol	1x	47%	J-/UJ target compounds*
580-130493-1	SW8270E	B-06-S4	2,4,6-Tribromophenol	1x	41%	J-/UJ target compounds*
580-130493-1	SW8270E	B-05-S3	2,4,6-Tribromophenol	1x	52%	J-/UJ target compounds*
580-130495-1	SW8270E	B-03-S1	Terphenyl-d14	1x	126%	J+/None target compounds**
580-130515-1	SW8270E	B-04-S1	2,4,6-Tribromophenol	1x	59%	J-/UJ target compounds*
580-130515-1	SW8270E	B-09-S1	2,4,6-Tribromophenol	1x	61%	J-/UJ target compounds*
580-130515-1	SW8270E	PP-01	Phenol-d5	50x	137%	None, dilution > 5x
580-130515-1	SW8270E	PP-01	2,4,6-Tribromophenol	50x	0%	None, dilution > 5x
580-130515-1	SW8082A	PP-01	DCB Decachlorobiphenyl	1x	13%	J-/UJ target compounds***

SDG	Method	Sample ID	Surrogate	Dilution	%R	Qualification
580-130515-1	SW8082A	PP-01	Tetrachloro-m-xylene	1x	10%	J-/UJ target compounds****
580-130515-1	NWTPH-DX	PP-01	o-Terphenyl	5x	0%	None, dilution > 5x
580-130524-1	SW8270E	B-07-S1	Nitrobenzene-d5	20x	160%	None, dilution > 5x
580-130524-1	SW8270E	B-07-S1	2,4,6-Tribromophenol	20x	180%	None, dilution > 5x
580-130524-1	WAVPH	B-07-S1	2,5-Dibromotoluene (PID)	180x	59.2%	None, dilution > 5x

** Compounds targeted by 2,4,6-Tribromophenol: 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, 4-Nitrophenol, Pentachlorophenol.*

*** Compounds targeted by Terphenyl-d14: Phenanthrene.*

**** Compounds targeted by DCB Decachlorobiphenyl: Aroclor-1016 (PCB-1016), Aroclor-1221 (PCB-1221), Aroclor-1232 (PCB-1232), Aroclor-1242 (PCB-1242), Aroclor-1248 (PCB-1248), Aroclor-1254 (PCB-1254), Aroclor-1260 (PCB-1260).*

***** Compounds targeted by Tetrachloro-m-xylene: Aroclor-1016 (PCB-1016), Aroclor-1221 (PCB-1221), Aroclor-1232 (PCB-1232), Aroclor-1242 (PCB-1242), Aroclor-1248 (PCB-1248), Aroclor-1254 (PCB-1254), Aroclor-1260 (PCB-1260).*

1.8 LABORATORY CONTROL SAMPLES

Refer to Section E 1.3. Compounds associated with the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses associated with client samples exhibited recoveries and relative percent differences (RPDs) within the specified limits, with the following exceptions:

SDG #	Sample Type	Method	Batch ID	Analyte	%R/RPD	Qualifier	Affected Samples
580-130493-1	LCS/LCSD	SW8270E	437759	Benzoic acid	52%/30%, RPD=55	J+/None	None, samples are ND
580-130493-1	LCS/LCSD	SW8270E	437759	4-Chloroaniline	40%/61%, RPD=41	J+/None	None, samples are ND
580-130515-1	LCS/LCSD	SW8260D	436126, 436217	1,2,3-Trichlorobenzene	165%/179%	J/None	None, samples are ND
580-130515-1	LCS/LCSD	SW8260D	436126, 436217	Naphthalene	163%/162%	J/None	None, samples are ND
580-130515-1	LCS/LCSD	SW8260D	436126, 436217	Bromomethane	124%/93%, RPD=29	J/None	None, samples are ND
580-130515-1	LCS/LCSD	SW8270E	437062	4-Chloro-3-methylphenol	81%/61%, RPD=29	J+/None	None, samples are ND
580-130524-1	LCS/LCSD	SW8260D	436099	1,2,3-Trichlorobenzene	165%/179%	J/None	None, samples are ND
580-130524-1	LCS/LCSD	SW8260D	436099	Naphthalene	163%/162%	J/None	None, samples are ND

1.9 MATRIX SPIKE SAMPLES

Refer to Section E 1.4. The sample(s) below were used for matrix spike/matrix spike duplicate (MS/MSD):

Lab Sample Number	Matrix Spike/Matrix Spike Duplicate Sample Client ID	Method(s)
580-130493-2	B-01-S7	SW8270E
580-130493-3	B-06-S1	SW6010D
580-130493-10	B-05-S1	SW7471A
580-130495-2	B-02-S2	SW8270E, SW6010D
580-130515-20	PP-01	SW8270E

The MS/MSD recoveries and the RPD between the MS and MSD results were within the specified limits, with the following exceptions shown in Table 1.

1.10 BLANK SAMPLE ANALYSIS

Refer to Section E 1.5. Method blank samples had no detections, indicating that no contamination from laboratory activities occurred, with the following exceptions shown in Table 2.

1.11 DUPLICATE SAMPLE ANALYSIS

Refer to Section E 1.6. The following sample(s) were used for laboratory duplicate analysis and the RPDs were all below 20 percent (or the absolute difference rule was satisfied if detects were less than 5 times the RL). Any exceptions are noted below and qualified.

Lab Sample Number	Laboratory Duplicate Sample Client ID	Method(s)
580-130493-2	B-01-S7	NWTPH-DX
580-130493-3	B-06-S1	SW6010D
580-130493-10	B-05-S1	SW7471A
580-130495-2	B-02-S2	NWTPH-DX, SW6010D
580-130515-2	B-04-S2	NWTPH-DX
580-130515-20	PP-01	NWTPH-DX
580-130524-25	B-10-S2	NWTPH-DX

SDG	Lab Sample Number	Laboratory Duplicate Sample Client ID	Method(s)/Analyte	% RPD	Qualification
580-1301493-1	580-130493-3	B-06-S1	Cadmium/SW6010D	38	None, Abs. Diff. < RL
580-1301493-1	580-130493-3	B-06-S1	Copper/SW6010D	36	J/UJ, RPD > 20%
580-1301493-1	580-130493-3	B-06-S1	Potassium/SW6010D	27	J/UJ, RPD > 20%

The following sample(s) were used for field duplicate analysis. RPDs were all below 50 percent for soil (or the absolute difference rule was satisfied if detects were less than 5 times the RL). Any exceptions are noted below and qualified.

Primary Sample ID	Duplicate Sample ID	Method(s)
B-05-S1	FD01	NWTPH-DX, NWTPH-GX, EPA 6010D, EPA 7471A, EPA 8260D, EPA 8270E
B-07-S2	FD-02	NWTPH-DX, NWTPH-GX, EPA 6010D, EPA 7471A, EPA 8260D, EPA 8270E
B-05-S1	FD01	WAEPH, WAVPH

Field Duplicate RPD Calculations:

Method	Analyte	Units	Primary Sample ID	Duplicate Sample ID	% RPD	Qualification
			B-05-S1	FD01		
SW6010D	Copper	mg/kg	13	22	NA	J/UJ, Abs. Diff. > RL
SW6010D	Lead	mg/kg	2.9	5.2	NA	J/UJ, Abs. Diff. > RL
SW6010D	Sodium	mg/kg	390	240	NA	J/UJ, Abs. Diff. > RL
NWTPH-DX	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	mg/kg	ND	300	NA	J/UJ, Abs. Diff. > RL
Method	**Analyte**	**Units**	**Primary Sample ID**	**Duplicate Sample ID**	**% RPD**	**Qualification**
			B-07-S2	**FD-02**		
SW6010D	Sodium	mg/kg	360	500	NA	J/UJ, Abs. Diff. > RL
Method	**Analyte**	**Units**	**Primary Sample ID**	**Duplicate Sample ID**	**% RPD**	**Qualification**
			B-05-S1	**FD01**		
WAEPH	Extractable Petroleum Hydrocarbons (C16-C21) Aliphatic	ug/kg	10700	3890	NA	J/UJ, Abs. Diff. > RL
WAEPH	Extractable Petroleum Hydrocarbons (C21-C34) Aliphatic	ug/kg	ND	9880	NA	J/UJ, Abs. Diff. > RL

1.12 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the DQOs for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable, except for rejected data noted in Table 3. A summary of qualifiers applied to this data set is shown in Table 3.

2. Precision and Accuracy [for SDG(s) above]

Refer to Section E 1.7. Where required by the method, some measurement of analytical accuracy and precision was reported for each method with the site samples.

3. Explanations

The following explanations include more detailed information regarding each of the sections in the DUSR above. Not all sections in the Explanations are represented:

- E 1.1 Reporting Basis (Wet/Dry)
  - Soil samples can be reported on either a wet (as received) or dry weight basis. Dry weight data indicate calculations were made to compensate for the moisture content of the soil sample.
  - Percent (%) solids should be appropriately considered when evaluating analytical results for non-aqueous samples. Sediments with high moisture content may or may not be successfully analyzed by routine analytical methods. Samples should have greater than or equal to 30 percent solids to be appropriately quantified.
- E 1.2 Surrogate Recovery Compliance
  - Surrogates, also known as system monitoring compounds, are compounds added to each sample prior to sample preparation to determining the efficiency of the extraction procedure by evaluating the %R of the compounds.
- E 1.3 Laboratory Control Samples
  - The LCS/LCSD analyses are used to assess the precision and accuracy of the analytical method independent of matrix interferences.
- E 1.4 Matrix Spike Samples
  - MS/MSD data are used to assess the precision and accuracy of the analytical method and evaluate the effects of the sample matrix on the sample preparation procedures and measurement methodologies.
  - For inorganic methods, when a matrix spike recovery falls outside of the control limits and the sample result is less than four times the spike added, a post-digestion spike (PDS) is performed.
- E 1.5 Blank Sample Analysis
  - Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination.
- E 1.6 Laboratory and Field Duplicate Sample Analysis
  - The laboratory duplicate sample analysis is used by the laboratory at the time of the analysis to demonstrate acceptable method precision. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
  - The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
- E 1.7 Precision and Accuracy
  - Precision measures the reproducibility of repetitive measurements. In a laboratory environment, this will be measured by determining the RPD found between a primary and a duplicate sample. This can be an LCS/LCSD pair, a MS/MSD pair, a laboratory

duplicate performed on a site sample, or a field duplicate collected and analyzed concurrently with a site sample.

- Accuracy is a statistical measurement of the correctness of a measured value and includes components of random error (variability caused by imprecision) and systematic error. In a laboratory environment, this will be measured by determining the %R of certain spiked compounds. This can be assessed using LCS, blank spike (BS), MS, and/or surrogate recoveries.

4. Glossary

Not all of the following symbols, acronyms, or qualifiers occur in this document.

- Sample Types:
  - EB Equipment Blank Sample
  - FB Field Blank Sample
  - FD Field Duplicate Sample
  - N Primary Sample
  - TB Trip Blank Sample
- Units:
  - µg/kg micrograms per kilogram
  - µg/L micrograms per liter
  - µg/m^3 micrograms per cubic meter
  - mg/kg milligrams per kilogram
  - mg/L milligrams per liter
  - ppb v/v parts per billion volume/volume
  - pCi/L picocuries per liter
  - pg/g picograms per gram
- Matrices:
  - AA Ambient Air
  - GS Soil Gas
  - GW/WG Groundwater
  - QW Water Quality
  - IA Indoor Air
  - SE Sediment
  - SO Soil
  - SSV Sub-slab Vapor
  - WQ Water Quality control matrix
  - WS Surface Water
- Table Footnotes:
  - NA Not applicable
  - ND Non-detect
  - NR Not reported
- Common Symbols:
  - % percent
  - < less than
  - ≤ less than or equal to
  - > greater than
  - ≥ greater than or equal to
  - = equal
  - °C degrees Celsius
  - ± plus or minus
  - ~ approximately
  - x times (multiplier)

- Fractions:
  - N Normal (method cannot be filtered)
  - D Dissolved (filtered)
  - T Total (unfiltered)

5. Abbreviations

%D	Percent Difference
%R	Percent Recovery
%RSD	Percent Relative Standard Deviation
%v/v	Percent volume by volume
2s	2 sigma
4,4-DDT	4 4-dichlorodiphenyltrichloroethane
Abs Diff	Absolute Difference
amu	atomic mass unit
BPJ	Best Professional Judgement
BS	Blank Spike
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CCVL	Continuing Calibration Verification Low
COC	Chain of Custody
COM	Combined Isotope Calculation
Cr (VI)	Hexavalent Chromium
CRI	Collision Reaction Interface
DoD	Department of Defense
DQO	data quality objective
DUSR	Data Usability Summary Report
EIS	Extraction Internal Standard
EMPC	Estimated Maximum Possible Concentration
FBK	Field Blank Contamination
FDP	Field Duplicate
GC	Gas Chromatograph
GC/MS	Gas Chromatography/Mass Spectrometry
GPC	Gel Permeation Chromatography
H_2	Hydrogen gas
HCl	Hydrochloric Acid
ICAL	Initial Calibration
ICB	Initial Calibration Blank
ICP/MS	Inductively Coupled Plasma/Mass Spectrometry
ICV	Initial Calibration Verification
ICVL	Initial Calibration Verification Low
IPA	Isopropyl Alcohol
LC	Laboratory Control
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate
MBK	Method Blank Contamination
MDC	Minimum Detectable Concentration
MDL	Laboratory Method Detection Limit
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NA	not applicable
ND	Non-Detect
NFG	National Functional Guidelines
NH_3	Ammonia
NYSDEC	New York State Department of Environmental Conservation
PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated Biphenyl
PDS	Post-Digestion Spike
PEM	Performance Evaluation Mixture
PFAS	Per- and Polyfluoroalkyl Substances
PFBA	Perfluorbutanoic Acid
PFD	Perfluorodecalin
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctane sulfonate
PFPeA	Perfluoropentanoic Acid
QAPP	Quality Assurance Project Plan
QC	Quality Control
QSM	Quality Systems Manual
R^2	R-squared value
Ra-226	Radium-226
Ra-228	Radium-228
RESC	Resolution Check Measure
RL	Laboratory Reporting Limit
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SAP	Sampling Analysis Plan
SDG	Sample Delivery Group
SIM	Selected ion monitoring
SOP	Standard Operating Procedure
SPE	Solid-Phase Extraction
SVOC	Semi-Volatile Organic Compound
TCLP	Toxicity Characteristic Leaching Procedure
TIC	Tentatively Identified Compound
TKN	Total Kjeldahl Nitrogen
TPH	Total Petroleum Hydrocarbon
TPU	Total Propagated Uncertainty
USEPA	U.S. Environmental Protection Agency
VOC	Volatile Organic Compound
WP	Work Plan

6. Qualifiers

The qualifiers below are from the USEPA National Functional Guidelines and the data in the DUSR may contain these qualifiers:

- Concentration (C) Qualifiers:

  U The compound was analyzed for but not detected. The associated value is either the compound quantitation limit if not detected by the analytical instrument or could be the reported or blank concentration if qualified by blank contamination. This can also be displayed as less than the associated compound quantitation limit (<RL or <MDL), or "ND".

  B The compound was found in the sample and its associated blank. Its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers:

  E The compound was quantitated above the calibration range.

  D The concentration is based on a diluted sample analysis.

- Validation Qualifiers:

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  J+ The result is an estimated quantity, but the result may be biased high.

  J- The result is an estimated quantity, but the result may be biased low.

  J/UJ as listed in exception tables J applies to detected data and UJ applies to non-detected data as reported by the laboratory.

  UJ The compound was not detected above the reported sample quantitation limit; however, the reported limit is estimated and may or may not represent the actual limit of quantitation.

  NJ The analysis indicated the presence of a compound for which there is presumptive evidence to make a tentative identification; the associated numerical value is an estimated concentration only.

  R The sample results were rejected as unusable; the compound may or may not be present in the sample.

  S Result is suspect. See DUSR for details.

References

1. United States Environmental Protection Agency, 2020a. National Functional Guidelines for Inorganic Superfund Methods Data Review. EPA-542-R-20-006. November.

2. United States Environmental Protection Agency, 2020b. National Functional Guidelines for Organic Superfund Methods Data Review. EPA-540-R-20-005. November.

Attachments:

Table 1 – MS/MSD Summary
Table 2 – Method Blank Summary
Table 3 – System Performance Summary

TABLES

TABLE 1
MS/MSD SUMMARY
FORMER GARONE BROS AUTO SERVICE CENTER SITE
BROOKLYN, NEW YORK

SDG	Sample Type	Method	Parent Sample	Analyte	%R/RPD	Qualifier	Affected Samples
580-130493-1	MS/MSD	SW8270E	B-01-S7	Benzoic acid	32%/0%	J/R	580-130493-2
580-130493-1	MS/MSD	SW6010D	B-06-S1	Potassium	114%/123%	J+/None	All samples in 580-130493-1
580-130493-1	MS/MSD	SW7471A	B-05-S1	Mercury	145%/130%	J+/None	All samples in 580-130493-1
580-130495-1	MS/MSD	SW6010D	B-02-S2	Potassium	122%/119%	J+/None	All samples in 580-130495-1
580-130495-1	MS/MSD	SW6010D	B-02-S2	Sodium	135%/119%	J+/None	All samples in 580-130495-1
580-130515-1	MS/MSD	SW8270E	PP-01	2-Methylphenol	124%/79%	J/None	None, sample is ND
580-130515-1	MS/MSD	SW8270E	PP-01	N-Nitrosodi-n-propylamine	144%/148%	J/None	None, sample is ND
580-130515-1	MS/MSD	SW8270E	PP-01	Hexachloroethane	142%/138%	J/None	None, sample is ND
580-130515-1	MS/MSD	SW8270E	PP-01	2,4,6-Trichlorophenol	150%/120%	J/None	None, sample is ND
580-130515-1	MS/MSD	SW8270E	PP-01	2-Nitroaniline	197%/0%	J/R	580-130515-20
580-130515-1	MS/MSD	SW8270E	PP-01	2,6-Dinitrotoluene	0%/0%	J/R	580-130515-20
580-130515-1	MS/MSD	SW8270E	PP-01	Diethyl phthalate	127%/110%, RPD=24	J/None	None, sample is ND
580-130515-1	MS/MSD	SW8270E	PP-01	Pentachlorophenol	304%/292%	J/None	None, sample is ND
580-130515-1	MS/MSD	SW8270E	PP-01	Di-n-butyl phthalate	144%/117%	J/None	None, sample is ND
580-130515-1	MS/MSD	SW8270E	PP-01	Pyrene	141%/138%	J/None	None, sample is ND
580-130515-1	MS/MSD	SW8270E	PP-01	Bis(2-ethylhexyl) phthalate	254%/181%	NA	None, native sample > 4x the spike added
580-130515-1	MS/MSD	SW8270E	PP-01	Di-n-octyl phthalate	318%/280%	J/None	None, sample is ND
580-130515-1	MS/MSD	SW8270E	PP-01	Benzo[a]pyrene	130%/117%	J/None	None, sample is ND
580-130515-1	MS/MSD	SW8270E	PP-01	1,4-Dichlorobenzene	113%/64%, RPD=46	J/UJ	580-130515-20
580-130515-1	MS/MSD	SW8270E	PP-01	1,2-Dichlorobenzene	113%/73%, RPD=34	J/None	None, sample is ND
580-130515-1	MS/MSD	SW8270E	PP-01	Hexachlorocyclopentadiene	0%/0%	J/R	580-130515-20
580-130515-1	MS/MSD	SW8270E	PP-01	Dibenzofuran	118%/85%, RPD=22	J/None	None, sample is ND
580-130515-1	MS/MSD	SW8270E	PP-01	Fluorene	87%/104%, RPD=28	J/None	None, sample is ND
580-130515-1	MS/MSD	SW8270E	PP-01	Fluoranthene	103%/121%, RPD=27	J/None	None, sample is ND
580-130515-1	MS/MSD	SW8270E	PP-01	Benzo[g,h,i]perylene	75%/110%, RPD=48	J/None	None, sample is ND

TABLE 2
METHOD BLANK SUMMARY
FORMER GARONE BROS AUTO SERVICE CENTER SITE
BROOKLYN, NEW YORK

Blank Type	Batch ID	Analyte Detected in Blank	Concentration	Qualifier	Affected Samples
Method Blank	435833	Hexachlorobutadiene	0.0515 J	RL U	580-130493-2, -3, -6, -7, -10, -11, -12, -17, 580-130495-2, -13
Method Blank	437759	Diethyl phthalate	0.0905 J	RL U	580-130493-2, -3, -6, -10, -11
Method Blank	435959	Chromium	2.63	NA	None, samples are >10x blank
Method Blank	435959	Nickel	2.23	NA	None, samples are >10x blank
Method Blank	436126	1,3,5-Trimethylbenzene	8.79 J ug/kg	NA	None, samples are ND
Method Blank	436126	4-Isopropyltoluene	19.3 J ug/kg	RL U	580-130515-20
Method Blank	436126	n-Butylbenzene	25.4 J ug/kg	NA	None, samples are ND
Method Blank	436126	sec-Butylbenzene	17.5 J ug/kg	NA	None, samples are ND
Method Blank	436126	t-Butylbenzene	9.52 J ug/kg	NA	None, samples are ND
Method Blank	436126	1,2,4-Trichlorobenzene	78.6 J ug/kg	NA	None, samples are ND
Method Blank	436126	Hexachlorobutadiene	36.1 J ug/kg	NA	None, samples are ND
Method Blank	436126	Naphthalene	46.2 J ug/kg	NA	None, samples are ND
Method Blank	436099	1,2,3-Trichlorobenzene	0.139	NA	None, samples are ND
Method Blank	436099	1,2,4-Trichlorobenzene	0.0786 J	NA	None, samples are ND
Method Blank	436099	1,3,5-Trimethylbenzene	0.00879 J	NA	None, samples are ND
Method Blank	436099	4-Isopropyltoluene	0.0193 J	NA	None, samples are >2x blank
Method Blank	436099	Hexachlorobutadiene	0.0361 J	NA	None, samples are ND
Method Blank	436099	Naphthalene	0.0462 J	NA	None, samples are >2x blank
Method Blank	436099	n-Butylbenzene	0.0254 J	NA	None, samples are ND
Method Blank	436099	sec-Butylbenzene	0.0175 J	NA	None, samples are ND
Method Blank	436099	t-Butylbenzene	0.00952 J	NA	None, samples are ND

SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
5801304951	SW6010D	NA	B-01-S1	580-130495-13	Copper	N	Yes	46	46 J	DUP
5801304931	SW6010D	NA	B-01-S7	580-130493-2	Copper	N	Yes	16	16 J	DUP
5801304951	SW6010D	NA	B-02-S2	580-130495-2	Copper	N	Yes	34	34 J	DUP
5801304951	SW6010D	NA	B-03-S1	580-130495-7	Copper	N	Yes	32	32 J	DUP
5801305151	SW6010D	NA	B-04-S1	580-130515-1	Copper	N	Yes	35	35 J	DUP
5801305151	SW6010D	NA	B-04-S1	580-130515-1	Potassium	N	Yes	1100	1100 J	DUP
5801304931	SW6010D	NA	B-05-S2	580-130493-11	Copper	N	Yes	44	44 J	DUP
5801304931	SW6010D	NA	B-05-S3	580-130493-12	Copper	N	Yes	35	35 J	DUP
5801304931	SW6010D	NA	B-06-S1	580-130493-3	Copper	N	Yes	27	27 J	DUP
5801304931	SW6010D	NA	B-06-S4	580-130493-6	Copper	N	Yes	31	31 J	DUP
5801305241	SW6010D	NA	B-07-S1	580-130524-8	Copper	N	Yes	20	20 J	DUP
5801305241	SW6010D	NA	B-07-S1	580-130524-8	Potassium	N	Yes	340	340 J	DUP
5801305241	SW6010D	NA	B-07-S2	580-130524-9	Copper	N	Yes	28	28 J	DUP
5801305241	SW6010D	NA	B-07-S2	580-130524-9	Potassium	N	Yes	930	930 J	DUP
5801305241	SW6010D	NA	B-08-S1	580-130524-1	Copper	N	Yes	33	33 J	DUP
5801305241	SW6010D	NA	B-08-S1	580-130524-1	Potassium	N	Yes	990	990 J	DUP
5801305151	SW6010D	NA	B-09-S1	580-130515-13	Copper	N	Yes	28	28 J	DUP
5801305151	SW6010D	NA	B-09-S1	580-130515-13	Potassium	N	Yes	1000	1000 J	DUP
5801305241	SW6010D	NA	B-10-S1	580-130524-24	Copper	N	Yes	14	14 J	DUP
5801305241	SW6010D	NA	B-10-S1	580-130524-24	Potassium	N	Yes	600	600 J	DUP
5801305241	SW6010D	NA	B-10-S2	580-130524-25	Copper	N	Yes	45	45 J	DUP
5801305241	SW6010D	NA	B-10-S2	580-130524-25	Potassium	N	Yes	1600	1600 J	DUP
5801305241	SW6010D	NA	B-11-S1	580-130524-15	Copper	N	Yes	16	16 J	DUP
5801305241	SW6010D	NA	B-11-S1	580-130524-15	Potassium	N	Yes	490	490 J	DUP
5801305241	SW6010D	NA	B-12-S1	580-130524-20	Copper	N	Yes	11	11 J	DUP
5801305241	SW6010D	NA	B-12-S1	580-130524-20	Potassium	N	Yes	340	340 J	DUP
5801305151	SW6010D	NA	BG-01-S1	580-130515-8	Copper	N	Yes	28	28 J	DUP
5801305151	SW6010D	NA	BG-01-S1	580-130515-8	Potassium	N	Yes	1000	1000 J	DUP
5801305151	SW6010D	NA	FD-02	580-130515-21	Copper	N	Yes	37	37 J	DUP
5801305151	SW6010D	NA	FD-02	580-130515-21	Potassium	N	Yes	1400	1400 J	DUP
5801304931	SW6010D	NA	B-05-S1	580-130493-10	Copper	N	Yes	13	13 J	DUP, FDP
5801304931	SW6010D	NA	FD01	580-130493-17	Copper	N	Yes	22	22 J	DUP, FDP
5801304931	SW6010D	NA	B-05-S1	580-130493-10	Lead	N	Yes	2.9	2.9 J	FDP
5801304931	SW6010D	NA	B-05-S1	580-130493-10	Sodium	N	Yes	390	390 J	FDP
5801305241	SW6010D	NA	B-07-S2	580-130524-9	Sodium	N	Yes	360	360 J	FDP
5801305151	SW6010D	NA	FD-02	580-130515-21	Sodium	N	Yes	500	500 J	FDP
5801304931	SW6010D	NA	FD01	580-130493-17	Lead	N	Yes	5.2	5.2 J	FDP
5801304931	SW6010D	NA	FD01	580-130493-17	Sodium	N	Yes	240	240 J	FDP
5801304951	NWTPH-DX	NA	B-01-S1	580-130495-13	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	U	UJ	HTQ
5801304951	NWTPH-DX	NA	B-01-S1	580-130495-13	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	U	UJ	HTQ
5801304951	NWTPH-GX	NA	B-01-S1	580-130495-13	Gasoline	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	1,1,1,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	1,1,1-Trichloroethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	1,1,2,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	1,1,2-Trichloroethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	1,1-Dichloroethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	1,1-Dichloroethene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	1,1-Dichloropropene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	1,2,3-Trichlorobenzene	N	Yes	0.046 J	0.046 J	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	1,2,3-Trichloropropane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	1,2,4-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	1,2-Dibromo-3-chloropropane (DBCP)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	1,2-Dibromoethane (Ethylene Dibromide)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	1,2-Dichloroethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	1,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	1,3,5-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	1,3-Dichloropropane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	2,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	2-Chlorotoluene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	2-Phenylbutane (sec-Butylbenzene)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	4-Chlorotoluene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	Benzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	Bromobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	Bromodichloromethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	Bromoform	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	Bromomethane (Methyl Bromide)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	Carbon tetrachloride	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	Chlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	Chlorobromomethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	Chloroethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	Chloroform (Trichloromethane)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	Cymene (p-Isopropyltoluene)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	Dibromochloromethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	Dibromomethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	Dichlorodifluoromethane (CFC-12)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	Ethylbenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	Isopropylbenzene (Cumene)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	Methyl Tert Butyl Ether (MTBE)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	Methylene chloride (Dichloromethane)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	Naphthalene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	Styrene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	Tetrachloroethene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	Toluene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	Trichloroethene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	Trichlorofluoromethane (CFC-11)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	Vinyl chloride	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	cis-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	cis-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	m,p-Xylenes	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	n-Butylbenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	n-Propylbenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	o-Xylene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	tert-Butylbenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	trans-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-01-S1	580-130495-13	trans-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	1-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	2,2'-oxybis(1-Chloropropane)	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	2,4,5-Trichlorophenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	2,4,6-Trichlorophenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	2,4-Dichlorophenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	2,4-Dimethylphenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	2,4-Dinitrophenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	2,4-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	2,6-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	2-Chloronaphthalene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	2-Chlorophenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	2-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	2-Methylphenol (o-Cresol)	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	2-Nitroaniline	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	2-Nitrophenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	3&4-Methylphenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	3,3'-Dichlorobenzidine	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	3-Nitroaniline	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	4,6-Dinitro-2-methylphenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	4-Bromophenyl phenyl ether (BDE-3)	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	4-Chloro-3-methylphenol	N	Yes	U	UJ	HTQ

SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
5801304951	SW8270E	NA	B-01-S1	580-130495-13	4-Chloroaniline	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	4-Chlorophenyl phenyl ether	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	4-Nitroaniline	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	4-Nitrophenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Acenaphthene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Acenaphthylene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Anthracene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Benzo(a)anthracene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Benzo(a)pyrene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Benzo(b)fluoranthene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Benzo(g,h,i)perylene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Benzo(k)fluoranthene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Benzoic acid	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Benzyl Alcohol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Butyl benzylphthalate (BBP)	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Carbazole	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Chrysene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Di-n-butylphthalate (DBP)	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Di-n-octyl phthalate (DnOP)	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Dibenz(a,h)anthracene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Dibenzofuran	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Diethyl phthalate	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Dimethyl phthalate	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Fluoranthene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Fluorene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Hexachlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Hexachlorobutadiene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Hexachlorocyclopentadiene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Hexachloroethane	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Indeno(1,2,3-cd)pyrene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Isophorone	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	N-Nitrosodi-n-propylamine	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	N-Nitrosodiphenylamine	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Naphthalene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Nitrobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Pentachlorophenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Phenanthrene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Phenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	Pyrene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	bis(2-Chloroethoxy)methane	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	bis(2-Chloroethyl)ether	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-01-S1	580-130495-13	bis(2-Ethylhexyl)phthalate	N	Yes	0.23 J	0.23 J-	HTQ
5801304951	NWTPH-DX	NA	B-01-S2	580-130495-14	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	U	UJ	HTQ
5801304951	NWTPH-DX	NA	B-01-S2	580-130495-14	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	U	UJ	HTQ
5801304951	NWTPH-GX	NA	B-01-S2	580-130495-14	Gasoline	N	Yes	U	UJ	HTQ
5801304931	NWTPH-DX	NA	B-01-S7	580-130493-2	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	U	UJ	HTQ
5801304931	NWTPH-DX	NA	B-01-S7	580-130493-2	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	U	UJ	HTQ
5801304931	NWTPH-GX	NA	B-01-S7	580-130493-2	Gasoline	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	1,1,1,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	1,1,1-Trichloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	1,1,2,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	1,1,2-Trichloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	1,1-Dichloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	1,1-Dichloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	1,1-Dichloropropene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	1,2,3-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	1,2,3-Trichloropropane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	1,2,4-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	1,2-Dibromo-3-chloropropane (DBCP)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	1,2-Dibromoethane (Ethylene Dibromide)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	1,2-Dichloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	1,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	1,3,5-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	1,3-Dichloropropane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	2,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	2-Chlorotoluene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	2-Phenylbutane (sec-Butylbenzene)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	4-Chlorotoluene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	Benzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	Bromobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	Bromodichloromethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	Bromoform	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	Bromomethane (Methyl Bromide)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	Carbon tetrachloride	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	Chlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	Chlorobromomethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	Chloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	Chloroform (Trichloromethane)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	Cymene (p-Isopropyltoluene)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	Dibromochloromethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	Dibromomethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	Dichlorodifluoromethane (CFC-12)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	Ethylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	Isopropylbenzene (Cumene)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	Methyl Tert Butyl Ether (MTBE)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	Methylene chloride (Dichloromethane)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	Naphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	Styrene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	Tetrachloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	Toluene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	Trichloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	Trichlorofluoromethane (CFC-11)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	Vinyl chloride	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	cis-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	cis-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	m,p-Xylenes	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	n-Butylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	n-Propylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	o-Xylene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	tert-Butylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	trans-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-01-S7	580-130493-2	trans-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	1-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	2,2'-oxybis(1-Chloropropane)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	2,4-Dichlorophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	2,4-Dimethylphenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	2,4-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	2,6-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	2-Chloronaphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	2-Chlorophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	2-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	2-Methylphenol (o-Cresol)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	2-Nitroaniline	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	2-Nitrophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	3&4-Methylphenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	3,3'-Dichlorobenzidine	N	Yes	U	UJ	HTQ

SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
5801304931	SW8270E	NA	B-01-S7	580-130493-2	3-Nitroaniline	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	4-Bromophenyl phenyl ether (BDE-3)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	4-Chloro-3-methylphenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	4-Chloroaniline	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	4-Chlorophenyl phenyl ether	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	4-Nitroaniline	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Acenaphthene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Acenaphthylene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Anthracene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Benzo(a)anthracene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Benzo(a)pyrene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Benzo(b)fluoranthene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Benzo(g,h,i)perylene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Benzo(k)fluoranthene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Benzyl Alcohol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Butyl benzylphthalate (BBP)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Carbazole	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Chrysene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Di-n-butylphthalate (DBP)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Di-n-octyl phthalate (DnOP)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Dibenz(a,h)anthracene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Dibenzofuran	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Dimethyl phthalate	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Fluoranthene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Fluorene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Hexachlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Hexachlorobutadiene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Hexachlorocyclopentadiene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Hexachloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Indeno(1,2,3-cd)pyrene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Isophorone	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	N-Nitrosodi-n-propylamine	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	N-Nitrosodiphenylamine	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Naphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Nitrobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Phenanthrene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Phenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Pyrene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	bis(2-Chloroethoxy)methane	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	bis(2-Chloroethyl)ether	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-01-S7	580-130493-2	bis(2-Ethylhexyl)phthalate	N	Yes	0.22 J	0.22 J-	HTQ
5801304951	NWTPH-DX	NA	B-02-S2	580-130495-2	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	U	UJ	HTQ
5801304951	NWTPH-DX	NA	B-02-S2	580-130495-2	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	U	UJ	HTQ
5801304951	NWTPH-GX	NA	B-02-S2	580-130495-2	Gasoline	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	1,1,1,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	1,1,1-Trichloroethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	1,1,2,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	1,1,2-Trichloroethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	1,1-Dichloroethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	1,1-Dichloroethene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	1,1-Dichloropropene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	1,2,3-Trichlorobenzene	N	Yes	0.088	0.088 J	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	1,2,3-Trichloropropane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	1,2,4-Trichlorobenzene	N	Yes	0.051 J	0.051 J	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	1,2,4-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	1,2-Dibromo-3-chloropropane (DBCP)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	1,2-Dibromoethane (Ethylene Dibromide)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	1,2-Dichloroethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	1,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	1,3,5-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	1,3-Dichloropropane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	2,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	2-Chlorotoluene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	2-Phenylbutane (sec-Butylbenzene)	N	Yes	0.01 J	0.01 J	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	4-Chlorotoluene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	Benzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	Bromobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	Bromodichloromethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	Bromoform	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	Bromomethane (Methyl Bromide)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	Carbon tetrachloride	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	Chlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	Chlorobromomethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	Chloroethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	Chloroform (Trichloromethane)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	Cymene (p-Isopropyltoluene)	N	Yes	0.012 J	0.012 J	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	Dibromochloromethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	Dibromomethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	Dichlorodifluoromethane (CFC-12)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	Ethylbenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	Isopropylbenzene (Cumene)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	Methyl Tert Butyl Ether (MTBE)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	Methylene chloride (Dichloromethane)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	Naphthalene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	Styrene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	Tetrachloroethene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	Toluene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	Trichloroethene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	Trichlorofluoromethane (CFC-11)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	Vinyl chloride	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	cis-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	cis-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	m,p-Xylenes	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	n-Butylbenzene	N	Yes	0.03 J	0.03 J	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	n-Propylbenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	o-Xylene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	tert-Butylbenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	trans-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-02-S2	580-130495-2	trans-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	1-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	2,2'-oxybis(1-Chloropropane)	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	2,4,5-Trichlorophenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	2,4,6-Trichlorophenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	2,4-Dichlorophenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	2,4-Dimethylphenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	2,4-Dinitrophenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	2,4-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	2,6-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	2-Chloronaphthalene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	2-Chlorophenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	2-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	2-Methylphenol (o-Cresol)	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	2-Nitroaniline	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	2-Nitrophenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	3&4-Methylphenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	3,3'-Dichlorobenzidine	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	3-Nitroaniline	N	Yes	U	UJ	HTQ

SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
5801304951	SW8270E	NA	B-02-S2	580-130495-2	4,6-Dinitro-2-methylphenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	4-Bromophenyl phenyl ether (BDE-3)	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	4-Chloro-3-methylphenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	4-Chloroaniline	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	4-Chlorophenyl phenyl ether	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	4-Nitroaniline	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	4-Nitrophenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Acenaphthene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Acenaphthylene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Anthracene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Benzo(a)anthracene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Benzo(a)pyrene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Benzo(b)fluoranthene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Benzo(g,h,i)perylene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Benzo(k)fluoranthene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Benzoic acid	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Benzyl Alcohol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Butyl benzylphthalate (BBP)	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Carbazole	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Chrysene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Di-n-butylphthalate (DBP)	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Di-n-octyl phthalate (DnOP)	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Dibenz(a,h)anthracene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Dibenzofuran	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Diethyl phthalate	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Dimethyl phthalate	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Fluoranthene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Fluorene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Hexachlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Hexachlorobutadiene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Hexachlorocyclopentadiene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Hexachloroethane	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Indeno(1,2,3-cd)pyrene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Isophorone	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	N-Nitrosodi-n-propylamine	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	N-Nitrosodiphenylamine	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Naphthalene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Nitrobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Pentachlorophenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Phenanthrene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Phenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	Pyrene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	bis(2-Chloroethoxy)methane	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	bis(2-Chloroethyl)ether	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-02-S2	580-130495-2	bis(2-Ethylhexyl)phthalate	N	Yes	U	UJ	HTQ
5801304951	NWTPH-DX	NA	B-03-S1	580-130495-7	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	U	UJ	HTQ
5801304951	NWTPH-DX	NA	B-03-S1	580-130495-7	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	U	UJ	HTQ
5801304951	NWTPH-GX	NA	B-03-S1	580-130495-7	Gasoline	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	1,1,1,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	1,1,1-Trichloroethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	1,1,2,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	1,1,2-Trichloroethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	1,1-Dichloroethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	1,1-Dichloroethene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	1,1-Dichloropropene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	1,2,3-Trichlorobenzene	N	Yes	0.078	0.078 J	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	1,2,3-Trichloropropane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	1,2,4-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	1,2-Dibromo-3-chloropropane (DBCP)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	1,2-Dibromoethane (Ethylene Dibromide)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	1,2-Dichloroethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	1,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	1,3,5-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	1,3-Dichloropropane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	2,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	2-Chlorotoluene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	2-Phenylbutane (sec-Butylbenzene)	N	Yes	0.0089 J	0.0089 J	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	4-Chlorotoluene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	Benzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	Bromobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	Bromodichloromethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	Bromoform	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	Bromomethane (Methyl Bromide)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	Carbon tetrachloride	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	Chlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	Chlorobromomethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	Chloroethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	Chloroform (Trichloromethane)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	Cymene (p-Isopropyltoluene)	N	Yes	0.011 J	0.011 J	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	Dibromochloromethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	Dibromomethane	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	Dichlorodifluoromethane (CFC-12)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	Ethylbenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	Isopropylbenzene (Cumene)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	Methyl Tert Butyl Ether (MTBE)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	Methylene chloride (Dichloromethane)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	Naphthalene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	Styrene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	Tetrachloroethene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	Toluene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	Trichloroethene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	Trichlorofluoromethane (CFC-11)	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	Vinyl chloride	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	cis-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	cis-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	m,p-Xylenes	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	n-Butylbenzene	N	Yes	0.02 J	0.02 J	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	n-Propylbenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	o-Xylene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	tert-Butylbenzene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	trans-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801304951	SW8260D	NA	B-03-S1	580-130495-7	trans-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	1-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	2,2'-oxybis(1-Chloropropane)	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	2,4,5-Trichlorophenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	2,4,6-Trichlorophenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	2,4-Dichlorophenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	2,4-Dimethylphenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	2,4-Dinitrophenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	2,4-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	2,6-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	2-Chloronaphthalene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	2-Chlorophenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	2-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	2-Methylphenol (o-Cresol)	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	2-Nitroaniline	N	Yes	U	UJ	HTQ

SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
5801304951	SW8270E	NA	B-03-S1	580-130495-7	2-Nitrophenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	3&4-Methylphenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	3,3'-Dichlorobenzidine	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	3-Nitroaniline	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	4,6-Dinitro-2-methylphenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	4-Bromophenyl phenyl ether (BDE-3)	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	4-Chloro-3-methylphenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	4-Chloroaniline	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	4-Chlorophenyl phenyl ether	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	4-Nitroaniline	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	4-Nitrophenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Acenaphthene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Acenaphthylene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Anthracene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Benzo(a)anthracene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Benzo(a)pyrene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Benzo(b)fluoranthene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Benzo(g,h,i)perylene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Benzo(k)fluoranthene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Benzoic acid	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Benzyl Alcohol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Butyl benzylphthalate (BBP)	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Carbazole	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Chrysene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Di-n-butylphthalate (DBP)	N	Yes	0.27 J	0.27 J-	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Di-n-octyl phthalate (DnOP)	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Dibenz(a,h)anthracene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Dibenzofuran	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Diethyl phthalate	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Dimethyl phthalate	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Fluoranthene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Fluorene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Hexachlorobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Hexachlorobutadiene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Hexachlorocyclopentadiene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Hexachloroethane	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Indeno(1,2,3-cd)pyrene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Isophorone	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	N-Nitrosodi-n-propylamine	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	N-Nitrosodiphenylamine	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Naphthalene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Nitrobenzene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Pentachlorophenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Phenanthrene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Phenol	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	Pyrene	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	bis(2-Chloroethoxy)methane	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	bis(2-Chloroethyl)ether	N	Yes	U	UJ	HTQ
5801304951	SW8270E	NA	B-03-S1	580-130495-7	bis(2-Ethylhexyl)phthalate	N	Yes	U	UJ	HTQ
5801304951	NWTPH-DX	NA	B-03-S2	580-130495-8	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	U	UJ	HTQ
5801304951	NWTPH-DX	NA	B-03-S2	580-130495-8	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	U	UJ	HTQ
5801304951	NWTPH-GX	NA	B-03-S2	580-130495-8	Gasoline	N	Yes	U	UJ	HTQ
5801305151	NWTPH-DX	NA	B-04-S1	580-130515-1	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	U	UJ	HTQ
5801305151	NWTPH-DX	NA	B-04-S1	580-130515-1	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	U	UJ	HTQ
5801305151	NWTPH-GX	NA	B-04-S1	580-130515-1	Gasoline	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	1,1,1,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	1,1,1-Trichloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	1,1,2,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	1,1,2-Trichloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	1,1-Dichloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	1,1-Dichloroethene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	1,1-Dichloropropene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	1,2,3-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	1,2,3-Trichloropropane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	1,2,4-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	1,2-Dibromo-3-chloropropane (DBCP)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	1,2-Dibromoethane (Ethylene Dibromide)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	1,2-Dichloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	1,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	1,3,5-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	1,3-Dichloropropane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	2,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	2-Chlorotoluene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	2-Phenylbutane (sec-Butylbenzene)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	4-Chlorotoluene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	Benzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	Bromobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	Bromodichloromethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	Bromoform	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	Bromomethane (Methyl Bromide)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	Carbon tetrachloride	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	Chlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	Chlorobromomethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	Chloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	Chloroform (Trichloromethane)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	Cymene (p-Isopropyltoluene)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	Dibromochloromethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	Dibromomethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	Dichlorodifluoromethane (CFC-12)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	Ethylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	Hexachlorobutadiene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	Isopropylbenzene (Cumene)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	Methyl Tert Butyl Ether (MTBE)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	Methylene chloride (Dichloromethane)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	Naphthalene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	Styrene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	Tetrachloroethene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	Toluene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	Trichloroethene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	Trichlorofluoromethane (CFC-11)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	Vinyl chloride	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	cis-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	cis-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	m,p-Xylenes	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	n-Butylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	n-Propylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	o-Xylene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	tert-Butylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	trans-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-04-S1	580-130515-1	trans-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	1-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	2,2'-oxybis(1-Chloropropane)	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	2,4-Dichlorophenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	2,4-Dimethylphenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	2,4-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	2,6-Dinitrotoluene	N	Yes	U	UJ	HTQ

SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
5801305151	SW8270E	NA	B-04-S1	580-130515-1	2-Chloronaphthalene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	2-Chlorophenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	2-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	2-Methylphenol (o-Cresol)	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	2-Nitroaniline	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	2-Nitrophenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	3&4-Methylphenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	3,3'-Dichlorobenzidine	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	3-Nitroaniline	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	4-Bromophenyl phenyl ether (BDE-3)	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	4-Chloro-3-methylphenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	4-Chloroaniline	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	4-Chlorophenyl phenyl ether	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	4-Nitroaniline	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Acenaphthene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Acenaphthylene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Anthracene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Benzo(a)anthracene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Benzo(a)pyrene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Benzo(b)fluoranthene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Benzo(g,h,i)perylene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Benzo(k)fluoranthene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Benzoic acid	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Benzyl Alcohol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Butyl benzylphthalate (BBP)	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Carbazole	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Chrysene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Di-n-butylphthalate (DBP)	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Di-n-octyl phthalate (DnOP)	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Dibenz(a,h)anthracene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Dibenzofuran	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Diethyl phthalate	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Dimethyl phthalate	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Fluoranthene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Fluorene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Hexachlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Hexachlorobutadiene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Hexachlorocyclopentadiene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Hexachloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Indeno(1,2,3-cd)pyrene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Isophorone	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	N-Nitrosodi-n-propylamine	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	N-Nitrosodiphenylamine	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Naphthalene	N	Yes	0.0058 J	0.0058 J-	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Nitrobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Phenanthrene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Phenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Pyrene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	bis(2-Chloroethoxy)methane	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	bis(2-Chloroethyl)ether	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-04-S1	580-130515-1	bis(2-Ethylhexyl)phthalate	N	Yes	0.25 J	0.25 J-	HTQ
5801305151	NWTPH-DX	NA	B-04-S2	580-130515-2	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	U	UJ	HTQ
5801305151	NWTPH-DX	NA	B-04-S2	580-130515-2	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	U	UJ	HTQ
5801305151	NWTPH-GX	NA	B-04-S2	580-130515-2	Gasoline	N	Yes	U	UJ	HTQ
5801304931	NWTPH-DX	NA	B-05-S1	580-130493-10	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	U	UJ	HTQ
5801304931	NWTPH-GX	NA	B-05-S1	580-130493-10	Gasoline	N	Yes	1.2 J	1.2 J	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	1,1,1,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	1,1,1-Trichloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	1,1,2,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	1,1,2-Trichloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	1,1-Dichloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	1,1-Dichloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	1,1-Dichloropropene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	1,2,3-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	1,2,3-Trichloropropane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	1,2,4-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	1,2-Dibromo-3-chloropropane (DBCP)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	1,2-Dibromoethane (Ethylene Dibromide)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	1,2-Dichloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	1,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	1,3,5-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	1,3-Dichloropropane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	2,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	2-Chlorotoluene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	2-Phenylbutane (sec-Butylbenzene)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	4-Chlorotoluene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	Benzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	Bromobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	Bromodichloromethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	Bromoform	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	Bromomethane (Methyl Bromide)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	Carbon tetrachloride	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	Chlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	Chlorobromomethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	Chloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	Chloroform (Trichloromethane)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	Cymene (p-Isopropyltoluene)	N	Yes	0.033 J	0.033 J	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	Dibromochloromethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	Dibromomethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	Dichlorodifluoromethane (CFC-12)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	Ethylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	Isopropylbenzene (Cumene)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	Methyl Tert Butyl Ether (MTBE)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	Methylene chloride (Dichloromethane)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	Naphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	Styrene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	Tetrachloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	Toluene	N	Yes	0.15	0.15 J	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	Trichloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	Trichlorofluoromethane (CFC-11)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	Vinyl chloride	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	cis-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	cis-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	m,p-Xylenes	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	n-Butylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	n-Propylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	o-Xylene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	tert-Butylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	trans-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S1	580-130493-10	trans-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	1-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	2,2'-oxybis(1-Chloropropane)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	2,4,5-Trichlorophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	2,4,6-Trichlorophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	2,4-Dichlorophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	2,4-Dimethylphenol	N	Yes	U	UJ	HTQ

SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
5801304931	SW8270E	NA	B-05-S1	580-130493-10	2,4-Dinitrophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	2,4-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	2,6-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	2-Chloronaphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	2-Chlorophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	2-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	2-Methylphenol (o-Cresol)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	2-Nitroaniline	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	2-Nitrophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	3&4-Methylphenol	N	Yes	0.092 J	0.092 J-	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	3,3'-Dichlorobenzidine	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	3-Nitroaniline	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	4,6-Dinitro-2-methylphenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	4-Bromophenyl phenyl ether (BDE-3)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	4-Chloro-3-methylphenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	4-Chloroaniline	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	4-Chlorophenyl phenyl ether	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	4-Nitroaniline	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	4-Nitrophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Acenaphthene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Acenaphthylene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Anthracene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Benzo(a)anthracene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Benzo(a)pyrene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Benzo(b)fluoranthene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Benzo(g,h,i)perylene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Benzo(k)fluoranthene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Benzoic acid	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Benzyl Alcohol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Butyl benzylphthalate (BBP)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Carbazole	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Chrysene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Di-n-butylphthalate (DBP)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Di-n-octyl phthalate (DnOP)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Dibenz(a,h)anthracene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Dibenzofuran	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Dimethyl phthalate	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Fluoranthene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Fluorene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Hexachlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Hexachlorobutadiene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Hexachlorocyclopentadiene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Hexachloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Indeno(1,2,3-cd)pyrene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Isophorone	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	N-Nitrosodi-n-propylamine	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	N-Nitrosodiphenylamine	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Naphthalene	N	Yes	0.0074 J	0.0074 J-	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Nitrobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Pentachlorophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Phenanthrene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Phenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Pyrene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	bis(2-Chloroethoxy)methane	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	bis(2-Chloroethyl)ether	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S1	580-130493-10	bis(2-Ethylhexyl)phthalate	N	Yes	U	UJ	HTQ
5801304931	NWTPH-DX	NA	B-05-S2	580-130493-11	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	17 J	17 J-	HTQ
5801304931	NWTPH-DX	NA	B-05-S2	580-130493-11	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	25 J	25 J-	HTQ
5801304931	NWTPH-GX	NA	B-05-S2	580-130493-11	Gasoline	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	1,1,1,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	1,1,1-Trichloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	1,1,2,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	1,1,2-Trichloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	1,1-Dichloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	1,1-Dichloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	1,1-Dichloropropene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	1,2,3-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	1,2,3-Trichloropropane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	1,2,4-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	1,2-Dibromo-3-chloropropane (DBCP)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	1,2-Dibromoethane (Ethylene Dibromide)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	1,2-Dichloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	1,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	1,3,5-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	1,3-Dichloropropane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	2,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	2-Chlorotoluene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	2-Phenylbutane (sec-Butylbenzene)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	4-Chlorotoluene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	Benzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	Bromobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	Bromodichloromethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	Bromoform	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	Bromomethane (Methyl Bromide)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	Carbon tetrachloride	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	Chlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	Chlorobromomethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	Chloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	Chloroform (Trichloromethane)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	Cymene (p-Isopropyltoluene)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	Dibromochloromethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	Dibromomethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	Dichlorodifluoromethane (CFC-12)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	Ethylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	Isopropylbenzene (Cumene)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	Methyl Tert Butyl Ether (MTBE)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	Methylene chloride (Dichloromethane)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	Naphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	Styrene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	Tetrachloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	Toluene	N	Yes	0.036 J	0.036 J	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	Trichloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	Trichlorofluoromethane (CFC-11)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	Vinyl chloride	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	cis-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	cis-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	m,p-Xylenes	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	n-Butylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	n-Propylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	o-Xylene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	tert-Butylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	trans-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S2	580-130493-11	trans-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	1-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	2,2'-oxybis(1-Chloropropane)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	2,4,5-Trichlorophenol	N	Yes	U	UJ	HTQ

SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
5801304931	SW8270E	NA	B-05-S2	580-130493-11	2,4,6-Trichlorophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	2,4-Dichlorophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	2,4-Dimethylphenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	2,4-Dinitrophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	2,4-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	2,6-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	2-Chloronaphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	2-Chlorophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	2-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	2-Methylphenol (o-Cresol)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	2-Nitroaniline	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	2-Nitrophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	3&4-Methylphenol	N	Yes	0.045 J	0.045 J-	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	3,3'-Dichlorobenzidine	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	3-Nitroaniline	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	4,6-Dinitro-2-methylphenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	4-Bromophenyl phenyl ether (BDE-3)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	4-Chloro-3-methylphenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	4-Chloroaniline	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	4-Chlorophenyl phenyl ether	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	4-Nitroaniline	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	4-Nitrophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Acenaphthene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Acenaphthylene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Anthracene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Benzo(a)anthracene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Benzo(a)pyrene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Benzo(b)fluoranthene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Benzo(g,h,i)perylene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Benzo(k)fluoranthene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Benzoic acid	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Benzyl Alcohol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Butyl benzylphthalate (BBP)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Carbazole	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Chrysene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Di-n-butylphthalate (DBP)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Di-n-octyl phthalate (DnOP)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Dibenz(a,h)anthracene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Dibenzofuran	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Dimethyl phthalate	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Fluoranthene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Fluorene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Hexachlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Hexachlorobutadiene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Hexachlorocyclopentadiene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Hexachloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Indeno(1,2,3-cd)pyrene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Isophorone	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	N-Nitrosodi-n-propylamine	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	N-Nitrosodiphenylamine	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Naphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Nitrobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Pentachlorophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Phenanthrene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Phenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Pyrene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	bis(2-Chloroethoxy)methane	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	bis(2-Chloroethyl)ether	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S2	580-130493-11	bis(2-Ethylhexyl)phthalate	N	Yes	U	UJ	HTQ
5801304931	NWTPH-DX	NA	B-05-S3	580-130493-12	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	U	UJ	HTQ
5801304931	NWTPH-DX	NA	B-05-S3	580-130493-12	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	U	UJ	HTQ
5801304931	NWTPH-GX	NA	B-05-S3	580-130493-12	Gasoline	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	1,1,1,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	1,1,1-Trichloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	1,1,2,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	1,1,2-Trichloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	1,1-Dichloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	1,1-Dichloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	1,1-Dichloropropene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	1,2,3-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	1,2,3-Trichloropropane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	1,2,4-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	1,2-Dibromo-3-chloropropane (DBCP)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	1,2-Dibromoethane (Ethylene Dibromide)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	1,2-Dichloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	1,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	1,3,5-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	1,3-Dichloropropane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	2,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	2-Chlorotoluene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	2-Phenylbutane (sec-Butylbenzene)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	4-Chlorotoluene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	Benzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	Bromobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	Bromodichloromethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	Bromoform	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	Bromomethane (Methyl Bromide)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	Carbon tetrachloride	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	Chlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	Chlorobromomethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	Chloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	Chloroform (Trichloromethane)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	Cymene (p-Isopropyltoluene)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	Dibromochloromethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	Dibromomethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	Dichlorodifluoromethane (CFC-12)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	Ethylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	Isopropylbenzene (Cumene)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	Methyl Tert Butyl Ether (MTBE)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	Methylene chloride (Dichloromethane)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	Naphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	Styrene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	Tetrachloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	Toluene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	Trichloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	Trichlorofluoromethane (CFC-11)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	Vinyl chloride	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	cis-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	cis-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	m,p-Xylenes	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	n-Butylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	n-Propylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	o-Xylene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	tert-Butylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	trans-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-05-S3	580-130493-12	trans-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ

SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
5801304931	SW8270E	NA	B-05-S3	580-130493-12	1-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	2,2'-oxybis(1-Chloropropane)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	2,4-Dichlorophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	2,4-Dimethylphenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	2,4-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	2,6-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	2-Chloronaphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	2-Chlorophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	2-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	2-Methylphenol (o-Cresol)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	2-Nitroaniline	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	2-Nitrophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	3&4-Methylphenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	3,3'-Dichlorobenzidine	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	3-Nitroaniline	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	4-Bromophenyl phenyl ether (BDE-3)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	4-Chloro-3-methylphenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	4-Chloroaniline	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	4-Chlorophenyl phenyl ether	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	4-Nitroaniline	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Acenaphthene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Acenaphthylene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Anthracene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Benzo(a)anthracene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Benzo(a)pyrene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Benzo(b)fluoranthene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Benzo(g,h,i)perylene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Benzo(k)fluoranthene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Benzoic acid	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Benzyl Alcohol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Butyl benzylphthalate (BBP)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Carbazole	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Chrysene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Di-n-butylphthalate (DBP)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Di-n-octyl phthalate (DnOP)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Dibenz(a,h)anthracene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Dibenzofuran	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Diethyl phthalate	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Dimethyl phthalate	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Fluoranthene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Fluorene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Hexachlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Hexachlorobutadiene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Hexachlorocyclopentadiene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Hexachloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Indeno(1,2,3-cd)pyrene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Isophorone	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	N-Nitrosodi-n-propylamine	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	N-Nitrosodiphenylamine	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Naphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Nitrobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Phenanthrene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Phenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Pyrene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	bis(2-Chloroethoxy)methane	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	bis(2-Chloroethyl)ether	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-05-S3	580-130493-12	bis(2-Ethylhexyl)phthalate	N	Yes	U	UJ	HTQ
5801304931	NWTPH-DX	NA	B-06-S1	580-130493-3	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	U	UJ	HTQ
5801304931	NWTPH-DX	NA	B-06-S1	580-130493-3	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	U	UJ	HTQ
5801304931	NWTPH-GX	NA	B-06-S1	580-130493-3	Gasoline	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	1,1,1,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	1,1,1-Trichloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	1,1,2,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	1,1,2-Trichloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	1,1-Dichloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	1,1-Dichloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	1,1-Dichloropropene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	1,2,3-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	1,2,3-Trichloropropane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	1,2,4-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	1,2-Dibromo-3-chloropropane (DBCP)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	1,2-Dibromoethane (Ethylene Dibromide)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	1,2-Dichloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	1,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	1,3,5-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	1,3-Dichloropropane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	2,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	2-Chlorotoluene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	2-Phenylbutane (sec-Butylbenzene)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	4-Chlorotoluene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	Benzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	Bromobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	Bromodichloromethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	Bromoform	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	Bromomethane (Methyl Bromide)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	Carbon tetrachloride	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	Chlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	Chlorobromomethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	Chloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	Chloroform (Trichloromethane)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	Cymene (p-Isopropyltoluene)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	Dibromochloromethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	Dibromomethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	Dichlorodifluoromethane (CFC-12)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	Ethylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	Isopropylbenzene (Cumene)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	Methyl Tert Butyl Ether (MTBE)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	Methylene chloride (Dichloromethane)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	Naphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	Styrene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	Tetrachloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	Toluene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	Trichloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	Trichlorofluoromethane (CFC-11)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	Vinyl chloride	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	cis-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	cis-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	m,p-Xylenes	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	n-Butylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	n-Propylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	o-Xylene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	tert-Butylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	trans-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S1	580-130493-3	trans-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	1-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	2,2'-oxybis(1-Chloropropane)	N	Yes	U	UJ	HTQ

SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
5801304931	SW8270E	NA	B-06-S1	580-130493-3	2,4-Dichlorophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	2,4-Dimethylphenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	2,4-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	2,6-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	2-Chloronaphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	2-Chlorophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	2-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	2-Methylphenol (o-Cresol)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	2-Nitroaniline	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	2-Nitrophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	3&4-Methylphenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	3,3'-Dichlorobenzidine	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	3-Nitroaniline	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	4-Bromophenyl phenyl ether (BDE-3)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	4-Chloro-3-methylphenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	4-Chloroaniline	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	4-Chlorophenyl phenyl ether	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	4-Nitroaniline	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Acenaphthene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Acenaphthylene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Anthracene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Benzo(a)anthracene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Benzo(a)pyrene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Benzo(b)fluoranthene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Benzo(g,h,i)perylene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Benzo(k)fluoranthene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Benzoic acid	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Benzyl Alcohol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Butyl benzylphthalate (BBP)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Carbazole	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Chrysene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Di-n-butylphthalate (DBP)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Di-n-octyl phthalate (DnOP)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Dibenz(a,h)anthracene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Dibenzofuran	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Dimethyl phthalate	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Fluoranthene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Fluorene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Hexachlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Hexachlorobutadiene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Hexachlorocyclopentadiene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Hexachloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Indeno(1,2,3-cd)pyrene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Isophorone	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	N-Nitrosodi-n-propylamine	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	N-Nitrosodiphenylamine	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Naphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Nitrobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Phenanthrene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Phenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Pyrene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	bis(2-Chloroethoxy)methane	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	bis(2-Chloroethyl)ether	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S1	580-130493-3	bis(2-Ethylhexyl)phthalate	N	Yes	U	UJ	HTQ
5801304931	NWTPH-DX	NA	B-06-S2	580-130493-4	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	U	UJ	HTQ
5801304931	NWTPH-DX	NA	B-06-S2	580-130493-4	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	U	UJ	HTQ
5801304931	NWTPH-GX	NA	B-06-S2	580-130493-4	Gasoline	N	Yes	U	UJ	HTQ
5801304931	NWTPH-DX	NA	B-06-S4	580-130493-6	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	U	UJ	HTQ
5801304931	NWTPH-DX	NA	B-06-S4	580-130493-6	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	U	UJ	HTQ
5801304931	NWTPH-GX	NA	B-06-S4	580-130493-6	Gasoline	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	1,1,1,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	1,1,1-Trichloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	1,1,2,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	1,1,2-Trichloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	1,1-Dichloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	1,1-Dichloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	1,1-Dichloropropene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	1,2,3-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	1,2,3-Trichloropropane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	1,2,4-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	1,2-Dibromo-3-chloropropane (DBCP)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	1,2-Dibromoethane (Ethylene Dibromide)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	1,2-Dichloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	1,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	1,3,5-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	1,3-Dichloropropane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	2,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	2-Chlorotoluene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	2-Phenylbutane (sec-Butylbenzene)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	4-Chlorotoluene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	Benzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	Bromobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	Bromodichloromethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	Bromoform	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	Bromomethane (Methyl Bromide)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	Carbon tetrachloride	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	Chlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	Chlorobromomethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	Chloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	Chloroform (Trichloromethane)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	Cymene (p-Isopropyltoluene)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	Dibromochloromethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	Dibromomethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	Dichlorodifluoromethane (CFC-12)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	Ethylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	Isopropylbenzene (Cumene)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	Methyl Tert Butyl Ether (MTBE)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	Methylene chloride (Dichloromethane)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	Naphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	Styrene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	Tetrachloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	Toluene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	Trichloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	Trichlorofluoromethane (CFC-11)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	Vinyl chloride	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	cis-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	cis-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	m,p-Xylenes	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	n-Butylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	n-Propylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	o-Xylene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	tert-Butylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	trans-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	B-06-S4	580-130493-6	trans-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	1-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	2,2'-oxybis(1-Chloropropane)	N	Yes	U	UJ	HTQ

SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
5801304931	SW8270E	NA	B-06-S4	580-130493-6	2,4-Dichlorophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	2,4-Dimethylphenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	2,4-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	2,6-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	2-Chloronaphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	2-Chlorophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	2-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	2-Methylphenol (o-Cresol)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	2-Nitroaniline	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	2-Nitrophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	3&4-Methylphenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	3,3'-Dichlorobenzidine	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	3-Nitroaniline	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	4-Bromophenyl phenyl ether (BDE-3)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	4-Chloro-3-methylphenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	4-Chloroaniline	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	4-Chlorophenyl phenyl ether	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	4-Nitroaniline	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Acenaphthene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Acenaphthylene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Anthracene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Benzo(a)anthracene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Benzo(a)pyrene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Benzo(b)fluoranthene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Benzo(g,h,i)perylene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Benzo(k)fluoranthene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Benzoic acid	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Benzyl Alcohol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Butyl benzylphthalate (BBP)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Carbazole	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Chrysene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Di-n-butylphthalate (DBP)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Di-n-octyl phthalate (DnOP)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Dibenz(a,h)anthracene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Dibenzofuran	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Dimethyl phthalate	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Fluoranthene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Fluorene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Hexachlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Hexachlorobutadiene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Hexachlorocyclopentadiene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Hexachloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Indeno(1,2,3-cd)pyrene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Isophorone	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	N-Nitrosodi-n-propylamine	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	N-Nitrosodiphenylamine	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Naphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Nitrobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Phenanthrene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Phenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Pyrene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	bis(2-Chloroethoxy)methane	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	bis(2-Chloroethyl)ether	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	B-06-S4	580-130493-6	bis(2-Ethylhexyl)phthalate	N	Yes	U	UJ	HTQ
5801305241	NWTPH-DX	NA	B-07-S1	580-130524-8	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	4400	4400 J-	HTQ
5801305241	NWTPH-DX	NA	B-07-S1	580-130524-8	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	4700	4700 J-	HTQ
5801305241	NWTPH-GX	NA	B-07-S1	580-130524-8	Gasoline	N	Yes	29	29 J	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	1,1,1,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	1,1,1-Trichloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	1,1,2,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	1,1,2-Trichloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	1,1-Dichloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	1,1-Dichloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	1,1-Dichloropropene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	1,2,3-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	1,2,3-Trichloropropane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	1,2,4-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	1,2-Dibromo-3-chloropropane (DBCP)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	1,2-Dibromoethane (Ethylene Dibromide)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	1,2-Dichloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	1,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	1,3,5-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	1,3-Dichloropropane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	2,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	2-Chlorotoluene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	2-Phenylbutane (sec-Butylbenzene)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	4-Chlorotoluene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	Benzene	N	Yes	0.094 J	0.094 J	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	Bromobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	Bromodichloromethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	Bromoform	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	Bromomethane (Methyl Bromide)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	Carbon tetrachloride	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	Chlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	Chlorobromomethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	Chloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	Chloroform (Trichloromethane)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	Cymene (p-Isopropyltoluene)	N	Yes	1.4	1.4 J	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	Dibromochloromethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	Dibromomethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	Dichlorodifluoromethane (CFC-12)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	Ethylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	Hexachlorobutadiene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	Isopropylbenzene (Cumene)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	Methyl Tert Butyl Ether (MTBE)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	Methylene chloride (Dichloromethane)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	Naphthalene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	Styrene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	Tetrachloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	Toluene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	Trichloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	Trichlorofluoromethane (CFC-11)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	Vinyl chloride	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	cis-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	cis-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	m,p-Xylenes	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	n-Butylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	n-Propylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	o-Xylene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	tert-Butylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	trans-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S1	580-130524-8	trans-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801305241	NWTPH-DX	NA	B-07-S2	580-130524-9	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	37 J	37 J-	HTQ
5801305241	NWTPH-DX	NA	B-07-S2	580-130524-9	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	41 J	41 J-	HTQ
5801305241	NWTPH-GX	NA	B-07-S2	580-130524-9	Gasoline	N	Yes	2.5 J	2.5 J	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	1,1,1,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	1,1,1-Trichloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	1,1,2,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	1,1,2-Trichloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	1,1-Dichloroethane	N	Yes	U	UJ	HTQ

SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
5801305241	SW8260D	NA	B-07-S2	580-130524-9	1,1-Dichloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	1,1-Dichloropropene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	1,2,3-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	1,2,3-Trichloropropane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	1,2,4-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	1,2-Dibromo-3-chloropropane (DBCP)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	1,2-Dibromoethane (Ethylene Dibromide)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	1,2-Dichloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	1,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	1,3,5-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	1,3-Dichloropropane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	2,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	2-Chlorotoluene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	2-Phenylbutane (sec-Butylbenzene)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	4-Chlorotoluene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	Benzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	Bromobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	Bromodichloromethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	Bromoform	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	Bromomethane (Methyl Bromide)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	Carbon tetrachloride	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	Chlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	Chlorobromomethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	Chloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	Chloroform (Trichloromethane)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	Cymene (p-Isopropyltoluene)	N	Yes	0.037 J	0.037 J	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	Dibromochloromethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	Dibromomethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	Dichlorodifluoromethane (CFC-12)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	Ethylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	Hexachlorobutadiene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	Isopropylbenzene (Cumene)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	Methyl Tert Butyl Ether (MTBE)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	Methylene chloride (Dichloromethane)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	Naphthalene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	Styrene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	Tetrachloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	Toluene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	Trichloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	Trichlorofluoromethane (CFC-11)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	Vinyl chloride	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	cis-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	cis-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	m,p-Xylenes	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	n-Butylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	n-Propylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	o-Xylene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	tert-Butylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	trans-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-07-S2	580-130524-9	trans-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801305241	NWTPH-DX	NA	B-08-S1	580-130524-1	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	U	UJ	HTQ
5801305241	NWTPH-DX	NA	B-08-S1	580-130524-1	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	U	UJ	HTQ
5801305241	NWTPH-GX	NA	B-08-S1	580-130524-1	Gasoline	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	1,1,1,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	1,1,1-Trichloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	1,1,2,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	1,1,2-Trichloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	1,1-Dichloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	1,1-Dichloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	1,1-Dichloropropene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	1,2,3-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	1,2,3-Trichloropropane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	1,2,4-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	1,2-Dibromo-3-chloropropane (DBCP)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	1,2-Dibromoethane (Ethylene Dibromide)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	1,2-Dichloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	1,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	1,3,5-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	1,3-Dichloropropane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	2,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	2-Chlorotoluene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	2-Phenylbutane (sec-Butylbenzene)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	4-Chlorotoluene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	Benzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	Bromobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	Bromodichloromethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	Bromoform	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	Bromomethane (Methyl Bromide)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	Carbon tetrachloride	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	Chlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	Chlorobromomethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	Chloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	Chloroform (Trichloromethane)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	Cymene (p-Isopropyltoluene)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	Dibromochloromethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	Dibromomethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	Dichlorodifluoromethane (CFC-12)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	Ethylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	Hexachlorobutadiene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	Isopropylbenzene (Cumene)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	Methyl Tert Butyl Ether (MTBE)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	Methylene chloride (Dichloromethane)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	Naphthalene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	Styrene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	Tetrachloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	Toluene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	Trichloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	Trichlorofluoromethane (CFC-11)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	Vinyl chloride	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	cis-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	cis-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	m,p-Xylenes	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	n-Butylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	n-Propylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	o-Xylene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	tert-Butylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	trans-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-08-S1	580-130524-1	trans-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801305241	NWTPH-DX	NA	B-08-S2	580-130524-2	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	U	UJ	HTQ
5801305241	NWTPH-DX	NA	B-08-S2	580-130524-2	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	U	UJ	HTQ
5801305241	NWTPH-GX	NA	B-08-S2	580-130524-2	Gasoline	N	Yes	U	UJ	HTQ
5801305151	NWTPH-DX	NA	B-09-S1	580-130515-13	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	U	UJ	HTQ
5801305151	NWTPH-DX	NA	B-09-S1	580-130515-13	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	U	UJ	HTQ
5801305151	NWTPH-GX	NA	B-09-S1	580-130515-13	Gasoline	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	1,1,1,2-Tetrachloroethane	N	Yes	U	UJ	HTQ

SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
5801305151	SW8260D	NA	B-09-S1	580-130515-13	1,1,1-Trichloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	1,1,2,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	1,1,2-Trichloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	1,1-Dichloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	1,1-Dichloroethene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	1,1-Dichloropropene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	1,2,3-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	1,2,3-Trichloropropane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	1,2,4-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	1,2-Dibromo-3-chloropropane (DBCP)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	1,2-Dibromoethane (Ethylene Dibromide)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	1,2-Dichloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	1,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	1,3,5-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	1,3-Dichloropropane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	2,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	2-Chlorotoluene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	2-Phenylbutane (sec-Butylbenzene)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	4-Chlorotoluene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	Benzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	Bromobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	Bromodichloromethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	Bromoform	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	Bromomethane (Methyl Bromide)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	Carbon tetrachloride	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	Chlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	Chlorobromomethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	Chloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	Chloroform (Trichloromethane)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	Cymene (p-Isopropyltoluene)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	Dibromochloromethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	Dibromomethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	Dichlorodifluoromethane (CFC-12)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	Ethylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	Hexachlorobutadiene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	Isopropylbenzene (Cumene)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	Methyl Tert Butyl Ether (MTBE)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	Methylene chloride (Dichloromethane)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	Naphthalene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	Styrene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	Tetrachloroethene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	Toluene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	Trichloroethene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	Trichlorofluoromethane (CFC-11)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	Vinyl chloride	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	cis-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	cis-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	m,p-Xylenes	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	n-Butylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	n-Propylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	o-Xylene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	tert-Butylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	trans-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	B-09-S1	580-130515-13	trans-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	1-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	2,2'-oxybis(1-Chloropropane)	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	2,4-Dichlorophenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	2,4-Dimethylphenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	2,4-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	2,6-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	2-Chloronaphthalene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	2-Chlorophenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	2-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	2-Methylphenol (o-Cresol)	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	2-Nitroaniline	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	2-Nitrophenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	3&4-Methylphenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	3,3'-Dichlorobenzidine	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	3-Nitroaniline	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	4-Bromophenyl phenyl ether (BDE-3)	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	4-Chloro-3-methylphenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	4-Chloroaniline	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	4-Chlorophenyl phenyl ether	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	4-Nitroaniline	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Acenaphthene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Acenaphthylene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Anthracene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Benzo(a)anthracene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Benzo(a)pyrene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Benzo(b)fluoranthene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Benzo(g,h,i)perylene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Benzo(k)fluoranthene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Benzoic acid	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Benzyl Alcohol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Butyl benzylphthalate (BBP)	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Carbazole	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Chrysene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Di-n-butylphthalate (DBP)	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Di-n-octyl phthalate (DnOP)	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Dibenz(a,h)anthracene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Dibenzofuran	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Diethyl phthalate	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Dimethyl phthalate	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Fluoranthene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Fluorene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Hexachlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Hexachlorobutadiene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Hexachlorocyclopentadiene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Hexachloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Indeno(1,2,3-cd)pyrene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Isophorone	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	N-Nitrosodi-n-propylamine	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	N-Nitrosodiphenylamine	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Naphthalene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Nitrobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Phenanthrene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Phenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Pyrene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	bis(2-Chloroethoxy)methane	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	bis(2-Chloroethyl)ether	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	B-09-S1	580-130515-13	bis(2-Ethylhexyl)phthalate	N	Yes	U	UJ	HTQ
5801305151	NWTPH-DX	NA	B-09-S2	580-130515-14	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	U	UJ	HTQ
5801305151	NWTPH-DX	NA	B-09-S2	580-130515-14	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	U	UJ	HTQ
5801305151	NWTPH-GX	NA	B-09-S2	580-130515-14	Gasoline	N	Yes	U	UJ	HTQ
5801305241	NWTPH-DX	NA	B-10-S1	580-130524-24	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	U	UJ	HTQ
5801305241	NWTPH-DX	NA	B-10-S1	580-130524-24	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	U	UJ	HTQ

SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
5801305241	NWTPH-GX	NA	B-10-S1	580-130524-24	Gasoline	N	Yes	0.59 J	0.59 J	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	1,1,1,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	1,1,1-Trichloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	1,1,2,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	1,1,2-Trichloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	1,1-Dichloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	1,1-Dichloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	1,1-Dichloropropene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	1,2,3-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	1,2,3-Trichloropropane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	1,2,4-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	1,2-Dibromo-3-chloropropane (DBCP)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	1,2-Dibromoethane (Ethylene Dibromide)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	1,2-Dichloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	1,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	1,3,5-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	1,3-Dichloropropane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	2,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	2-Chlorotoluene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	2-Phenylbutane (sec-Butylbenzene)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	4-Chlorotoluene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	Benzene	N	Yes	0.0061 J	0.0061 J	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	Bromobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	Bromodichloromethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	Bromoform	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	Bromomethane (Methyl Bromide)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	Carbon tetrachloride	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	Chlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	Chlorobromomethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	Chloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	Chloroform (Trichloromethane)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	Cymene (p-Isopropyltoluene)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	Dibromochloromethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	Dibromomethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	Dichlorodifluoromethane (CFC-12)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	Ethylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	Hexachlorobutadiene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	Isopropylbenzene (Cumene)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	Methyl Tert Butyl Ether (MTBE)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	Methylene chloride (Dichloromethane)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	Naphthalene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	Styrene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	Tetrachloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	Toluene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	Trichloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	Trichlorofluoromethane (CFC-11)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	Vinyl chloride	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	cis-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	cis-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	m,p-Xylenes	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	n-Butylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	n-Propylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	o-Xylene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	tert-Butylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	trans-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S1	580-130524-24	trans-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	1-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	2,2'-oxybis(1-Chloropropane)	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	2,4,5-Trichlorophenol	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	2,4,6-Trichlorophenol	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	2,4-Dichlorophenol	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	2,4-Dimethylphenol	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	2,4-Dinitrophenol	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	2,4-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	2,6-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	2-Chloronaphthalene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	2-Chlorophenol	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	2-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	2-Methylphenol (o-Cresol)	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	2-Nitroaniline	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	2-Nitrophenol	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	3&4-Methylphenol	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	3,3'-Dichlorobenzidine	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	3-Nitroaniline	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	4,6-Dinitro-2-methylphenol	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	4-Bromophenyl phenyl ether (BDE-3)	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	4-Chloro-3-methylphenol	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	4-Chloroaniline	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	4-Chlorophenyl phenyl ether	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	4-Nitroaniline	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	4-Nitrophenol	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Acenaphthene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Acenaphthylene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Anthracene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Benzo(a)anthracene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Benzo(a)pyrene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Benzo(b)fluoranthene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Benzo(g,h,i)perylene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Benzo(k)fluoranthene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Benzoic acid	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Benzyl Alcohol	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Butyl benzylphthalate (BBP)	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Carbazole	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Chrysene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Di-n-butylphthalate (DBP)	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Di-n-octyl phthalate (DnOP)	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Dibenz(a,h)anthracene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Dibenzofuran	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Diethyl phthalate	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Dimethyl phthalate	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Fluoranthene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Fluorene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Hexachlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Hexachlorobutadiene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Hexachlorocyclopentadiene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Hexachloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Indeno(1,2,3-cd)pyrene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Isophorone	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	N-Nitrosodi-n-propylamine	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	N-Nitrosodiphenylamine	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Naphthalene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Nitrobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Pentachlorophenol	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Phenanthrene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Phenol	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	Pyrene	N	Yes	U	UJ	HTQ

SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
5801305241	SW8270E	NA	B-10-S1	580-130524-24	bis(2-Chloroethoxy)methane	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	bis(2-Chloroethyl)ether	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S1	580-130524-24	bis(2-Ethylhexyl)phthalate	N	Yes	0.22 J	0.22 J-	HTQ
5801305241	NWTPH-DX	NA	B-10-S2	580-130524-25	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	U	UJ	HTQ
5801305241	NWTPH-DX	NA	B-10-S2	580-130524-25	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	U	UJ	HTQ
5801305241	NWTPH-GX	NA	B-10-S2	580-130524-25	Gasoline	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	1,1,1,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	1,1,1-Trichloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	1,1,2,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	1,1,2-Trichloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	1,1-Dichloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	1,1-Dichloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	1,1-Dichloropropene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	1,2,3-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	1,2,3-Trichloropropane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	1,2,4-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	1,2-Dibromo-3-chloropropane (DBCP)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	1,2-Dibromoethane (Ethylene Dibromide)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	1,2-Dichloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	1,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	1,3,5-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	1,3-Dichloropropane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	2,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	2-Chlorotoluene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	2-Phenylbutane (sec-Butylbenzene)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	4-Chlorotoluene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	Benzene	N	Yes	0.005 J	0.005 J	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	Bromobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	Bromodichloromethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	Bromoform	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	Bromomethane (Methyl Bromide)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	Carbon tetrachloride	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	Chlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	Chlorobromomethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	Chloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	Chloroform (Trichloromethane)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	Cymene (p-Isopropyltoluene)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	Dibromochloromethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	Dibromomethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	Dichlorodifluoromethane (CFC-12)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	Ethylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	Hexachlorobutadiene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	Isopropylbenzene (Cumene)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	Methyl Tert Butyl Ether (MTBE)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	Methylene chloride (Dichloromethane)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	Naphthalene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	Styrene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	Tetrachloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	Toluene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	Trichloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	Trichlorofluoromethane (CFC-11)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	Vinyl chloride	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	cis-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	cis-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	m,p-Xylenes	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	n-Butylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	n-Propylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	o-Xylene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	tert-Butylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	trans-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-10-S2	580-130524-25	trans-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	1-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	2,2'-oxybis(1-Chloropropane)	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	2,4,5-Trichlorophenol	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	2,4,6-Trichlorophenol	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	2,4-Dichlorophenol	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	2,4-Dimethylphenol	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	2,4-Dinitrophenol	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	2,4-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	2,6-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	2-Chloronaphthalene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	2-Chlorophenol	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	2-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	2-Methylphenol (o-Cresol)	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	2-Nitroaniline	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	2-Nitrophenol	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	3&4-Methylphenol	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	3,3'-Dichlorobenzidine	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	3-Nitroaniline	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	4,6-Dinitro-2-methylphenol	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	4-Bromophenyl phenyl ether (BDE-3)	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	4-Chloro-3-methylphenol	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	4-Chloroaniline	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	4-Chlorophenyl phenyl ether	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	4-Nitroaniline	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	4-Nitrophenol	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Acenaphthene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Acenaphthylene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Anthracene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Benzo(a)anthracene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Benzo(a)pyrene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Benzo(b)fluoranthene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Benzo(g,h,i)perylene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Benzo(k)fluoranthene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Benzoic acid	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Benzyl Alcohol	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Butyl benzylphthalate (BBP)	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Carbazole	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Chrysene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Di-n-butylphthalate (DBP)	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Di-n-octyl phthalate (DnOP)	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Dibenz(a,h)anthracene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Dibenzofuran	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Diethyl phthalate	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Dimethyl phthalate	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Fluoranthene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Fluorene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Hexachlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Hexachlorobutadiene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Hexachlorocyclopentadiene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Hexachloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Indeno(1,2,3-cd)pyrene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Isophorone	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	N-Nitrosodi-n-propylamine	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	N-Nitrosodiphenylamine	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Naphthalene	N	Yes	U	UJ	HTQ

SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Nitrobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Pentachlorophenol	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Phenanthrene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Phenol	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	Pyrene	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	bis(2-Chloroethoxy)methane	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	bis(2-Chloroethyl)ether	N	Yes	U	UJ	HTQ
5801305241	SW8270E	NA	B-10-S2	580-130524-25	bis(2-Ethylhexyl)phthalate	N	Yes	U	UJ	HTQ
5801305241	NWTPH-DX	NA	B-11-S1	580-130524-15	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	18 J	18 J-	HTQ
5801305241	NWTPH-DX	NA	B-11-S1	580-130524-15	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	20 J	20 J-	HTQ
5801305241	NWTPH-GX	NA	B-11-S1	580-130524-15	Gasoline	N	Yes	0.57 J	0.57 J	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	1,1,1,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	1,1,1-Trichloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	1,1,2,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	1,1,2-Trichloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	1,1-Dichloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	1,1-Dichloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	1,1-Dichloropropene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	1,2,3-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	1,2,3-Trichloropropane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	1,2,4-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	1,2-Dibromo-3-chloropropane (DBCP)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	1,2-Dibromoethane (Ethylene Dibromide)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	1,2-Dichloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	1,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	1,3,5-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	1,3-Dichloropropane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	2,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	2-Chlorotoluene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	2-Phenylbutane (sec-Butylbenzene)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	4-Chlorotoluene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	Benzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	Bromobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	Bromodichloromethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	Bromoform	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	Bromomethane (Methyl Bromide)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	Carbon tetrachloride	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	Chlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	Chlorobromomethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	Chloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	Chloroform (Trichloromethane)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	Cymene (p-Isopropyltoluene)	N	Yes	0.017 J	0.017 J	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	Dibromochloromethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	Dibromomethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	Dichlorodifluoromethane (CFC-12)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	Ethylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	Hexachlorobutadiene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	Isopropylbenzene (Cumene)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	Methyl Tert Butyl Ether (MTBE)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	Methylene chloride (Dichloromethane)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	Naphthalene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	Styrene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	Tetrachloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	Toluene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	Trichloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	Trichlorofluoromethane (CFC-11)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	Vinyl chloride	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	cis-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	cis-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	m,p-Xylenes	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	n-Butylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	n-Propylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	o-Xylene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	tert-Butylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	trans-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-11-S1	580-130524-15	trans-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801305241	NWTPH-DX	NA	B-11-S2	580-130524-16	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	U	UJ	HTQ
5801305241	NWTPH-DX	NA	B-11-S2	580-130524-16	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	U	UJ	HTQ
5801305241	NWTPH-GX	NA	B-11-S2	580-130524-16	Gasoline	N	Yes	U	UJ	HTQ
5801305241	NWTPH-DX	NA	B-12-S1	580-130524-20	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	U	UJ	HTQ
5801305241	NWTPH-DX	NA	B-12-S1	580-130524-20	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	U	UJ	HTQ
5801305241	NWTPH-GX	NA	B-12-S1	580-130524-20	Gasoline	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	1,1,1,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	1,1,1-Trichloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	1,1,2,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	1,1,2-Trichloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	1,1-Dichloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	1,1-Dichloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	1,1-Dichloropropene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	1,2,3-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	1,2,3-Trichloropropane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	1,2,4-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	1,2-Dibromo-3-chloropropane (DBCP)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	1,2-Dibromoethane (Ethylene Dibromide)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	1,2-Dichloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	1,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	1,3,5-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	1,3-Dichloropropane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	2,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	2-Chlorotoluene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	2-Phenylbutane (sec-Butylbenzene)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	4-Chlorotoluene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	Benzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	Bromobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	Bromodichloromethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	Bromoform	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	Bromomethane (Methyl Bromide)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	Carbon tetrachloride	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	Chlorobenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	Chlorobromomethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	Chloroethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	Chloroform (Trichloromethane)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	Cymene (p-Isopropyltoluene)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	Dibromochloromethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	Dibromomethane	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	Dichlorodifluoromethane (CFC-12)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	Ethylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	Hexachlorobutadiene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	Isopropylbenzene (Cumene)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	Methyl Tert Butyl Ether (MTBE)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	Methylene chloride (Dichloromethane)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	Naphthalene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	Styrene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	Tetrachloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	Toluene	N	Yes	U	UJ	HTQ

SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
5801305241	SW8260D	NA	B-12-S1	580-130524-20	Trichloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	Trichlorofluoromethane (CFC-11)	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	Vinyl chloride	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	cis-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	cis-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	m,p-Xylenes	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	n-Butylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	n-Propylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	o-Xylene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	tert-Butylbenzene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	trans-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801305241	SW8260D	NA	B-12-S1	580-130524-20	trans-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801305241	NWTPH-DX	NA	B-12-S2	580-130524-21	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	U	UJ	HTQ
5801305241	NWTPH-DX	NA	B-12-S2	580-130524-21	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	U	UJ	HTQ
5801305241	NWTPH-GX	NA	B-12-S2	580-130524-21	Gasoline	N	Yes	U	UJ	HTQ
5801305151	NWTPH-DX	NA	BG-01-S1	580-130515-8	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	U	UJ	HTQ
5801305151	NWTPH-DX	NA	BG-01-S1	580-130515-8	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	U	UJ	HTQ
5801305151	NWTPH-GX	NA	BG-01-S1	580-130515-8	Gasoline	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	1,1,1,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	1,1,1-Trichloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	1,1,2,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	1,1,2-Trichloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	1,1-Dichloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	1,1-Dichloroethene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	1,1-Dichloropropene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	1,2,3-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	1,2,3-Trichloropropane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	1,2,4-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	1,2-Dibromo-3-chloropropane (DBCP)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	1,2-Dibromoethane (Ethylene Dibromide)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	1,2-Dichloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	1,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	1,3,5-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	1,3-Dichloropropane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	2,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	2-Chlorotoluene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	2-Phenylbutane (sec-Butylbenzene)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	4-Chlorotoluene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	Benzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	Bromobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	Bromodichloromethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	Bromoform	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	Bromomethane (Methyl Bromide)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	Carbon tetrachloride	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	Chlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	Chlorobromomethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	Chloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	Chloroform (Trichloromethane)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	Cymene (p-Isopropyltoluene)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	Dibromochloromethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	Dibromomethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	Dichlorodifluoromethane (CFC-12)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	Ethylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	Hexachlorobutadiene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	Isopropylbenzene (Cumene)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	Methyl Tert Butyl Ether (MTBE)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	Methylene chloride (Dichloromethane)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	Naphthalene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	Styrene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	Tetrachloroethene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	Toluene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	Trichloroethene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	Trichlorofluoromethane (CFC-11)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	Vinyl chloride	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	cis-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	cis-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	m,p-Xylenes	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	n-Butylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	n-Propylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	o-Xylene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	tert-Butylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	trans-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	BG-01-S1	580-130515-8	trans-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	1-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	2,2'-oxybis(1-Chloropropane)	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	2,4,5-Trichlorophenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	2,4,6-Trichlorophenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	2,4-Dichlorophenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	2,4-Dimethylphenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	2,4-Dinitrophenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	2,4-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	2,6-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	2-Chloronaphthalene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	2-Chlorophenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	2-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	2-Methylphenol (o-Cresol)	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	2-Nitroaniline	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	2-Nitrophenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	3&4-Methylphenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	3,3'-Dichlorobenzidine	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	3-Nitroaniline	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	4,6-Dinitro-2-methylphenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	4-Bromophenyl phenyl ether (BDE-3)	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	4-Chloro-3-methylphenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	4-Chloroaniline	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	4-Chlorophenyl phenyl ether	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	4-Nitroaniline	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	4-Nitrophenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Acenaphthene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Acenaphthylene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Anthracene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Benzo(a)anthracene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Benzo(a)pyrene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Benzo(b)fluoranthene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Benzo(g,h,i)perylene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Benzo(k)fluoranthene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Benzoic acid	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Benzyl Alcohol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Butyl benzylphthalate (BBP)	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Carbazole	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Chrysene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Di-n-butylphthalate (DBP)	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Di-n-octyl phthalate (DnOP)	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Dibenz(a,h)anthracene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Dibenzofuran	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Diethyl phthalate	N	Yes	U	UJ	HTQ

SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Dimethyl phthalate	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Fluoranthene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Fluorene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Hexachlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Hexachlorobutadiene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Hexachlorocyclopentadiene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Hexachloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Indeno(1,2,3-cd)pyrene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Isophorone	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	N-Nitrosodi-n-propylamine	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	N-Nitrosodiphenylamine	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Naphthalene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Nitrobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Pentachlorophenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Phenanthrene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Phenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	Pyrene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	bis(2-Chloroethoxy)methane	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	bis(2-Chloroethyl)ether	N	Yes	U	UJ	HTQ
5801305151	SW8270E	NA	BG-01-S1	580-130515-8	bis(2-Ethylhexyl)phthalate	N	Yes	0.23 J	0.23 J-	HTQ
5801305151	NWTPH-DX	NA	BG-01-S2	580-130515-9	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	U	UJ	HTQ
5801305151	NWTPH-DX	NA	BG-01-S2	580-130515-9	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	U	UJ	HTQ
5801305151	NWTPH-GX	NA	BG-01-S2	580-130515-9	Gasoline	N	Yes	U	UJ	HTQ
5801305151	NWTPH-DX	NA	FD-02	580-130515-21	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	U	UJ	HTQ
5801305151	NWTPH-DX	NA	FD-02	580-130515-21	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	U	UJ	HTQ
5801305151	NWTPH-GX	NA	FD-02	580-130515-21	Gasoline	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	1,1,1,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	1,1,1-Trichloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	1,1,2,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	1,1,2-Trichloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	1,1-Dichloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	1,1-Dichloroethene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	1,1-Dichloropropene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	1,2,3-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	1,2,3-Trichloropropane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	1,2,4-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	1,2-Dibromo-3-chloropropane (DBCP)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	1,2-Dibromoethane (Ethylene Dibromide)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	1,2-Dichloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	1,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	1,3,5-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	1,3-Dichloropropane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	2,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	2-Chlorotoluene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	2-Phenylbutane (sec-Butylbenzene)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	4-Chlorotoluene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	Benzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	Bromobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	Bromodichloromethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	Bromoform	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	Bromomethane (Methyl Bromide)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	Carbon tetrachloride	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	Chlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	Chlorobromomethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	Chloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	Chloroform (Trichloromethane)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	Cymene (p-Isopropyltoluene)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	Dibromochloromethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	Dibromomethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	Dichlorodifluoromethane (CFC-12)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	Ethylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	Hexachlorobutadiene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	Isopropylbenzene (Cumene)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	Methyl Tert Butyl Ether (MTBE)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	Methylene chloride (Dichloromethane)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	Naphthalene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	Styrene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	Tetrachloroethene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	Toluene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	Trichloroethene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	Trichlorofluoromethane (CFC-11)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	Vinyl chloride	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	cis-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	cis-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	m,p-Xylenes	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	n-Butylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	n-Propylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	o-Xylene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	tert-Butylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	trans-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	NA	FD-02	580-130515-21	trans-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801304931	NWTPH-DX	NA	FD01	580-130493-17	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	120	120 J-	HTQ
5801304931	NWTPH-GX	NA	FD01	580-130493-17	Gasoline	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	1,1,1,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	1,1,1-Trichloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	1,1,2,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	1,1,2-Trichloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	1,1-Dichloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	1,1-Dichloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	1,1-Dichloropropene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	1,2,3-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	1,2,3-Trichloropropane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	1,2,4-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	1,2-Dibromo-3-chloropropane (DBCP)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	1,2-Dibromoethane (Ethylene Dibromide)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	1,2-Dichloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	1,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	1,3,5-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	1,3-Dichloropropane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	2,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	2-Chlorotoluene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	2-Phenylbutane (sec-Butylbenzene)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	4-Chlorotoluene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	Benzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	Bromobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	Bromodichloromethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	Bromoform	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	Bromomethane (Methyl Bromide)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	Carbon tetrachloride	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	Chlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	Chlorobromomethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	Chloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	Chloroform (Trichloromethane)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	Cymene (p-Isopropyltoluene)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	Dibromochloromethane	N	Yes	U	UJ	HTQ

SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
5801304931	SW8260D	NA	FD01	580-130493-17	Dibromomethane	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	Dichlorodifluoromethane (CFC-12)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	Ethylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	Isopropylbenzene (Cumene)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	Methyl Tert Butyl Ether (MTBE)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	Methylene chloride (Dichloromethane)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	Naphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	Styrene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	Tetrachloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	Toluene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	Trichloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	Trichlorofluoromethane (CFC-11)	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	Vinyl chloride	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	cis-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	cis-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	m,p-Xylenes	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	n-Butylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	n-Propylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	o-Xylene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	tert-Butylbenzene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	trans-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801304931	SW8260D	NA	FD01	580-130493-17	trans-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	1-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	2,2'-oxybis(1-Chloropropane)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	2,4,5-Trichlorophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	2,4,6-Trichlorophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	2,4-Dichlorophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	2,4-Dimethylphenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	2,4-Dinitrophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	2,4-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	2,6-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	2-Chloronaphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	2-Chlorophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	2-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	2-Methylphenol (o-Cresol)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	2-Nitroaniline	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	2-Nitrophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	3&4-Methylphenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	3,3'-Dichlorobenzidine	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	3-Nitroaniline	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	4,6-Dinitro-2-methylphenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	4-Bromophenyl phenyl ether (BDE-3)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	4-Chloro-3-methylphenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	4-Chloroaniline	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	4-Chlorophenyl phenyl ether	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	4-Nitroaniline	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	4-Nitrophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Acenaphthene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Acenaphthylene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Anthracene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Benzo(a)anthracene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Benzo(a)pyrene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Benzo(b)fluoranthene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Benzo(g,h,i)perylene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Benzo(k)fluoranthene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Benzoic acid	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Benzyl Alcohol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Butyl benzylphthalate (BBP)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Carbazole	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Chrysene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Di-n-butylphthalate (DBP)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Di-n-octyl phthalate (DnOP)	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Dibenz(a,h)anthracene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Dibenzofuran	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Diethyl phthalate	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Dimethyl phthalate	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Fluoranthene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Fluorene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Hexachlorobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Hexachlorobutadiene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Hexachlorocyclopentadiene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Hexachloroethane	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Indeno(1,2,3-cd)pyrene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Isophorone	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	N-Nitrosodi-n-propylamine	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	N-Nitrosodiphenylamine	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Naphthalene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Nitrobenzene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Pentachlorophenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Phenanthrene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Phenol	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	Pyrene	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	bis(2-Chloroethoxy)methane	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	bis(2-Chloroethyl)ether	N	Yes	U	UJ	HTQ
5801304931	SW8270E	NA	FD01	580-130493-17	bis(2-Ethylhexyl)phthalate	N	Yes	U	UJ	HTQ
5801305151	NWTPH-DX	Wet	PP-01	580-130515-20	Total Petroleum Hydrocarbons (C10-C24)-Diesel #2	N	Yes	200000	200000 J-	HTQ
5801305151	NWTPH-DX	Wet	PP-01	580-130515-20	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	230000	230000 J-	HTQ
5801305151	NWTPH-GX	Wet	PP-01	580-130515-20	Gasoline	N	Yes	92 J	92 J	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	1,1,1,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	1,1,1-Trichloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	1,1,2,2-Tetrachloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	1,1,2-Trichloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	1,1-Dichloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	1,1-Dichloroethene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	1,1-Dichloropropene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	1,2,3-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	1,2,3-Trichloropropane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	1,2,4-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	1,2-Dibromo-3-chloropropane (DBCP)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	1,2-Dibromoethane (Ethylene Dibromide)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	1,2-Dichloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	1,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	1,3,5-Trimethylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	1,3-Dichloropropane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	2,2-Dichloropropane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	2-Chlorotoluene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	2-Phenylbutane (sec-Butylbenzene)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	4-Chlorotoluene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	Benzene	N	Yes	99 J	99 J	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	Bromobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	Bromodichloromethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	Bromoform	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	Bromomethane (Methyl Bromide)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	Carbon tetrachloride	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	Chlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	Chlorobromomethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	Chloroethane	N	Yes	U	UJ	HTQ

SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
5801305151	SW8260D	Wet	PP-01	580-130515-20	Chloroform (Trichloromethane)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	Chloromethane (Methyl Chloride)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	Dibromochloromethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	Dibromomethane	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	Dichlorodifluoromethane (CFC-12)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	Ethylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	Hexachlorobutadiene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	Isopropylbenzene (Cumene)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	Methyl Tert Butyl Ether (MTBE)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	Methylene chloride (Dichloromethane)	N	Yes	240 J	240 J	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	Naphthalene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	Styrene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	Tetrachloroethene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	Toluene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	Trichloroethene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	Trichlorofluoromethane (CFC-11)	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	Vinyl chloride	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	cis-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	cis-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	m,p-Xylenes	N	Yes	120 J	120 J	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	n-Butylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	n-Propylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	o-Xylene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	tert-Butylbenzene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	trans-1,2-Dichloroethene	N	Yes	U	UJ	HTQ
5801305151	SW8260D	Wet	PP-01	580-130515-20	trans-1,3-Dichloropropene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	1,2,4-Trichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	1,2-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	1,3-Dichlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	1-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	2,2'-oxybis(1-Chloropropane)	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	2,4,5-Trichlorophenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	2,4,6-Trichlorophenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	2,4-Dichlorophenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	2,4-Dimethylphenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	2,4-Dinitrophenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	2,4-Dinitrotoluene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	2-Chloronaphthalene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	2-Chlorophenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	2-Methylnaphthalene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	2-Methylphenol (o-Cresol)	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	2-Nitrophenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	3&4-Methylphenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	3,3'-Dichlorobenzidine	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	3-Nitroaniline	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	4,6-Dinitro-2-methylphenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	4-Bromophenyl phenyl ether (BDE-3)	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	4-Chloro-3-methylphenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	4-Chloroaniline	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	4-Chlorophenyl phenyl ether	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	4-Nitroaniline	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	4-Nitrophenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Acenaphthene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Acenaphthylene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Anthracene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Benzo(a)anthracene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Benzo(a)pyrene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Benzo(b)fluoranthene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Benzo(g,h,i)perylene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Benzo(k)fluoranthene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Benzoic acid	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Benzyl Alcohol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Butyl benzylphthalate (BBP)	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Carbazole	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Chrysene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Di-n-butylphthalate (DBP)	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Di-n-octyl phthalate (DnOP)	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Dibenz(a,h)anthracene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Dibenzofuran	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Diethyl phthalate	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Dimethyl phthalate	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Fluoranthene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Fluorene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Hexachlorobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Hexachlorobutadiene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Hexachloroethane	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Indeno(1,2,3-cd)pyrene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Isophorone	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	N-Nitrosodi-n-propylamine	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	N-Nitrosodiphenylamine	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Naphthalene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Nitrobenzene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Pentachlorophenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Phenanthrene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Phenol	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	Pyrene	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	bis(2-Chloroethoxy)methane	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	bis(2-Chloroethyl)ether	N	Yes	U	UJ	HTQ
5801305151	SW8270E	Wet	PP-01	580-130515-20	bis(2-Ethylhexyl)phthalate	N	Yes	90000 J	90000 J-	HTQ
5801304931	NWTPH-DX	NA	B-05-S1	580-130493-10	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	U	UJ	HTQ, FDP
5801304931	NWTPH-DX	NA	FD01	580-130493-17	Total Petroleum Hydrocarbons (C24-C36) Motor Oil	N	Yes	300	300 J-	HTQ, FDP
5801304951	SW8260D	NA	B-01-S1	580-130495-13	Hexachlorobutadiene	N	Yes	0.063 J	0.1 UJ	HTQ, MBK
5801304931	SW8260D	NA	B-01-S7	580-130493-2	Hexachlorobutadiene	N	Yes	0.033 J	0.078 UJ	HTQ, MBK
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Diethyl phthalate	N	Yes	0.049 J	0.45 UJ	HTQ, MBK
5801304951	SW8260D	NA	B-02-S2	580-130495-2	Hexachlorobutadiene	N	Yes	0.065 J	0.099 UJ	HTQ, MBK
5801304951	SW8260D	NA	B-03-S1	580-130495-7	Hexachlorobutadiene	N	Yes	0.067 J	0.095 UJ	HTQ, MBK
5801304931	SW8260D	NA	B-05-S1	580-130493-10	Hexachlorobutadiene	N	Yes	0.043 J	0.14 UJ	HTQ, MBK
5801304931	SW8270E	NA	B-05-S1	580-130493-10	Diethyl phthalate	N	Yes	0.043 J	0.51 UJ	HTQ, MBK
5801304931	SW8260D	NA	B-05-S2	580-130493-11	Hexachlorobutadiene	N	Yes	0.033 J	0.1 UJ	HTQ, MBK
5801304931	SW8270E	NA	B-05-S2	580-130493-11	Diethyl phthalate	N	Yes	0.032 J	0.47 UJ	HTQ, MBK
5801304931	SW8260D	NA	B-05-S3	580-130493-12	Hexachlorobutadiene	N	Yes	0.026 J	0.1 UJ	HTQ, MBK
5801304931	SW8260D	NA	B-06-S1	580-130493-3	Hexachlorobutadiene	N	Yes	0.044 J	0.11 UJ	HTQ, MBK
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Diethyl phthalate	N	Yes	0.038 J	0.47 UJ	HTQ, MBK
5801304931	SW8260D	NA	B-06-S4	580-130493-6	Hexachlorobutadiene	N	Yes	0.039 J	0.1 UJ	HTQ, MBK
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Diethyl phthalate	N	Yes	0.029 J	0.48 UJ	HTQ, MBK
5801304931	SW8260D	NA	FD01	580-130493-17	Hexachlorobutadiene	N	Yes	0.028 J	0.12 UJ	HTQ, MBK
5801305151	SW8260D	Wet	PP-01	580-130515-20	Cymene (p-Isopropyltoluene)	N	Yes	300 J	370.0 UJ	HTQ, MBK
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Benzoic acid	N	Yes	U	R	HTQ, MSD
5801305151	SW8270E	Wet	PP-01	580-130515-20	1,4-Dichlorobenzene	N	Yes	U	UJ	HTQ, MSD
5801305151	SW8270E	Wet	PP-01	580-130515-20	2,6-Dinitrotoluene	N	Yes	U	R	HTQ, MSD
5801305151	SW8270E	Wet	PP-01	580-130515-20	2-Nitroaniline	N	Yes	U	R	HTQ, MSD
5801305151	SW8270E	Wet	PP-01	580-130515-20	Hexachlorocyclopentadiene	N	Yes	U	R	HTQ, MSD
5801304931	SW8270E	NA	B-01-S7	580-130493-2	2,4,5-Trichlorophenol	N	Yes	U	UJ	HTQ, SUR
5801304931	SW8270E	NA	B-01-S7	580-130493-2	2,4,6-Trichlorophenol	N	Yes	U	UJ	HTQ, SUR
5801304931	SW8270E	NA	B-01-S7	580-130493-2	2,4-Dinitrophenol	N	Yes	U	UJ	HTQ, SUR
5801304931	SW8270E	NA	B-01-S7	580-130493-2	4,6-Dinitro-2-methylphenol	N	Yes	U	UJ	HTQ, SUR
5801304931	SW8270E	NA	B-01-S7	580-130493-2	4-Nitrophenol	N	Yes	U	UJ	HTQ, SUR
5801304931	SW8270E	NA	B-01-S7	580-130493-2	Pentachlorophenol	N	Yes	U	UJ	HTQ, SUR
5801305151	SW8270E	NA	B-04-S1	580-130515-1	2,4,5-Trichlorophenol	N	Yes	U	UJ	HTQ, SUR
5801305151	SW8270E	NA	B-04-S1	580-130515-1	2,4,6-Trichlorophenol	N	Yes	U	UJ	HTQ, SUR
5801305151	SW8270E	NA	B-04-S1	580-130515-1	2,4-Dinitrophenol	N	Yes	U	UJ	HTQ, SUR
5801305151	SW8270E	NA	B-04-S1	580-130515-1	4,6-Dinitro-2-methylphenol	N	Yes	U	UJ	HTQ, SUR
5801305151	SW8270E	NA	B-04-S1	580-130515-1	4-Nitrophenol	N	Yes	U	UJ	HTQ, SUR
5801305151	SW8270E	NA	B-04-S1	580-130515-1	Pentachlorophenol	N	Yes	U	UJ	HTQ, SUR
5801304931	SW8270E	NA	B-05-S3	580-130493-12	2,4,5-Trichlorophenol	N	Yes	U	UJ	HTQ, SUR

SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
5801304931	SW8270E	NA	B-05-S3	580-130493-12	2,4,6-Trichlorophenol	N	Yes	U	UJ	HTQ, SUR
5801304931	SW8270E	NA	B-05-S3	580-130493-12	2,4-Dinitrophenol	N	Yes	U	UJ	HTQ, SUR
5801304931	SW8270E	NA	B-05-S3	580-130493-12	4,6-Dinitro-2-methylphenol	N	Yes	U	UJ	HTQ, SUR
5801304931	SW8270E	NA	B-05-S3	580-130493-12	4-Nitrophenol	N	Yes	U	UJ	HTQ, SUR
5801304931	SW8270E	NA	B-05-S3	580-130493-12	Pentachlorophenol	N	Yes	U	UJ	HTQ, SUR
5801304931	SW8270E	NA	B-06-S1	580-130493-3	2,4,5-Trichlorophenol	N	Yes	U	UJ	HTQ, SUR
5801304931	SW8270E	NA	B-06-S1	580-130493-3	2,4,6-Trichlorophenol	N	Yes	U	UJ	HTQ, SUR
5801304931	SW8270E	NA	B-06-S1	580-130493-3	2,4-Dinitrophenol	N	Yes	U	UJ	HTQ, SUR
5801304931	SW8270E	NA	B-06-S1	580-130493-3	4,6-Dinitro-2-methylphenol	N	Yes	U	UJ	HTQ, SUR
5801304931	SW8270E	NA	B-06-S1	580-130493-3	4-Nitrophenol	N	Yes	U	UJ	HTQ, SUR
5801304931	SW8270E	NA	B-06-S1	580-130493-3	Pentachlorophenol	N	Yes	U	UJ	HTQ, SUR
5801304931	SW8270E	NA	B-06-S4	580-130493-6	2,4,5-Trichlorophenol	N	Yes	U	UJ	HTQ, SUR
5801304931	SW8270E	NA	B-06-S4	580-130493-6	2,4,6-Trichlorophenol	N	Yes	U	UJ	HTQ, SUR
5801304931	SW8270E	NA	B-06-S4	580-130493-6	2,4-Dinitrophenol	N	Yes	U	UJ	HTQ, SUR
5801304931	SW8270E	NA	B-06-S4	580-130493-6	4,6-Dinitro-2-methylphenol	N	Yes	U	UJ	HTQ, SUR
5801304931	SW8270E	NA	B-06-S4	580-130493-6	4-Nitrophenol	N	Yes	U	UJ	HTQ, SUR
5801304931	SW8270E	NA	B-06-S4	580-130493-6	Pentachlorophenol	N	Yes	U	UJ	HTQ, SUR
5801305151	SW8270E	NA	B-09-S1	580-130515-13	2,4,5-Trichlorophenol	N	Yes	U	UJ	HTQ, SUR
5801305151	SW8270E	NA	B-09-S1	580-130515-13	2,4,6-Trichlorophenol	N	Yes	U	UJ	HTQ, SUR
5801305151	SW8270E	NA	B-09-S1	580-130515-13	2,4-Dinitrophenol	N	Yes	U	UJ	HTQ, SUR
5801305151	SW8270E	NA	B-09-S1	580-130515-13	4,6-Dinitro-2-methylphenol	N	Yes	U	UJ	HTQ, SUR
5801305151	SW8270E	NA	B-09-S1	580-130515-13	4-Nitrophenol	N	Yes	U	UJ	HTQ, SUR
5801305151	SW8270E	NA	B-09-S1	580-130515-13	Pentachlorophenol	N	Yes	U	UJ	HTQ, SUR
5801305151	SW8082A	Wet	PP-01	580-130515-20	Aroclor-1016 (PCB-1016)	N	Yes	U	UJ	HTQ, SUR
5801305151	SW8082A	Wet	PP-01	580-130515-20	Aroclor-1221 (PCB-1221)	N	Yes	U	UJ	HTQ, SUR
5801305151	SW8082A	Wet	PP-01	580-130515-20	Aroclor-1232 (PCB-1232)	N	Yes	U	UJ	HTQ, SUR
5801305151	SW8082A	Wet	PP-01	580-130515-20	Aroclor-1242 (PCB-1242)	N	Yes	U	UJ	HTQ, SUR
5801305151	SW8082A	Wet	PP-01	580-130515-20	Aroclor-1248 (PCB-1248)	N	Yes	U	UJ	HTQ, SUR
5801305151	SW8082A	Wet	PP-01	580-130515-20	Aroclor-1254 (PCB-1254)	N	Yes	U	UJ	HTQ, SUR
5801305151	SW8082A	Wet	PP-01	580-130515-20	Aroclor-1260 (PCB-1260)	N	Yes	U	UJ	HTQ, SUR
5801304951	SW6010D	NA	B-01-S1	580-130495-13	Sodium	N	Yes	380	380 J+	MSD
5801304931	SW7471A	NA	B-01-S7	580-130493-2	Mercury	N	Yes	0.031	0.031 J+	MSD
5801304951	SW6010D	NA	B-02-S2	580-130495-2	Sodium	N	Yes	520	520 J+	MSD
5801304951	SW6010D	NA	B-03-S1	580-130495-7	Sodium	N	Yes	380	380 J+	MSD
5801304931	SW7471A	NA	B-05-S1	580-130493-10	Mercury	N	Yes	0.045	0.045 J+	MSD
5801304931	SW7471A	NA	B-05-S2	580-130493-11	Mercury	N	Yes	0.059	0.059 J+	MSD
5801304931	SW7471A	NA	B-05-S3	580-130493-12	Mercury	N	Yes	0.047	0.047 J+	MSD
5801304931	SW7471A	NA	B-06-S1	580-130493-3	Mercury	N	Yes	0.052	0.052 J+	MSD
5801304931	SW7471A	NA	B-06-S4	580-130493-6	Mercury	N	Yes	0.05	0.05 J+	MSD
5801304931	SW7471A	NA	FD01	580-130493-17	Mercury	N	Yes	0.04	0.04 J+	MSD
5801304951	SW6010D	NA	B-01-S1	580-130495-13	Potassium	N	Yes	1500	1500 J+	MSD, DUP
5801304931	SW6010D	NA	B-01-S7	580-130493-2	Potassium	N	Yes	1000	1000 J+	MSD, DUP
5801304951	SW6010D	NA	B-02-S2	580-130495-2	Potassium	N	Yes	1400	1400 J+	MSD, DUP
5801304951	SW6010D	NA	B-03-S1	580-130495-7	Potassium	N	Yes	1100	1100 J+	MSD, DUP
5801304931	SW6010D	NA	B-05-S1	580-130493-10	Potassium	N	Yes	720	720 J+	MSD, DUP
5801304931	SW6010D	NA	B-05-S2	580-130493-11	Potassium	N	Yes	1700	1700 J+	MSD, DUP
5801304931	SW6010D	NA	B-05-S3	580-130493-12	Potassium	N	Yes	1500	1500 J+	MSD, DUP
5801304931	SW6010D	NA	B-06-S1	580-130493-3	Potassium	N	Yes	1200	1200 J+	MSD, DUP
5801304931	SW6010D	NA	B-06-S4	580-130493-6	Potassium	N	Yes	1800	1800 J+	MSD, DUP
5801304931	SW6010D	NA	FD01	580-130493-17	Potassium	N	Yes	640	640 J+	MSD, DUP
23H0691	WAEPH	NA	B-01-S1	23H0691-03	Extractable Petroleum Hydrocarbons (C10-C12) Aliphatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-01-S1	23H0691-03	Extractable Petroleum Hydrocarbons (C10-C12) Aromatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-01-S1	23H0691-03	Extractable Petroleum Hydrocarbons (C12-C16) Aliphatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-01-S1	23H0691-03	Extractable Petroleum Hydrocarbons (C12-C16) Aromatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-01-S1	23H0691-03	Extractable Petroleum Hydrocarbons (C16-C21) Aliphatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-01-S1	23H0691-03	Extractable Petroleum Hydrocarbons (C16-C21) Aromatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-01-S1	23H0691-03	Extractable Petroleum Hydrocarbons (C21-C34) Aliphatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-01-S1	23H0691-03	Extractable Petroleum Hydrocarbons (C21-C34) Aromatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-01-S1	23H0691-03	Extractable Petroleum Hydrocarbons (C8-C10) Aliphatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-01-S1	23H0691-03	Extractable Petroleum Hydrocarbons (C8-C10) Aromatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-02-S2	23H0691-01	Extractable Petroleum Hydrocarbons (C10-C12) Aliphatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-02-S2	23H0691-01	Extractable Petroleum Hydrocarbons (C10-C12) Aromatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-02-S2	23H0691-01	Extractable Petroleum Hydrocarbons (C12-C16) Aliphatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-02-S2	23H0691-01	Extractable Petroleum Hydrocarbons (C12-C16) Aromatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-02-S2	23H0691-01	Extractable Petroleum Hydrocarbons (C16-C21) Aliphatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-02-S2	23H0691-01	Extractable Petroleum Hydrocarbons (C16-C21) Aromatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-02-S2	23H0691-01	Extractable Petroleum Hydrocarbons (C21-C34) Aliphatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-02-S2	23H0691-01	Extractable Petroleum Hydrocarbons (C21-C34) Aromatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-02-S2	23H0691-01	Extractable Petroleum Hydrocarbons (C8-C10) Aliphatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-02-S2	23H0691-01	Extractable Petroleum Hydrocarbons (C8-C10) Aromatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-03-S1	23H0691-02	Extractable Petroleum Hydrocarbons (C10-C12) Aliphatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-03-S1	23H0691-02	Extractable Petroleum Hydrocarbons (C10-C12) Aromatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-03-S1	23H0691-02	Extractable Petroleum Hydrocarbons (C12-C16) Aliphatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-03-S1	23H0691-02	Extractable Petroleum Hydrocarbons (C12-C16) Aromatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-03-S1	23H0691-02	Extractable Petroleum Hydrocarbons (C16-C21) Aliphatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-03-S1	23H0691-02	Extractable Petroleum Hydrocarbons (C16-C21) Aromatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-03-S1	23H0691-02	Extractable Petroleum Hydrocarbons (C21-C34) Aliphatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-03-S1	23H0691-02	Extractable Petroleum Hydrocarbons (C21-C34) Aromatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-03-S1	23H0691-02	Extractable Petroleum Hydrocarbons (C8-C10) Aliphatic	N	Yes	U	UJ	HTQ
23H0691	WAEPH	NA	B-03-S1	23H0691-02	Extractable Petroleum Hydrocarbons (C8-C10) Aromatic	N	Yes	U	UJ	HTQ
23H0705	WAEPH	NA	B-04-S1	23H0705-01	Extractable Petroleum Hydrocarbons (C10-C12) Aliphatic	N	Yes	U	UJ	HTQ
23H0705	WAEPH	NA	B-04-S1	23H0705-01	Extractable Petroleum Hydrocarbons (C10-C12) Aromatic	N	Yes	U	UJ	HTQ
23H0705	WAEPH	NA	B-04-S1	23H0705-01	Extractable Petroleum Hydrocarbons (C12-C16) Aliphatic	N	Yes	U	UJ	HTQ
23H0705	WAEPH	NA	B-04-S1	23H0705-01	Extractable Petroleum Hydrocarbons (C12-C16) Aromatic	N	Yes	U	UJ	HTQ
23H0705	WAEPH	NA	B-04-S1	23H0705-01	Extractable Petroleum Hydrocarbons (C16-C21) Aliphatic	N	Yes	U	UJ	HTQ
23H0705	WAEPH	NA	B-04-S1	23H0705-01	Extractable Petroleum Hydrocarbons (C16-C21) Aromatic	N	Yes	U	UJ	HTQ
23H0705	WAEPH	NA	B-04-S1	23H0705-01	Extractable Petroleum Hydrocarbons (C21-C34) Aliphatic	N	Yes	U	UJ	HTQ
23H0705	WAEPH	NA	B-04-S1	23H0705-01	Extractable Petroleum Hydrocarbons (C21-C34) Aromatic	N	Yes	U	UJ	HTQ
23H0705	WAEPH	NA	B-04-S1	23H0705-01	Extractable Petroleum Hydrocarbons (C8-C10) Aliphatic	N	Yes	U	UJ	HTQ
23H0705	WAEPH	NA	B-04-S1	23H0705-01	Extractable Petroleum Hydrocarbons (C8-C10) Aromatic	N	Yes	U	UJ	HTQ
23H0704	WAEPH	NA	B-05-S1	23H0704-02	Extractable Petroleum Hydrocarbons (C10-C12) Aliphatic	N	Yes	U	UJ	HTQ
23H0704	WAEPH	NA	B-05-S1	23H0704-02	Extractable Petroleum Hydrocarbons (C10-C12) Aromatic	N	Yes	U	UJ	HTQ
23H0704	WAEPH	NA	B-05-S1	23H0704-02	Extractable Petroleum Hydrocarbons (C12-C16) Aliphatic	N	Yes	U	UJ	HTQ
23H0704	WAEPH	NA	B-05-S1	23H0704-02	Extractable Petroleum Hydrocarbons (C12-C16) Aromatic	N	Yes	U	UJ	HTQ
23H0704	WAEPH	NA	B-05-S1	23H0704-02	Extractable Petroleum Hydrocarbons (C16-C21) Aromatic	N	Yes	3510	3510 J-	HTQ
23H0704	WAEPH	NA	B-05-S1	23H0704-02	Extractable Petroleum Hydrocarbons (C21-C34) Aromatic	N	Yes	4940	4940 J-	HTQ
23H0704	WAEPH	NA	B-05-S1	23H0704-02	Extractable Petroleum Hydrocarbons (C8-C10) Aliphatic	N	Yes	U	UJ	HTQ
23H0704	WAEPH	NA	B-05-S1	23H0704-02	Extractable Petroleum Hydrocarbons (C8-C10) Aromatic	N	Yes	U	UJ	HTQ
23H0704	WAEPH	NA	B-06-S1	23H0704-01	Extractable Petroleum Hydrocarbons (C10-C12) Aliphatic	N	Yes	U	UJ	HTQ
23H0704	WAEPH	NA	B-06-S1	23H0704-01	Extractable Petroleum Hydrocarbons (C10-C12) Aromatic	N	Yes	U	UJ	HTQ
23H0704	WAEPH	NA	B-06-S1	23H0704-01	Extractable Petroleum Hydrocarbons (C12-C16) Aliphatic	N	Yes	U	UJ	HTQ
23H0704	WAEPH	NA	B-06-S1	23H0704-01	Extractable Petroleum Hydrocarbons (C12-C16) Aromatic	N	Yes	U	UJ	HTQ
23H0704	WAEPH	NA	B-06-S1	23H0704-01	Extractable Petroleum Hydrocarbons (C16-C21) Aliphatic	N	Yes	U	UJ	HTQ
23H0704	WAEPH	NA	B-06-S1	23H0704-01	Extractable Petroleum Hydrocarbons (C16-C21) Aromatic	N	Yes	U	UJ	HTQ
23H0704	WAEPH	NA	B-06-S1	23H0704-01	Extractable Petroleum Hydrocarbons (C21-C34) Aliphatic	N	Yes	U	UJ	HTQ
23H0704	WAEPH	NA	B-06-S1	23H0704-01	Extractable Petroleum Hydrocarbons (C21-C34) Aromatic	N	Yes	U	UJ	HTQ
23H0704	WAEPH	NA	B-06-S1	23H0704-01	Extractable Petroleum Hydrocarbons (C8-C10) Aliphatic	N	Yes	U	UJ	HTQ
23H0704	WAEPH	NA	B-06-S1	23H0704-01	Extractable Petroleum Hydrocarbons (C8-C10) Aromatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-07-S1	23H0706-02	Extractable Petroleum Hydrocarbons (C10-C12) Aliphatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-07-S1	23H0706-02	Extractable Petroleum Hydrocarbons (C10-C12) Aromatic	N	Yes	2460	2460 J-	HTQ
23H0706	WAEPH	NA	B-07-S1	23H0706-02	Extractable Petroleum Hydrocarbons (C12-C16) Aliphatic	N	Yes	13900	13900 J-	HTQ
23H0706	WAEPH	NA	B-07-S1	23H0706-02	Extractable Petroleum Hydrocarbons (C12-C16) Aromatic	N	Yes	5440	5440 J-	HTQ
23H0706	WAEPH	NA	B-07-S1	23H0706-02	Extractable Petroleum Hydrocarbons (C16-C21) Aliphatic	N	Yes	229000	229000 J-	HTQ
23H0706	WAEPH	NA	B-07-S1	23H0706-02	Extractable Petroleum Hydrocarbons (C16-C21) Aromatic	N	Yes	126000	126000 J-	HTQ
23H0706	WAEPH	NA	B-07-S1	23H0706-02	Extractable Petroleum Hydrocarbons (C21-C34) Aliphatic	N	Yes	649000	649000 J-	HTQ
23H0706	WAEPH	NA	B-07-S1	23H0706-02	Extractable Petroleum Hydrocarbons (C21-C34) Aromatic	N	Yes	294000	294000 J-	HTQ
23H0706	WAEPH	NA	B-07-S1	23H0706-02	Extractable Petroleum Hydrocarbons (C8-C10) Aliphatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-07-S1	23H0706-02	Extractable Petroleum Hydrocarbons (C8-C10) Aromatic	N	Yes	3080	3080 J-	HTQ
23H0706	WAEPH	NA	B-08-S1	23H0706-01	Extractable Petroleum Hydrocarbons (C10-C12) Aliphatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-08-S1	23H0706-01	Extractable Petroleum Hydrocarbons (C10-C12) Aromatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-08-S1	23H0706-01	Extractable Petroleum Hydrocarbons (C12-C16) Aliphatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-08-S1	23H0706-01	Extractable Petroleum Hydrocarbons (C12-C16) Aromatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-08-S1	23H0706-01	Extractable Petroleum Hydrocarbons (C16-C21) Aliphatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-08-S1	23H0706-01	Extractable Petroleum Hydrocarbons (C16-C21) Aromatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-08-S1	23H0706-01	Extractable Petroleum Hydrocarbons (C21-C34) Aliphatic	N	Yes	2470	2470 J-	HTQ

SDG	Method	Basis	Sample ID	Lab ID	Analyte	Fraction	Reportable Result	Reported Result	Validated Result	Reason for Qualifier
23H0706	WAEPH	NA	B-08-S1	23H0706-01	Extractable Petroleum Hydrocarbons (C21-C34) Aromatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-08-S1	23H0706-01	Extractable Petroleum Hydrocarbons (C8-C10) Aliphatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-08-S1	23H0706-01	Extractable Petroleum Hydrocarbons (C8-C10) Aromatic	N	Yes	U	UJ	HTQ
23H0705	WAEPH	NA	B-09-S1	23H0705-02	Extractable Petroleum Hydrocarbons (C10-C12) Aliphatic	N	Yes	U	UJ	HTQ
23H0705	WAEPH	NA	B-09-S1	23H0705-02	Extractable Petroleum Hydrocarbons (C10-C12) Aromatic	N	Yes	U	UJ	HTQ
23H0705	WAEPH	NA	B-09-S1	23H0705-02	Extractable Petroleum Hydrocarbons (C12-C16) Aliphatic	N	Yes	U	UJ	HTQ
23H0705	WAEPH	NA	B-09-S1	23H0705-02	Extractable Petroleum Hydrocarbons (C12-C16) Aromatic	N	Yes	U	UJ	HTQ
23H0705	WAEPH	NA	B-09-S1	23H0705-02	Extractable Petroleum Hydrocarbons (C16-C21) Aliphatic	N	Yes	U	UJ	HTQ
23H0705	WAEPH	NA	B-09-S1	23H0705-02	Extractable Petroleum Hydrocarbons (C16-C21) Aromatic	N	Yes	U	UJ	HTQ
23H0705	WAEPH	NA	B-09-S1	23H0705-02	Extractable Petroleum Hydrocarbons (C21-C34) Aliphatic	N	Yes	U	UJ	HTQ
23H0705	WAEPH	NA	B-09-S1	23H0705-02	Extractable Petroleum Hydrocarbons (C21-C34) Aromatic	N	Yes	U	UJ	HTQ
23H0705	WAEPH	NA	B-09-S1	23H0705-02	Extractable Petroleum Hydrocarbons (C8-C10) Aliphatic	N	Yes	U	UJ	HTQ
23H0705	WAEPH	NA	B-09-S1	23H0705-02	Extractable Petroleum Hydrocarbons (C8-C10) Aromatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-10-S1	23H0706-05	Extractable Petroleum Hydrocarbons (C10-C12) Aliphatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-10-S1	23H0706-05	Extractable Petroleum Hydrocarbons (C10-C12) Aromatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-10-S1	23H0706-05	Extractable Petroleum Hydrocarbons (C12-C16) Aliphatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-10-S1	23H0706-05	Extractable Petroleum Hydrocarbons (C12-C16) Aromatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-10-S1	23H0706-05	Extractable Petroleum Hydrocarbons (C16-C21) Aliphatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-10-S1	23H0706-05	Extractable Petroleum Hydrocarbons (C16-C21) Aromatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-10-S1	23H0706-05	Extractable Petroleum Hydrocarbons (C21-C34) Aliphatic	N	Yes	3780	3780 J-	HTQ
23H0706	WAEPH	NA	B-10-S1	23H0706-05	Extractable Petroleum Hydrocarbons (C21-C34) Aromatic	N	Yes	3370	3370 J-	HTQ
23H0706	WAEPH	NA	B-10-S1	23H0706-05	Extractable Petroleum Hydrocarbons (C8-C10) Aliphatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-10-S1	23H0706-05	Extractable Petroleum Hydrocarbons (C8-C10) Aromatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-11-S1	23H0706-03	Extractable Petroleum Hydrocarbons (C10-C12) Aliphatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-11-S1	23H0706-03	Extractable Petroleum Hydrocarbons (C10-C12) Aromatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-11-S1	23H0706-03	Extractable Petroleum Hydrocarbons (C12-C16) Aliphatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-11-S1	23H0706-03	Extractable Petroleum Hydrocarbons (C12-C16) Aromatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-11-S1	23H0706-03	Extractable Petroleum Hydrocarbons (C16-C21) Aliphatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-11-S1	23H0706-03	Extractable Petroleum Hydrocarbons (C16-C21) Aromatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-11-S1	23H0706-03	Extractable Petroleum Hydrocarbons (C21-C34) Aliphatic	N	Yes	7110	7110 J-	HTQ
23H0706	WAEPH	NA	B-11-S1	23H0706-03	Extractable Petroleum Hydrocarbons (C21-C34) Aromatic	N	Yes	8650	8650 J-	HTQ
23H0706	WAEPH	NA	B-11-S1	23H0706-03	Extractable Petroleum Hydrocarbons (C8-C10) Aliphatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-11-S1	23H0706-03	Extractable Petroleum Hydrocarbons (C8-C10) Aromatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-12-S1	23H0706-04	Extractable Petroleum Hydrocarbons (C10-C12) Aliphatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-12-S1	23H0706-04	Extractable Petroleum Hydrocarbons (C10-C12) Aromatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-12-S1	23H0706-04	Extractable Petroleum Hydrocarbons (C12-C16) Aliphatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-12-S1	23H0706-04	Extractable Petroleum Hydrocarbons (C12-C16) Aromatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-12-S1	23H0706-04	Extractable Petroleum Hydrocarbons (C16-C21) Aliphatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-12-S1	23H0706-04	Extractable Petroleum Hydrocarbons (C16-C21) Aromatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-12-S1	23H0706-04	Extractable Petroleum Hydrocarbons (C21-C34) Aliphatic	N	Yes	3670	3670 J-	HTQ
23H0706	WAEPH	NA	B-12-S1	23H0706-04	Extractable Petroleum Hydrocarbons (C21-C34) Aromatic	N	Yes	4280	4280 J-	HTQ
23H0706	WAEPH	NA	B-12-S1	23H0706-04	Extractable Petroleum Hydrocarbons (C8-C10) Aliphatic	N	Yes	U	UJ	HTQ
23H0706	WAEPH	NA	B-12-S1	23H0706-04	Extractable Petroleum Hydrocarbons (C8-C10) Aromatic	N	Yes	U	UJ	HTQ
23H0704	WAEPH	NA	FD01	23H0704-03	Extractable Petroleum Hydrocarbons (C10-C12) Aliphatic	N	Yes	U	UJ	HTQ
23H0704	WAEPH	NA	FD01	23H0704-03	Extractable Petroleum Hydrocarbons (C10-C12) Aromatic	N	Yes	U	UJ	HTQ
23H0704	WAEPH	NA	FD01	23H0704-03	Extractable Petroleum Hydrocarbons (C12-C16) Aliphatic	N	Yes	U	UJ	HTQ
23H0704	WAEPH	NA	FD01	23H0704-03	Extractable Petroleum Hydrocarbons (C12-C16) Aromatic	N	Yes	U	UJ	HTQ
23H0704	WAEPH	NA	FD01	23H0704-03	Extractable Petroleum Hydrocarbons (C16-C21) Aromatic	N	Yes	3490	3490 J-	HTQ
23H0704	WAEPH	NA	FD01	23H0704-03	Extractable Petroleum Hydrocarbons (C21-C34) Aromatic	N	Yes	5140	5140 J-	HTQ
23H0704	WAEPH	NA	FD01	23H0704-03	Extractable Petroleum Hydrocarbons (C8-C10) Aliphatic	N	Yes	U	UJ	HTQ
23H0704	WAEPH	NA	FD01	23H0704-03	Extractable Petroleum Hydrocarbons (C8-C10) Aromatic	N	Yes	U	UJ	HTQ
23H0704	WAEPH	NA	B-05-S1	23H0704-02	Extractable Petroleum Hydrocarbons (C16-C21) Aliphatic	N	Yes	10700	10700 J-	HTQ, FDP
23H0704	WAEPH	NA	B-05-S1	23H0704-02	Extractable Petroleum Hydrocarbons (C21-C34) Aliphatic	N	Yes	U	UJ	HTQ, FDP
23H0704	WAEPH	NA	FD01	23H0704-03	Extractable Petroleum Hydrocarbons (C16-C21) Aliphatic	N	Yes	3890	3890 J-	HTQ, FDP
23H0704	WAEPH	NA	FD01	23H0704-03	Extractable Petroleum Hydrocarbons (C21-C34) Aliphatic	N	Yes	9880	9880 J-	HTQ, FDP
23H0705	WAVPH	NA	B-09-S1	23H0705-02	1,2,3-Trichlorobenzene	N	No	U	R	VCM
23H0705	WAVPH	NA	B-09-S1	23H0705-02	1-Methylnaphthalene	N	No	U	R	VCM
23H0705	WAVPH	NA	B-09-S1	23H0705-02	Benzene	N	No	U	R	VCM
23H0705	WAVPH	NA	B-09-S1	23H0705-02	Ethylbenzene	N	No	U	R	VCM
23H0705	WAVPH	NA	B-09-S1	23H0705-02	Hexane	N	No	U	R	VCM
23H0705	WAVPH	NA	B-09-S1	23H0705-02	Methyl Tert Butyl Ether (MTBE)	N	No	U	R	VCM
23H0705	WAVPH	NA	B-09-S1	23H0705-02	N-Decane	N	No	U	R	VCM
23H0705	WAVPH	NA	B-09-S1	23H0705-02	N-Dodecane	N	No	U	R	VCM
23H0705	WAVPH	NA	B-09-S1	23H0705-02	Naphthalene	N	No	U	R	VCM
23H0705	WAVPH	NA	B-09-S1	23H0705-02	Octane	N	No	U	R	VCM
23H0705	WAVPH	NA	B-09-S1	23H0705-02	Pentane	N	No	U	R	VCM
23H0705	WAVPH	NA	B-09-S1	23H0705-02	Toluene	N	No	U	R	VCM
23H0705	WAVPH	NA	B-09-S1	23H0705-02	Volatile Petroleum Hydrocarbons (C10-C12) Aliphatic	N	No	U	R	VCM
23H0705	WAVPH	NA	B-09-S1	23H0705-02	Volatile Petroleum Hydrocarbons (C10-C12) Aromatic	N	No	U	R	VCM
23H0705	WAVPH	NA	B-09-S1	23H0705-02	Volatile Petroleum Hydrocarbons (C12-C13) Aromatic	N	No	U	R	VCM
23H0705	WAVPH	NA	B-09-S1	23H0705-02	Volatile Petroleum Hydrocarbons (C5-C6) Aliphatic	N	No	U	R	VCM
23H0705	WAVPH	NA	B-09-S1	23H0705-02	Volatile Petroleum Hydrocarbons (C6-C8) Aliphatic	N	No	U	R	VCM
23H0705	WAVPH	NA	B-09-S1	23H0705-02	Volatile Petroleum Hydrocarbons (C8-C10) Aliphatic	N	No	U	R	VCM
23H0705	WAVPH	NA	B-09-S1	23H0705-02	Volatile Petroleum Hydrocarbons (C8-C10) Aromatic	N	No	U	R	VCM
23H0705	WAVPH	NA	B-09-S1	23H0705-02	m,p-Xylenes	N	No	U	R	VCM
23H0705	WAVPH	NA	B-09-S1	23H0705-02	o-Xylene	N	No	U	R	VCM
23H0706	WAVPH	NA	B-07-S1	23H0706-02	1,2,3-Trichlorobenzene	N	No	U	R	VCM
23H0706	WAVPH	NA	B-07-S1	23H0706-02	1-Methylnaphthalene	N	No	U	R	VCM
23H0706	WAVPH	NA	B-07-S1	23H0706-02	Benzene	N	No	U	R	VCM
23H0706	WAVPH	NA	B-07-S1	23H0706-02	Ethylbenzene	N	No	U	R	VCM
23H0706	WAVPH	NA	B-07-S1	23H0706-02	Hexane	N	No	U	R	VCM
23H0706	WAVPH	NA	B-07-S1	23H0706-02	Methyl Tert Butyl Ether (MTBE)	N	No	U	R	VCM
23H0706	WAVPH	NA	B-07-S1	23H0706-02	N-Decane	N	No	U	R	VCM
23H0706	WAVPH	NA	B-07-S1	23H0706-02	N-Dodecane	N	No	U	R	VCM
23H0706	WAVPH	NA	B-07-S1	23H0706-02	Naphthalene	N	No	U	R	VCM
23H0706	WAVPH	NA	B-07-S1	23H0706-02	Octane	N	No	U	R	VCM
23H0706	WAVPH	NA	B-07-S1	23H0706-02	Pentane	N	No	24400	24400 R	VCM
23H0706	WAVPH	NA	B-07-S1	23H0706-02	Toluene	N	No	U	R	VCM
23H0706	WAVPH	NA	B-07-S1	23H0706-02	Volatile Petroleum Hydrocarbons (C10-C12) Aliphatic	N	No	U	R	VCM
23H0706	WAVPH	NA	B-07-S1	23H0706-02	Volatile Petroleum Hydrocarbons (C10-C12) Aromatic	N	No	U	R	VCM
23H0706	WAVPH	NA	B-07-S1	23H0706-02	Volatile Petroleum Hydrocarbons (C12-C13) Aromatic	N	No	U	R	VCM
23H0706	WAVPH	NA	B-07-S1	23H0706-02	Volatile Petroleum Hydrocarbons (C5-C6) Aliphatic	N	No	30900	30900 R	VCM
23H0706	WAVPH	NA	B-07-S1	23H0706-02	Volatile Petroleum Hydrocarbons (C6-C8) Aliphatic	N	No	U	R	VCM
23H0706	WAVPH	NA	B-07-S1	23H0706-02	Volatile Petroleum Hydrocarbons (C8-C10) Aliphatic	N	No	U	R	VCM
23H0706	WAVPH	NA	B-07-S1	23H0706-02	Volatile Petroleum Hydrocarbons (C8-C10) Aromatic	N	No	U	R	VCM
23H0706	WAVPH	NA	B-07-S1	23H0706-02	m,p-Xylenes	N	No	U	R	VCM
23H0706	WAVPH	NA	B-07-S1	23H0706-02	o-Xylene	N	No	U	R	VCM

Notes:

MSD = Matrix spike/matrix spike duplicate percent recoveries or relative percent difference were outside the specified limits.
MBK = Method blank contamination.
SUR = Surrogate percent recovery outside the specified limits.
DUP = Laboratory duplicate relative percent difference exceeds the specified limits.
HTQ = Holding time exceedance.
FDP = Field duplicate qualifier due to an exceedance of the specified limits.
VCM = Validator's choice of method.
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
UJ = The compound was not detected above the reported sample quantitation limit; however, the reported limit is estimated and may or may not represent the actual limit of quantitation.
J- = The result is an estimated quantity, but the result may be biased low.
R = The sample results were rejected as unusable; the compound may or may not be present in the sample.
J+ = The result is an estimated quantity, but the result may be biased high.

Data Usability Summary Report

Project Name: Treoil Industries Biorefinery

Project Description: Surface Water Samples

Sample Date(s): 12 December 2024

Analytical Laboratory: OnSite Environmental, Inc. – Redmond, WA

Validation Performed by: Kristina Ilina

Validation Reviewed by: Katherine Miller

Validation Date: 14 January 2025

Haley & Aldrich, Inc. prepared this Data Usability Summary Report (DUSR) to summarize the review and validation of the analytical results for the Sample Delivery Group (SDG) listed. This DUSR is organized into the following sections:

1. **Sample Delivery Group Number 2412-206**
2. **Precision and Accuracy [for SDG(s) above]**
3. **Explanations**
4. **Glossary**
5. **Abbreviations**
6. **Qualifiers**

References

This data validation and usability assessment was performed per the guidance and requirements established by the United States Environmental Protection Agency (USEPA) using the following reference materials:

- National Functional Guidelines (NFG) for Inorganic Data Review.
- NFG for Organic Data Review.

Data reported in this sampling event were reported to the laboratory Practical Quantitation Limit (PQL).

Sample data were qualified in accordance with the laboratory's standard operating procedures (SOPs). The results presented in each laboratory report were found to be compliant with the data quality objectives (DQOs) for the project and are therefore usable; any exceptions are noted in the following pages.

1. Sample Delivery Group Number 2412-206

1.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of SDG number 2412-206, dated 30 December 2024. Samples were collected, preserved, and shipped following standard chain of custody (COC) protocols. Samples were also received appropriately, identified correctly, and analyzed according to the COC.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Date	Matrix	Methods
HA-W-05-20241212	N	2412-206-01	12/12/2024	WS	A, B, C, D, E, F, G, H, I
HA-W-04-20241212	N	2412-206-02	12/12/2024	WS	A, B, C, D, E, F, G, H, I
HA-W-02-20241212	N	2412-206-03	12/12/2024	WS	A, B, C, D, E, F, G, H, I
HA-PW-01-20241212	N	2412-206-04	12/12/2024	WS	A, B, C, D, E, F, G, H, I
HA-W-01-20241212	N	2412-206-05	12/12/2024	WS	A, B, C, D, E, F, G, H, I
FD-01-20241212	FD	2412-206-06	12/12/2024	WS	A, B, C, D, E, F, G, H, I

Method Holding Times			
A.	E200.8	Metals (by Mass Spectrometer)	180 days for liquid, preserved
B.	NWTPH-DX	Total Petroleum Hydrocarbons (TPH) Total Diesel	14 days for solid unpreserved, 14 days for liquid, preserved 7 days for liquid unpreserved
C.	NWTPH-GX	Total Petroleum Hydrocarbons (TPH) Total Gasoline	14 days for solid unpreserved, 14 days for liquid, preserved 7 days for liquid unpreserved
D.	SM2340B	Hardness	180 days for liquid unpreserved
E.	SM2540D	Total Suspended Solids	7 days for liquid unpreserved
F.	SW7470A	Mercury (in Liquids)	28 days for liquid, preserved
G.	SW8260D	Volatile Organic Compounds (VOCs)	14 days for solid, preserved 14 days for solid unpreserved, 14 days for liquid, preserved 7 days for liquid unpreserved
H.	SW8270E	Semi-volatile Organic Compounds (SVOCs)	14 days extraction / 40 days analysis for solid, unpreserved, 7 days extraction / 40 days analysis for liquid, unpreserved
I.	SW8270ESIM	Semi-volatile Organic Compounds (SVOCs)	7 days extraction / 40 days analysis for liquid, unpreserved

1.2 HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified per method protocol.

1.3 REPORTING LIMITS AND SAMPLE DILUTIONS

All sample dilutions were reviewed and found to be justified. Any non-detects with elevated reported limits are noted and explained below.

Sample ID	Lab ID	Analyte/ Method	Dilution Factor	Issue/Explanation
HA-W-01	12-206-05	NWTPH-Dx	2x	Dilution required due to limited sample volume

1.4 SURROGATE RECOVERY COMPLIANCE

Refer to Section E 1.2. The percent recovery (%R) for each surrogate compound added to each project sample were determined to be within the laboratory-specified quality control (QC) limits,

1.5 LABORATORY CONTROL SAMPLES

Refer to Section E 1.3. Compounds associated with the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses associated with client samples exhibited recoveries and relative percent differences (RPDs) within the specified limits, with the following exceptions:

Sample Type	Method	Batch ID	Analyte	%R/RPD	Qualifier	Affected Samples
LCS/LCSD	SW8270E	SB1217W1	n-Nitrosodimethylamine	RPD=25	J/None	None, samples are non-detect (ND)
			1,3-Dichlorobenzene	RPD=31	J/None	None, samples are ND
			1,4-Dichlorobenzene	RPD=30	J/None	None, samples are ND

1.6 MATRIX SPIKE SAMPLES

Refer to Section E 1.4. The sample(s) below were used for matrix spike/matrix spike duplicate (MS/MSD). The MS/MSD recoveries and the RPD between the MS and MSD results were within the specified limits.

Lab Sample Number	Matrix Spike/Matrix Spike Duplicate Sample Client ID	Method(s)
2412-206-02	HA-W-04-20241212	E200.8
2412-206-01	HA-W-05-20241212	SW7470A

1.7 BLANK SAMPLE ANALYSIS

Refer to Section E 1.5. Method blank samples had no detections, indicating that no contamination from laboratory activities occurred.

1.8 DUPLICATE SAMPLE ANALYSIS

Refer to Section E 1.6. The following sample(s) were used for laboratory duplicate analysis and the RPDs were all below 20 percent (or the absolute difference rule was satisfied if detects were less than 5 times the RL).

Lab Sample Number	Laboratory Duplicate Sample Client ID	Method(s)
2412-206-02	HA-W-04-20241212	E200.8
2412-206-01	HA-W-05-20241212	SW7470A

The following sample(s) were used for field duplicate analysis. RPDs were all below 35 percent for water samples (or the absolute difference rule was satisfied if detects were less than 5 times the RL).

Primary Sample ID	Duplicate Sample ID	Method(s)
HA-W-02-20241212	FD-01-20241212	E200.8, NWTPH-DX, NWTPH-GX, SM 2340B, SM 2540D, EPA 7470A, USEPA 8260D, USEPA 8270E, USEPA 8270ESIM

1.9 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the DQOs for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable, as no data was rejected. No qualifiers were applied to any data in this report.

2. Precision and Accuracy [for SDG(s) above]

Refer to Section E 1.7. Where required by the method, some measurement of analytical accuracy and precision was reported for each method with the site samples.

3. Explanations

The following explanations include more detailed information regarding each of the sections in the DUSR above. Not all sections in the Explanations are represented:

- E 1.2 Surrogate Recovery Compliance
  - Surrogates, also known as system monitoring compounds, are compounds added to each sample prior to sample preparation to determining the efficiency of the extraction procedure by evaluating the %R of the compounds.
- E 1.3 Laboratory Control Samples
  - The LCS/LCSD analyses are used to assess the precision and accuracy of the analytical method independent of matrix interferences.
- E 1.4 Matrix Spike Samples
  - MS/MSD data are used to assess the precision and accuracy of the analytical method and evaluate the effects of the sample matrix on the sample preparation procedures and measurement methodologies.
  - For inorganic methods, when a matrix spike recovery falls outside of the control limits and the sample result is less than four times the spike added, a post-digestion spike (PDS) is performed.
- E 1.5 Blank Sample Analysis
  - Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination.
- E 1.6 Laboratory and Field Duplicate Sample Analysis
  - The laboratory duplicate sample analysis is used by the laboratory at the time of the analysis to demonstrate acceptable method precision. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
  - The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
- E 1.7 Precision and Accuracy
  - Precision measures the reproducibility of repetitive measurements. In a laboratory environment, this will be measured by determining the RPD found between a primary and a duplicate sample. This can be an LCS/LCSD pair, a MS/MSD pair, a laboratory duplicate performed on a site sample, or a field duplicate collected and analyzed concurrently with a site sample.
  - Accuracy is a statistical measurement of the correctness of a measured value and includes components of random error (variability caused by imprecision) and systematic error. In a laboratory environment, this will be measured by determining the %R of certain spiked compounds. This can be assessed using LCS, blank spike (BS), MS, and/or surrogate recoveries.

4. Glossary

Not all of the following symbols, acronyms, or qualifiers occur in this document.

- Sample Types:
  - EB Equipment Blank Sample
  - FB Field Blank Sample
  - FD Field Duplicate Sample
  - N Primary Sample
  - TB Trip Blank Sample
- Units:
  - µg/kg micrograms per kilogram
  - µg/L micrograms per liter
  - µg/m^3 micrograms per cubic meter
  - mg/kg milligrams per kilogram
  - mg/L milligrams per liter
  - ppb v/v parts per billion volume/volume
  - pCi/L picocuries per liter
  - pg/g picograms per gram
- Matrices:
  - AA Ambient Air
  - GS Soil Gas
  - GW/WG Groundwater
  - QW Water Quality
  - IA Indoor Air
  - SE Sediment
  - SO Soil
  - SSV Sub-slab Vapor
  - WQ Water Quality control matrix
  - WS Surface Water
- Table Footnotes:
  - NA Not applicable
  - ND Non-detect
  - NR Not reported
- Common Symbols:
  - % percent
  - < less than
  - ≤ less than or equal to
  - > greater than
  - ≥ greater than or equal to
  - = equal
  - °C degrees Celsius
  - ± plus or minus
  - ~ approximately
  - x times (multiplier)

- Fractions:
  - N Normal (method cannot be filtered)
  - D Dissolved (filtered)
  - T Total (unfiltered)

5. Abbreviations

%D	Percent Difference
%R	Percent Recovery
%RSD	Percent Relative Standard Deviation
%v/v	Percent volume by volume
2s	2 sigma
4,4-DDT	4 4-dichlorodiphenyltrichloroethane
Abs Diff	Absolute Difference
amu	atomic mass unit
BPJ	Best Professional Judgement
BS	Blank Spike
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CCVL	Continuing Calibration Verification Low
COC	Chain of Custody
COM	Combined Isotope Calculation
Cr (VI)	Hexavalent Chromium
CRI	Collision Reaction Interface
DoD	Department of Defense
DQO	data quality objective
DUSR	Data Usability Summary Report
EIS	Extraction Internal Standard
EMPC	Estimated Maximum Possible Concentration
FBK	Field Blank Contamination
FDP	Field Duplicate
GC	Gas Chromatograph
GC/MS	Gas Chromatography/Mass Spectrometry
GPC	Gel Permeation Chromatography
H_2	Hydrogen gas
HCl	Hydrochloric Acid
ICAL	Initial Calibration
ICB	Initial Calibration Blank
ICP/MS	Inductively Coupled Plasma/Mass Spectrometry
ICV	Initial Calibration Verification
ICVL	Initial Calibration Verification Low
IPA	Isopropyl Alcohol
LC	Laboratory Control
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate
MBK	Method Blank Contamination
MDC	Minimum Detectable Concentration
MDL	Laboratory Method Detection Limit
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NA	not applicable
ND	Non-Detect
NFG	National Functional Guidelines
NH_3	Ammonia
NYSDEC	New York State Department of Environmental Conservation
PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated Biphenyl
PDS	Post-Digestion Spike
PEM	Performance Evaluation Mixture
PFAS	Per- and Polyfluoroalkyl Substances
PFBA	Perfluorbutanoic Acid
PFD	Perfluorodecalin
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctane sulfonate
PFPeA	Perfluoropentanoic Acid
QAPP	Quality Assurance Project Plan
QC	Quality Control
QSM	Quality Systems Manual
R^2	R-squared value
Ra-226	Radium-226
Ra-228	Radium-228
RESC	Resolution Check Measure
RL	Laboratory Reporting Limit
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SAP	Sampling Analysis Plan
SDG	Sample Delivery Group
SIM	Selected ion monitoring
SOP	Standard Operating Procedure
SPE	Solid-Phase Extraction
SVOC	Semi-Volatile Organic Compound
TCLP	Toxicity Characteristic Leaching Procedure
TIC	Tentatively Identified Compound
TKN	Total Kjeldahl Nitrogen
TPH	Total Petroleum Hydrocarbon
TPU	Total Propagated Uncertainty
USEPA	U.S. Environmental Protection Agency
VOC	Volatile Organic Compound
WP	Work Plan

6. Qualifiers

The qualifiers below are from the USEPA National Functional Guidelines and the data in the DUSR may contain these qualifiers:

- Concentration (C) Qualifiers:

  U — The compound was analyzed for but not detected. The associated value is either the compound quantitation limit if not detected by the analytical instrument or could be the reported or blank concentration if qualified by blank contamination. This can also be displayed as less than the associated compound quantitation limit (<RL or <MDL), or "ND".

  B — The compound was found in the sample and its associated blank. Its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers:

  E — The compound was quantitated above the calibration range.

  D — The concentration is based on a diluted sample analysis.

- Validation Qualifiers:

  J — The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  J+ — The result is an estimated quantity, but the result may be biased high.

  J- — The result is an estimated quantity, but the result may be biased low.

  J/UJ — as listed in exception tables J applies to detected data and UJ applies to non-detected data as reported by the laboratory.

  UJ — The compound was not detected above the reported sample quantitation limit; however, the reported limit is estimated and may or may not represent the actual limit of quantitation.

  NJ — The analysis indicated the presence of a compound for which there is presumptive evidence to make a tentative identification; the associated numerical value is an estimated concentration only.

  R — The sample results were rejected as unusable; the compound may or may not be present in the sample.

  S — Result is suspect. See DUSR for details.

References

1. United States Environmental Protection Agency, 2020a. National Functional Guidelines for Inorganic Superfund Methods Data Review. EPA-542-R-20-006. November.

2. United States Environmental Protection Agency, 2020b. National Functional Guidelines for Organic Superfund Methods Data Review. EPA-540-R-20-005. November.

APPENDIX E
Site-Specific MTCA Method C TPH Cleanup Levels

A3.1A Worksheet for Calculating TPH Soil Cleanup Levels (based on noncancer effects) for Protection of Human Health: Soil Direct Contact Pathway - Exposure via Combined Incidental Soil Ingestion and Dermal Contact
Method C: Industrial Land Use (WAC 173-340-745)

Date: 01/10/24
Site Name: Treoil
Sample Name: B-07

Soil Method C (noncancer)

Chemical of Concern or EC group	Measured Sample Concentration					DIRECT CONTACT - MEASURED SAMPLE CONCENTRATION
		Noncancer Hazards				
	Measured Soil Conc @dry basis	Noncancer HQ MTCA Eq. 745-4 (1)	Percent Contribution to the Total HI	Noncancer Exceedances (2)	Noncancer-based Concentration @ HQ 1	**Measured TPH Soil Conc, mg/kg = 1325.14**
		unitless	percent		mg/kg	**HI =** 1.9E-02 **Pass**
Petroleum EC Fraction						**MTCA Eq. 745-3** (1)
AL_EC >5-6	0					**TPH Cleanup Level (mg/kg) (HI = 1) = 70496.07**
AL_EC >6-8	0					**2 Significant Figures = 70000**
AL_EC >8-10	0					**Check Residual Saturation (WAC 340-747(10))**
AL_EC >10-12	0					The overall TPH Method C direct contact protective cleanup level is based on a noncancer HI of 1. *See* WAC 173-340-745(5)(b)(iii)(B)(III). The TPH Cleanup Level at 2 significant figures is considered to be sufficiently protective even though in some cases it may slightly exceed an HI of 1.0.
AL_EC >12-16	13.9	9.56E-04	5.1%			
AL_EC >16-21	229	5.25E-05	0.3%			***To assess the vapor pathway for petroleum mixtures, see Ecology's Guidance for Evaluating Soil VI in WA State (click on this link).***
AL_EC >21-34	649	1.49E-04	0.8%			
AR_EC >8-10	3.08	2.12E-05	0.1%			
AR_EC >10-12	2.46	8.46E-05	0.4%			
AR_EC >12-16	5.44	1.63E-05	0.1%			
AR_EC >16-21	126	6.30E-03	33.5%			
AR_EC >21-34	294	1.10E-02	58.7%			
Benzene	0.094	1.18E-05	0.1%		8,000	
Toluene	0.46	3.74E-06	0.0%		120,000	
Ethylbenzene	0.32	2.12E-06	0.0%		150,000	
Total Xylenes	0.32	1.06E-06	0.0%		300,000	
Naphthalene	0.25	1.54E-05	0.1%		16,000	
1-Methyl Naphthalene	0.32	5.62E-06	0.0%		57,000	
2-Methyl Naphthalene	0.5	1.54E-04	0.8%		3,300	
n-Hexane	0					
MTBE	0					
Ethylene Dibromide (EDB)	0					
1,2 Dichloroethane (EDC)	0					
Benzo(a)anthracene	0					
Benzo(b)fluoranthene	0					
Benzo(k)fluoranthene	0					
Benzo(a)pyrene	0	*see Note (3)*				
Chrysene	0					
Dibenz(a,h)anthracene	0					
Indeno(1,2,3-cd)pyrene	0					
Sum	**1325.144**	1.88E-02	100%	HI ≤ 1		

Notes:

(1) Default exposure assumptions provided in the MTCA Rule for Equations 745-3 and -4 were used in combination with the values provided in the Chemical Database worksheet. Supporting information for the Chemical Database is contained in Ecology's CLARC Guidance titled: *Toxicity Data and Physical/Chemical Properties for Petroleum Mixtures. Revised July 2023.*

(2) Noncancer results for the petroleum mixture that exceed a hazard index (HI) of 1 "Fail" compliance with Method C cleanup requirements and are not sufficiently protective. Note that the TPH Cleanup Level at 2 significant figures is considered to be sufficiently protective even though in some cases it may slightly exceed an HI of 1.0.

(3) Benzo(a)pyrene has an oral RfD in EPA's IRIS; however, since it's not sufficiently volatile, it's not included in the noncancer HI and the overall TPH cleanup level (173-340-745(5)(b)(iii)(B)(III)). cPAHs are accounted for in the cancer risk calculations (*see* worksheet A3.1B).

APPENDIX F
Terrestrial Ecological Evaluation

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife	B-01 B-01-S1 08/08/2023 2.5 - 5 (ft)	B-01 B-01-S2 08/08/2023 7.5 - 10 (ft)	B-02 B-02-S2 08/07/2023 7.5 - 10 (ft)	B-03 B-03-S1 08/07/2023 2.5 - 5 (ft)	B-03 B-03-S2 08/07/2023 7.5 - 10 (ft)
Volatile Organic Compounds (mg/kg)						
1,1,1-Trichloroethane	260 [b]	0.041 UJ	-	0.04 UJ	0.038 UJ	-
1,1-Dichloroethene	11 [b]	0.041 UJ	-	0.04 UJ	0.038 UJ	-
1,2,3-Trichlorobenzene	NA	0.046 J	-	0.088 J	0.078 J	-
1,2,4-Trichlorobenzene	0.27 [b]	0.083 UJ	-	0.051 J	0.076 UJ	-
1,2,4-Trimethylbenzene	NA	0.041 UJ	-	0.04 UJ	0.038 UJ	-
1,2-Dibromoethane (Ethylene Dibromide)	NA	0.021 UJ	-	0.02 UJ	0.019 UJ	-
1,2-Dichlorobenzene	0.92 [b]	0.041 UJ	-	0.04 UJ	0.038 UJ	-
1,3,5-Trimethylbenzene	NA	0.041 UJ	-	0.04 UJ	0.038 UJ	-
2-Phenylbutane (sec-Butylbenzene)	NA	0.041 UJ	-	0.01 J	0.0089 J	-
Benzene	24 [b]	0.021 UJ	-	0.02 UJ	0.019 UJ	-
Chloroform (Trichloromethane)	8 [b]	0.021 UJ	-	0.02 UJ	0.019 UJ	-
Cymene (p-Isopropyltoluene)	NA	0.041 UJ	-	0.012 J	0.011 J	-
Ethylbenzene	5.16 [b]	0.041 UJ	-	0.04 UJ	0.038 UJ	-
Isopropylbenzene (Cumene)	NA	0.041 UJ	-	0.04 UJ	0.038 UJ	-
m,p-Xylenes	1.4 [b]	0.041 UJ	-	0.04 UJ	0.038 UJ	-
Methylene chloride (Dichloromethane)	2.6 [b]	0.26 UJ	-	0.25 UJ	0.24 UJ	-
Naphthalene	3.4 [b]	0.16 UJ	-	0.15 UJ	0.14 UJ	-
n-Butylbenzene	NA	0.041 UJ	-	0.03 J	0.02 J	-
n-Propylbenzene	NA	0.041 UJ	-	0.04 UJ	0.038 UJ	-
o-Xylene	1.4 [b]	0.041 UJ	-	0.04 UJ	0.038 UJ	-
Styrene	NA	0.041 UJ	-	0.04 UJ	0.038 UJ	-
Tetrachloroethene	0.18 [b]	0.041 UJ	-	0.04 UJ	0.038 UJ	-
Toluene	23 [b]	0.062 UJ	-	0.059 UJ	0.057 UJ	-
Trichlorofluoromethane (CFC-11)	16.4 [b]	0.083 UJ	-	0.079 UJ	0.076 UJ	-
Xylene (Total)	1.4 [b]	-	-	-	-	-

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife		B-01 B-01-S1 08/08/2023 2.5 - 5 (ft)	B-01 B-01-S2 08/08/2023 7.5 - 10 (ft)	B-02 B-02-S2 08/07/2023 7.5 - 10 (ft)	B-03 B-03-S1 08/07/2023 2.5 - 5 (ft)	B-03 B-03-S2 08/07/2023 7.5 - 10 (ft)
Semi-Volatile Organic Compounds (mg/kg)							
1-Methylnaphthalene	NA		0.035 UJ	-	0.033 UJ	0.035 UJ	-
2,4-Dimethylphenol	NA		0.23 UJ	-	0.22 UJ	0.23 UJ	-
2-Methylnaphthalene	16	[b]	0.058 UJ	-	0.056 UJ	0.058 UJ	-
2-Methylphenol (o-Cresol)	580	[b]	0.17 UJ	-	0.17 UJ	0.17 UJ	-
3&4-Methylphenol	3.49	[b]	0.23 UJ	-	0.22 UJ	0.23 UJ	-
3/4-Methylphenols (p/m-Cresol) A	3.49	[b]	-	-	-	-	-
3-Nitroaniline	NA		0.35 UJ	-	0.33 UJ	0.35 UJ	-
Acenaphthene	130	[b]	0.046 UJ	-	0.045 UJ	0.047 UJ	-
Acenaphthylene	130	[b]	0.029 UJ	-	0.028 UJ	0.029 UJ	-
Anthracene	210	[b]	0.069 UJ	-	0.067 UJ	0.07 UJ	-
Benzo(a)anthracene	0.73	[b]	0.046 UJ	-	0.045 UJ	0.047 UJ	-
Benzo(a)pyrene	12	[a]	0.069 UJ	-	0.067 UJ	0.07 UJ	-
Benzo(b)fluoranthene	44	[b]	0.046 UJ	-	0.045 UJ	0.047 UJ	-
Benzo(g,h,i)perylene	NA		0.069 UJ	-	0.067 UJ	0.07 UJ	-
Benzo(k)fluoranthene	71	[b]	0.069 UJ	-	0.067 UJ	0.07 UJ	-
Benzoic acid	1	[b]	4.6 UJ	-	4.5 UJ	4.7 UJ	-
Benzyl Alcohol	120	[b]	1.2 UJ	-	1.1 UJ	1.2 UJ	-
bis(2-Ethylhexyl)phthalate	0.02	[b]	**0.23 J-**	-	0.67 UJ	0.7 UJ	-
Butyl benzylphthalate (BBP)	90	[b]	0.23 UJ	-	0.22 UJ	0.23 UJ	-
Carbazole	79	[b]	0.17 UJ	-	0.17 UJ	0.17 UJ	-
Chrysene	3.1	[b]	0.069 UJ	-	0.067 UJ	0.07 UJ	-
Dibenz(a,h)anthracene	14	[b]	0.058 UJ	-	0.056 UJ	0.058 UJ	-
Dibenzofuran	NA		0.17 UJ	-	0.17 UJ	0.17 UJ	-
Dimethyl phthalate	38	[b]	0.17 UJ	-	0.17 UJ	0.17 UJ	-
Di-n-butylphthalate (DBP)	0.011	[b]	0.58 UJ	-	0.56 UJ	**0.27 J-**	-
Di-n-octyl phthalate (DnOP)	0.91	[b]	0.17 UJ	-	0.17 UJ	0.17 UJ	-
Fluoranthene	22	[b]	0.046 UJ	-	0.045 UJ	0.047 UJ	-
Fluorene	250	[b]	0.029 UJ	-	0.028 UJ	0.029 UJ	-
Indeno(1,2,3-cd)pyrene	71	[b]	0.046 UJ	-	0.045 UJ	0.047 UJ	-
m & p- Cresol	3.49	[b]	-	-	-	-	-
Naphthalene	3.4	[b]	0.029 UJ	-	0.028 UJ	0.029 UJ	-
N-Nitrosodiphenylamine	0.545	[b]	0.069 UJ	-	0.067 UJ	0.07 UJ	-
Pentachlorophenol	4.5	[a]	0.46 UJ	-	0.45 UJ	0.47 UJ	-
Phenanthrene	11	[b]	0.069 UJ	-	0.067 UJ	0.07 UJ	-
Phenol	37	[b]	0.17 UJ	-	0.17 UJ	0.17 UJ	-
Pyrene	23	[b]	0.069 UJ	-	0.067 UJ	0.07 UJ	-
Total Petroleum Hydrocarbons (mg/kg)							
Total Petroleum Hydrocarbons (C10-C24), DRO Silica-Gel Cleanup	6000	[a]	-	-	-	-	-
Total Petroleum Hydrocarbons (C24-C36), MRO Silica-Gel Cleanup	NA		-	-	-	-	-
VPH (mg/kg)							
Pentane	NA		1.05 U	-	0.922 U	0.927 U	-

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife		B-01 B-01-S1 08/08/2023 2.5 - 5 (ft)	B-01 B-01-S2 08/08/2023 7.5 - 10 (ft)	B-02 B-02-S2 08/07/2023 7.5 - 10 (ft)	B-03 B-03-S1 08/07/2023 2.5 - 5 (ft)	B-03 B-03-S2 08/07/2023 7.5 - 10 (ft)
Inorganic Compounds (mg/kg)							
Aluminum	NA		-	-	-	-	-
Antimony	0.27	[b]	-	-	-	-	-
Arsenic	132	[a]	6.4	-	7.2	5.4	-
Barium	102	[a]	-	-	-	-	-
Beryllium	21	[b]	-	-	-	-	-
Cadmium	14	[a]	0.25 J	-	0.24 J	0.22 J	-
Calcium	NA		-	-	-	-	-
Chromium	67	[a]	62	-	46	47	-
Cobalt	120	[b]	-	-	-	-	-
Copper	217	[a]	46 J	-	34 J	32 J	-
Iron	NA		-	-	-	-	-
Lead	118	[a]	5.6	-	4.8	4.2	-
Magnesium	NA		-	-	-	-	-
Manganese	1500	[a]	-	-	-	-	-
Mercury	5.5	[a]	0.16	-	0.058	0.065	-
Nickel	980	[a]	58	-	38	41	-
Potassium	NA		1500 J+	-	1400 J+	1100 J+	-
Selenium	0.3	[a]	-	-	-	-	-
Silver	14	[b]	-	-	-	-	-
Sodium	NA		380 J+	-	520 J+	380 J+	-
Thallium	0.42	[b]	-	-	-	-	-
Vanadium	7.8	[b]	-	-	-	-	-
Zinc	360	[a]	75	-	58	53	-

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife	B-04 B-04-S1 08/09/2023 2.5 - 5 (ft)	B-04 B-04-S2 08/09/2023 7.5 - 10 (ft)	B-05 B-05-S1 08/08/2023 1 - 2.5 (ft)	B-05 FD01 08/08/2023 1 - 2.5 (ft)	B-05 B-05-S2 08/08/2023 6 - 8 (ft)
Volatile Organic Compounds (mg/kg)						
1,1,1-Trichloroethane	260 [b]	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ
1,1-Dichloroethene	11 [b]	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ
1,2,3-Trichlorobenzene	NA	0.076 UJ	-	0.11 UJ	0.092 UJ	0.084 UJ
1,2,4-Trichlorobenzene	0.27 [b]	0.076 UJ	-	0.11 UJ	0.092 UJ	0.084 UJ
1,2,4-Trimethylbenzene	NA	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ
1,2-Dibromoethane (Ethylene Dibromide)	NA	0.019 UJ	-	0.027 UJ	0.023 UJ	0.021 UJ
1,2-Dichlorobenzene	0.92 [b]	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ
1,3,5-Trimethylbenzene	NA	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ
2-Phenylbutane (sec-Butylbenzene)	NA	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ
Benzene	24 [b]	0.019 UJ	-	0.027 UJ	0.023 UJ	0.021 UJ
Chloroform (Trichloromethane)	8 [b]	0.019 UJ	-	0.027 UJ	0.023 UJ	0.021 UJ
Cymene (p-Isopropyltoluene)	NA	0.038 UJ	-	0.033 J	0.046 UJ	0.042 UJ
Ethylbenzene	5.16 [b]	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ
Isopropylbenzene (Cumene)	NA	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ
m,p-Xylenes	1.4 [b]	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ
Methylene chloride (Dichloromethane)	2.6 [b]	0.24 UJ	-	0.34 UJ	0.29 UJ	0.26 UJ
Naphthalene	3.4 [b]	0.14 UJ	-	0.21 UJ	0.17 UJ	0.16 UJ
n-Butylbenzene	NA	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ
n-Propylbenzene	NA	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ
o-Xylene	1.4 [b]	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ
Styrene	NA	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ
Tetrachloroethene	0.18 [b]	0.038 UJ	-	0.055 UJ	0.046 UJ	0.042 UJ
Toluene	23 [b]	0.057 UJ	-	0.15 J	0.069 UJ	0.036 J
Trichlorofluoromethane (CFC-11)	16.4 [b]	0.076 UJ	-	0.11 UJ	0.092 UJ	0.084 UJ
Xylene (Total)	1.4 [b]	-	-	-	-	-

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife		B-04 B-04-S1 08/09/2023 2.5 - 5 (ft)	B-04 B-04-S2 08/09/2023 7.5 - 10 (ft)	B-05 B-05-S1 08/08/2023 1 - 2.5 (ft)	B-05 FD01 08/08/2023 1 - 2.5 (ft)	B-05 B-05-S2 08/08/2023 6 - 8 (ft)
Semi-Volatile Organic Compounds (mg/kg)							
1-Methylnaphthalene	NA		0.034 UJ	-	0.038 UJ	0.035 UJ	0.035 UJ
2,4-Dimethylphenol	NA		0.23 UJ	-	0.25 UJ	0.24 UJ	0.23 UJ
2-Methylnaphthalene	16	[b]	0.057 UJ	-	0.064 UJ	0.059 UJ	0.058 UJ
2-Methylphenol (o-Cresol)	580	[b]	0.17 UJ	-	0.19 UJ	0.18 UJ	0.18 UJ
3&4-Methylphenol	3.49	[b]	0.23 UJ	-	0.092 J-	0.24 UJ	0.045 J-
3/4-Methylphenols (p/m-Cresol) A	3.49	[b]	-	-	-	-	-
3-Nitroaniline	NA		0.34 UJ	-	0.38 UJ	0.35 UJ	0.35 UJ
Acenaphthene	130	[b]	0.046 UJ	-	0.051 UJ	0.047 UJ	0.047 UJ
Acenaphthylene	130	[b]	0.028 UJ	-	0.032 UJ	0.029 UJ	0.029 UJ
Anthracene	210	[b]	0.068 UJ	-	0.076 UJ	0.071 UJ	0.07 UJ
Benzo(a)anthracene	0.73	[b]	0.046 UJ	-	0.051 UJ	0.047 UJ	0.047 UJ
Benzo(a)pyrene	12	[a]	0.068 UJ	-	0.076 UJ	0.071 UJ	0.07 UJ
Benzo(b)fluoranthene	44	[b]	0.046 UJ	-	0.051 UJ	0.047 UJ	0.047 UJ
Benzo(g,h,i)perylene	NA		0.068 UJ	-	0.076 UJ	0.071 UJ	0.07 UJ
Benzo(k)fluoranthene	71	[b]	0.068 UJ	-	0.076 UJ	0.071 UJ	0.07 UJ
Benzoic acid	1	[b]	4.6 UJ	-	5.1 UJ	4.7 UJ	4.7 UJ
Benzyl Alcohol	120	[b]	1.1 UJ	-	1.3 UJ	1.2 UJ	1.2 UJ
bis(2-Ethylhexyl)phthalate	0.02	[b]	**0.25 J-**	-	0.76 UJ	0.71 UJ	0.7 UJ
Butyl benzylphthalate (BBP)	90	[b]	0.23 UJ	-	0.25 UJ	0.24 UJ	0.23 UJ
Carbazole	79	[b]	0.17 UJ	-	0.19 UJ	0.18 UJ	0.18 UJ
Chrysene	3.1	[b]	0.068 UJ	-	0.076 UJ	0.071 UJ	0.07 UJ
Dibenz(a,h)anthracene	14	[b]	0.057 UJ	-	0.064 UJ	0.059 UJ	0.058 UJ
Dibenzofuran	NA		0.17 UJ	-	0.19 UJ	0.18 UJ	0.18 UJ
Dimethyl phthalate	38	[b]	0.17 UJ	-	0.19 UJ	0.18 UJ	0.18 UJ
Di-n-butylphthalate (DBP)	0.011	[b]	0.57 UJ	-	0.64 UJ	0.59 UJ	0.58 UJ
Di-n-octyl phthalate (DnOP)	0.91	[b]	0.17 UJ	-	0.19 UJ	0.18 UJ	0.18 UJ
Fluoranthene	22	[b]	0.046 UJ	-	0.051 UJ	0.047 UJ	0.047 UJ
Fluorene	250	[b]	0.028 UJ	-	0.032 UJ	0.029 UJ	0.029 UJ
Indeno(1,2,3-cd)pyrene	71	[b]	0.046 UJ	-	0.051 UJ	0.047 UJ	0.047 UJ
m & p- Cresol	3.49	[b]	-	-	-	-	-
Naphthalene	3.4	[b]	0.0058 J-	-	0.0074 J-	0.029 UJ	0.029 UJ
N-Nitrosodiphenylamine	0.545	[b]	0.068 UJ	-	0.076 UJ	0.071 UJ	0.07 UJ
Pentachlorophenol	4.5	[a]	0.46 UJ	-	0.51 UJ	0.47 UJ	0.47 UJ
Phenanthrene	11	[b]	0.068 UJ	-	0.076 UJ	0.071 UJ	0.07 UJ
Phenol	37	[b]	0.17 UJ	-	0.19 UJ	0.18 UJ	0.18 UJ
Pyrene	23	[b]	0.068 UJ	-	0.076 UJ	0.071 UJ	0.07 UJ
Total Petroleum Hydrocarbons (mg/kg)							
Total Petroleum Hydrocarbons (C10-C24), DRO Silica-Gel Cleanup	6000	[a]	-	-	-	-	-
Total Petroleum Hydrocarbons (C24-C36), MRO Silica-Gel Cleanup	NA		-	-	-	-	-
VPH (mg/kg)							
Pentane	NA		0.844 U	-	1.26 U	1.98	-

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife		B-04 B-04-S1 08/09/2023 2.5 - 5 (ft)	B-04 B-04-S2 08/09/2023 7.5 - 10 (ft)	B-05 B-05-S1 08/08/2023 1 - 2.5 (ft)	B-05 FD01 08/08/2023 1 - 2.5 (ft)	B-05 B-05-S2 08/08/2023 6 - 8 (ft)
Inorganic Compounds (mg/kg)							
Aluminum	NA		-	-	-	-	-
Antimony	0.27	[b]	-	-	-	-	-
Arsenic	132	[a]	5.9	-	5.2	2.7	8
Barium	102	[a]	-	-	-	-	-
Beryllium	21	[b]	-	-	-	-	-
Cadmium	14	[a]	0.18 J	-	0.13 J	0.2 J	0.56 J
Calcium	NA		-	-	-	-	-
Chromium	67	[a]	53	-	39	38	60
Cobalt	120	[b]	-	-	-	-	-
Copper	217	[a]	35 J	-	13 J	22 J	44 J
Iron	NA		-	-	-	-	-
Lead	118	[a]	4	-	2.9 J	5.2 J	5.2
Magnesium	NA		-	-	-	-	-
Manganese	1500	[a]	-	-	-	-	-
Mercury	5.5	[a]	0.042	-	0.045 J+	0.04 J+	0.059 J+
Nickel	980	[a]	46	-	30	32	55
Potassium	NA		1100 J	-	720 J+	640 J+	1700 J+
Selenium	0.3	[a]	-	-	-	-	-
Silver	14	[b]	-	-	-	-	-
Sodium	NA		380	-	390 J	240 J	550
Thallium	0.42	[b]	-	-	-	-	-
Vanadium	7.8	[b]	-	-	-	-	-
Zinc	360	[a]	53	-	38	53	71

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife	B-05 B-05-S3 08/08/2023 12 - 14 (ft)	B-06 B-06-S1 08/08/2023 2.5 - 5 (ft)	B-06 B-06-S2 08/08/2023 7.5 - 10 (ft)	B-07 B-07-S1 08/09/2023 1 - 2.5 (ft)	B-07 B-07-S2 08/09/2023 7.5 - 10 (ft)
Volatile Organic Compounds (mg/kg)						
1,1,1-Trichloroethane	260 [b]	0.041 UJ	0.043 UJ	-	0.61 UJ	0.04 UJ
1,1-Dichloroethene	11 [b]	0.041 UJ	0.043 UJ	-	0.61 UJ	0.04 UJ
1,2,3-Trichlorobenzene	NA	0.082 UJ	0.086 UJ	-	1.2 UJ	0.081 UJ
1,2,4-Trichlorobenzene	0.27 [b]	0.082 UJ	0.086 UJ	-	1.2 UJ	0.081 UJ
1,2,4-Trimethylbenzene	NA	0.041 UJ	0.043 UJ	-	0.61 UJ	0.04 UJ
1,2-Dibromoethane (Ethylene Dibromide)	NA	0.02 UJ	0.021 UJ	-	0.3 UJ	0.02 UJ
1,2-Dichlorobenzene	0.92 [b]	0.041 UJ	0.043 UJ	-	0.61 UJ	0.04 UJ
1,3,5-Trimethylbenzene	NA	0.041 UJ	0.043 UJ	-	0.61 UJ	0.04 UJ
2-Phenylbutane (sec-Butylbenzene)	NA	0.041 UJ	0.043 UJ	-	0.61 UJ	0.04 UJ
Benzene	24 [b]	0.02 UJ	0.021 UJ	-	0.094 J	0.02 UJ
Chloroform (Trichloromethane)	8 [b]	0.02 UJ	0.021 UJ	-	0.3 UJ	0.02 UJ
Cymene (p-Isopropyltoluene)	NA	0.041 UJ	0.043 UJ	-	1.4 J	0.037 J
Ethylbenzene	5.16 [b]	0.041 UJ	0.043 UJ	-	0.61 UJ	0.04 UJ
Isopropylbenzene (Cumene)	NA	0.041 UJ	0.043 UJ	-	0.61 UJ	0.04 UJ
m,p-Xylenes	1.4 [b]	0.041 UJ	0.043 UJ	-	0.61 UJ	0.04 UJ
Methylene chloride (Dichloromethane)	2.6 [b]	0.25 UJ	0.27 UJ	-	3.8 UJ	0.25 UJ
Naphthalene	3.4 [b]	0.15 UJ	0.16 UJ	-	2.3 UJ	0.15 UJ
n-Butylbenzene	NA	0.041 UJ	0.043 UJ	-	0.61 UJ	0.04 UJ
n-Propylbenzene	NA	0.041 UJ	0.043 UJ	-	0.61 UJ	0.04 UJ
o-Xylene	1.4 [b]	0.041 UJ	0.043 UJ	-	0.61 UJ	0.04 UJ
Styrene	NA	0.041 UJ	0.043 UJ	-	0.61 UJ	0.04 UJ
Tetrachloroethene	0.18 [b]	0.041 UJ	0.043 UJ	-	0.61 UJ	0.04 UJ
Toluene	23 [b]	0.061 UJ	0.064 UJ	-	0.91 UJ	0.061 UJ
Trichlorofluoromethane (CFC-11)	16.4 [b]	0.082 UJ	0.086 UJ	-	1.2 UJ	0.081 UJ
Xylene (Total)	1.4 [b]	-	-	-	-	-

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife		B-05 B-05-S3 08/08/2023 12 - 14 (ft)	B-06 B-06-S1 08/08/2023 2.5 - 5 (ft)	B-06 B-06-S2 08/08/2023 7.5 - 10 (ft)	B-07 B-07-S1 08/09/2023 1 - 2.5 (ft)	B-07 B-07-S2 08/09/2023 7.5 - 10 (ft)
Semi-Volatile Organic Compounds (mg/kg)							
1-Methylnaphthalene	NA		0.034 UJ	0.035 UJ	-	0.61 U	0.035 U
2,4-Dimethylphenol	NA		0.23 UJ	0.23 UJ	-	4 U	0.23 U
2-Methylnaphthalene	16	[b]	0.056 UJ	0.059 UJ	-	1 U	0.058 U
2-Methylphenol (o-Cresol)	580	[b]	0.17 UJ	0.18 UJ	-	3 U	0.17 U
3&4-Methylphenol	3.49	[b]	0.23 UJ	0.23 UJ	-	1	0.23 U
3/4-Methylphenols (p/m-Cresol) A	3.49	[b]	-	-	-	-	-
3-Nitroaniline	NA		0.34 UJ	0.35 UJ	-	6.1 U	0.35 U
Acenaphthene	130	[b]	0.045 UJ	0.047 UJ	-	0.81 U	0.046 U
Acenaphthylene	130	[b]	0.028 UJ	0.029 UJ	-	0.5 U	0.029 U
Anthracene	210	[b]	0.068 UJ	0.07 UJ	-	1.2 U	0.07 U
Benzo(a)anthracene	0.73	[b]	0.045 UJ	0.047 UJ	-	0.81 U	0.046 U
Benzo(a)pyrene	12	[a]	0.068 UJ	0.07 UJ	-	1.2 U	0.07 U
Benzo(b)fluoranthene	44	[b]	0.045 UJ	0.047 UJ	-	0.81 U	0.046 U
Benzo(g,h,i)perylene	NA		0.068 UJ	0.07 UJ	-	1.2 U	0.07 U
Benzo(k)fluoranthene	71	[b]	0.068 UJ	0.07 UJ	-	1.2 U	0.07 U
Benzoic acid	1	[b]	4.5 UJ	4.7 UJ	-	81 U	4.6 U
Benzyl Alcohol	120	[b]	1.1 UJ	1.2 UJ	-	20 U	1.2 U
bis(2-Ethylhexyl)phthalate	0.02	[b]	0.68 UJ	0.7 UJ	-	12 U	0.7 U
Butyl benzylphthalate (BBP)	90	[b]	0.23 UJ	0.23 UJ	-	4 U	0.23 U
Carbazole	79	[b]	0.17 UJ	0.18 UJ	-	3 U	0.17 U
Chrysene	3.1	[b]	0.068 UJ	0.07 UJ	-	1.2 U	0.07 U
Dibenz(a,h)anthracene	14	[b]	0.056 UJ	0.059 UJ	-	1 U	0.058 U
Dibenzofuran	NA		0.17 UJ	0.18 UJ	-	3 U	0.17 U
Dimethyl phthalate	38	[b]	0.17 UJ	0.18 UJ	-	3 U	0.17 U
Di-n-butylphthalate (DBP)	0.011	[b]	0.56 UJ	0.59 UJ	-	10 U	0.58 U
Di-n-octyl phthalate (DnOP)	0.91	[b]	0.17 UJ	0.18 UJ	-	3 U	0.17 U
Fluoranthene	22	[b]	0.045 UJ	0.047 UJ	-	0.81 U	0.046 U
Fluorene	250	[b]	0.028 UJ	0.029 UJ	-	0.5 U	0.029 U
Indeno(1,2,3-cd)pyrene	71	[b]	0.045 UJ	0.047 UJ	-	0.81 U	0.046 U
m & p- Cresol	3.49	[b]	-	-	-	-	-
Naphthalene	3.4	[b]	0.028 UJ	0.029 UJ	-	0.5 U	0.029 U
N-Nitrosodiphenylamine	0.545	[b]	0.068 UJ	0.07 UJ	-	1.2 U	0.07 U
Pentachlorophenol	4.5	[a]	0.45 UJ	0.47 UJ	-	**5.8**	0.46 U
Phenanthrene	11	[b]	0.068 UJ	0.07 UJ	-	1.2 U	0.07 U
Phenol	37	[b]	0.17 UJ	0.18 UJ	-	3 U	0.17 U
Pyrene	23	[b]	0.068 UJ	0.07 UJ	-	1.2 U	0.07 U
Total Petroleum Hydrocarbons (mg/kg)							
Total Petroleum Hydrocarbons (C10-C24), DRO Silica-Gel Cleanup	6000	[a]	-	-	-	4700 J	-
Total Petroleum Hydrocarbons (C24-C36), MRO Silica-Gel Cleanup	NA		-	-	-	5100 J	-
VPH (mg/kg)							
Pentane	NA		-	0.944 U	-	1.91 U	-

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife		B-05 B-05-S3 08/08/2023 12 - 14 (ft)	B-06 B-06-S1 08/08/2023 2.5 - 5 (ft)	B-06 B-06-S2 08/08/2023 7.5 - 10 (ft)	B-07 B-07-S1 08/09/2023 1 - 2.5 (ft)	B-07 B-07-S2 08/09/2023 7.5 - 10 (ft)
Inorganic Compounds (mg/kg)							
Aluminum	NA		-	-	-	-	-
Antimony	0.27	[b]	-	-	-	-	-
Arsenic	132	[a]	6.7	4.7	-	2.4	4
Barium	102	[a]	-	-	-	-	-
Beryllium	21	[b]	-	-	-	-	-
Cadmium	14	[a]	0.33 J	0.15 J	-	0.39 J	0.18 J
Calcium	NA		-	-	-	-	-
Chromium	67	[a]	42	44	-	34	35
Cobalt	120	[b]	-	-	-	-	-
Copper	217	[a]	35 J	27 J	-	20 J	28 J
Iron	NA		-	-	-	-	-
Lead	118	[a]	3.9	3	-	5.3	4
Magnesium	NA		-	-	-	-	-
Manganese	1500	[a]	-	-	-	-	-
Mercury	5.5	[a]	0.047 J+	0.052 J+	-	0.037	0.059
Nickel	980	[a]	41	37	-	20	35
Potassium	NA		1500 J+	1200 J+	-	340 J	930 J
Selenium	0.3	[a]	-	-	-	-	-
Silver	14	[b]	-	-	-	-	-
Sodium	NA		510	330	-	290	360 J
Thallium	0.42	[b]	-	-	-	-	-
Vanadium	7.8	[b]	-	-	-	-	-
Zinc	360	[a]	55	51	-	50	47

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife	B-07 FD-02 08/09/2023 7.5 - 10 (ft)	B-08 B-08-S1 08/10/2023 3 - 5 (ft)	B-08 B-08-S2 08/10/2023 8 - 10 (ft)	B-09 B-09-S1 08/09/2023 2.5 - 5 (ft)	B-09 B-09-S2 08/09/2023 7.5 - 10 (ft)
Volatile Organic Compounds (mg/kg)						
1,1,1-Trichloroethane	260 [b]	0.038 UJ	0.041 UJ	-	0.043 UJ	-
1,1-Dichloroethene	11 [b]	0.038 UJ	0.041 UJ	-	0.043 UJ	-
1,2,3-Trichlorobenzene	NA	0.077 UJ	0.081 UJ	-	0.085 UJ	-
1,2,4-Trichlorobenzene	0.27 [b]	0.077 UJ	0.081 UJ	-	0.085 UJ	-
1,2,4-Trimethylbenzene	NA	0.038 UJ	0.041 UJ	-	0.043 UJ	-
1,2-Dibromoethane (Ethylene Dibromide)	NA	0.019 UJ	0.02 UJ	-	0.021 UJ	-
1,2-Dichlorobenzene	0.92 [b]	0.038 UJ	0.041 UJ	-	0.043 UJ	-
1,3,5-Trimethylbenzene	NA	0.038 UJ	0.041 UJ	-	0.043 UJ	-
2-Phenylbutane (sec-Butylbenzene)	NA	0.038 UJ	0.041 UJ	-	0.043 UJ	-
Benzene	24 [b]	0.019 UJ	0.02 UJ	-	0.021 UJ	-
Chloroform (Trichloromethane)	8 [b]	0.019 UJ	0.02 UJ	-	0.021 UJ	-
Cymene (p-Isopropyltoluene)	NA	0.038 UJ	0.041 UJ	-	0.043 UJ	-
Ethylbenzene	5.16 [b]	0.038 UJ	0.041 UJ	-	0.043 UJ	-
Isopropylbenzene (Cumene)	NA	0.038 UJ	0.041 UJ	-	0.043 UJ	-
m,p-Xylenes	1.4 [b]	0.038 UJ	0.041 UJ	-	0.043 UJ	-
Methylene chloride (Dichloromethane)	2.6 [b]	0.24 UJ	0.25 UJ	-	0.27 UJ	-
Naphthalene	3.4 [b]	0.14 UJ	0.15 UJ	-	0.16 UJ	-
n-Butylbenzene	NA	0.038 UJ	0.041 UJ	-	0.043 UJ	-
n-Propylbenzene	NA	0.038 UJ	0.041 UJ	-	0.043 UJ	-
o-Xylene	1.4 [b]	0.038 UJ	0.041 UJ	-	0.043 UJ	-
Styrene	NA	0.038 UJ	0.041 UJ	-	0.043 UJ	-
Tetrachloroethene	0.18 [b]	0.038 UJ	0.041 UJ	-	0.043 UJ	-
Toluene	23 [b]	0.057 UJ	0.061 UJ	-	0.064 UJ	-
Trichlorofluoromethane (CFC-11)	16.4 [b]	0.077 UJ	0.081 UJ	-	0.085 UJ	-
Xylene (Total)	1.4 [b]	-	-	-	-	-

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife		B-07 FD-02 08/09/2023 7.5 - 10 (ft)	B-08 B-08-S1 08/10/2023 3 - 5 (ft)	B-08 B-08-S2 08/10/2023 8 - 10 (ft)	B-09 B-09-S1 08/09/2023 2.5 - 5 (ft)	B-09 B-09-S2 08/09/2023 7.5 - 10 (ft)
Semi-Volatile Organic Compounds (mg/kg)							
1-Methylnaphthalene	NA		0.033 U	0.036 U	-	0.034 UJ	-
2,4-Dimethylphenol	NA		0.22 U	0.24 U	-	0.23 UJ	-
2-Methylnaphthalene	16	[b]	0.055 U	0.06 U	-	0.057 UJ	-
2-Methylphenol (o-Cresol)	580	[b]	0.16 U	0.18 U	-	0.17 UJ	-
3&4-Methylphenol	3.49	[b]	0.22 U	0.24 U	-	0.23 UJ	-
3/4-Methylphenols (p/m-Cresol) A	3.49	[b]	-	-	-	-	-
3-Nitroaniline	NA		0.33 U	0.36 U	-	0.34 UJ	-
Acenaphthene	130	[b]	0.044 U	0.048 U	-	0.046 UJ	-
Acenaphthylene	130	[b]	0.027 U	0.03 U	-	0.029 UJ	-
Anthracene	210	[b]	0.066 U	0.072 U	-	0.069 UJ	-
Benzo(a)anthracene	0.73	[b]	0.044 U	0.048 U	-	0.046 UJ	-
Benzo(a)pyrene	12	[a]	0.066 U	0.072 U	-	0.069 UJ	-
Benzo(b)fluoranthene	44	[b]	0.044 U	0.048 U	-	0.046 UJ	-
Benzo(g,h,i)perylene	NA		0.066 U	0.072 U	-	0.069 UJ	-
Benzo(k)fluoranthene	71	[b]	0.066 U	0.072 U	-	0.069 UJ	-
Benzoic acid	1	[b]	4.4 U	4.8 U	-	4.6 UJ	-
Benzyl Alcohol	120	[b]	1.1 U	1.2 U	-	1.1 UJ	-
bis(2-Ethylhexyl)phthalate	0.02	[b]	0.66 U	0.72 U	-	0.69 UJ	-
Butyl benzylphthalate (BBP)	90	[b]	0.22 U	0.24 U	-	0.23 UJ	-
Carbazole	79	[b]	0.16 U	0.18 U	-	0.17 UJ	-
Chrysene	3.1	[b]	0.066 U	0.072 U	-	0.069 UJ	-
Dibenz(a,h)anthracene	14	[b]	0.055 U	0.06 U	-	0.057 UJ	-
Dibenzofuran	NA		0.16 U	0.18 U	-	0.17 UJ	-
Dimethyl phthalate	38	[b]	0.16 U	0.18 U	-	0.17 UJ	-
Di-n-butylphthalate (DBP)	0.011	[b]	0.55 U	0.6 U	-	0.57 UJ	-
Di-n-octyl phthalate (DnOP)	0.91	[b]	0.16 U	0.18 U	-	0.17 UJ	-
Fluoranthene	22	[b]	0.044 U	0.048 U	-	0.046 UJ	-
Fluorene	250	[b]	0.027 U	0.03 U	-	0.029 UJ	-
Indeno(1,2,3-cd)pyrene	71	[b]	0.044 U	0.048 U	-	0.046 UJ	-
m & p- Cresol	3.49	[b]	-	-	-	-	-
Naphthalene	3.4	[b]	0.027 U	0.03 U	-	0.029 UJ	-
N-Nitrosodiphenylamine	0.545	[b]	0.066 U	0.072 U	-	0.069 UJ	-
Pentachlorophenol	4.5	[a]	0.44 U	0.48 U	-	0.46 UJ	-
Phenanthrene	11	[b]	0.066 U	0.072 U	-	0.069 UJ	-
Phenol	37	[b]	0.16 U	0.18 U	-	0.17 UJ	-
Pyrene	23	[b]	0.066 U	0.072 U	-	0.069 UJ	-
Total Petroleum Hydrocarbons (mg/kg)							
Total Petroleum Hydrocarbons (C10-C24), DRO Silica-Gel Cleanup	6000	[a]	-	-	-	-	-
Total Petroleum Hydrocarbons (C24-C36), MRO Silica-Gel Cleanup	NA		-	-	-	-	-
VPH (mg/kg)							
Pentane	NA		-	1.06 U	-	0.813 U	-

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife		B-07 FD-02 08/09/2023 7.5 - 10 (ft)	B-08 B-08-S1 08/10/2023 3 - 5 (ft)	B-08 B-08-S2 08/10/2023 8 - 10 (ft)	B-09 B-09-S1 08/09/2023 2.5 - 5 (ft)	B-09 B-09-S2 08/09/2023 7.5 - 10 (ft)
Inorganic Compounds (mg/kg)							
Aluminum	NA		-	-	-	-	-
Antimony	0.27	[b]	-	-	-	-	-
Arsenic	132	[a]	5.7	4.2	-	4.9	-
Barium	102	[a]	-	-	-	-	-
Beryllium	21	[b]	-	-	-	-	-
Cadmium	14	[a]	0.31 J	0.16 J	-	0.17 J	-
Calcium	NA		-	-	-	-	-
Chromium	67	[a]	50	41	-	35	-
Cobalt	120	[b]	-	-	-	-	-
Copper	217	[a]	37 J	33 J	-	28 J	-
Iron	NA		-	-	-	-	-
Lead	118	[a]	4.7	5	-	3.6	-
Magnesium	NA		-	-	-	-	-
Manganese	1500	[a]	-	-	-	-	-
Mercury	5.5	[a]	0.051	0.073	-	0.051	-
Nickel	980	[a]	46	40	-	36	-
Potassium	NA		1400 J	990 J	-	1000 J	-
Selenium	0.3	[a]	-	-	-	-	-
Silver	14	[b]	-	-	-	-	-
Sodium	NA		500 J	310	-	390	-
Thallium	0.42	[b]	-	-	-	-	-
Vanadium	7.8	[b]	-	-	-	-	-
Zinc	360	[a]	64	52	-	50	-

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife	B-10 B-10-S1 08/09/2023 2 - 3 (ft)	B-10 B-10-S2 08/09/2023 8 - 10 (ft)	B-11 B-11-S1 08/10/2023 1 - 2 (ft)	B-11 B-11-S2 08/10/2023 8 - 10 (ft)	B-12 B-12-S1 08/10/2023 2 - 4 (ft)
Volatile Organic Compounds (mg/kg)						
1,1,1-Trichloroethane	260 [b]	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ
1,1-Dichloroethene	11 [b]	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ
1,2,3-Trichlorobenzene	NA	0.077 UJ	0.091 UJ	0.078 UJ	-	0.08 UJ
1,2,4-Trichlorobenzene	0.27 [b]	0.077 UJ	0.091 UJ	0.078 UJ	-	0.08 UJ
1,2,4-Trimethylbenzene	NA	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ
1,2-Dibromoethane (Ethylene Dibromide)	NA	0.019 UJ	0.023 UJ	0.019 UJ	-	0.02 UJ
1,2-Dichlorobenzene	0.92 [b]	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ
1,3,5-Trimethylbenzene	NA	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ
2-Phenylbutane (sec-Butylbenzene)	NA	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ
Benzene	24 [b]	0.0061 J	0.005 J	0.019 UJ	-	0.02 UJ
Chloroform (Trichloromethane)	8 [b]	0.019 UJ	0.023 UJ	0.019 UJ	-	0.02 UJ
Cymene (p-Isopropyltoluene)	NA	0.039 UJ	0.045 UJ	0.017 J	-	0.04 UJ
Ethylbenzene	5.16 [b]	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ
Isopropylbenzene (Cumene)	NA	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ
m,p-Xylenes	1.4 [b]	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ
Methylene chloride (Dichloromethane)	2.6 [b]	0.24 UJ	0.28 UJ	0.24 UJ	-	0.25 UJ
Naphthalene	3.4 [b]	0.14 UJ	0.17 UJ	0.15 UJ	-	0.15 UJ
n-Butylbenzene	NA	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ
n-Propylbenzene	NA	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ
o-Xylene	1.4 [b]	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ
Styrene	NA	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ
Tetrachloroethene	0.18 [b]	0.039 UJ	0.045 UJ	0.039 UJ	-	0.04 UJ
Toluene	23 [b]	0.058 UJ	0.068 UJ	0.058 UJ	-	0.06 UJ
Trichlorofluoromethane (CFC-11)	16.4 [b]	0.077 UJ	0.091 UJ	0.078 UJ	-	0.08 UJ
Xylene (Total)	1.4 [b]	-	-	-	-	-

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife		B-10 B-10-S1 08/09/2023 2 - 3 (ft)	B-10 B-10-S2 08/09/2023 8 - 10 (ft)	B-11 B-11-S1 08/10/2023 1 - 2 (ft)	B-11 B-11-S2 08/10/2023 8 - 10 (ft)	B-12 B-12-S1 08/10/2023 2 - 4 (ft)
Semi-Volatile Organic Compounds (mg/kg)							
1-Methylnaphthalene	NA		0.033 UJ	0.037 UJ	0.033 U	-	0.032 U
2,4-Dimethylphenol	NA		0.22 UJ	0.25 UJ	0.22 U	-	0.21 U
2-Methylnaphthalene	16	[b]	0.055 UJ	0.062 UJ	0.055 U	-	0.053 U
2-Methylphenol (o-Cresol)	580	[b]	0.16 UJ	0.19 UJ	0.17 U	-	0.16 U
3&4-Methylphenol	3.49	[b]	0.22 UJ	0.25 UJ	0.22 U	-	0.21 U
3/4-Methylphenols (p/m-Cresol) A	3.49	[b]	-	-	-	-	-
3-Nitroaniline	NA		0.33 UJ	0.37 UJ	0.33 U	-	0.32 U
Acenaphthene	130	[b]	0.044 UJ	0.049 UJ	0.044 U	-	0.042 U
Acenaphthylene	130	[b]	0.027 UJ	0.031 UJ	0.028 U	-	0.026 U
Anthracene	210	[b]	0.066 UJ	0.074 UJ	0.066 U	-	0.063 U
Benzo(a)anthracene	0.73	[b]	0.044 UJ	0.049 UJ	0.044 U	-	0.042 U
Benzo(a)pyrene	12	[a]	0.066 UJ	0.074 UJ	0.066 U	-	0.063 U
Benzo(b)fluoranthene	44	[b]	0.044 UJ	0.049 UJ	0.044 U	-	0.042 U
Benzo(g,h,i)perylene	NA		0.066 UJ	0.074 UJ	0.066 U	-	0.063 U
Benzo(k)fluoranthene	71	[b]	0.066 UJ	0.074 UJ	0.066 U	-	0.063 U
Benzoic acid	1	[b]	4.4 UJ	4.9 UJ	4.4 U	-	4.2 U
Benzyl Alcohol	120	[b]	1.1 UJ	1.2 UJ	1.1 U	-	1.1 U
bis(2-Ethylhexyl)phthalate	0.02	[b]	**0.22 J-**	0.74 UJ	0.66 U	-	0.63 U
Butyl benzylphthalate (BBP)	90	[b]	0.22 UJ	0.25 UJ	0.22 U	-	0.21 U
Carbazole	79	[b]	0.16 UJ	0.19 UJ	0.17 U	-	0.16 U
Chrysene	3.1	[b]	0.066 UJ	0.074 UJ	0.066 U	-	0.063 U
Dibenz(a,h)anthracene	14	[b]	0.055 UJ	0.062 UJ	0.055 U	-	0.053 U
Dibenzofuran	NA		0.16 UJ	0.19 UJ	0.17 U	-	0.16 U
Dimethyl phthalate	38	[b]	0.16 UJ	0.19 UJ	0.17 U	-	0.16 U
Di-n-butylphthalate (DBP)	0.011	[b]	0.55 UJ	0.62 UJ	**0.061 J**	-	0.53 U
Di-n-octyl phthalate (DnOP)	0.91	[b]	0.16 UJ	0.19 UJ	0.17 U	-	0.16 U
Fluoranthene	22	[b]	0.044 UJ	0.049 UJ	0.044 U	-	0.042 U
Fluorene	250	[b]	0.027 UJ	0.031 UJ	0.028 U	-	0.026 U
Indeno(1,2,3-cd)pyrene	71	[b]	0.044 UJ	0.049 UJ	0.044 U	-	0.042 U
m & p- Cresol	3.49	[b]	-	-	-	-	-
Naphthalene	3.4	[b]	0.027 UJ	0.031 UJ	0.028 U	-	0.026 U
N-Nitrosodiphenylamine	0.545	[b]	0.066 UJ	0.074 UJ	0.066 U	-	0.063 U
Pentachlorophenol	4.5	[a]	0.44 UJ	0.49 UJ	0.44 U	-	0.42 U
Phenanthrene	11	[b]	0.066 UJ	0.074 UJ	0.066 U	-	0.063 U
Phenol	37	[b]	0.16 UJ	0.19 UJ	0.17 U	-	0.16 U
Pyrene	23	[b]	0.066 UJ	0.074 UJ	0.066 U	-	0.063 U
Total Petroleum Hydrocarbons (mg/kg)							
Total Petroleum Hydrocarbons (C10-C24), DRO Silica-Gel Cleanup	6000	[a]	-	-	-	-	-
Total Petroleum Hydrocarbons (C24-C36), MRO Silica-Gel Cleanup	NA		-	-	-	-	-
VPH (mg/kg)							
Pentane	NA		0.981 U	-	0.936 U	-	0.937 U

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife		B-10 B-10-S1 08/09/2023 2 - 3 (ft)	B-10 B-10-S2 08/09/2023 8 - 10 (ft)	B-11 B-11-S1 08/10/2023 1 - 2 (ft)	B-11 B-11-S2 08/10/2023 8 - 10 (ft)	B-12 B-12-S1 08/10/2023 2 - 4 (ft)
Inorganic Compounds (mg/kg)							
Aluminum	NA		-	-	-	-	-
Antimony	0.27	[b]	-	-	-	-	-
Arsenic	132	[a]	3.4	9.6	3.3	-	2.9
Barium	102	[a]	-	-	-	-	-
Beryllium	21	[b]	-	-	-	-	-
Cadmium	14	[a]	0.072 J	0.31 J	0.15 J	-	0.045 J
Calcium	NA		-	-	-	-	-
Chromium	67	[a]	30	58	30	-	27
Cobalt	120	[b]	-	-	-	-	-
Copper	217	[a]	14 J	45 J	16 J	-	11 J
Iron	NA		-	-	-	-	-
Lead	118	[a]	2.8	5.6	2.3	-	2.4
Magnesium	NA		-	-	-	-	-
Manganese	1500	[a]	-	-	-	-	-
Mercury	5.5	[a]	0.048	0.083	0.039	-	0.039
Nickel	980	[a]	29	53	29	-	22
Potassium	NA		600 J	1600 J	490 J	-	340 J
Selenium	0.3	[a]	-	-	-	-	-
Silver	14	[b]	-	-	-	-	-
Sodium	NA		240	410	290	-	210
Thallium	0.42	[b]	-	-	-	-	-
Vanadium	7.8	[b]	-	-	-	-	-
Zinc	360	[a]	26	70	26	-	17

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife	B-12 B-12-S2 08/10/2023 8 - 10 (ft)	S-01 S-01-20230808 08/08/2023 0 - 0.5 (ft)	S-02 S-02-20230808 08/08/2023 0 - 0.5 (ft)	S-03 S-03-20230807 08/07/2023 0 - 0.5 (ft)	S-04 S-04-20230808 08/08/2023 0 - 0.5 (ft)
Volatile Organic Compounds (mg/kg)						
1,1,1-Trichloroethane	260 [b]	-	0.048 U	0.038 U	0.05 U	-
1,1-Dichloroethene	11 [b]	-	0.048 U	0.038 U	0.05 U	-
1,2,3-Trichlorobenzene	NA	-	0.097 U	0.076 U	0.1 U	-
1,2,4-Trichlorobenzene	0.27 [b]	-	0.097 U	0.076 U	0.1 U	-
1,2,4-Trimethylbenzene	NA	-	0.21 J+	0.038 U	0.05 U	-
1,2-Dibromoethane (Ethylene Dibromide)	NA	-	0.024 U	0.019 U	0.025 U	-
1,2-Dichlorobenzene	0.92 [b]	-	0.048 U	0.038 U	0.05 U	-
1,3,5-Trimethylbenzene	NA	-	0.12 J+	0.038 U	0.05 U	-
2-Phenylbutane (sec-Butylbenzene)	NA	-	0.048 U	0.038 U	0.05 U	-
Benzene	24 [b]	-	0.024 U	0.019 U	0.025 U	-
Chloroform (Trichloromethane)	8 [b]	-	0.024 U	0.019 U	0.025 U	-
Cymene (p-Isopropyltoluene)	NA	-	0.025 J+	0.038 U	0.05 U	-
Ethylbenzene	5.16 [b]	-	0.033 J+	0.038 U	0.05 U	-
Isopropylbenzene (Cumene)	NA	-	0.027 J+	0.038 U	0.05 U	-
m,p-Xylenes	1.4 [b]	-	0.11 J+	0.038 U	0.05 U	-
Methylene chloride (Dichloromethane)	2.6 [b]	-	0.3 U	0.24 U	0.31 U	-
Naphthalene	3.4 [b]	-	2.2 J+	0.14 U	0.19 U	-
n-Butylbenzene	NA	-	0.048 U	0.038 U	0.05 U	-
n-Propylbenzene	NA	-	0.048 U	0.038 U	0.05 U	-
o-Xylene	1.4 [b]	-	0.13 J+	0.038 U	0.05 U	-
Styrene	NA	-	0.048 U	0.038 U	0.05 U	-
Tetrachloroethene	0.18 [b]	-	0.048 U	0.038 U	0.05 U	-
Toluene	23 [b]	-	0.044 J	0.057 U	0.075 U	-
Trichlorofluoromethane (CFC-11)	16.4 [b]	-	0.097 U	0.076 U	0.1 U	-
Xylene (Total)	1.4 [b]	-	-	-	-	-

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife		B-12 B-12-S2 08/10/2023 8 - 10 (ft)	S-01 S-01-20230808 08/08/2023 0 - 0.5 (ft)	S-02 S-02-20230808 08/08/2023 0 - 0.5 (ft)	S-03 S-03-20230807 08/07/2023 0 - 0.5 (ft)	S-04 S-04-20230808 08/08/2023 0 - 0.5 (ft)
Semi-Volatile Organic Compounds (mg/kg)							
1-Methylnaphthalene	NA		-	0.017 J	0.031 U	0.047	0.032 U
2,4-Dimethylphenol	NA		-	0.22 U	0.2 U	1.6	0.21 U
2-Methylnaphthalene	16	[b]	-	0.017 J	0.051 U	0.039 J	0.053 U
2-Methylphenol (o-Cresol)	580	[b]	-	0.042 J	0.15 U	0.7	0.16 U
3&4-Methylphenol	3.49	[b]	-	0.078 J	0.2 U	2.1	0.21 U
3/4-Methylphenols (p/m-Cresol) A	3.49	[b]	-	-	-	-	-
3-Nitroaniline	NA		-	0.33 U	0.31 U	-	0.32 U
Acenaphthene	130	[b]	-	0.07	0.018 J	0.19 J	0.043 U
Acenaphthylene	130	[b]	-	0.027 U	0.026 U	0.023 J	0.027 U
Anthracene	210	[b]	-	0.19	0.06 J	3.3 J	0.064 U
Benzo(a)anthracene	0.73	[b]	-	**1.3 J**	0.69	**13**	0.014 J
Benzo(a)pyrene	12	[a]	-	0.8	0.34	9.4	0.064 U
Benzo(b)fluoranthene	44	[b]	-	1.4	0.82	13	0.043 U
Benzo(g,h,i)perylene	NA		-	0.14	0.081	3.5 J	0.064 U
Benzo(k)fluoranthene	71	[b]	-	0.066 U	0.061 U	6.5 J	0.064 U
Benzoic acid	1	[b]	-	**1.4 J**	4.1 U	**1.5 J**	4.3 U
Benzyl Alcohol	120	[b]	-	1.1 U	1 U	0.2 J	1.1 U
bis(2-Ethylhexyl)phthalate	0.02	[b]	-	**13 J**	**0.97**	**3 J**	0.64 U
Butyl benzylphthalate (BBP)	90	[b]	-	4.1 J	0.2 U	0.22 U	0.21 U
Carbazole	79	[b]	-	0.31	0.097 J	1.5	0.16 U
Chrysene	3.1	[b]	-	1.7 J	0.78	**14**	0.017 J
Dibenz(a,h)anthracene	14	[b]	-	0.055 U	0.051 U	1.5 J	0.053 U
Dibenzofuran	NA		-	0.033 J	0.0075 J	0.16 J	0.16 U
Dimethyl phthalate	38	[b]	-	0.16 U	0.15 U	0.17 U	0.16 U
Di-n-butylphthalate (DBP)	0.011	[b]	-	0.55 U	0.51 U	0.56 U	**0.53 U**
Di-n-octyl phthalate (DnOP)	0.91	[b]	-	0.16 U	0.15 U	0.17 U	0.16 U
Fluoranthene	22	[b]	-	2.9	1.2	22	0.023 J
Fluorene	250	[b]	-	0.065	0.012 J	0.24 J	0.027 U
Indeno(1,2,3-cd)pyrene	71	[b]	-	0.19	0.098	4.3 J	0.043 U
m & p- Cresol	3.49	[b]	-	-	-	-	-
Naphthalene	3.4	[b]	-	0.029	0.0058 J	0.06	0.027 U
N-Nitrosodiphenylamine	0.545	[b]	-	0.066 U	0.061 U	0.067 U	0.064 U
Pentachlorophenol	4.5	[a]	-	0.44 U	0.41 U	0.44 U	0.43 U
Phenanthrene	11	[b]	-	1.1	0.36	**14**	0.014 J
Phenol	37	[b]	-	0.16 U	0.15 U	0.26	0.16 U
Pyrene	23	[b]	-	2.3	1.1	20	0.017 J
Total Petroleum Hydrocarbons (mg/kg)							
Total Petroleum Hydrocarbons (C10-C24), DRO Silica-Gel Cleanup	6000	[a]	-	2400 J	-	400 J	-
Total Petroleum Hydrocarbons (C24-C36), MRO Silica-Gel Cleanup	NA		-	2800 J	-	800 J	-
VPH (mg/kg)							
Pentane	NA		-	-	-	-	-

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife		B-12 B-12-S2 08/10/2023 8 - 10 (ft)	S-01 S-01-20230808 08/08/2023 0 - 0.5 (ft)	S-02 S-02-20230808 08/08/2023 0 - 0.5 (ft)	S-03 S-03-20230807 08/07/2023 0 - 0.5 (ft)	S-04 S-04-20230808 08/08/2023 0 - 0.5 (ft)
Inorganic Compounds (mg/kg)							
Aluminum	NA		-	-	-	-	-
Antimony	0.27	[b]	-	-	-	-	-
Arsenic	132	[a]	-	4.5	4.7 J-	4.6	2.6
Barium	102	[a]	-	-	-	-	-
Beryllium	21	[b]	-	-	-	-	-
Cadmium	14	[a]	-	0.17 J	0.12 J	0.31 J	0.14 J
Calcium	NA		-	-	-	-	-
Chromium	67	[a]	-	29 J	34 J-	31 J	24 J
Cobalt	120	[b]	-	-	-	-	-
Copper	217	[a]	-	12 J	11 J-	21 J	9.1 J
Iron	NA		-	-	-	-	-
Lead	118	[a]	-	7.1 J	5.8 J-	18 J	4.6 J
Magnesium	NA		-	-	-	-	-
Manganese	1500	[a]	-	-	-	-	-
Mercury	5.5	[a]	-	0.055	0.033	0.082	0.065
Nickel	980	[a]	-	23	27 J-	25	15
Potassium	NA		-	570	570	800	430
Selenium	0.3	[a]	-	-	-	-	-
Silver	14	[b]	-	-	-	-	-
Sodium	NA		-	230	170	210	130
Thallium	0.42	[b]	-	-	-	-	-
Vanadium	7.8	[b]	-	-	-	-	-
Zinc	360	[a]	-	62 J	45 J-	66 J	47 J

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife	S-04 S-04-20230821 08/21/2023 0 - 0.5 (ft)	S-05 S-05-20230807 08/07/2023 0 - 0.5 (ft)	S-06 S-06-20230807 08/07/2023 0 - 0.5 (ft)	S-07 S-07-20230807 08/07/2023 0 - 0.5 (ft)	S-08 S-08-20230808 08/08/2023 0 - 0.5 (ft)
Volatile Organic Compounds (mg/kg)						
1,1,1-Trichloroethane	260 [b]	0.046 U	0.031 U	-	0.043 U	0.037 U
1,1-Dichloroethene	11 [b]	0.046 U	0.031 U	-	0.043 U	0.037 U
1,2,3-Trichlorobenzene	NA	0.091 U	0.062 U	-	0.086 U	0.075 U
1,2,4-Trichlorobenzene	0.27 [b]	0.091 U	0.062 U	-	0.086 U	0.075 U
1,2,4-Trimethylbenzene	NA	0.046 U	0.031 U	-	0.043 U	0.037 U
1,2-Dibromoethane (Ethylene Dibromide)	NA	0.023 U	0.016 U	-	0.022 U	0.019 U
1,2-Dichlorobenzene	0.92 [b]	0.046 U	0.031 U	-	0.043 U	0.037 U
1,3,5-Trimethylbenzene	NA	0.046 U	0.031 U	-	0.043 U	0.037 U
2-Phenylbutane (sec-Butylbenzene)	NA	0.046 U	0.031 U	-	0.043 U	0.037 U
Benzene	24 [b]	0.023 U	0.016 U	-	0.022 U	0.019 U
Chloroform (Trichloromethane)	8 [b]	0.023 U	0.016 U	-	0.022 U	0.019 U
Cymene (p-Isopropyltoluene)	NA	0.046 U	0.031 U	-	0.043 U	0.037 U
Ethylbenzene	5.16 [b]	0.046 U	0.031 U	-	0.043 U	0.037 U
Isopropylbenzene (Cumene)	NA	0.046 U	0.031 U	-	0.0097 J	0.037 U
m,p-Xylenes	1.4 [b]	0.046 U	0.031 U	-	0.043 U	0.037 U
Methylene chloride (Dichloromethane)	2.6 [b]	0.28 U	0.19 U	-	0.27 U	0.23 U
Naphthalene	3.4 [b]	0.17 U	0.12 U	-	0.16 U	0.14 U
n-Butylbenzene	NA	0.046 U	0.031 U	-	0.043 U	0.037 U
n-Propylbenzene	NA	0.046 U	0.031 U	-	0.043 U	0.037 U
o-Xylene	1.4 [b]	0.046 U	0.031 U	-	0.043 U	0.037 U
Styrene	NA	0.046 U	0.031 U	-	0.016 J	0.037 U
Tetrachloroethene	0.18 [b]	0.046 U	0.031 U	-	0.043 U	0.037 U
Toluene	23 [b]	0.068 U	0.047 U	-	0.065 U	0.056 U
Trichlorofluoromethane (CFC-11)	16.4 [b]	0.091 U	0.062 U	-	0.086 U	0.075 U
Xylene (Total)	1.4 [b]	-	-	-	-	-

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife		S-04 S-04-20230821 08/21/2023 0 - 0.5 (ft)	S-05 S-05-20230807 08/07/2023 0 - 0.5 (ft)	S-06 S-06-20230807 08/07/2023 0 - 0.5 (ft)	S-07 S-07-20230807 08/07/2023 0 - 0.5 (ft)	S-08 S-08-20230808 08/08/2023 0 - 0.5 (ft)
Semi-Volatile Organic Compounds (mg/kg)							
1-Methylnaphthalene	NA		-	0.031	0.03 U	0.011 J	0.03 U
2,4-Dimethylphenol	NA		-	0.2 U	0.2 U	0.19 U	0.2 U
2-Methylnaphthalene	16	[b]	-	0.04 J	0.05 U	0.024 J	0.051 U
2-Methylphenol (o-Cresol)	580	[b]	-	0.15 U	0.15 U	0.15 U	0.15 U
3&4-Methylphenol	3.49	[b]	-	0.2 U	0.2 U	0.19 U	0.023 J
3/4-Methylphenols (p/m-Cresol) A	3.49	[b]	-	-	-	-	-
3-Nitroaniline	NA		-	0.3 U	0.3 U	0.29 U	0.3 U
Acenaphthene	130	[b]	-	0.039 U	0.04 U	0.051	0.04 U
Acenaphthylene	130	[b]	-	0.025 U	0.025 U	0.024 U	0.025 U
Anthracene	210	[b]	-	0.059 U	0.06 U	0.16	0.061 U
Benzo(a)anthracene	0.73	[b]	-	0.11	0.04 U	**0.98**	0.04 U
Benzo(a)pyrene	12	[a]	-	0.093	0.06 U	0.67	0.061 U
Benzo(b)fluoranthene	44	[b]	-	0.2	0.033 J	0.97	0.04 U
Benzo(g,h,i)perylene	NA		-	0.059 U	0.06 U	0.37	0.061 U
Benzo(k)fluoranthene	71	[b]	-	0.059 U	0.06 U	0.39	0.061 U
Benzoic acid	1	[b]	-	3.9 U	4 U	**1.3 J**	4 U
Benzyl Alcohol	120	[b]	-	0.99 U	1 U	0.97 U	1 U
bis(2-Ethylhexyl)phthalate	0.02	[b]	-	0.59 U	0.6 U	**0.27 J**	**0.25 J**
Butyl benzylphthalate (BBP)	90	[b]	-	0.2 U	0.2 U	0.19 U	0.2 U
Carbazole	79	[b]	-	0.15 U	0.15 U	0.11 J	0.15 U
Chrysene	3.1	[b]	-	0.16	0.06 U	1.1	0.061 U
Dibenz(a,h)anthracene	14	[b]	-	0.049 U	0.05 U	0.11	0.051 U
Dibenzofuran	NA		-	0.15 U	0.15 U	0.021 J	0.15 U
Dimethyl phthalate	38	[b]	-	0.15 U	0.15 U	0.15 U	0.15 U
Di-n-butylphthalate (DBP)	0.011	[b]	-	0.49 U	0.5 U	0.49 U	0.51 U
Di-n-octyl phthalate (DnOP)	0.91	[b]	-	0.15 U	0.15 U	0.15 U	0.15 U
Fluoranthene	22	[b]	-	0.22	0.019 J	1.4	0.04 U
Fluorene	250	[b]	-	0.025 U	0.025 U	0.044	0.025 U
Indeno(1,2,3-cd)pyrene	71	[b]	-	0.058	0.04 U	0.38	0.04 U
m & p- Cresol	3.49	[b]	-	-	-	-	-
Naphthalene	3.4	[b]	-	0.15 J+	0.057 J+	0.2	0.025 U
N-Nitrosodiphenylamine	0.545	[b]	-	0.059 U	0.06 U	0.058 U	0.061 U
Pentachlorophenol	4.5	[a]	-	0.39 U	0.4 U	0.39 UJ	0.4 U
Phenanthrene	11	[b]	-	0.15	0.06 U	0.83	0.061 U
Phenol	37	[b]	-	0.15 U	0.15 U	0.15 U	0.15 U
Pyrene	23	[b]	-	0.22	0.018 J	1.4	0.061 U
Total Petroleum Hydrocarbons (mg/kg)							
Total Petroleum Hydrocarbons (C10-C24), DRO Silica-Gel Cleanup	6000	[a]	-	-	-	-	-
Total Petroleum Hydrocarbons (C24-C36), MRO Silica-Gel Cleanup	NA		-	-	-	-	-
VPH (mg/kg)							
Pentane	NA		-	-	-	-	-

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife		S-04 S-04-20230821 08/21/2023 0 - 0.5 (ft)	S-05 S-05-20230807 08/07/2023 0 - 0.5 (ft)	S-06 S-06-20230807 08/07/2023 0 - 0.5 (ft)	S-07 S-07-20230807 08/07/2023 0 - 0.5 (ft)	S-08 S-08-20230808 08/08/2023 0 - 0.5 (ft)
Inorganic Compounds (mg/kg)							
Aluminum	NA		-	-	-	-	-
Antimony	0.27	[b]	-	-	-	-	-
Arsenic	132	[a]	-	2.5	2.6	46	2.6
Barium	102	[a]	-	-	-	-	-
Beryllium	21	[b]	-	-	-	-	-
Cadmium	14	[a]	-	0.21 J	0.21 J	1.5	0.21 J
Calcium	NA		-	-	-	-	-
Chromium	67	[a]	-	17 J	35 J	**79 J**	46 J
Cobalt	120	[b]	-	-	-	-	-
Copper	217	[a]	-	20 J	30 J	**440 J**	24 J
Iron	NA		-	-	-	-	-
Lead	118	[a]	-	6.4 J	5.2 J	53 J	3.8 J
Magnesium	NA		-	-	-	-	-
Manganese	1500	[a]	-	-	-	-	-
Mercury	5.5	[a]	-	0.033	0.044	0.035	0.022
Nickel	980	[a]	-	37	44	41	39
Potassium	NA		-	560	580	1800	850
Selenium	0.3	[a]	-	-	-	-	-
Silver	14	[b]	-	-	-	-	-
Sodium	NA		-	190	220	520	320
Thallium	0.42	[b]	-	-	-	-	-
Vanadium	7.8	[b]	-	-	-	-	-
Zinc	360	[a]	-	46 J	48 J	330 J	46 J

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife	S-08 S-08-20230821 08/21/2023 0 - 0.5 (ft)	S-10 S-10-20230808 08/08/2023 0 - 0.5 (ft)	S-10 S-10-20230821 08/21/2023 0 - 0.5 (ft)	S-13 S-13-20230808 08/08/2023 0 - 0.5 (ft)	S-13 S-13-20230821 08/21/2023 0 - 0.5 (ft)
Volatile Organic Compounds (mg/kg)						
1,1,1-Trichloroethane	260 [b]	0.035 U	-	0.038 U	-	0.059 U
1,1-Dichloroethene	11 [b]	0.035 U	-	0.024 J	-	0.059 U
1,2,3-Trichlorobenzene	NA	0.07 U	-	0.077 U	-	0.12 U
1,2,4-Trichlorobenzene	0.27 [b]	0.07 U	-	0.077 U	-	0.12 U
1,2,4-Trimethylbenzene	NA	0.028 J	-	0.038 U	-	0.059 U
1,2-Dibromoethane (Ethylene Dibromide)	NA	0.017 U	-	0.019 U	-	0.03 U
1,2-Dichlorobenzene	0.92 [b]	0.035 U	-	0.038 U	-	0.059 U
1,3,5-Trimethylbenzene	NA	0.035 U	-	0.038 U	-	0.059 U
2-Phenylbutane (sec-Butylbenzene)	NA	0.035 U	-	0.038 U	-	0.059 U
Benzene	24 [b]	0.017 U	-	0.019 U	-	0.03 U
Chloroform (Trichloromethane)	8 [b]	0.017 U	-	0.019 U	-	0.03 U
Cymene (p-Isopropyltoluene)	NA	0.035 U	-	0.038 U	-	0.059 U
Ethylbenzene	5.16 [b]	0.035 U	-	0.038 U	-	0.059 U
Isopropylbenzene (Cumene)	NA	0.035 U	-	0.038 U	-	0.059 U
m,p-Xylenes	1.4 [b]	0.058	-	0.038 U	-	0.059 U
Methylene chloride (Dichloromethane)	2.6 [b]	0.22 U	-	0.24 U	-	0.37 U
Naphthalene	3.4 [b]	0.13 U	-	0.14 U	-	0.22 U
n-Butylbenzene	NA	0.035 U	-	0.038 U	-	0.059 U
n-Propylbenzene	NA	0.035 U	-	0.038 U	-	0.059 U
o-Xylene	1.4 [b]	0.011 J	-	0.038 U	-	0.059 U
Styrene	NA	0.035 U	-	0.038 U	-	0.059 U
Tetrachloroethene	0.18 [b]	0.035 U	-	0.038 U	-	0.059 U
Toluene	23 [b]	0.052 U	-	0.058 U	-	0.089 U
Trichlorofluoromethane (CFC-11)	16.4 [b]	0.07 U	-	0.13	-	0.12 U
Xylene (Total)	1.4 [b]	-	-	-	-	-

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife		S-08 S-08-20230821 08/21/2023 0 - 0.5 (ft)	S-10 S-10-20230808 08/08/2023 0 - 0.5 (ft)	S-10 S-10-20230821 08/21/2023 0 - 0.5 (ft)	S-13 S-13-20230808 08/08/2023 0 - 0.5 (ft)	S-13 S-13-20230821 08/21/2023 0 - 0.5 (ft)
Semi-Volatile Organic Compounds (mg/kg)							
1-Methylnaphthalene	NA		-	0.031 U	-	0.035 U	-
2,4-Dimethylphenol	NA		-	0.21 U	-	0.24 U	-
2-Methylnaphthalene	16	[b]	-	0.052 U	-	0.059 U	-
2-Methylphenol (o-Cresol)	580	[b]	-	0.16 U	-	0.18 U	-
3&4-Methylphenol	3.49	[b]	-	0.21 U	-	0.24 U	-
3/4-Methylphenols (p/m-Cresol) A	3.49	[b]	-	-	-	-	-
3-Nitroaniline	NA		-	0.31 U	-	0.35 U	-
Acenaphthene	130	[b]	-	0.041 U	-	0.047 U	-
Acenaphthylene	130	[b]	-	0.026 U	-	0.029 U	-
Anthracene	210	[b]	-	0.062 U	-	0.071 U	-
Benzo(a)anthracene	0.73	[b]	-	0.042	-	0.021 J	-
Benzo(a)pyrene	12	[a]	-	0.062 U	-	0.071 U	-
Benzo(b)fluoranthene	44	[b]	-	0.05	-	0.047 U	-
Benzo(g,h,i)perylene	NA		-	0.062 U	-	0.071 U	-
Benzo(k)fluoranthene	71	[b]	-	0.062 U	-	0.071 U	-
Benzoic acid	1	[b]	-	4.1 U	-	**1.6 J**	-
Benzyl Alcohol	120	[b]	-	1 U	-	1.2 U	-
bis(2-Ethylhexyl)phthalate	0.02	[b]	-	0.62 U	-	0.71 U	-
Butyl benzylphthalate (BBP)	90	[b]	-	0.21 U	-	0.24 U	-
Carbazole	79	[b]	-	0.014 J	-	0.18 U	-
Chrysene	3.1	[b]	-	0.045 J	-	0.028 J	-
Dibenz(a,h)anthracene	14	[b]	-	0.052 U	-	0.059 U	-
Dibenzofuran	NA		-	0.0077 J	-	0.18 U	-
Dimethyl phthalate	38	[b]	-	0.0095 J	-	0.18 U	-
Di-n-butylphthalate (DBP)	0.011	[b]	-	**0.52 U**	-	0.59 U	-
Di-n-octyl phthalate (DnOP)	0.91	[b]	-	0.16 U	-	0.18 U	-
Fluoranthene	22	[b]	-	0.098	-	0.032 J	-
Fluorene	250	[b]	-	0.026 U	-	0.029 U	-
Indeno(1,2,3-cd)pyrene	71	[b]	-	0.012 J	-	0.047 U	-
m & p- Cresol	3.49	[b]	-	-	-	-	-
Naphthalene	3.4	[b]	-	0.0084 J	-	0.039 U	-
N-Nitrosodiphenylamine	0.545	[b]	-	0.062 U	-	0.071 U	-
Pentachlorophenol	4.5	[a]	-	0.41 U	-	0.47 U	-
Phenanthrene	11	[b]	-	0.089	-	0.021 J	-
Phenol	37	[b]	-	0.16 U	-	0.18 U	-
Pyrene	23	[b]	-	0.086	-	0.024 J	-
Total Petroleum Hydrocarbons (mg/kg)							
Total Petroleum Hydrocarbons (C10-C24), DRO Silica-Gel Cleanup	6000	[a]	-	-	-	-	-
Total Petroleum Hydrocarbons (C24-C36), MRO Silica-Gel Cleanup	NA		-	-	-	-	-
VPH (mg/kg)							
Pentane	NA		-	-	-	-	-

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife	S-08 S-08-20230821 08/21/2023 0 - 0.5 (ft)	S-10 S-10-20230808 08/08/2023 0 - 0.5 (ft)	S-10 S-10-20230821 08/21/2023 0 - 0.5 (ft)	S-13 S-13-20230808 08/08/2023 0 - 0.5 (ft)	S-13 S-13-20230821 08/21/2023 0 - 0.5 (ft)
Inorganic Compounds (mg/kg)						
Aluminum	NA	-	-	-	-	-
Antimony	0.27 [b]	-	-	-	-	-
Arsenic	132 [a]	-	3.8 J-	-	4.1	-
Barium	102 [a]	-	-	-	-	-
Beryllium	21 [b]	-	-	-	-	-
Cadmium	14 [a]	-	0.3 J-	-	0.1 J	-
Calcium	NA	-	-	-	-	-
Chromium	67 [a]	-	38 J	-	30 J	-
Cobalt	120 [b]	-	-	-	-	-
Copper	217 [a]	-	41 J-	-	15 J	-
Iron	NA	-	-	-	-	-
Lead	118 [a]	-	**280 J**	-	7.6 J	-
Magnesium	NA	-	-	-	-	-
Manganese	1500 [a]	-	-	-	-	-
Mercury	5.5 [a]	-	0.055	-	0.098	-
Nickel	980 [a]	-	30 J-	-	21	-
Potassium	NA	-	620 J+	-	770	-
Selenium	0.3 [a]	-	-	-	-	-
Silver	14 [b]	-	-	-	-	-
Sodium	NA	-	180	-	160	-
Thallium	0.42 [b]	-	-	-	-	-
Vanadium	7.8 [b]	-	-	-	-	-
Zinc	360 [a]	-	100 J	-	63 J	-

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife	S-14 S-14-20230808 08/08/2023 0 - 0.5 (ft)	S-15 S-15-20230808 08/08/2023 0 - 0.5 (ft)	S-16 S-16-20230808 08/08/2023 0 - 0.5 (ft)	S-17 S-17-20230808 08/08/2023 0 - 0.5 (ft)	S-18 S-18-20230808 08/08/2023 0 - 0.5 (ft)
Volatile Organic Compounds (mg/kg)						
1,1,1-Trichloroethane	260 [b]	0.035 U	0.034 U	0.035 U	0.034 U	0.061 U
1,1-Dichloroethene	11 [b]	0.035 U	0.034 U	0.035 U	0.034 U	0.061 U
1,2,3-Trichlorobenzene	NA	0.069 U	0.067 U	0.069 U	0.069 U	0.12 U
1,2,4-Trichlorobenzene	0.27 [b]	0.069 U	0.067 U	0.069 U	0.069 U	0.12 U
1,2,4-Trimethylbenzene	NA	0.035 U	0.062 J+	0.035 U	0.034 U	0.093 J+
1,2-Dibromoethane (Ethylene Dibromide)	NA	0.017 U	0.017 U	0.017 U	0.017 U	0.03 U
1,2-Dichlorobenzene	0.92 [b]	0.035 U	0.034 U	0.035 U	0.034 U	0.061 U
1,3,5-Trimethylbenzene	NA	0.035 U	0.034 U	0.035 U	0.034 U	0.061 U
2-Phenylbutane (sec-Butylbenzene)	NA	0.035 U	0.034 U	0.035 U	0.034 U	0.061 U
Benzene	24 [b]	0.017 U	0.0041 J	0.017 U	0.017 U	0.03 U
Chloroform (Trichloromethane)	8 [b]	0.017 U	0.017 U	0.017 U	0.017 U	0.03 U
Cymene (p-Isopropyltoluene)	NA	0.035 U	0.24	0.035 U	0.034 U	0.061 U
Ethylbenzene	5.16 [b]	0.035 U	0.059	0.035 U	0.034 U	0.03 J
Isopropylbenzene (Cumene)	NA	0.035 U	0.013 J	0.035 U	0.034 U	0.061 U
m,p-Xylenes	1.4 [b]	0.035 U	0.076 J+	0.035 U	0.034 U	0.1
Methylene chloride (Dichloromethane)	2.6 [b]	0.22 U	0.21 U	0.22 U	0.22 U	0.38 U
Naphthalene	3.4 [b]	0.13 U	0.13 U	0.13 U	0.13 U	0.23 U
n-Butylbenzene	NA	0.035 U	0.034 U	0.035 U	0.034 U	0.061 U
n-Propylbenzene	NA	0.035 U	0.034 U	0.035 U	0.034 U	0.061 U
o-Xylene	1.4 [b]	0.035 U	0.035	0.035 U	0.034 U	0.036 J
Styrene	NA	0.035 U	0.034 U	0.035 U	0.034 U	0.061 U
Tetrachloroethene	0.18 [b]	0.035 U	0.034 U	0.035 U	0.034 U	0.061 U
Toluene	23 [b]	0.052 U	0.055	0.052 U	0.016 J	0.029 J
Trichlorofluoromethane (CFC-11)	16.4 [b]	0.069 U	0.067 U	0.069 U	0.069 U	0.12 U
Xylene (Total)	1.4 [b]	-	-	-	-	-

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife		S-14 S-14-20230808 08/08/2023 0 - 0.5 (ft)	S-15 S-15-20230808 08/08/2023 0 - 0.5 (ft)	S-16 S-16-20230808 08/08/2023 0 - 0.5 (ft)	S-17 S-17-20230808 08/08/2023 0 - 0.5 (ft)	S-18 S-18-20230808 08/08/2023 0 - 0.5 (ft)
Semi-Volatile Organic Compounds (mg/kg)							
1-Methylnaphthalene	NA		0.029 U	0.81 U	0.03 U	0.03 U	0.03 U
2,4-Dimethylphenol	NA		0.2 U	5.4 U	0.2 U	0.2 U	0.2 U
2-Methylnaphthalene	16	[b]	0.049 U	1.3 U	0.051 U	0.05 U	0.049 U
2-Methylphenol (o-Cresol)	580	[b]	0.15 U	3.7 J	0.15 U	0.15 U	0.15 U
3&4-Methylphenol	3.49	[b]	0.2 U	2.8 J	0.2 U	0.027 J	0.2 U
3/4-Methylphenols (p/m-Cresol) A	3.49	[b]	-	-	-	-	-
3-Nitroaniline	NA		1.1	8.1 U	0.3 U	0.3 U	0.3 U
Acenaphthene	130	[b]	0.039 U	1.1 U	0.04 U	0.04 U	0.039 U
Acenaphthylene	130	[b]	0.016 J	0.67 U	0.025 U	0.025 U	0.025 U
Anthracene	210	[b]	0.059 U	1.6 U	0.061 U	0.06 U	0.059 U
Benzo(a)anthracene	0.73	[b]	0.039 U	1.1 U	0.04 U	0.04 U	0.039 U
Benzo(a)pyrene	12	[a]	0.059 U	1.6 U	0.061 U	0.06 U	0.059 U
Benzo(b)fluoranthene	44	[b]	0.039 U	1.1 U	0.04 U	0.04 U	0.022 J
Benzo(g,h,i)perylene	NA		0.059 U	1.6 U	0.061 U	0.06 U	0.059 U
Benzo(k)fluoranthene	71	[b]	0.059 U	1.6 U	0.061 U	0.06 U	0.059 U
Benzoic acid	1	[b]	**2.1 J**	110 U	4 U	4 U	3.9 U
Benzyl Alcohol	120	[b]	0.28 J	27 U	1 U	1 U	0.99 U
bis(2-Ethylhexyl)phthalate	0.02	[b]	0.59 U	16 U	**0.21 J**	**0.13 J**	**0.12 J**
Butyl benzylphthalate (BBP)	90	[b]	0.2 U	5.4 U	0.2 U	0.2 U	0.2 U
Carbazole	79	[b]	0.15 U	4 U	0.15 U	0.15 U	0.15 U
Chrysene	3.1	[b]	0.059 U	1.6 U	0.061 U	0.015 J	0.016 J
Dibenz(a,h)anthracene	14	[b]	0.049 U	1.3 U	0.051 U	0.05 U	0.049 U
Dibenzofuran	NA		0.15 U	4 U	0.15 U	0.15 U	0.15 U
Dimethyl phthalate	38	[b]	0.086 J	4 U	0.15 U	0.15 U	0.15 U
Di-n-butylphthalate (DBP)	0.011	[b]	0.49 U	13 U	0.51 U	0.5 U	0.49 U
Di-n-octyl phthalate (DnOP)	0.91	[b]	0.15 U	4 U	0.15 U	0.15 U	0.15 U
Fluoranthene	22	[b]	0.02 J	1.1 U	0.04 U	0.013 J	0.02 J
Fluorene	250	[b]	0.024 U	0.67 U	0.025 U	0.025 U	0.025 U
Indeno(1,2,3-cd)pyrene	71	[b]	0.039 U	1.1 U	0.04 U	0.04 U	0.039 U
m & p- Cresol	3.49	[b]	-	-	-	-	-
Naphthalene	3.4	[b]	0.024 U	0.67 U	0.025 U	0.025 U	0.025 U
N-Nitrosodiphenylamine	0.545	[b]	0.059 U	1.6 U	0.061 U	0.06 U	0.059 U
Pentachlorophenol	4.5	[a]	0.39 U	11 U	0.4 U	0.4 U	0.39 U
Phenanthrene	11	[b]	0.0073 J	1.6 U	0.061 U	0.0087 J	0.0084 J
Phenol	37	[b]	0.057 J	0.72 J	0.15	0.15 U	0.15 U
Pyrene	23	[b]	0.018 J	1.6 U	0.061 U	0.06 U	0.014 J
Total Petroleum Hydrocarbons (mg/kg)							
Total Petroleum Hydrocarbons (C10-C24), DRO Silica-Gel Cleanup	6000	[a]	-	**41000 J**	-	-	-
Total Petroleum Hydrocarbons (C24-C36), MRO Silica-Gel Cleanup	NA		-	8000 J	-	-	-
VPH (mg/kg)							
Pentane	NA		-	-	-	-	-

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife		S-14 S-14-20230808 08/08/2023 0 - 0.5 (ft)	S-15 S-15-20230808 08/08/2023 0 - 0.5 (ft)	S-16 S-16-20230808 08/08/2023 0 - 0.5 (ft)	S-17 S-17-20230808 08/08/2023 0 - 0.5 (ft)	S-18 S-18-20230808 08/08/2023 0 - 0.5 (ft)
Inorganic Compounds (mg/kg)							
Aluminum	NA		-	-	-	-	-
Antimony	0.27	[b]	-	-	-	-	-
Arsenic	132	[a]	1.6 J	3.3	5.4	2.3	6.5
Barium	102	[a]	-	-	-	-	-
Beryllium	21	[b]	-	-	-	-	-
Cadmium	14	[a]	0.13 J	0.33 J	0.64 J	0.17 J	1.1
Calcium	NA		-	-	-	-	-
Chromium	67	[a]	18 J	40 J	42 J	22 J	54 J
Cobalt	120	[b]	-	-	-	-	-
Copper	217	[a]	13 J	74 J	210 J	31 J	58 J
Iron	NA		-	-	-	-	-
Lead	118	[a]	11 J	**280 J**	19 J	22 J	31 J
Magnesium	NA		-	-	-	-	-
Manganese	1500	[a]	-	-	-	-	-
Mercury	5.5	[a]	0.026	0.029	0.051	0.033	0.042
Nickel	980	[a]	22	37	44	23	60
Potassium	NA		440	950	1700	660	1500
Selenium	0.3	[a]	-	-	-	-	-
Silver	14	[b]	-	-	-	-	-
Sodium	NA		140	270	320	240	520
Thallium	0.42	[b]	-	-	-	-	-
Vanadium	7.8	[b]	-	-	-	-	-
Zinc	360	[a]	37 J	110 J	200 J	65 J	160 J

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife	S-19 S-19-20230808 08/08/2023 0 - 0.5 (ft)	S-20 S-20-20230808 08/08/2023 0 - 0.5 (ft)	S-21 S-21-20230808 08/08/2023 0 - 0.5 (ft)	S-22 S-22-20230808 08/08/2023 0 - 0.5 (ft)	S-23 S-23-20230808 08/08/2023 0 - 0.5 (ft)	S-24 S-24-20230808 08/08/2023 0 - 0.5 (ft)	S-24 S-24-20230821 08/21/2023 0 - 0.5 (ft)
Volatile Organic Compounds (mg/kg)								
1,1,1-Trichloroethane	260 [b]	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
1,1-Dichloroethene	11 [b]	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
1,2,3-Trichlorobenzene	NA	0.2 U	0.15 U	0.12 U	0.16 U	0.25 U	-	0.064 U
1,2,4-Trichlorobenzene	0.27 [b]	0.2 U	0.15 U	0.12 U	0.16 U	0.25 U	-	0.064 U
1,2,4-Trimethylbenzene	NA	0.098 U	0.077 U	0.096 J+	0.079 U	0.12 U	-	0.032 U
1,2-Dibromoethane (Ethylene Dibromide)	NA	0.049 U	0.039 U	0.031 U	0.04 U	0.062 U	-	0.016 U
1,2-Dichlorobenzene	0.92 [b]	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
1,3,5-Trimethylbenzene	NA	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
2-Phenylbutane (sec-Butylbenzene)	NA	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
Benzene	24 [b]	0.049 U	0.039 U	0.031 U	0.04 U	0.062 U	-	0.016 U
Chloroform (Trichloromethane)	8 [b]	0.049 U	0.039 U	0.031 U	0.04 U	0.062 U	-	0.016 U
Cymene (p-Isopropyltoluene)	NA	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
Ethylbenzene	5.16 [b]	0.098 U	0.077 U	0.028 J	0.079 U	0.12 U	-	0.032 U
Isopropylbenzene (Cumene)	NA	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
m,p-Xylenes	1.4 [b]	0.098 U	0.077 U	0.099	0.079 U	0.12 U	-	0.032 U
Methylene chloride (Dichloromethane)	2.6 [b]	0.62 U	0.48 U	0.38 U	0.49 U	0.77 U	-	0.2 U
Naphthalene	3.4 [b]	0.37 U	1	0.099 J	0.3 U	0.46 U	-	0.12 U
n-Butylbenzene	NA	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
n-Propylbenzene	NA	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
o-Xylene	1.4 [b]	0.098 U	0.077 U	0.035 J	0.079 U	0.12 U	-	0.032 U
Styrene	NA	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
Tetrachloroethene	0.18 [b]	0.098 U	0.077 U	0.061 U	0.079 U	0.12 U	-	0.032 U
Toluene	23 [b]	0.15 U	0.12 U	0.027 J	0.12 U	0.19 U	-	0.048 U
Trichlorofluoromethane (CFC-11)	16.4 [b]	0.2 U	0.15 U	0.12 U	0.16 U	0.25 U	-	0.064 U
Xylene (Total)	1.4 [b]	-	-	-	-	-	-	-

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife		S-19 S-19-20230808 08/08/2023 0 - 0.5 (ft)	S-20 S-20-20230808 08/08/2023 0 - 0.5 (ft)	S-21 S-21-20230808 08/08/2023 0 - 0.5 (ft)	S-22 S-22-20230808 08/08/2023 0 - 0.5 (ft)	S-23 S-23-20230808 08/08/2023 0 - 0.5 (ft)	S-24 S-24-20230808 08/08/2023 0 - 0.5 (ft)	S-24 S-24-20230821 08/21/2023 0 - 0.5 (ft)
Semi-Volatile Organic Compounds (mg/kg)									
1-Methylnaphthalene	NA		0.043 U	-	0.036 U	0.41 U	0.036 J	0.03 U	-
2,4-Dimethylphenol	NA		0.28 U	-	0.24 U	2.7 U	0.39 U	0.2 U	-
2-Methylnaphthalene	16	[b]	0.071 U	-	0.059 U	0.69 U	0.073 J	0.05 U	-
2-Methylphenol (o-Cresol)	580	[b]	0.21 U	0.2 UJ	0.18 U	2.1 U	0.29 U	0.15 U	-
3&4-Methylphenol	3.49	[b]	0.28 U	-	0.24 U	2.7 U	0.063 J	0.2 U	-
3/4-Methylphenols (p/m-Cresol) A	3.49	[b]	-	-	-	-	-	-	-
3-Nitroaniline	NA		0.82	-	0.36 U	4.1 U	0.59 U	0.3 U	-
Acenaphthene	130	[b]	0.057 U	-	0.047 U	0.55 U	0.043 J	0.04 U	-
Acenaphthylene	130	[b]	0.035 U	-	0.03 U	0.34 U	0.049 U	0.025 U	-
Anthracene	210	[b]	0.085 U	-	0.071 U	0.82 U	0.06 J	0.06 U	-
Benzo(a)anthracene	0.73	[b]	0.04 J	-	0.021 J	0.55 U	0.32	0.04 U	-
Benzo(a)pyrene	12	[a]	0.054 J	-	0.071 U	0.82 U	0.25	0.024 J	-
Benzo(b)fluoranthene	44	[b]	0.074	-	0.047 U	0.55 U	0.41	0.022 J	-
Benzo(g,h,i)perylene	NA		0.085 U	-	0.071 U	0.82 U	0.081 J	0.06 U	-
Benzo(k)fluoranthene	71	[b]	0.085 U	-	0.071 U	0.82 U	0.12 U	0.06 U	-
Benzoic acid	1	[b]	5.7 U	-	4.7 U	55 U	7.9 U	4 U	-
Benzyl Alcohol	120	[b]	1.4 U	-	1.2 U	14 U	0.11 J	0.99 U	-
bis(2-Ethylhexyl)phthalate	0.02	[b]	0.85 U	0.8 U	0.71 U	8.2 U	**11**	0.6 U	-
Butyl benzylphthalate (BBP)	90	[b]	0.28 U	-	0.24 U	2.7 U	0.39 U	0.2 U	-
Carbazole	79	[b]	0.21 U	-	0.18 U	2.1 U	0.043 J	0.15 U	-
Chrysene	3.1	[b]	0.054 J	-	0.027 J	0.82 U	0.35	0.018 J	-
Dibenz(a,h)anthracene	14	[b]	0.071 U	-	0.059 U	0.69 U	0.098 U	0.05 U	-
Dibenzofuran	NA		0.21 U	-	0.18 U	2.1 U	0.047 J	0.15 U	-
Dimethyl phthalate	38	[b]	0.21 U	-	0.18 U	2.1 U	0.29 U	0.15 U	-
Di-n-butylphthalate (DBP)	0.011	[b]	0.71 U	-	0.59 U	6.9 U	0.98 U	**0.5 U**	-
Di-n-octyl phthalate (DnOP)	0.91	[b]	0.21 U	-	0.18 U	2.1 U	0.29 U	0.15 U	-
Fluoranthene	22	[b]	0.067	-	0.03 J	0.55 U	0.67	0.019 J	-
Fluorene	250	[b]	0.035 U	-	0.03 U	0.34 U	0.033 J	0.025 U	-
Indeno(1,2,3-cd)pyrene	71	[b]	0.057 U	-	0.047 U	0.55 U	0.082	0.04 U	-
m & p- Cresol	3.49	[b]	-	-	-	-	-	-	-
Naphthalene	3.4	[b]	0.035 U	0.05 J	0.09 J+	0.083 J	0.049	0.025 U	-
N-Nitrosodiphenylamine	0.545	[b]	0.085 U	-	0.071 U	0.82 U	0.12 U	0.06 U	-
Pentachlorophenol	4.5	[a]	0.57 U	-	0.47 U	5.5 U	0.79 U	0.4 U	-
Phenanthrene	11	[b]	0.031 J	-	0.071 U	0.82 U	0.42	0.0067 J	-
Phenol	37	[b]	0.21 U	0.2 UJ	0.18 U	2.1 U	0.29 U	0.15 U	-
Pyrene	23	[b]	0.054 J	-	0.028 J	0.82 U	0.74	0.018 J	-
Total Petroleum Hydrocarbons (mg/kg)									
Total Petroleum Hydrocarbons (C10-C24), DRO Silica-Gel Cleanup	6000	[a]	-	1300 J	-	800 J	-	-	-
Total Petroleum Hydrocarbons (C24-C36), MRO Silica-Gel Cleanup	NA		-	2000 J	-	1600 J	-	-	-
VPH (mg/kg)									
Pentane	NA		-	-	-	-	-	-	-

TABLE F-1
ANALYTICAL RESULTS FOR SOIL SAMPLES (0 TO 15 FEET BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Location Name Sample Name Sample Date Sample Depth (bgs)	Ecological Screening Level Wildlife	S-19 S-19-20230808 08/08/2023 0 - 0.5 (ft)	S-20 S-20-20230808 08/08/2023 0 - 0.5 (ft)	S-21 S-21-20230808 08/08/2023 0 - 0.5 (ft)	S-22 S-22-20230808 08/08/2023 0 - 0.5 (ft)	S-23 S-23-20230808 08/08/2023 0 - 0.5 (ft)	S-24 S-24-20230808 08/08/2023 0 - 0.5 (ft)	S-24 S-24-20230821 08/21/2023 0 - 0.5 (ft)
Inorganic Compounds (mg/kg)								
Aluminum	NA	-	-	-	-	-	-	-
Antimony	0.27 [b]	-	-	-	-	-	-	-
Arsenic	132 [a]	3	11	4.6	6.1	3.8 J	2.6	-
Barium	102 [a]	-	-	-	-	-	-	-
Beryllium	21 [b]	-	-	-	-	-	-	-
Cadmium	14 [a]	0.12 J	0.83 J	0.18 J	0.68 J	0.58 J	0.2 J	-
Calcium	NA	-	-	-	-	-	-	-
Chromium	67 [a]	32 J	36 J	39 J	39 J	43 J	34 J	-
Cobalt	120 [b]	-	-	-	-	-	-	-
Copper	217 [a]	18 J	54 J	15 J	30 J	54 J	20 J	-
Iron	NA	-	-	-	-	-	-	-
Lead	118 [a]	9.2 J	50 J	7.9 J	66 J	37 J	5.7 J	-
Magnesium	NA	-	-	-	-	-	-	-
Manganese	1500 [a]	-	-	-	-	-	-	-
Mercury	5.5 [a]	0.09	0.1	0.1	0.074	0.049	0.023 J	-
Nickel	980 [a]	24	31	27	34	33	39	-
Potassium	NA	410	730	760	680	850	670	-
Selenium	0.3 [a]	-	-	-	-	-	-	-
Silver	14 [b]	-	-	-	-	-	-	-
Sodium	NA	170	190	140	180	1800	220	-
Thallium	0.42 [b]	-	-	-	-	-	-	-
Vanadium	7.8 [b]	-	-	-	-	-	-	-
Zinc	360 [a]	55 J	320 J	66 J	330 J	110 J	42 J	-

Notes:

[a] Ecological Indicator Soil concentrations (EISC) for protection of wildlife obtained from Table 5.1 of Washington State Department of Ecology's Terrestrial Ecological Evaluations under the Model Toxics Control

[b] Region 4 soil Screening Values for Hazardous Waste Sites obtained from Table 3 of Region 4 Ecological Risk Assessment Supplemental Guidance.

Detected concentrations above the wildlife screening level are shaded and bolded.

ft = feet

bgs = below ground surface

mg/kg = milligrams per kilogram

J = estimated value

NA = not available

ND = not detected at or above laboratory reporting limits

TABLE F-2
SUMMARY STATISTICS AND SELECTIONS OF CHEMICALS OF ECOLOGICAL CONCERN: SOIL (0 TO 15 FT BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Constituents	Frequency of Detect	Range of Reporting Limit (mg/kg)	Range of Detected Concentrations (mg/kg)	Sample Location with Maximum Detected Concentration	Ecological Screening Levels	Chemical of Ecological Concern?	Conditions for Compliance to use Statistical Methods	
					Wildlife		CEC maximum detect > 2xSL?	Frequency of Exceedance over SL
Volatile Organic Compounds (mg/kg)								
1,1,1-Trichloroethane	0 / 39	0.031 : 0.61	ND : ND		260 [b]	ND		
1,1-Dichloroethene	1 / 39	0.031 : 0.61	0.024 : 0.024	S-10-20230821 ; 0 - 0.5 (ft)	11 [b]	No		
1,2,3-Trichlorobenzene	3 / 39	0.062 : 1.2	0.046 : 0.088	B-02-S2 ; 7.5 - 10 (ft)	NA	NSL		
1,2,4-Trichlorobenzene	1 / 39	0.062 : 1.2	0.051 : 0.051	B-02-S2 ; 7.5 - 10 (ft)	0.27 [b]	No		
1,2,4-Trimethylbenzene	5 / 39	0.031 : 0.61	0.028 : 0.21	S-01-20230808 ; 0 - 0.5 (ft)	NA	NSL		
1,2-Dibromoethane (Ethylene Dibromide)	0 / 39	0.016 : 0.3	ND : ND		NA	ND		
1,2-Dichlorobenzene	0 / 39	0.031 : 0.61	ND : ND		0.92 [b]	ND		
1,3,5-Trimethylbenzene	1 / 39	0.031 : 0.61	0.12 : 0.12	S-01-20230808 ; 0 - 0.5 (ft)	NA	NSL		
2-Phenylbutane (sec-Butylbenzene)	2 / 39	0.031 : 0.61	0.0089 : 0.01	B-02-S2 ; 7.5 - 10 (ft)	NA	NSL		
Benzene	4 / 39	0.016 : 0.062	0.0041 : 0.094	B-07-S1 ; 1 - 2.5 (ft)	24 [b]	No		
Chloroform (Trichloromethane)	0 / 39	0.016 : 0.3	ND : ND		8 [b]	ND		
Cymene (p-Isopropyltoluene)	8 / 39	0.031 : 0.12	0.011 : 1.4	B-07-S1 ; 1 - 2.5 (ft)	NA	NSL		
Ethylbenzene	4 / 39	0.031 : 0.61	0.028 : 0.059	S-15-20230808 ; 0 - 0.5 (ft)	5.16 [b]	No		
Isopropylbenzene (Cumene)	3 / 39	0.031 : 0.61	0.0097 : 0.027	S-01-20230808 ; 0 - 0.5 (ft)	NA	NSL		
m,p-Xylenes	5 / 39	0.031 : 0.61	0.058 : 0.11	S-01-20230808 ; 0 - 0.5 (ft)	1.4 [b]	No		
Methylene chloride (Dichloromethane)	0 / 39	0.19 : 3.8	ND : ND		2.6 [b]	ND		
Naphthalene	3 / 39	0.12 : 2.3	0.099 : 2.2	S-01-20230808 ; 0 - 0.5 (ft)	3.4 [b]	No		
n-Butylbenzene	2 / 39	0.031 : 0.61	0.02 : 0.03	B-02-S2 ; 7.5 - 10 (ft)	NA	NSL		
n-Propylbenzene	0 / 39	0.031 : 0.61	ND : ND		NA	ND		
o-Xylene	5 / 39	0.031 : 0.61	0.011 : 0.13	S-01-20230808 ; 0 - 0.5 (ft)	1.4 [b]	No		
Styrene	1 / 39	0.031 : 0.61	0.016 : 0.016	S-07-20230807 ; 0 - 0.5 (ft)	NA	NSL		
Tetrachloroethene	0 / 39	0.031 : 0.61	ND : ND		0.18 [b]	ND		
Toluene	7 / 39	0.047 : 0.91	0.016 : 0.15	B-05-S1 ; 1 - 2.5 (ft)	23 [b]	No		
Trichlorofluoromethane (CFC-11)	1 / 39	0.062 : 1.2	0.13 : 0.13	S-10-20230821 ; 0 - 0.5 (ft)	16.4 [b]	No		
Semi-Volatile Organic Compounds (mg/kg)								
1-Methylnaphthalene	5 / 38	0.029 : 0.81	0.011 : 0.047	S-03-20230807 ; 0 - 0.5 (ft)	NA	NSL		
2,4-Dimethylphenol	1 / 38	0.19 : 5.4	1.6 : 1.6	S-03-20230807 ; 0 - 0.5 (ft)	NA	NSL		
2-Methylnaphthalene	5 / 38	0.049 : 1.3	0.017 : 0.073	S-23-20230808 ; 0 - 0.5 (ft)	16 [b]	No		
2-Methylphenol (o-Cresol)	3 / 39	0.15 : 3	0.042 : 3.7	S-15-20230808 ; 0 - 0.5 (ft)	580 [b]	No		
3&4-Methylphenol	9 / 38	0.19 : 2.7	0.023 : 2.8	S-15-20230808 ; 0 - 0.5 (ft)	3.49 [b]	No		
3-Nitroaniline	2 / 37	0.29 : 8.1	0.82 : 1.1	S-14-20230808 ; 0 - 0.5 (ft)	NA	NSL		
Acenaphthene	5 / 38	0.039 : 1.1	0.018 : 0.19	S-03-20230807 ; 0 - 0.5 (ft)	130 [b]	No		
Acenaphthylene	2 / 38	0.024 : 0.67	0.016 : 0.023	S-03-20230807 ; 0 - 0.5 (ft)	130 [b]	No		
Anthracene	5 / 38	0.059 : 1.6	0.06 : 3.3	S-03-20230807 ; 0 - 0.5 (ft)	210 [b]	No		
Benzo(a)anthracene	11 / 38	0.039 : 1.1	0.014 : 13	S-03-20230807 ; 0 - 0.5 (ft)	0.73 [b]	Yes	Yes	8%
Benzo(a)pyrene	8 / 38	0.059 : 1.6	0.024 : 9.4	S-03-20230807 ; 0 - 0.5 (ft)	12 [a]	No		
Benzo(b)fluoranthene	11 / 38	0.039 : 1.1	0.022 : 13	S-03-20230807 ; 0 - 0.5 (ft)	44 [b]	No		
Benzo(g,h,i)perylene	5 / 38	0.059 : 1.6	0.081 : 3.5	S-03-20230807 ; 0 - 0.5 (ft)	NA	NSL		
Benzo(k)fluoranthene	2 / 38	0.059 : 1.6	0.39 : 6.5	S-03-20230807 ; 0 - 0.5 (ft)	71 [b]	No		
Benzoic acid	5 / 38	3.9 : 110	1.3 : 2.1	S-14-20230808 ; 0 - 0.5 (ft)	1 [b]	Yes	Yes	13%
Benzyl Alcohol	3 / 38	0.97 : 27	0.11 : 0.28	S-14-20230808 ; 0 - 0.5 (ft)	120 [b]	No		
bis(2-Ethylhexyl)phthalate	12 / 39	0.59 : 16	0.12 : 13	S-01-20230808 ; 0 - 0.5 (ft)	0.02 [b]	Yes	Yes	31%
Butyl benzylphthalate (BBP)	1 / 38	0.19 : 5.4	4.1 : 4.1	S-01-20230808 ; 0 - 0.5 (ft)	90 [b]	No		
Carbazole	6 / 38	0.15 : 4	0.014 : 1.5	S-03-20230807 ; 0 - 0.5 (ft)	79 [b]	No		
Chrysene	14 / 38	0.059 : 1.6	0.015 : 14	S-03-20230807 ; 0 - 0.5 (ft)	3.1 [b]	Yes	Yes	3%
Dibenz(a,h)anthracene	2 / 38	0.049 : 1.3	0.11 : 1.5	S-03-20230807 ; 0 - 0.5 (ft)	14 [b]	No		
Dibenzofuran	6 / 38	0.15 : 4	0.0075 : 0.16	S-03-20230807 ; 0 - 0.5 (ft)	NA	NSL		
Dimethyl phthalate	2 / 38	0.15 : 4	0.0095 : 0.086	S-14-20230808 ; 0 - 0.5 (ft)	38 [b]	No		
Di-n-butylphthalate (DBP)	2 / 38	0.49 : 13	0.061 : 0.27	B-03-S1 ; 2.5 - 5 (ft)	0.011 [b]	Yes	Yes	13%
Di-n-octyl phthalate (DnOP)	0 / 38	0.15 : 4	ND : ND		0.91 [b]	ND		
Fluoranthene	16 / 38	0.04 : 1.1	0.013 : 22	S-03-20230807 ; 0 - 0.5 (ft)	22 [b]	No		
Fluorene	5 / 38	0.024 : 0.67	0.012 : 0.24	S-03-20230807 ; 0 - 0.5 (ft)	250 [b]	No		
Indeno(1,2,3-cd)pyrene	7 / 38	0.039 : 1.1	0.012 : 4.3	S-03-20230807 ; 0 - 0.5 (ft)	71 [b]	No		
Naphthalene	13 / 39	0.024 : 0.67	0.0058 : 0.2	S-07-20230807 ; 0 - 0.5 (ft)	3.4 [b]	No		
N-Nitrosodiphenylamine	0 / 38	0.058 : 1.6	ND : ND		0.545 [b]	ND		
Pentachlorophenol	1 / 38	0.39 : 11	5.8 : 5.8	B-07-S1 ; 1 - 2.5 (ft)	4.5 [a]	Yes		
Phenanthrene	14 / 38	0.06 : 1.6	0.0067 : 14	S-03-20230807 ; 0 - 0.5 (ft)	11 [b]	Yes		
Phenol	4 / 39	0.15 : 3	0.057 : 0.72	S-15-20230808 ; 0 - 0.5 (ft)	37 [b]	No		
Pyrene	15 / 38	0.06 : 1.6	0.014 : 20	S-03-20230807 ; 0 - 0.5 (ft)	23 [b]	No		

TABLE F-2
SUMMARY STATISTICS AND SELECTIONS OF CHEMICALS OF ECOLOGICAL CONCERN: SOIL (0 TO 15 FT BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Constituents	Frequency of Detect	Range of Reporting Limit (mg/kg)	Range of Detected Concentrations (mg/kg)	Sample Location with Maximum Detected Concentration	Ecological Screening Levels	Chemical of Ecological Concern?	Conditions for Compliance to use Statistical Methods	
					Wildlife		CEC maximum detect > 2xSL?	Frequency of Exceedance over SL
Total Petroleum Hydrocarbons (mg/kg)								
Total Petroleum Hydrocarbons (C10-C24), DRO Silica-G	6 / 6	0 : 0	400 : 41000	S-15-20230808 ; 0 - 0.5 (ft)	6000 [a]	Yes	Yes	17%
Total Petroleum Hydrocarbons (C24-C36), MRO Silica-G	6 / 6	0 : 0	800 : 8000	S-15-20230808 ; 0 - 0.5 (ft)	NA	NSL		
VPH (mg/kg)								
Pentane	1 / 13	0.813 : 1.91	1.98 : 1.98	FD01 [B-05-S1]; 1 - 2.5 (ft)	NA	NSL		
Inorganic Compounds (mg/kg)								
Arsenic	39 / 39	0 : 0	1.6 : 46	S-07-20230807 ; 0 - 0.5 (ft)	132 [a]	No		
Cadmium	39 / 39	0 : 0	0.045 : 1.5	S-07-20230807 ; 0 - 0.5 (ft)	14 [a]	No		
Chromium	39 / 39	0 : 0	17 : 79	S-07-20230807 ; 0 - 0.5 (ft)	67 [a]	Yes		
Copper	39 / 39	0 : 0	9.1 : 440	S-07-20230807 ; 0 - 0.5 (ft) S-10-20230808 ; 0 - 0.5 (ft)	217 [a]	Yes	Yes	3%
Lead	39 / 39	0 : 0	2.3 : 280	S-15-20230808 ; 0 - 0.5 (ft)	118 [a]	Yes	Yes	5%
Mercury	39 / 39	0 : 0	0.022 : 0.16	B-01-S1 ; 2.5 - 5 (ft)	5.5 [a]	No		
Nickel	39 / 39	0 : 0	15 : 60	S-18-20230808 ; 0 - 0.5 (ft)	980 [a]	No		
Potassium	39 / 39	0 : 0	340 : 1800	S-07-20230807 ; 0 - 0.5 (ft)	NA	NSL		
Sodium	39 / 39	0 : 0	130 : 1800	S-23-20230808 ; 0 - 0.5 (ft) S-07-20230807 ; 0 - 0.5 (ft)	NA	NSL		
Zinc	39 / 39	0 : 0	17 : 330	S-22-20230808 ; 0 - 0.5 (ft)	360 [a]	No		

Notes:

Chemicals of ecologcial concern (CEC) are chemicals for which the maximum detected concentration exceeded the lowest screening level.

[a] Ecological Indicator Soil concentrations (EISC) for protection of wildlife obtained from Table 5.1 of State of Washington Department of Ecology's Terrestrial Ecological Evaluations under the Model Toxics Control Act.

[b] Region 4 soil Screening Values for Hazardous Waste Sites obtained from Table 3 of Region 4 Ecological Risk Assessment Supplemental Guidance.

ft = feet

bgs = below ground surface

mg/kg = milligrams per kilogram

NA = not available

ND = not detected above reporting limit

NSL = no screening level available

TABLE F-3
SUMMARY STATISTICS AND SELECTIONS OF CHEMICALS OF ECOLOGICAL CONCERN: SOIL (0 TO 6 FT BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Constituents	Frequency of Detect	Range of Reporting Limit (mg/kg)	Range of Detected Concentrations (mg/kg)	Sample Location with Maximum Detected Concentration	Ecological Screening Levels	Chemical of Ecological Concern?	Conditions for Compliance to use Statistical Methods	
					Wildlife		CEC maximum detect > 2xSL?	Frequency of Exceedance over SL
Volatile Organic Compounds (mg/kg)								
1,1,1-Trichloroethane	0 / 33	0.031 : 0.61	ND : ND		260 [b]	ND		
1,1-Dichloroethene	1 / 33	0.031 : 0.61	0.024 : 0.024	S-10-20230821 ; 0 - 0.5 (ft)	11 [b]	No		
1,2,3-Trichlorobenzene	2 / 33	0.062 : 1.2	0.046 : 0.078	B-03-S1 ; 2.5 - 5 (ft)	NA	NSL		
1,2,4-Trichlorobenzene	0 / 33	0.062 : 1.2	ND : ND		0.27 [b]	ND		
1,2,4-Trimethylbenzene	5 / 33	0.031 : 0.61	0.028 : 0.21	S-01-20230808 ; 0 - 0.5 (ft)	NA	NSL		
1,2-Dibromoethane (Ethylene Dibromide)	0 / 33	0.016 : 0.3	ND : ND		NA	ND		
1,2-Dichlorobenzene	0 / 33	0.031 : 0.61	ND : ND		0.92 [b]	ND		
1,3,5-Trimethylbenzene	1 / 33	0.031 : 0.61	0.12 : 0.12	S-01-20230808 ; 0 - 0.5 (ft)	NA	NSL		
2-Phenylbutane (sec-Butylbenzene)	1 / 33	0.031 : 0.61	0.0089 : 0.0089	B-03-S1 ; 2.5 - 5 (ft)	NA	NSL		
Benzene	3 / 33	0.016 : 0.062	0.0041 : 0.094	B-07-S1 ; 1 - 2.5 (ft)	24 [b]	No		
Chloroform (Trichloromethane)	0 / 33	0.016 : 0.3	ND : ND		8 [b]	ND		
Cymene (p-Isopropyltoluene)	6 / 33	0.031 : 0.12	0.011 : 1.4	B-07-S1 ; 1 - 2.5 (ft)	NA	NSL		
Ethylbenzene	4 / 33	0.031 : 0.61	0.028 : 0.059	S-15-20230808 ; 0 - 0.5 (ft)	5.16 [b]	No		
Isopropylbenzene (Cumene)	3 / 33	0.031 : 0.61	0.0097 : 0.027	S-01-20230808 ; 0 - 0.5 (ft)	NA	NSL		
m,p-Xylenes	5 / 33	0.031 : 0.61	0.058 : 0.11	S-01-20230808 ; 0 - 0.5 (ft)	1.4 [b]	No		
Methylene chloride (Dichloromethane)	0 / 33	0.19 : 3.8	ND : ND		2.6 [b]	ND		
Naphthalene	3 / 33	0.12 : 2.3	0.099 : 2.2	S-01-20230808 ; 0 - 0.5 (ft)	3.4 [b]	No		
n-Butylbenzene	1 / 33	0.031 : 0.61	0.02 : 0.02	B-03-S1 ; 2.5 - 5 (ft)	NA	NSL		
n-Propylbenzene	0 / 33	0.031 : 0.61	ND : ND		NA	ND		
o-Xylene	5 / 33	0.031 : 0.61	0.011 : 0.13	S-01-20230808 ; 0 - 0.5 (ft)	1.4 [b]	No		
Styrene	1 / 33	0.031 : 0.61	0.016 : 0.016	S-07-20230807 ; 0 - 0.5 (ft)	NA	NSL		
Tetrachloroethene	0 / 33	0.031 : 0.61	ND : ND		0.18 [b]	ND		
Toluene	6 / 33	0.047 : 0.91	0.016 : 0.15	B-05-S1 ; 1 - 2.5 (ft)	23 [b]	No		
Trichlorofluoromethane (CFC-11)	1 / 33	0.062 : 1.2	0.13 : 0.13	S-10-20230821 ; 0 - 0.5 (ft)	16.4 [b]	No		
Semi-Volatile Organic Compounds (mg/kg)								
1-Methylnaphthalene	5 / 32	0.029 : 0.81	0.011 : 0.047	S-03-20230807 ; 0 - 0.5 (ft)	NA	NSL		
2,4-Dimethylphenol	1 / 32	0.19 : 5.4	1.6 : 1.6	S-03-20230807 ; 0 - 0.5 (ft)	NA	NSL		
2-Methylnaphthalene	5 / 32	0.049 : 1.3	0.017 : 0.073	S-23-20230808 ; 0 - 0.5 (ft)	16 [b]	No		
2-Methylphenol (o-Cresol)	3 / 33	0.15 : 3	0.042 : 3.7	S-15-20230808 ; 0 - 0.5 (ft)	580 [b]	No		
3&4-Methylphenol	8 / 32	0.19 : 2.7	0.023 : 2.8	S-15-20230808 ; 0 - 0.5 (ft)	3.49 [b]	No		
3-Nitroaniline	2 / 31	0.29 : 8.1	0.82 : 1.1	S-14-20230808 ; 0 - 0.5 (ft)	NA	NSL		
Acenaphthene	5 / 32	0.039 : 1.1	0.018 : 0.19	S-03-20230807 ; 0 - 0.5 (ft)	130 [b]	No		
Acenaphthylene	2 / 32	0.024 : 0.67	0.016 : 0.023	S-03-20230807 ; 0 - 0.5 (ft)	130 [b]	No		
Anthracene	5 / 32	0.059 : 1.6	0.06 : 3.3	S-03-20230807 ; 0 - 0.5 (ft)	210 [b]	No		
Benzo(a)anthracene	11 / 32	0.039 : 1.1	0.014 : 13	S-03-20230807 ; 0 - 0.5 (ft)	0.73 [b]	Yes	Yes	9%
Benzo(a)pyrene	8 / 32	0.059 : 1.6	0.024 : 9.4	S-03-20230807 ; 0 - 0.5 (ft)	12 [a]	No		
Benzo(b)fluoranthene	11 / 32	0.039 : 1.1	0.022 : 13	S-03-20230807 ; 0 - 0.5 (ft)	44 [b]	No		
Benzo(g,h,i)perylene	5 / 32	0.059 : 1.6	0.081 : 3.5	S-03-20230807 ; 0 - 0.5 (ft)	NA	NSL		
Benzo(k)fluoranthene	2 / 32	0.059 : 1.6	0.39 : 6.5	S-03-20230807 ; 0 - 0.5 (ft)	71 [b]	No		
Benzoic acid	5 / 32	3.9 : 110	1.3 : 2.1	S-14-20230808 ; 0 - 0.5 (ft)	1 [b]	Yes	Yes	16%
Benzyl Alcohol	3 / 32	0.97 : 27	0.11 : 0.28	S-14-20230808 ; 0 - 0.5 (ft)	120 [b]	No		
bis(2-Ethylhexyl)phthalate	12 / 33	0.59 : 16	0.12 : 13	S-01-20230808 ; 0 - 0.5 (ft)	0.02 [b]	Yes	Yes	36%
Butyl benzylphthalate (BBP)	1 / 32	0.19 : 5.4	4.1 : 4.1	S-01-20230808 ; 0 - 0.5 (ft)	90 [b]	No		
Carbazole	6 / 32	0.15 : 4	0.014 : 1.5	S-03-20230807 ; 0 - 0.5 (ft)	79 [b]	No		
Chrysene	14 / 32	0.059 : 1.6	0.015 : 14	S-03-20230807 ; 0 - 0.5 (ft)	3.1 [b]	Yes	Yes	3%
Dibenz(a,h)anthracene	2 / 32	0.049 : 1.3	0.11 : 1.5	S-03-20230807 ; 0 - 0.5 (ft)	14 [b]	No		
Dibenzofuran	6 / 32	0.15 : 4	0.0075 : 0.16	S-03-20230807 ; 0 - 0.5 (ft)	NA	NSL		
Dimethyl phthalate	2 / 32	0.15 : 4	0.0095 : 0.086	S-14-20230808 ; 0 - 0.5 (ft)	38 [b]	No		
Di-n-butylphthalate (DBP)	2 / 32	0.49 : 13	0.061 : 0.27	B-03-S1 ; 2.5 - 5 (ft)	0.011 [b]	Yes	Yes	16%
Di-n-octyl phthalate (DnOP)	0 / 32	0.15 : 4	ND : ND		0.91 [b]	ND		
Fluoranthene	16 / 32	0.04 : 1.1	0.013 : 22	S-03-20230807 ; 0 - 0.5 (ft)	22 [b]	No		
Fluorene	5 / 32	0.024 : 0.67	0.012 : 0.24	S-03-20230807 ; 0 - 0.5 (ft)	250 [b]	No		
Indeno(1,2,3-cd)pyrene	7 / 32	0.039 : 1.1	0.012 : 4.3	S-03-20230807 ; 0 - 0.5 (ft)	71 [b]	No		
Naphthalene	13 / 33	0.024 : 0.67	0.0058 : 0.2	S-07-20230807 ; 0 - 0.5 (ft)	3.4 [b]	No		
N-Nitrosodiphenylamine	0 / 32	0.058 : 1.6	ND : ND		0.545 [b]	ND		
Pentachlorophenol	1 / 32	0.39 : 11	5.8 : 5.8	B-07-S1 ; 1 - 2.5 (ft)	4.5 [a]	Yes		
Phenanthrene	14 / 32	0.06 : 1.6	0.0067 : 14	S-03-20230807 ; 0 - 0.5 (ft)	11 [b]	Yes		
Phenol	4 / 33	0.15 : 3	0.057 : 0.72	S-15-20230808 ; 0 - 0.5 (ft)	37 [b]	No		
Pyrene	15 / 32	0.06 : 1.6	0.014 : 20	S-03-20230807 ; 0 - 0.5 (ft)	23 [b]	No		

TABLE F-3
SUMMARY STATISTICS AND SELECTIONS OF CHEMICALS OF ECOLOGICAL CONCERN: SOIL (0 TO 6 FT BGS)
WASHINGTON STATE DOE
TREOIL INDUSTRIES PROPERTY
FERNDALE, WASHINGTON

Constituents	Frequency of Detect	Range of Reporting Limit (mg/kg)	Range of Detected Concentrations (mg/kg)	Sample Location with Maximum Detected Concentration	Ecological Screening Levels	Chemical of Ecological Concern?	Conditions for Compliance to use Statistical Methods	
					Wildlife		CEC maximum detect > 2xSL?	Frequency of Exceedance over SL
Total Petroleum Hydrocarbons (mg/kg)								
Total Petroleum Hydrocarbons (C10-C24), DRO Silica-Ge	6 / 6	0 : 0	400 : 41000	S-15-20230808 ; 0 - 0.5 (ft)	6000 [a]	Yes	Yes	17%
Total Petroleum Hydrocarbons (C24-C36), MRO Silica-G	6 / 6	0 : 0	800 : 8000	S-15-20230808 ; 0 - 0.5 (ft)	NA	NSL		
VPH (mg/kg)								
Pentane	1 / 12	0.813 : 1.91	1.98 : 1.98	FD01 [B-05-S1]; 1 - 2.5 (ft)	NA	NSL		
Inorganic Compounds (mg/kg)								
Arsenic	33 / 33	0 : 0	1.6 : 46	S-07-20230807 ; 0 - 0.5 (ft)	132 [a]	Yes		
Cadmium	33 / 33	0 : 0	0.045 : 1.5	S-07-20230807 ; 0 - 0.5 (ft)	14 [a]	No		
Chromium	33 / 33	0 : 0	17 : 79	S-07-20230807 ; 0 - 0.5 (ft)	67 [a]	Yes		
Copper	33 / 33	0 : 0	9.1 : 440	S-07-20230807 ; 0 - 0.5 (ft) S-10-20230808 ; 0 - 0.5 (ft)	217 [a]	Yes	Yes	3%
Lead	33 / 33	0 : 0	2.3 : 280	S-15-20230808 ; 0 - 0.5 (ft)	118 [a]	Yes	Yes	6%
Mercury	33 / 33	0 : 0	0.022 : 0.16	B-01-S1 ; 2.5 - 5 (ft)	5.5 [a]	No		
Nickel	33 / 33	0 : 0	15 : 60	S-18-20230808 ; 0 - 0.5 (ft)	980 [a]	No		
Potassium	33 / 33	0 : 0	340 : 1800	S-07-20230807 ; 0 - 0.5 (ft)	NA	NSL		
Sodium	33 / 33	0 : 0	130 : 1800	S-23-20230808 ; 0 - 0.5 (ft)	NA	NSL		
Zinc	33 / 33	0 : 0	17 : 330	S-07-20230807 ; 0 - 0.5 (ft) S-22-20230808 ; 0 - 0.5 (ft)	360 [a]	No		

Notes:

Chemicals of ecologcial concern (CEC) are chemicals for which the maximum detected concentration exceeded the lowest screening level.

[a] Ecological Indicator Soil concentrations (EISC) for protection of wildlife obtained from Table 5.1 of State of Washington Department of Ecology's Terrestrial Ecological Evaluations under the Model Toxics Control Act.

[b] Region 4 soil Screening Values for Hazardous Waste Sites obtained from Table 3 of Region 4 Ecological Risk Assessment Supplemental Guidance.

ft = feet

bgs = below ground surface

mg/kg = milligrams per kilogram

NA = not available

ND = not detected above reporting limit

NSL = no screening level available