



MEMORANDUM

Date: June 26, 2024

To: Nancy Sawka, RG, Sr. Project Manager, Oregon Department of Environmental Quality (DEQ)

From: Andrew Bisbee, RG, Sr. Project Manager, Apex Companies, LLC (Apex)

Cc: Mary Camarata, Regional Solutions Coordinator, DEQ
Mike Stevens, PE, Principal Engineer, Apex
Tess Chadil, Sr. Project Manager, Apex

Re: King Salvage (Former) Site, April 2024 Supplemental Site Investigation

SUPPLEMENTAL SITE INVESTIGATION – APRIL 2024

In April 2024, Apex Companies, LLC (Apex) completed the supplemental site investigation (SSI) direct-push soil sampling at the former King Salvage site (ECSI #2751) located at 109 King Place in Toledo, Oregon (the Site; Figures 1 and 2). The scope of work was performed in accordance with the Apex SSI Work Plan (Work Plan, dated October 24, 2023). The scope of the Work Plan included collecting and analyzing additional shallow subsurface soil and streambed sediment samples with the purpose of refining previous incremental sampling data that was collected by Stantec Consulting Services, Inc. (Stantec) as summarized in the *Stantec Phase II Environmental Site Assessment Report* (dated May 6, 2022) and follow-up test pit exploration activities conducted by Apex as summarized in the *Apex Test Pit Investigation Summary* (dated August 10, 2022). The focus of the SSI was to understand the source, magnitude, and extent of contamination that will be addressed in the revised Analysis of Brownfield Cleanup Alternatives (ABCA). This memorandum was prepared for the Oregon Department of Environmental Quality (DEQ) under Task 3 of Task Order 066-23-14. The following sections summarize the recent SSI scope of work performed and laboratory analytical soil data results.

CONCEPTUAL SITE MODEL

A conceptual site model (CSM) considers physical properties, the nature and extent of contamination, and potential exposure pathways under current and potential future uses. This section presents a CSM for the Site based on the information available at the time of this report.

Topography and Geology. According to the United States Geological Survey (USGS) 7.5 Minute Quadrangle Toledo North 44123-F8, the Site gently slopes to the southwest towards Beaver Creek. A tributary to Beaver Creek is located on-site, flowing north-south. Beaver Creek flows into Depot Slough, which flows into the Yaquina River approximately 4 miles south of the Site, just south of Toledo, Oregon.

Site elevations range from approximately 55 feet above mean sea level (msl) to 20 feet above msl. The Site is located within the Coast Range geologic province, which consists of a heavily vegetated, elongated province initially

formed by a volcanic island chain that collided with North America approximately 50 million years ago. The Site is underlain by Oligocene-aged marine sedimentary rocks of the Yaquina Formation (USGS, 1976).

The Site is located between the Cascade Range and the Pacific Ocean. Principal features of the topography of the region are rounded hills and narrow winding coastal valleys, with coastal plains broken at points by rugged headlands. The Site is located within a ravine which terminates at Highway 20 to the south and has an approximate floor elevation of 20 feet above msl at its lowest point. The Site is bordered to the north, east, and west by forested terrain with elevations exceeding 300 feet above msl (TechLaw, 2009).

Hydrogeology. The Lincoln County coastal area is underlain by tertiary volcanic and sedimentary rocks of low permeability that provide little yield in water wells. Quaternary marine terrace deposits of semi-consolidated sand border the western portion of the county and are typically the most productive aquifers. Groundwater flow direction is generally gravity-driven towards surface water within the County (USGS, 1977). Fracturing may form localized permeable zones with well yields reaching up to 100 gallons per minute. Water-bearing characteristics of the aquifer underlying the Site are highly variable (USGS, 1983).

According to the Removal Evaluation Report (TechLaw, 2009), groundwater has been observed to discharge in several surficial seeps at the Site from the surrounding valley embankments, including the area above the automobile crusher.

Contaminants of Interest. According to the Phase II Site Investigation Report prepared by Stantec (May 2022) and the SSI completed by Apex (Apex, 2023), the contaminants of interest (COI) include total petroleum hydrocarbons (TPH) and semi-volatile organic compounds (SVOCs), specifically bis(2-ethylhexyl)-phthalate, total high-molecular-weight polycyclic aromatic hydrocarbons (HPAH), lead, mercury, and dioxins and furans (DF).

Nature and Extent of Contamination. Because of the waste removal activities through February 2022, most of the bulky waste on-site has been removed. A total of 117.25 tons of miscellaneous solid waste, 80.01 tons of vehicle tires, and 109.9 tons of metal was removed from the Site by Table Mountain and disposed of or recycled by Dahl. In addition, Table Mountain removed 26 vehicles from the Site (19 vehicles from near-stream areas and seven vehicles from upland areas). Prior to removing the vehicles, Table Mountain removed approximately 20 gallons of oil, 8 gallons of gasoline, and 1 gallon of coolant from the vehicles. ACT Enviro removed three aboveground storage tanks, five totes, and seven drums from the Site. Alpine removed approximately 1.13 tons of debris from the Site, which were characterized as asbestos-containing or asbestos-contaminated waste.

However, the geophysical survey identified 30 areas as anomalies that may contain buried wastes. In addition, approximately 15 areas were observed on-site that contain remaining solid waste aboveground, including scrap metal, tires, plastic, car parts, an empty drum, and a small tank. The purpose of the Phase II completed by Stantec in May 2022 and the SSI completed in 2023 by Apex was to further evaluate potential risk to human health and ecological receptors and identify the potential need for continued cleanup activities.

Locality of the Facility. The locality of the facility (LOF) is defined as locations where a human or ecological receptor contacts or is reasonably likely to come into contact with facility-related hazardous substances. The term "Facility" is defined (in both ORS 465.200 and OAR 340-122-0115) to include the equipment or property where the release occurred and where the release has come to be located. Based on the conservative evaluation of the chemical data discussed above, the on-site impacts of historic salvage use are distributed widely across the Site with the relatively highest impacts being observed in the vicinity of specific operations (e.g. former crusher). Based on the historic use and for the purposes of risk screening, the entirety of the Site will be considered for screening against the applicable RBCs.

Summary of Land Use. The Site is zoned as Timber Conservation (T-C), and while the property is currently vacant, it has historically been used as a salvage yard and uncontrolled waste repository. The land zoning has conditional

use for commercial timber operations and recreational purposes but generally does not allow for residential use. Short-term exposure to construction or excavation workers is reasonable to expect.

The expected future use of the Site is associated with conservation. No inhabited structures are anticipated in association with this Site use; disturbance of Site soil would be limited to construction workers, timber industry workers, and Site operations. It is anticipated that significant soil disturbance would be limited where possible based on the Site history of contamination.

Summary of Water Use. The surrounding properties are supplied with water from local shallow supply wells or cisterns. After performing a well search with the Oregon Water Resource Department (OWRD) well record database, no residential water wells or drinking water supply wells have been identified in the vicinity of the Site (within a half mile). Local knowledge and research identified a shallow residential well or cistern on the residential property south of the Site.

The nearest surface water bodies are on-site wetlands and an unnamed tributary draining off-site to the south into Beaver Creek. Contamination migrating through groundwater from the Site has the potential to intersect these surface water bodies and groundwater due to the nature and extent of contamination from historic use and proximity to on-site and off-site water resources.

The topography of the Site is generally sloping towards the south-southwest. Surface water at the Site is not collected by a stormwater system and is assumed to run off into the surrounding waterways or infiltrate to the subsurface (with the majority of precipitation being infiltrated given the unimproved site surface).

For the anticipated site use (likely for conservation), there is no known plan to use groundwater for irrigation or any other use. Wetlands and surface water features will fluctuate with seasonal precipitation and local hydrology patterns. Permit-authorized temporary impacts to wetlands may be proposed with future Site cleanup activities but are not expected to be associated with future use.

EXPOSURE PATHWAY ANALYSIS

Potential Receptors. Potential human or ecological receptors include those that may be exposed to the chemicals of potential concern (COPCs) under the current or reasonably likely future land and water use scenarios. The land is currently vacant, and reasonably likely future uses are associated with conservation, so human exposures would be limited to potential future construction and excavation workers (no residential or occupational exposures).

The primary potential for exposures would be related to ecological exposures (terrestrial and aquatic). A complete discussion of potential ecological receptors is included in the Ecological Risk Assessment prepared for the Site (dated June 2024).

The remainder of this section provides additional detail regarding potential human health exposure pathways at the Site.

Exposure Pathways for Soil. Exposure pathways describe the physical connection or potential connection between a receptor and a potential contaminant source. Identifying a pathway as complete or potentially complete does not, by itself, indicate that there is an unacceptable risk, only that a receptor could be exposed to a contaminant source if such a source exists. Potentially complete exposure pathways for soil are listed below.

- **Direct Contact (Soil Ingestion, Dermal Contact, and Inhalation).** This pathway is potentially complete; however, the exposures associated with the primary future Site uses would be limited to the ground surface which could be developed as part of any redevelopment or Site operations. Construction worker and

industry worker exposures are potentially complete for both surface soil and subsurface soil (such as for utility maintenance or future redevelopment of the property).

- Volatilization to Outdoor Air. This pathway is potentially complete under current and future land uses as contaminants of interest (COIs) have been detected in soil at the Site. While no ongoing occupational or residential uses would be associated with the Site, screening against residential exposure would be conservative for vapor migration to the adjacent properties should future land use increase development in the vicinity. Based on the zoning and proposed land use, this is not deemed to be necessary at this time.
- Leaching to Groundwater. This pathway is potentially complete under current and reasonably likely future land use as groundwater in the vicinity of the Site may be used for domestic supply (no other water supply is available in the vicinity of the Site).

Exposure Pathways for Groundwater. Potentially complete exposure pathways for groundwater are listed below.

- Direct Contact (Ingestion and Inhalation from Tap Water). This pathway is potentially complete. There is no current or future use of groundwater at the Site, but in the greater vicinity, there are potential shallow residential water wells (even though no wells were identified in the Oregon Well Record Search).
- Volatilization to Outdoor Air. This pathway is potentially complete under current and future land uses as COIs have previously been detected in groundwater at the Site. While no occupational or residential uses would be associated with the Site, screening against residential exposure would be conservative for vapor migration to the adjacent properties. Based on the zoning and proposed land use, this is not deemed to be necessary at this time.
- Groundwater in Excavation. This pathway is considered potentially complete under current and reasonably likely future land use based on the on-site interface between ground and surface water. Additionally, given the potential for ongoing Site cleanup activities, continued excavation and potential worker interaction with the groundwater is possible. Future use of groundwater is not anticipated, but surface water is expected to remain on site, though no proposed impacts to wetlands and regulated waters are known in association with potential land use following completion of permit-authorized cleanup activities.

DIRECT-PUSH SOIL SAMPLING SCOPE OF WORK

Apex completed the above SSI objectives in accordance with the Work Plan, which included the following tasks:

- Competitively procured Steadfast Services NW, LLC (Steadfast), a licensed drilling subcontractor;
- Staked the proposed locations of each borehole using a submeter Global Navigation Satellite System (GNSS) receiver to locate each boring, as shown on Figure 3;
- Oversaw Steadfast as they advanced 43 shallow boreholes to depths of between 3 and 5 feet below ground surface (bgs) with a tracked Geoprobe® push-probe rig:
 - o 40 shallow boreholes advanced to 3 feet bgs within DU-4 and its subunits;
 - o 3 shallow boreholes advanced to 5 feet bgs within DU-6;
 - o Each push-probe borehole was abandoned in accordance with OWRD regulations and procedures and consisted of backfilling each exploratory boring with granular bentonite and hydrating with water;
- Collected nine 5-point composite samples from three depth intervals across DU-4 (27 composite samples, nine of which were selected for laboratory analysis). Samples from DU-4 were collected from 0 to 1 foot bgs, 1 to 2 feet bgs, and 2 to 3 feet bgs. Sample aliquots from three discrete borings advanced within DU-6

were extended to a depth of 5 feet bgs to assess the vertical profile of contamination observed near the car crusher area (intervals of 0 to 1 foot bgs, 1 to 2 feet bgs, and 2 to 5 feet bgs);

- o DU-4 was divided into nine smaller subunits with 27 composite soil samples (135 aliquots);
 - o DU-6 remained one unit (no smaller subunits) with field screening and sampling of nine discrete soil samples (from each of three depths at three locations identified above). Note that based on discussions with DEQ while on-site, the proposed DU-6 borehole locations were moved approximately 20 feet west of the locations shown on the Work Plan to more accurately represent the Former Crusher Area;
- Advanced five shallow boreholes to depths of 3 feet bgs using a hand auger within subunit DU-4B, which was inaccessible by the push-probe rig due to significant vegetation and steep terrain;
- Collected three 5-point composite sediment samples from distributed reaches of the on-site stream network, including within units DU-3 and DU-5 and near the Former Crusher Area (unit DU-6);
- Collected four additional discrete soil samples at locations across the Site to allow for characterization of suspect media observed during the sampling event, such as burned or stained soil or other localized impacted areas;
 - o The nomenclature for discrete samples is as follows: for example, discrete soil sample DU-4C-4-2 represents soil collected down to 2 feet ("2") from the number "4" borehole within subunit "C" of decision unit "DU-4;"
 - o Discrete soil samples DU-4C-4-2, DU-4E-4-2, DU-4F-2-2, and DU-4F-5-2 exhibited strong petroleum-like odors, staining/discoloration (black), and relatively high photoionization detector (PID) readings, and were selected for diesel-range and polycyclic aromatic hydrocarbon (PAH) laboratory analysis. These samples were collected from boreholes near the vicinity and west/northwest of the former crusher area;
- Field-screened, logged, and photographed each borehole;
 - o Field screening was performed using a calibrated PID to screen headspace vapors and a sheen test to identify potential separate-phase hydrocarbons, as well as by documenting odors, staining, and/or discoloration.

LABORATORY ANALYTICAL PROGRAM

A total of 10 of the 27 composite soil samples (the 0- to 1-foot-bgs samples collected from DU-4 and DU-6) were selected for diesel- and oil-range total petroleum hydrocarbons (TPH-Dx), dioxins and furans, select metals, and PAH analysis to refine previous incremental sampling data. The five-point composite samples were selected to represent the top foot of soil within each decision subunit. Four discrete soil samples were also selected to characterize observed localized impacted areas as noted above. Additionally, a total of three composite streambed sediment samples were selected for analysis to inform the ecological risk assessment for the Site. Based on discussions with DEQ and the Site conditions encountered during the SSI activities, specific soil and sediment samples were selected and analyzed for the following analytes:

- TPH-Dx by Method NWTPH-Dx with silica gel cleanup:
 - o 27 soil composites, three streambed sediment composites, and four discrete soil samples;
- Dioxins and furans by U.S. Environmental Protection Agency (EPA) Method 8290 (a limited subset of samples determined in consultation with DEQ, based on field screening and laboratory analytical results). Field screening procedures included using a calibrated PID and headspace method to provide a qualitative indication of the presence of volatile organic compounds (VOCs). Other field screening methodology

included inspecting each soil and sediment sample for chemical-like odors and discoloration (such as black char) and for sheens using the sheen test:

- o 10 soil composites and three streambed sediment samples;
- Select metals (Resource Conservation and Recovery Act [RCRA] 8, plus copper, zinc, and nickel) by EPA Method 6010:
 - o 12 soil composites (including two follow-ups), three streambed sediment composites, and one follow-up discrete soil sample; and
- PAHs by EPA Method 8270SIM:
 - o 10 soil composites and three streambed sediment samples.

All composite and discrete soil and streambed sediment samples collected were submitted via chain-of-custody to Pace Analytical (Pace) under Oregon Price Agreement #8903 for select analyses as determined by DEQ. Samples were placed in new uniquely-labeled unpreserved glass jars in a chilled cooler and shipped overnight to Pace to meet the recommended method holding times.

FIELD SCREENING RESULTS AND OBSERVATIONS

Apex conducted field screening as defined in the Work Plan and according to Apex Standard Operating Procedure (SOP) No. 2.1 – *Standard Field Screening Procedures*. Field screening used a calibrated PID with headspace method to provide a qualitative indication of the presence of VOCs. Other field screening methodology included inspecting each soil and sediment sample for petroleum-like odors, discoloration, and sheens using the sheen test. Suspect contamination was observed in several boreholes, including DU-4C-4-2, DU-4E-4-2, DU-4F-2-2, and DU-4F-5-2. Observations were as follows:

- DU-4C-4-2. Petroleum-like wispy iridescent sheen with elevated PID reading (28.4 parts per million [ppm]). The first borehole attempt recovered a solid wood core with strong chemical odor; the shoe and rod of the drill penetrated the end of what appeared to be a buried railroad tie.
- DU-4E-4-2. Strong petroleum-like odor with black staining/discoloration and wispy iridescent sheen. An elevated PID reading (22.0 ppm) was collected at a depth of approximately 1.5 feet bgs.
- DU-4F-2-2. Strong petroleum-like odor with black staining/discoloration and relatively high PID reading (309.2 ppm) at approximately 1.5 feet bgs. Suspect contamination was localized between approximately 1 and 2 feet bgs.
- DU-4F-5-2. Strong petroleum-like odor with black staining/discoloration and wispy iridescent sheen. An elevated PID reading (42.3 ppm) was collected at approximately 1 foot bgs. Suspect contamination was localized between approximately 1 and 2 feet bgs.

The deeper borings, advanced to 5 feet bgs within DU-6 near the former car crusher area, consisted of saturated silts and fat clays that were submerged under approximately 1 foot of water at the time of drilling. Relatively low PID readings ranged from 1.0 to 2.3 ppm, and no petroleum-like odors, staining, and/or discoloration were observed in the deeper borings.

LABORATORY ANALYTICAL RESULTS AND RISK-BASED SCREENING

The analytical data is presented on Tables 1 and 2 for the soil data and sediment data, respectively. Summaries of the risk-based concentration (RBC) and risk screening level (RSL) exceedances are presented in Tables 3 and 4. Data was screened against applicable DEQ RBCs to assess whether the Site may pose an unacceptable risk to human health, and the metals concentrations were compared against the DEQ background metals concentrations for

the Coast Range. Under current and reasonably likely future land uses, the RBCs for residential and occupational exposures would not be applicable, so the data are screened against the construction and excavation worker RBCs.

To assess the potential for unacceptable risks to ecological receptors, the analytical results were also compared to the applicable ecological RSLs (DEQ tables and appendices for *Conducting Ecological Risk Assessments*, September 2020).

The laboratory analytical results and risk screening results are presented below. The RBCs used in the risk screening were chosen based on the current and reasonably likely future receptors and probable exposure pathways. The referenced RBCs and RSLs are listed with the data in Tables 1 and 2.

Diesel by Method NWTPH-Dx. The relatively highest concentrations of diesel-range TPH were detected in composite soil sample DU-4I-Comp-1 and discrete soil sample DU-4F-5-2 at 4,070 milligrams per kilogram (mg/kg) and 15,900 mg/kg, respectively, with the latter result being above the DEQ RBC for the soil ingestion, dermal contact, and inhalation exposure pathway under the construction worker receptor scenario. Field screening results observed from decision unit DU-4I exhibited no evidence of petroleum contamination. The discrete soil sample DU-4F-5-2 was selected for analysis due to field observations of a localized impacted area between 1 and 2 feet bgs, including petroleum-like odor, staining and discoloration, and relatively high PID readings. No ecological RSLs are established for TPH.

Dioxins and Furans by EPA Method 8290. The dioxin toxic equivalency (TEQ) for each sample result was calculated by multiplying each dioxin congener by its corresponding established toxic equivalency factor (TEF), including for the following compounds: 2,3,7,8-TCDD, 1,2,3,7,8-PeCDD, 1,2,3,4,7,8-HxCDD, 1,2,3,6,7,8-HxCDD, 1,2,3,7,8,9-HxCDD, 1,2,3,4,6,7,8-HpCDD, and OCDD. The results were then summed as an overall TEQ and compared with the applicable 2,3,7,8-TCDD (dioxin) equivalent DEQ RBC for the soil ingestion, dermal contact, and inhalation exposure pathway and construction worker and excavation worker receptor scenarios. The relatively highest dioxin TEQ was calculated from composite soil sample DU-4C-Comp-1 at 51.67 nanograms per kilogram (ng/kg), which is below the applicable construction worker DEQ RBC. TEQ for dioxin with a non-detect result was calculated by halving the method detection limit (MDL) then multiplying by its corresponding TEF. Samples reported with no detections were given the maximum MDL.

Calculated dioxin TEQs for all composite soil samples, except for DU-4B-Comp-1, exceeded applicable ecological RSLs for soil when compared to the 2,3,7,8-TCDD (dioxin) equivalent for several receptor scenarios, including for ground feeding birds and mammals and top consumer birds and mammals threatened and endangered (T&E) and non-T&E. Composite soil sample DU-4C-Comp-1 was the highest calculated dioxin TEQ result at 51.67 ng/kg and was approximately an order of magnitude above the Oregon DEQ RBC for the top consuming birds T&E (5.2 ng/kg). The next highest dioxin TEQ concentrations were calculated at 31.4 ng/kg and 5.295 ng/kg from composite soil samples DU-4F-Comp-1 and DU-4G-Comp-1, respectively. All other dioxin TEQs calculated were less than or equal to 3.202 ng/kg.

Select Metals by EPA Method 6010. Select metals were detected in concentrations above the DEQ clean fill screening values (Coast Range) in all the composite soil samples analyzed except for composite streambed sediment sample DU-3-SS-Comp-1. Composite soil sample DU-4C-Comp-1 had the relatively highest detected concentration of copper at 198 ppm. Composite soil sample DU-4E-Comp-1 had the relatively highest detected concentrations of selenium and silver at 10.5 ppm and 52.1 ppm, respectively. Composite soil sample DU-4F-Comp-1 had the relatively highest detected concentrations of cadmium (3.3 ppm), lead (342 ppm), and zinc (986 ppm). The relatively highest concentration of mercury (0.773 ppm) was detected in composite streambed sediment sample DU-6-SS-Comp-1.

Based on a discussion with DEQ regarding initial laboratory results, follow-up metals analysis was requested for composite soil samples DU-4F-Comp-2 and DU-4F-Comp-3 and for discrete soil sample DU-4F-5-2. Select metals

were detected in concentrations above the DEQ background metals (Coast Range) including the following analytes: cadmium, copper, lead, selenium, zinc, and mercury. Lead (1,460 ppm) was detected in discrete soil sample DU-4F-5-2 at concentrations exceeding the DEQ RBC for the soil ingestion, dermal contact, and inhalation exposure pathway and construction and excavation worker receptor scenarios.

Several discrete and composite soil samples and streambed sediment samples exceeded several ecological RSLs for soil and surface water. The highest exceedances of ecological RSLs for soil and surface water were detected in discrete soil sample DU-4F-5-2, composite soil sample DU-4F-Comp-1, and composite streambed sediment sample DU-6-SS-Comp-1. The highest lead concentration (1,460 ppm) was reported from discrete soil sample DU-4F-5-2 with a multiplier of between 8.6 and 132 times applicable ecological RSLs, but below the top consumer mammals non-T&E (1,600 ppm) wildlife exposure to soil.

PAHs by EPA Method 8270SIM. The PAH TEQs were calculated by multiplying each PAH congener concentration by its corresponding established TEF, including for the following compounds: benzo(a)pyrene (BaP), benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3cd)pyrene. The results were then summed as total TEQ and compared with the applicable equivalent DEQ RBC. The highest total TEQ (1.08 ppm) was detected in discrete soil sample DU-4F-5-2. All PAHs tested were detected in concentrations below the applicable DEQ RBCs for the soil ingestion, dermal contact, and inhalation exposure pathway and construction and excavation worker receptor scenarios, including DEQ RBCs for BaP equivalents. TEQs for PAHs with a non-detect result were calculated by halving the MDL then multiplying by their corresponding TEFs, since carcinogenic PAHs (cPAHs) were detected at the Site.

Toxic mobility equivalent concentration (TMEQ) was calculated for each cPAH at the Site by multiplying the concentration of the cPAH analyte by its corresponding TEF and relative mobility factor (RMF). The results were then summed as total TMEQ. The highest TMEQ (0.799 ppm) was detected in discrete soil sample DU-4F-5-2. The highest analytical results for cPAHs benzo(a)pyrene and dibenzo(a,h)anthracene with a TEF of 1 were detected from discrete soil sample DU-4F-5-2 at 0.786 ppm and 0.127, respectively. No PAHs were detected above the method limit of detection in the following composite soil and streambed sediment samples: DU-4B-Comp-1, DU-4D-Comp-1, DU-6-Comp-1, DU-3-SS-Comp-1, and DU-5-SS-Comp-1.

Discrete soil samples DU-4F-2-2 and DU-4F-5-2 and composite soil sample DU-4F-Comp-1 exceeded several ecological RSLs for soil, including direct toxicity to plants and ground feeding birds T&E and non-T&E.

CONCLUSIONS AND RECOMMENDATIONS

Apex completed the SSI activities at the former King Salvage Site that included direct-push soil and streambed sediment sampling and analysis to more thoroughly understand the magnitude and extent of contamination following the previous incremental sampling data collected by Stantec and the follow-up test pit exploration activities conducted by Apex. These understandings will inform the scope of the revised ABCA.

Apex conducted the shallow borehole investigation within established decision units and subunits of the approximately 0.86-acre area encompassing the central portion of the Site. This included the former car crusher area (approximately 0.14 acres) where the previous test pitting investigation soil analytical results and observations exhibited elevated concentrations of petroleum, PAHs, metals, and dioxins associated with historical salvage operations.

Based on the findings of this work, the contamination identified within the shallow Site soils extends beyond decision unit DU-6 and the former car crusher area to the subunits of decision unit DU-4, particularly:

- Subunit DU-4F where contamination was localized and exceeded construction worker DEQ RBCs for generic diesel and lead;

- Subunit DU-4G adjoining the former car crusher area and containing concentrations of several COPCs above ecological risk RSLs; and
- Subunit DU-4I where contamination exceeded applicable construction worker DEQ RBCs for residual-range TPH.

This SSI was focused primarily on approximately the upper foot of soils, with some discrete soil samples analyzed between 1 and 2 feet and one deeper composite soil sample analyzed between 2 and 3 feet. The laboratory analyzed composite soil samples (DU-4F-Comp-1, DU-4F-Comp-2, and DU-4F-Comp-3) from subunit DU-4F at three separate depth intervals (0 to 1 foot, 1 to 2 feet, and 2 to 3 feet bgs respectively) and reported general decreases in select metal concentrations with depth. The discrete soil samples exhibited localized petroleum contamination as observed in the field, and the laboratory confirmed elevated analyte concentrations within the 1- to 2.5-foot bgs range within subunit DU-4F.

Each of the discrete and composite soil samples tested for select metals exceeded one or more of their applicable ecological RSLs, and dioxin concentrations exceeded the ecological RSLs in all but one soil sample. The highest lead concentration (1,460 ppm) was reported from discrete soil sample DU-4F-5-2 with a multiplier of between 8.6 and 132 times the applicable ecological RSLs, but it was below the top consumer mammals non-T&E (1,600 ppm) wildlife exposure to soil. Composite soil sample DU-4C-Comp-1 had the highest calculated dioxin TEQ result at 51.67 ng/kg and was approximately an order of magnitude above the Oregon DEQ RBC for the top consuming birds T&E (5.2 ng/kg). These results suggest that additional assessment of the potential risk to ecological receptors is needed, which will be addressed in a forthcoming ecological risk assessment.

These results will collectively be used in the update to the Site ABCA to define the corrective action area (to depths between 1 and 2.5 feet bgs). They will also inform the evaluation of cleanup alternatives to address the localized petroleum contamination west of the car crusher (DU-4F) and the more widespread metals and dioxin concentrations that exceed the ecological RSLs in subunits DU-4G and DU-4I.

ATTACHMENTS

Table 1	Soil Analytical Results
Table 2	Sediment Analytical Results
Table 3	Summary RBC/RSL Exceedances – Soil
Table 4	Summary RBC/RSL Exceedances – Sediment
Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Decision Units
Figure 4	TPH-Dx Results
Figure 5	Select Metal Results
Figure 6	PAHs Results
Figure 7	Dioxins Results
Attachment A	Backup Documentation and Field Notes
Attachment B	Field Methods and Sampling Procedures
Attachment C	Analytical Laboratory Testing Program and Documentation

Table 1
Soil Analytical Results
Former King Salvage
Toledo, Oregon

Decision Unit:	4A			4B			4C				4D			4E				4F					4G			4H			4I			6		
Sample ID:	DU-4A-COMP-1	DU-4A-COMP-2	DU-4A-COMP-3	DU-4B-COMP-1	DU-4B-COMP-2	DU-4B-COMP-3	DU-4C-4-2	DU-4C-COMP-1	DU-4C-COMP-2	DU-4C-COMP-3	DU-4D-COMP-1	DU-4D-COMP-2	DU-4D-COMP-3	DU-4E-4-2	DU-4E-COMP-1	DU-4E-COMP-2	DU-4E-COMP-3	DU-4F-2-2	DU-4F-5-2	DU-4F-COMP-1	DU-4F-COMP-2	DU-4F-COMP-3	DU-4G-COMP-1	DU-4G-COMP-2	DU-4G-COMP-3	DU-4H-COMP-1	DU-4H-COMP-2	DU-4H-COMP-3	DU-4I-COMP-1	DU-4I-COMP-2	DU-4I-COMP-3	DU-6-COMP-1	DU-6-COMP-2	DU-6-COMP-5
Sample Date:	4/8/2024	4/8/2024	4/8/2024	4/10/2024	4/10/2024	4/10/2024	4/8/2024	4/8/2024	4/8/2024	4/8/2024	4/9/2024	4/9/2024	4/9/2024	4/8/2024	4/8/2024	4/8/2024	4/8/2024	4/9/2024	4/9/2024	4/9/2024	4/9/2024	4/9/2024	4/9/2024	4/9/2024	4/9/2024	4/9/2024	4/9/2024	4/9/2024	4/9/2024	4/9/2024	4/10/2024	4/10/2024	4/10/2024	
Total Petroleum Hydrocarbons, Diesel Extended Range by NWTPH-Dx in mg/kg																																		
Diesel Range Organics	25.8	14.7	2.47 J	6.75	<5.25	<5.08	141	382	5.26 J	5.32 J	5.97	<5.45	2.49 J	357	55	74.9	426	326	15900	231	18.1	435	182	3.8	<5.25	4.87 J	<5.90	2.1 J	4070	4.28 J	<5.39	32.1	<5.58	<6.11
Residual Range Organics	238	110	17.8	28.1	4.85 J	<12.7	5.41 J	120	14.5	35.4	27.8	6.01 J	8.05 J	500	374	274	649	1210	27100	1120	35.2	1060	345	<14.0	<13.1	23.9	7.81 J	8.86 J	13200	17.5	<13.5	122	<13.9	12.8 J
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270E-SIM (mg/kg)																																		
Anthracene	<0.00861	--	--	<0.00901	--	--	<0.00917	<0.00779	--	--	<0.00827	--	--	<0.00895	<0.00869	--	--	0.033	0.848	0.0704	--	--	<0.00754	--	--	<0.00842	--	--	0.00326 J	--	--	<0.00837	--	--
Acenaphthene	<0.00861	--	--	<0.00901	--	--	<0.00917	<0.00779	--	--	<0.00827	--	--	<0.00895	<0.00869	--	--	0.0714	0.356	0.0143	--	--	<0.00754	--	--	<0.00842	--	--	0.00351 J	--	--	<0.00837	--	--
Acenaphthylene	<0.00861	--	--	<0.00901	--	--	<0.00917	<0.00779	--	--	<0.00827	--	--	<0.00895	<0.00869	--	--	<0.00687	0.308	0.00477 J	--	--	<0.00754	--	--	<0.00842	--	--	<0.00839	--	--	<0.00837	--	--
Benzo(a)anthracene	0.00403 J	--	--	<0.00901	--	--	<0.00917	<0.00779	--	--	<0.00827	--	--	0.00664 J	0.00459 J	--	--	0.125	0.957	0.336	--	--	0.00587 J	--	--	<0.00842	--	--	0.0105	--	--	<0.00837	--	--
Benzo(a)pyrene	0.00316 J	--	--	<0.00901	--	--	<0.00917	<0.00779	--	--	<0.00827	--	--	0.00542 J	0.00323 J	--	--	0.133	0.786	0.184	--	--	0.00593 J	--	--	<0.00842	--	--	0.0126	--	--	<0.00837	--	--
Benzo(b)fluoranthene	0.0033 J	--	--	<0.00901	--	--	<0.00917	0.00262 J	--	--	<0.00827	--	--	0.0061 J	0.00398 J	--	--	0.122	0.934	0.212	--	--	0.00489 J	--	--	<0.00842	--	--	0.0143	--	--	<0.00837	--	--
Benzo(g,h,i)perylene	0.00314 J	--	--	<0.00901	--	--	<0.00917	<0.00779	--	--	<0.00827	--	--	<0.00895	<0.00869	--	--	0.0812	0.685	0.123	--	--	0.00869	--	--	<0.00842	--	--	0.0278	--	--	<0.00837	--	--
Benzo(k)fluoranthene	<0.00861	--	--	<0.00901	--	--	<0.00917	<0.00779	--	--	<0.00827	--	--	<0.00895	<0.00869	--	--	0.0432	0.327	0.0812	--	--	<0.00754	--	--	<0.00842	--	--	0.0034 J	--	--	<0.00837	--	--
Chrysene	<0.00861	--	--	<0.00901	--	--	<0.00917	<0.00779	--	--	<0.00827	--	--	0.00491 J	0.00385 J	--	--	0.151	0.775	0.375	--	--	0.00452 J	--	--	<0.00842	--	--	0.00661 J	--	--	<0.00837	--	--
Dibenz(a,h)anthracene	<0.00861	--	--	<0.00901	--	--	<0.00917	<0.00779	--	--	<0.00827	--	--	<0.00895	<0.00869	--	--	0.0157	0.127 J	0.025	--	--	<0.00754	--	--	<0.00842	--	--	<0.00839	--	--	<0.00837	--	--
Fluoranthene	0.00673 J	--	--	<0.00901	--	--	<0.00917	<0.00779	--	--	<0.00827	--	--	0.016	0.00657 J	--	--	0.321	2.41	0.798	--	--	<0.0127	--	--	<0.00842	--	--	0.0221	--	--	<0.00837	--	--
Fluorene	<0.00861	--	--	<0.00901	--	--	0.0154	<0.00779	--	--	<0.00827	--	--	0.0531	<0.00869	--	--	0.0943	0.55	0.016	--	--	<0.00754	--	--	<0.00842	--	--	<0.00839	--	--	<0.00837	--	--
Indeno(1,2,3-cd)pyrene	0.00284 J	--	--	<0.00901	--	--	<0.00917	<0.00779	--	--	<0.00827	--	--	0.00312 J	<0.00869	--	--	0.05	0.636	0.121	--	--	0.00327 J	--	--	<0.00842	--	--	0.0155	--	--	<0.00837	--	--
Naphthalene	<0.0287	--	--	<0.0300	--	--	<0.0306	<0.0260	--	--	<0.0276	--	--	0.875	0.0279 J	--	--	13.7	2.1	0.0727	--	--	0.00794 J	--	--	<0.0281	--	--	0.0333	--	--	<0.0279	--	--
Phenanthrene	0.00419 J	--	--	<0.00901	--	--	0.0287	0.0174	--	--	<0.00827	--	--	0.0584	0.00387 J	--	--	0.35	2.8	0.305	--	--	0.0187	--	--	<0.00842	--	--	0.0176	--	--	<0.00837	--	--
Pyrene	0.00563 J	--	--	<0.00901	--	--	<0.00917	0.0059 J	--	--	<0.00827	--	--	0.0201	0.0117	--	--	0.411	4.12	0.655	--	--	0.0322	--	--	<0.00842	--	--	0.0375	--	--	<0.00837	--	--
1-Methylnaphthalene	<0.0287	--	--	<0.0300	--	--	<0.0306	<0.0260	--	--	<0.0276	--	--	0.746	0.00995 J	--	--	8.7	1.16	0.0461	--	--	<0.0251	--	--	<0.0281	--	--	0.0804	--	--	<0.0279	--	--
2-Methylnaphthalene	<0.0287	--	--	<0.0300	--	--	<0.0306	<0.0260	--	--	<0.0276	--	--	1.09	0.0185 J	--	--	17.5	3.4	0.107	--	--	0.0123 J	--	--	0.00734 J	--	--	0.094	--	--	<0.0279	--	--
2-Chloronaphthalene	<0.0287	--	--	<0.0300	--	--	<0.0306	<0.0260	--	--	<0.0276	--	--	<0.0298	<0.0290	--	--	<0.0229	<0.256	<0.0253	--	--	<0.0251	--	--	<0.0281	--	--	<0.0280	--	--	<0.0279	--	--
Toxic Equivalent Concentration TEQ (ND=1/2 DL)	0.005539	--	--	0.006803	--	--	0.006923	0.005754	--	--	0.006244	--	--	0.008181	0.005839	--	--	0.1609	1.08095	0.23871	--	--	0.008299	--	--	0.006357	--	--	0.016732	--	--	0.006319	--	--
Toxic Equivalent Concentration TEQ (ND = 0)	0.004635	--	--	0	--	--	0	0.000262	--	--	0	--	--	0.007286	0.004536	--	--	0.1609	1.08095	0.23871	--	--	0.007545	--	--	0	--	--	0.016312	--	--	0	--	--
Toxic Mobility Equivalent (TMEQ) (ND=1/2)	0.003252	--	--	0.004614	--	--	0.004696	0.003979	--	--	0.004235	--	--	0.005538	0.003332	--	--	0.134567	0.79862	0.18688	--	--	0.006029	--	--	0.004312	--	--	0.012807	--	--	0.004286	--	--
Total Metals by EPA Method 6010d and Method 7471B in mg/kg																																		
Arsenic	6.9	--	--	8.3	--	--	--	9.24	--	--	7.81	--	--	--	3.75	--	--	--	11	4.77	5.3	4.71	3.43	--	--	8.31	--	--	7.74	--	--	8.99	--	--
Barium	73.5	--	--	79.5	--	--	--	93.8	--	--	79.4	--	--	--	128	--	--	--	421	130	78.9	123 J	114	--	--	66.9	--	--	129	--	--	53.4	--	--
Cadmium	0.233 J	--	--	0.229 J	--	--	--	1.95	--	--	0.565 J	--	--	--	1.74	--	--	--	9.02	3.3	<0.674	1.38	0.737	--	--	0.53 J	--	--	1.52	--	--	0.252 J	--	--
Chromium	42.4	--	--	11.7	--	--	--	74.3	--	--	225 J3,J5	--	--	--	445	--	--	--	95.9	103	20.4	25.3 J	9.69	--	--	14.5	--	--	21.8	--	--	10.3	--	--
Copper	24.6	--	--	22.4	--	--	--	198	--	--	31.4	--	--	--	129	--	--	--	337	174	12.5	38.8 J	32.1	--	--	26.6	--	--	73.2	--	--	19.3	--	--
Lead	21.6	--	--	34.3	--	--	--	215	--	--	27.6	--	--	--	115	--	--	--	1460	342	9.78	91.5 J	71.6	--	--	30.2	--	--	129	--	--	20.5	--	--
Nickel	8.15	--	--	8.78	--	--	--	30.6	--	--	9.59	--	--	--	32																			

Table 1
Soil Analytical Results
Former King Salvage
Toledo, Oregon

Decision Unit:			Applicable RBCs and RSLs												
	RBC: Soil Ingestion, Dermal Contact and Inhalation		Ecological RSL - Soils (mg/kg)								Ecological RSL Surface Water (ug/L)			Mean Regional Background Levels (Metals Only)	
	Construction Worker	Excavation Worker	Direct Toxicity		Ground Feeding Birds		Ground Feeding Mammals	Top Consumer Birds		Top Consumer Mammals	Birds		Mammals	Sediment - Freshwater	Oregon Coast Range
			Plants	Inverts	T&E	Non-T&E	Non-T&E	T&E	Non-T&E	Non-T&E	T&E	Non-T&E	Non-T&E		
Sample Date:															
Total Petroleum Hydrocarbons, Diesel Extended Range by NWTPH-Dx in mg/kg															
Diesel Range Organics			4600	--	--	--	--	--	--	--	--	--	--	--	--
Residual Range Organics			11,000	--	--	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270E-SIM (mg/kg)															
Anthracene	110000	--	--	29	13	67	540	7500	37000	59000	--	--	--	--	--
Acenaphthene	21000	590000	0.25	29	13	67	540	7500	37000	59000	--	--	3100000	--	--
Acenaphthylene	--	--	--	29	13	67	540	7500	37000	59000	--	--	3100000	--	--
Benzo(a)anthracene	170	4800	--	18	0.11	0.55	5.9	6	64	550	--	--	7600	--	--
Benzo(a)pyrene	17	490	--	18	0.11	0.55	5.9	6	64	550	--	--	44000	--	--
Benzo(b)fluoranthene	170	4900	18	18	0.11	0.55	5.9	6	64	550	--	--	170000	--	--
Benzo(g,h,i)perylene	--	--	--	18	0.11	0.55	5.9	6	64	550	--	--	320000	--	--
Benzo(k)fluoranthene	1700	49000	--	18	0.11	0.55	5.9	6	64	550	--	--	320000	--	--
Chrysene	17000	490000	--	18	0.11	0.55	5.9	6	64	550	--	--	7600	--	--
Dibenz(a,h)anthracene	17	490	--	18	0.11	0.55	5.9	6	64	550	--	--	59000	--	--
Fluoranthene	10000	280000	--	18	0.11	0.55	5.9	6	64	550	--	--	560000	--	--
Fluorene	14000	390000	--	29	13	67	540	7500	37000	59000	--	--	1100000	--	--
Indeno(1,2,3-cd)pyrene	170	4900	--	18	0.11	0.55	5.9	6	64	550	--	--	320000	--	--
Naphthalene	580	16000	1	29	13	67	540	7500	37000	59000	57	570	22000	--	--
Phenanthrene	--	--	--	29	13	67	540	7500	37000	59000	--	--	230000	--	--
Pyrene	7500	210000	--	18	0.11	0.55	5.9	6	64	550	--	--	330000	--	--
1-Methylnaphthalene	--	--	--	29	13	67	540	7500	37000	59000	--	--	--	--	--
2-Methylnaphthalene	--	--	--	29	13	67	540	7500	37000	59000	--	--	--	--	--
2-Chloronaphthalene	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toxic Equivalent Concentration TEQ (ND=1/2 DL)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toxic Equivalent Concentration TEQ (ND = 0)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toxic Mobility Equivalent (TMEQ) (ND=1/2)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Metals by EPA Method 6010d and Method 7471B in mg/kg															
Arsenic	15	420	18	6.8	15	32	31	100	1000	290	21000	52000	5600	--	12
Barium	69000	--	110	330	720	1200	8700	630	13000	44000	380000	760000	8800	--	840
Cadmium	350	9700	32	140	0.29	1.6	4	1	7.7	1700	5900	82000	17000	0.6	0.54
Chromium	530000	--	--	--	23	73	1600	170	560	10000	7100	71000	630000	37	240
Copper	14000	390000	70	80	14	43	70	80	240	1600	12000	130000	33000	36	100
Lead	800	800	120	1700	11	23	170	83	160	1600	64000	640000	16000	35	34
Nickel	7000	190000	38	280	20	81	21	110	440	580	110000	160000	3000	18	160
Selenium	--	--	0.52	4.1	0.71	1.4	1	4	7.5	33	1800	6100	1400	--	1.5
Silver	1800	49000	560	--	2.6	26	140	13	130	10000	22000	220000	850000	4.5	0.41
Zinc	--	--	160	120	46	120	980	220	590	30000	490000	4900000	5600000	--	140
Mercury	110	2900	34	0.05	0.013	0.13	17	0.058	0.58	130	78	780	63000	--	0.11
Dioxins and Furans by EPA Method 8290 in ng/kg															
2,3,7,8-TCDF	--	--	--	--	0.64	6.4	3.00	6.3	63	4.6	--	--	--	--	--
Total TCDF	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	170	4800	--	5000000	0.52	5.2	0.25	5.2	52	0.38	--	--	--	--	--
Total TCDD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDF	--	--	--	--	4.1	41	6.5	40	400	9.8	--	--	--	--	--
2,3,4,7,8-PeCDF	--	--	--	--	0.41	4.1	0.65	4	40	0.98	--	--	--	--	--
Total PeCDF	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDD	--	--	--	--	0.59	5.9	0.28	5.9	59	0.43	--	--	--	--	--
Total PeCDD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDF	--	--	--	--	2.3	23	1.1	23	230	1.7	--	--	--	--	--
1,2,3,6,7,8-HxCDF	--	--	--	--	2.3	23	1.1	23	230	1.7	--	--	--	--	--
2,3,4,6,7,8-HxCDF	--	--	--	--	2.3	23	1.1	23	230	1.7	--	--	--	--	--
1,2,3,7,8,9-HxCDF	--	--	--	--	3	30	1.4	30	300	2.2	--	--	--	--	--
Total HxCDF	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDD	--	--	--	--	5.1	51	1.2	50	500	1.8	--	--	--	--	--
1,2,3,6,7,8-HxCDD	--	--	--	--	19	190	0.89	190	1900	1.4	--	--	--	--	--
1,2,3,7,8,9-HxCDD	--	--	--	--	1.9	19	0.89	19	190	1.4	--	--	--	--	--
Total HxCDD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3,4,6,7,8-HpCDF	--	--	--	--	23	230	11	230	2300	17	--	--	--	--	--
1,2,3,4,7,8,9-HpCDF	--	--	--	--	23	230	11	230	2300	17	--	--	--	--	--
Total HpCDF	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3,4,6,7,8-HpCDD	--	--	--	--	150	1500	7	1500	15000	11	--	--	--	--	--
Total HpCDD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OCDF	--	--	--	--	1400	14000	220	14000	140000	340	--	--	--	--	--
OCDD	--	--	--	--	1900	19000	300	19000	190000	460	--	--	--	--	--
Dioxin TEQ (2,3,7,8-TCDD TEQ)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

- Notes:
- mg/kg = Milligrams per kilogram.
 - ng/kg = Nanograms per kilogram.
 - * indicates that concentration was reported as Estimated Maximum Possible Concentration (EMPC)
 - feet bgs = Feet below ground surface.
 - DEQ RBCs = Oregon Department of Environmental Quality's Risk-Based Concentrations for Individual Chemicals, revised August 2023.
 - ESLs = United States Environmental Protection Agency Ecological Screening Levels
 - Bold values indicate concentration detected above the method detection limit.
 - Shaded values indicate concentrations detected above one or more applicable RBC or ESL.
 - < = Concentration was not detected above the shown minimum reporting limit.
 - = Not analyzed or not available.
 - J = Result is an estimated value.
 - UJ = The result is not detected but the reporting limit is estimated.
 - I = Isotope Ratio Out of Specification
 - E = Exceeds Calibration Range
 - P = PCDE Interference
 - B = Concentration less than 10x higher than method blank level

Table 2
Sediment Analytical Results
Former King Salvage
Toledo, Oregon

Decision Unit:	3	5	6	Applicable RBCs and RSLs														
Sample ID:	DU-3-SS-COMP-1	DU-5-SS-COMP-1	DU-6-SS-COMP-1	RBC: Soil Ingestion, Dermal Contact and Inhalation		Ecological RSL - Soils (mg/kg)								Ecological RSL Surface Water (ug/L)				Mean Regional Background Levels (Metals Only)
				Construction Worker	Excavation Worker	Direct Toxicity		Ground Feeding Birds		Ground Feeding Mammals	Top Consumer Birds		Top Consumer Mammals	Birds		Mammals	Sediment - Freshwater	Oregon Coast Range
Sample Date:	4/10/2024	4/10/2024	4/10/2024			Plants	Inverts	T&E	Non-T&E	Non-T&E	T&E	Non-T&E	Non-T&E	T&E	Non-T&E	Non-T&E		
Total Petroleum Hydrocarbons, Diesel Extended Range by NWTPH-Dx in mg/kg																		
Diesel Range Organics	<6.06	8.18	8.15 J	4600	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Residual Range Organics	<15.1	33.5	31.9	11,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270E-SIM																		
Anthracene	<0.00909	<0.00894	0.00655 J	110000	--	--	29	13	67	540	7500	37000	59000	--	--	--	57	--
Acenaphthene	<0.00909	<0.00894	<0.0171	21000	590000	0.25	29	13	67	540	7500	37000	59000	--	--	3100000	290	--
Acenaphthylene	<0.00909	<0.00894	<0.0171	--	--	--	29	13	67	540	7500	37000	59000	--	--	3100000	160	--
Benzo(a)anthracene	<0.00909	<0.00894	0.0168 J	170	4800	--	18	0.11	0.55	5.9	6	64	550	--	--	7600	32	--
Benzo(a)pyrene	<0.00909	<0.00894	0.0117 J	17	490	--	18	0.11	0.55	5.9	6	64	550	--	--	44000	32	--
Benzo(b)fluoranthene	<0.00909	<0.00894	0.0153 J	170	4900	18	18	0.11	0.55	5.9	6	64	550	--	--	170000	--	--
Benzo(g,h,i)perylene	<0.00909	<0.00894	0.0069 J	--	--	--	18	0.11	0.55	5.9	6	64	550	--	--	320000	300	--
Benzo(k)fluoranthene	<0.00909	<0.00894	0.00709 J	1700	49000	--	18	0.11	0.55	5.9	6	64	550	--	--	320000	27	--
Chrysene	<0.00909	<0.00894	0.0192	17000	490000	--	18	0.11	0.55	5.9	6	64	550	--	--	7600	57	--
Dibenz(a,h)anthracene	<0.00909	<0.00894	<0.0171	17	490	--	18	0.11	0.55	5.9	6	64	550	--	--	59000	33	--
Fluoranthene	<0.00909	<0.00894	0.0218	10000	280000	--	18	0.11	0.55	5.9	6	64	550	--	--	560000	111	--
Fluorene	<0.00909	<0.00894	<0.0171	14000	390000	--	29	13	67	540	7500	37000	59000	--	--	1100000	77	--
Indeno(1,2,3-cd)pyrene	<0.00909	<0.00894	0.00915 J	170	4900	--	18	0.11	0.55	5.9	6	64	550	--	--	320000	17	--
Naphthalene	<0.0303	<0.0298	<0.0570	580	16000	1	29	13	67	540	7500	37000	59000	57	570	22000	176	--
Phenanthrene	<0.00909	<0.00894	0.0183	--	--	--	29	13	67	540	7500	37000	59000	--	--	230000	42	--
Pyrene	<0.00909	<0.00894	0.0148 J	7500	210000	--	18	0.11	0.55	5.9	6	64	550	--	--	330000	53	--
1-Methylnaphthalene	<0.0303	<0.0298	<0.0570	--	--	--	29	13	67	540	7500	37000	59000	--	--	--	--	--
2-Methylnaphthalene	<0.0303	<0.0298	<0.0570	--	--	--	29	13	67	540	7500	37000	59000	--	--	--	--	--
2-Chloronaphthalene	<0.0303	<0.0298	<0.0570	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toxic Equivalent Concentration TEQ (ND=1/2 DL)	0.00686295	0.0067497	0.016556	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toxic Equivalent Concentration TEQ (ND = 0)	0	0	0.015701	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toxic Mobility Equivalent (TMEQ) (ND=1/2)	0.00465518	0.00457837	0.011953337	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Metals by EPA Method 6010d and Method 7471B in mg/kg																		
Arsenic	4.36	3.31	7.31	15	420	18	6.8	15	32	31	100	1000	290	21000	52000	5600	--	12
Barium	47	30.5	73.7	69000	--	110	330	720	1200	8700	630	13000	44000	380000	760000	8800	--	840
Cadmium	<0.757	0.525 J	2.63	350	9700	32	140	0.29	1.6	4	1	7.7	1700	5900	82000	17000	0.6	0.54
Chromium	6.05	3.69	60.3	530000	--	--	--	23	73	1600	170	560	10000	7100	71000	630000	37	240
Copper	5.21	15.3	167	14000	390000	70	80	14	43	70	80	240	1600	12000	130000	33000	36	100
Lead	4.26	22.6	171	800	800	120	1700	11	23	170	83	160	1600	64000	640000	16000	35	34
Nickel	4.25	3.33	42.1	7000	190000	38	280	20	81	21	110	440	580	110000	160000	3000	18	160
Selenium	1.21 J	1.74 J	5.23 J	--	--	0.52	4.1	0.71	1.4	1	4	7.5	33	1800	6100	1400	--	1.5
Silver	<1.51	<1.49	0.546 J	1800	49000	560	--	2.6	26	140	13	130	10000	22000	220000	850000	4.5	0.41
Zinc	30.7	79.9	847	--	--	160	120	46	120	980	220	590	30000	490000	4900000	5600000	123	140
Mercury	<0.0606	<0.0596	0.773	110	2900	34	0.05	0.013	0.13	17	0.058	0.58	130	78	780	63000	--	0.11

Please see notes at the end of the table.

Table 2
Sediment Analytical Results
Former King Salvage
Toledo, Oregon

Decision Unit:	3	5	6	Applicable RBCs and RSLs														
Sample ID:	DU-3-SS-COMP-1	DU-5-SS-COMP-1	DU-6-SS-COMP-1	RBC- Soil Ingestion, Dermal Contact and Inhalation		Ecological RSL - Soils (mg/kg)								Ecological RSL Surface Water (ug/L)				Mean Regional Background Levels (Metals Only)
Sample Date:	4/10/2024	4/10/2024	4/10/2024	Construction Worker	Excavation Worker	Direct Toxicity		Ground Feeding Birds		Ground Feeding Mammals	Top Consumer Birds		Top Consumer Mammals	Birds		Mammals	Sediment - Freshwater	Oregon Coast Range
						Plants	Inverts	T&E	Non-T&E	Non-T&E	T&E	Non-T&E	Non-T&E	T&E	Non-T&E	Non-T&E		
<i>Dioxins and Furans by EPA Method 8290 in ng/kg</i>																		
2,3,7,8-TCDF	<0.10	<0.32	<0.41	--	--	--	--	0.64	6.4	3.00	6.3	63	4.6	--	--	--	--	--
Total TCDF	0.47 J	<0.32	23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,3,7,8-TCDD	0.11* JI	<0.45	<0.37	170	4800	--	5000000	0.52	5.2	0.25	5.2	52	0.38	--	--	--	9000	--
Total TCDD	0.23 J	<0.45	3.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDF	<0.053	<0.32	0.78 J	--	--	--	--	4.1	41	6.5	40	400	9.8	--	--	--	--	--
2,3,4,7,8-PeCDF	<0.049	<0.32	1.8* JI	--	--	--	--	0.41	4.1	0.65	4	40	0.98	--	--	--	--	--
Total PeCDF	<0.049	<0.32	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3,7,8-PeCDD	<0.11	<0.13	0.59 J	--	--	--	--	0.59	5.9	0.28	5.9	59	0.43	--	--	--	--	--
Total PeCDD	0.13 J	<0.13	5.2 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDF	<0.047	<0.16	2.1 J	--	--	--	--	2.3	23	1.1	23	230	1.7	--	--	--	--	--
1,2,3,6,7,8-HxCDF	<0.044	<0.19	1.7 J	--	--	--	--	2.3	23	1.1	23	230	1.7	--	--	--	--	--
2,3,4,6,7,8-HxCDF	<0.046	<0.18	1.7 J	--	--	--	--	2.3	23	1.1	23	230	1.7	--	--	--	--	--
1,2,3,7,8,9-HxCDF	0.11 J	<0.35	<0.31	--	--	--	--	3	30	1.4	30	300	2.2	--	--	--	--	--
Total HxCDF	0.11 J	<0.16	19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3,4,7,8-HxCDD	0.15 BJ	<0.24	0.76* JI	--	--	--	--	5.1	51	1.2	50	500	1.8	--	--	--	--	--
1,2,3,6,7,8-HxCDD	0.077 J	<0.21	1.5* JI	--	--	--	--	19	190	0.89	190	1900	1.4	--	--	--	--	--
1,2,3,7,8,9-HxCDD	0.16* JI	<0.22	1.6 J	--	--	--	--	1.9	19	0.89	19	190	1.4	--	--	--	--	--
Total HxCDD	0.8 BJ	<0.21	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3,4,6,7,8-HpCDF	<0.064	0.47* JI	12	--	--	--	--	23	230	11	230	2300	17	--	--	--	--	--
1,2,3,4,7,8,9-HpCDF	<0.090	<0.67	<0.76	--	--	--	--	23	230	11	230	2300	17	--	--	--	--	--
Total HpCDF	0.16 J	<0.39	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3,4,6,7,8-HpCDD	0.66 J	1.2* JI	41	--	--	--	--	150	1500	7	1500	15000	11	--	--	--	--	--
Total HpCDD	0.66 J	<0.51	79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OCDF	0.15* JI	<1.1	17	--	--	--	--	1400	14000	220	14000	140000	340	--	--	--	--	--
OCDD	2.6 J	9.5* JI	690	--	--	--	--	1900	19000	300	19000	190000	460	--	--	--	--	--
Dioxin TEQ (2,3,7,8-TCDD TEQ)	0.21108	0.33835	1.778	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:

1. mg/kg = Milligrams per kilogram.
2. ng/kg = Nanograms per kilogram.
3. * indicates that concentration was reported as Estimated Maximum Possible Concentration (EMPC)
4. feet bgs = Feet below ground surface.
5. DEQ RBCs = Oregon Department of Environmental Quality's Risk-Based Concentrations for Individual Chemicals, revised August 2023.
6. ESLs = United States Environmental Protection Agency Ecological Screening Levels
7. Bold values indicate concentration detected above the method detection limit.
8. Shaded values indicate concentrations detected above one or more applicable RBC or ESL.
9. < = Concentration was not detected above the shown minimum reporting limit.
10. -- = Not analyzed or not available.
11. J = Result is an estimated value.
12. UJ = The result is not detected but the reporting limit is estimated.
13. I = Isotope Ratio Out of Specification
14. E = Exceeds Calibration Range
15. P = PCDE Interference
16. B = Concentration less than 10x higher than method blank level
17. No RSLs are established for streambed sediment exposure pathways; therefore, streambed sediment sample results were compared to soil RSLs for reference purposes only.

Table 3
Summary RBC/RSL Exceedances - Soil
Former King Salvage
Toledo, Oregon

	Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)
Decision Unit 4A						
Total Petroleum Hydrocarbons by NWTPH-Dx						
None	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270E-SIM						
None	--	--	--	--	--	--
Total Metals by EPA Method 6010d and Method 7471B						
Arsenic	6.9	mg/kg	RSL Soils: Direct Toxicity (Inverts)	6.8	mg/kg	1.01
Chromium	42.4	mg/kg	RSL Soils: Ground Feeding Birds- T&E	23	mg/kg	1.84
Copper	24.6	mg/kg	RSL Soils: Ground Feeding Birds- T&E	14	mg/kg	1.76
Lead	21.6	mg/kg	RSL Soils: Ground Feeding Birds- T&E	11	mg/kg	1.96
Selenium	1.72	mg/kg	RSL Soils: Direct Toxicity (Plants) RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Ground Feeding Mammals Non-T&E Mean Regional Background Levels (Oregon Coast Range)	0.52	mg/kg	3.31
Zinc	98.7	mg/kg	RSL Soils: Ground Feeding Birds- T&E	46	mg/kg	2.15
Mercury	0.0308	mg/kg	RSL Soils: Ground Feeding Birds T&E	0.013	mg/kg	2.37
Dioxins and Furans by EPA Method 8290 in ng/kg						
1,2,3,4,6,7,8-HpCDF	8.5	ng/kg	RSL Soils: Ground Feeding Mammals Non-T&E	7.00	ng/kg	1.21

Table 3
Summary RBC/RSL Exceedances - Soil
Former King Salvage
Toledo, Oregon

	Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)
Decision Unit 4B						
Total Petroleum Hydrocarbons by NWTPH-Dx						
None	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270E-SIM						
None	--	--	--	--	--	--
Total Metals by EPA Method 6010d and Method 7471B						
Arsenic	8.3	mg/kg	RSL Soils: Direct Toxicity (Inverts)	6.8	mg/kg	1.22
Copper	22.4	mg/kg	RSL Soils: Ground Feeding Birds- T&E	14	mg/kg	1.60
Lead	34.3	mg/kg	RSL Soils: Ground Feeding Birds- T&E RSL Soils: Ground Feeding Birds- Non T&E Mean Regional Background Levels (Oregon Coast Range)	11	mg/kg	3.12
Selenium	1.94	mg/kg	RSL Soils: Direct Toxicity (Plants) RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Ground Feeding Mammals Non-T&E Mean Regional Background Levels (Oregon Coast Range)	0.52	mg/kg	3.73
Zinc	97.2	mg/kg	RSL Soils: Ground Feeding Birds- T&E	46	mg/kg	2.11
Dioxins and Furans by EPA Method 8290 in ng/kg						
None	--	--	--	--	--	--

Table 3
Summary RBC/RSL Exceedances - Soil
Former King Salvage
Toledo, Oregon

	Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)
Decision Unit 4C						
Total Petroleum Hydrocarbons by NWTPH-Dx						
None	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270E-SIM						
None	--	--	--	--	--	--
Total Metals by EPA Method 6010d and Method 7471B						
Arsenic	9.24	mg/kg	RSL Soils: Direct Toxicity (Inverts)	6.8	mg/kg	1.36
Cadmium	1.95	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E Mean Regional Background Levels (Oregon Coast Range)	0.29	mg/kg	6.72
Chromium	74.3	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E	23	mg/kg	3.23
Copper	198	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Birds T&E Mean Regional Background Levels (Oregon Coast Range)	14	mg/kg	14.14

Table 3
Summary RBC/RSL Exceedances - Soil
Former King Salvage
Toledo, Oregon

	Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)
Decision Unit 4C						
Total Metals by EPA Method 6010d and Method 7471B						
Lead	215	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Top Consumer Birds Non T&E RSL Soils: Direct Toxicity (Plants) Mean Regional Background Levels (Oregon Coast Range)	11	mg/kg	19.55
Nickel	30.6	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Mammals Non T&E	20	mg/kg	1.53
Selenium	2.47	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Direct Toxicity (Plants) Mean Regional Background Levels (Oregon Coast Range)	0.52	mg/kg	4.75
Zinc	489	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Direct Toxicity (Plants) RSL Soils: Direct Toxicity (Inverts) Mean Regional Background Levels (Oregon Coast Range)	46	mg/kg	10.63
Mercury	0.0309	mg/kg	RSL Soils: Ground Feeding Birds T&E	0.013	mg/kg	2.38

Table 3
Summary RBC/RSL Exceedances - Soil
Former King Salvage
Toledo, Oregon

	Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)
Decision Unit 4C						
Dioxins and Furans by EPA Method 8290 in ng/kg						
2,3,7,8-TCDF	6.2	ng/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Top Consumer Mammals Non T&E	0.64	ng/kg	9.69
2,3,7,8-TCDD	0.37	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E	0.25	ng/kg	1.48
1,2,3,7,8-PeCDF	8.7	ng/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Mammals Non T&E	4.1	ng/kg	2.12
2,3,4,7,8-PeCDF	9.8	ng/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Top Consumer Mammals Non T&E	0.41	ng/kg	23.90
1,2,3,7,8-PeCDD	6.6	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Top Consumer Mammals Non T&E	0.28	ng/kg	23.57
1,2,3,4,7,8-HxCDF	13	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals Non T&E	1.1	ng/kg	11.82
1,2,3,6,7,8-HxCDF	6.3	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals Non T&E	1.1	ng/kg	5.73

Table 3
Summary RBC/RSL Exceedances - Soil
Former King Salvage
Toledo, Oregon

	Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)
Decision Unit 4C						
Dioxins and Furans by EPA Method 8290 in ng/kg						
2,3,4,6,7,8-HxCDF	11	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals Non T&E	1.1	ng/kg	10.00
1,2,3,7,8,9-HxCDF	6	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals Non T&E	1.4	ng/kg	4.29
1,2,3,4,7,8-HxCDD	20	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals Non T&E	1.2	ng/kg	16.67
1,2,3,6,7,8-HxCDD	120	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals Non T&E	0.89	ng/kg	134.83
1,2,3,7,8,9-HxCDD	35	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Top Consumer Mammals Non T&E	0.89	ng/kg	39.33
1,2,3,4,6,7,8-HpCDF	150	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals Non T&E	11	ng/kg	13.64

Table 3
Summary RBC/RSL Exceedances - Soil
Former King Salvage
Toledo, Oregon

	Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)
Decision Unit 4C						
Dioxins and Furans by EPA Method 8290 in ng/kg						
1,2,3,4,6,7,8-HpCDD	2300	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Top Consumer Mammals Non T&E	7	ng/kg	328.57
OCDD	14,000	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals Non T&E	300	ng/kg	46.67
Decision Unit 4D						
Total Petroleum Hydrocarbons by NWTPH-Dx						
None	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270E-SIM						
None	--	--	--	--	--	--
Total Metals by EPA Method 6010d and Method 7471B						
Arsenic	7.81	mg/kg	RSL Soils: Direct Toxicity (Inverts)	6.8	mg/kg	1.15
Cadmium	0.565	mg/kg	RSL Soils: Ground Feeding Birds T&E	0.29	mg/kg	1.95
Chromium	225	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E	23	mg/kg	9.78
Copper	31.4	mg/kg	RSL Soils: Ground Feeding Birds- T&E	14	mg/kg	2.24
Lead	27.6	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E	11	mg/kg	2.51

Table 3
Summary RBC/RSL Exceedances - Soil
Former King Salvage
Toledo, Oregon

	Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)
Decision Unit 4D						
Total Metals by EPA Method 6010d and Method 7471B						
Selenium	2.68	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Direct Toxicity (Plants) Mean Regional Background Levels (Oregon Coast Range)	0.52	mg/kg	5.15
Zinc	125	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Direct Toxicity (Inverts)	46	mg/kg	2.72
Mercury	0.0381	mg/kg	RSL Soils: Ground Feeding Birds T&E	0.013	mg/kg	2.93
Dioxins and Furans by EPA Method 8290 in ng/kg						
2,3,4,7,8-PeCDF	0.48	ng/kg	RSL Soils: Ground Feeding Birds T&E	0.41	ng/kg	1.17
2,3,4,6,7,8-HxCDF	1.1	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E	1.1	ng/kg	1.00
1,2,3,6,7,8-HxCDD	1.3	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E	1.2	ng/kg	1.08
1,2,3,4,6,7,8-HpCDF	20	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Mammals Non T&E	11	ng/kg	1.82
1,2,3,4,6,7,8-HpCDD	50	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Mammals Non T&E	7	ng/kg	7.14
OCDD	940	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Mammals Non T&E	300	ng/kg	3.13
Decision Unit 4E						
Total Petroleum Hydrocarbons by NWTPH-Dx						
None	--	--	--	--	--	--

Table 3
Summary RBC/RSL Exceedances - Soil
Former King Salvage
Toledo, Oregon

	Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)
Decision Unit 4E						
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270E-SIM						
None	--	--	--	--	--	--
Total Metals by EPA Method 6010d and Method 7471B						
Barium	128	mg/kg	RSL Soils: Direct Toxicity (Plants)	110	mg/kg	1.16
Cadmium	1.74	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E Mean Regional Background Levels (Oregon Coast Range)	0.29	mg/kg	6.00
Chromium	445	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E Mean Regional Background Levels (Oregon Coast Range)	23	mg/kg	19.35
Copper	129	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Birds T&E Mean Regional Background Levels (Oregon Coast Range)	14	mg/kg	9.21
Lead	115	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Gtop Consumer Birds Birds T&E Mean Regional Background Levels (Oregon Coast Range)	11	mg/kg	10.45

Table 3
Summary RBC/RSL Exceedances - Soil
Former King Salvage
Toledo, Oregon

	Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)
Decision Unit 4E						
Total Metals by EPA Method 6010d and Method 7471B						
Nickel	32	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Mammals Non T&E	20	mg/kg	1.60
Selenium	10.5	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Top Consumer Birds Non T&E RSL Soils: Direct Toxicity (Plants) RSL Soils: Direct Toxicity (Inverts) Mean Regional Background Levels (Oregon Coast Range)	0.52	mg/kg	20.19
Silver	52.1	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E Mean Regional Background Levels (Oregon Coast Range)	0.41	mg/kg	127.07
Zinc	363	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Direct Toxicity (Plants) RSL Soils: Direct Toxicity (Inverts) Mean Regional Background Levels (Oregon Coast Range)	46	mg/kg	7.89
Mercury	0.0381	mg/kg	RSL Soils: Ground Feeding Birds T&E	0.013	mg/kg	2.93

Table 3
Summary RBC/RSL Exceedances - Soil
Former King Salvage
Toledo, Oregon

	Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)
Decision Unit 4E						
Dioxins and Furans by EPA Method 8290 in ng/kg						
2,3,7,8-TCDD	0.25	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E	0.25	ng/kg	1.00
2,3,4,7,8-PeCDF	3.5	ng/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Birds T&E	0.41	ng/kg	8.54
1,2,3,7,8-PeCDD	0.64	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals T&E	0.28	ng/kg	2.29
1,2,3,4,7,8-HxCDF	1.8	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Mammals T&E	1.1	ng/kg	1.64
1,2,3,6,7,8-HxCDF	2.4	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals T&E	1.1	ng/kg	2.18
2,3,4,6,7,8-HxCDF	3.3	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals T&E	1.1	ng/kg	3.00
1,2,3,6,7,8-HxCDD	2.6	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Mammals T&E	1.2	ng/kg	2.17
1,2,3,7,8,9-HxCDD	1.7	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Mammals T&E	0.89	ng/kg	1.91
1,2,3,4,6,7,8-HpCDF	16	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E	11	ng/kg	1.45
1,2,3,4,6,7,8-HpCDD	50	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Mammals T&E	7	ng/kg	7.14
OCDD	530	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Mammals T&E	300	ng/kg	1.77

Table 3
Summary RBC/RSL Exceedances - Soil
Former King Salvage
Toledo, Oregon

	Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)
Decision Unit 4F						
Total Petroleum Hydrocarbons by NWTPH-Dx						
Diesel Range Organics	15,900	mg/kg	RBC Soils: Ingestion, Contact and Inhalation- Construction Worker	11,000	mg/kg	1.45
Residual Range Organics	27,100	mg/kg	RBC Soils: Ingestion, Contact and Inhalation- Construction Worker	11,000	mg/kg	2.46
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270E-SIM						
Acenaphthene	0.356	mg/kg	RSL Soils: Direct Toxicity (Plants)	0.25	mg/kg	1.42
Benzo(a)anthracene	0.957	mg/kg	RSL Soils: Ground Feeding Birds T&E	0.11	mg/kg	8.70
Benzo(a)pyrene	0.786	mg/kg	RSL Soils: Ground Feeding Birds T&E	0.11	mg/kg	7.15
Benzo(b)fluoranthene	0.934	mg/kg	RSL Soils: Ground Feeding Birds T&E	0.11	mg/kg	8.49
Benzo(g,h,i)perylene	0.685	mg/kg	RSL Soils: Ground Feeding Birds T&E	0.11	mg/kg	6.23
Benzo(k)fluoranthene	0.327	mg/kg	RSL Soils: Ground Feeding Birds T&E	0.11	mg/kg	2.97
Chrysene	0.775	mg/kg	RSL Soils: Ground Feeding Birds T&E	0.11	mg/kg	7.05
Dibenz(a,h)anthracene	0.127	mg/kg	RSL Soils: Ground Feeding Birds T&E	0.11	mg/kg	1.15
Fluoranthene	2.41	mg/kg	RSL Soils: Ground Feeding Birds T&E	0.11	mg/kg	21.91
Indeno(1,2,3-cd)pyrene	0.636	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E	0.11	mg/kg	5.78
Naphthalene	13.7	mg/kg	RSL Soils: Direct Toxicity (Plants) RSL Soils: Ground Feeding Birds T&E	1	mg/kg	13.70
Pyrene	4.12	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E	0.11	mg/kg	37.45
2-Methylnaphthalene	17.5	mg/kg	RSL Soils: Ground Feeding Birds T&E	13	mg/kg	1.35

Table 3
Summary RBC/RSL Exceedances - Soil
Former King Salvage
Toledo, Oregon

	Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)
Decision Unit 4F						
Total Metals by EPA Method 6010d and Method 7471B						
Arsenic	11	mg/kg	RSL Soils: Direct Toxicity (Inverts)	6.8	mg/kg	1.62
Barium	421	mg/kg	RSL Soils: Direct Toxicity (Plants) RSL Soils: Direct Toxicity (Inverts)	110	mg/kg	3.83
Cadmium	9.02	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Ground Feeding Mammals Non-T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Top Consumer Birds Non-T&E Mean Regional Background Levels (Oregon Coast Range)	0.29	mg/kg	31.10
Chromium	103	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E	23	mg/kg	4.48
Copper	337	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Top Consumer Birds Non T&E Mean Regional Background Levels (Oregon Coast Range)	14	mg/kg	24.07

Table 3
Summary RBC/RSL Exceedances - Soil
Former King Salvage
Toledo, Oregon

	Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)
Decision Unit 4F						
Total Metals by EPA Method 6010d and Method 7471B						
Lead	1460	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Top Consumer Birds Non T&E RSL Soils: Direct Toxicity (Plants) RBC Soils: Ingestion, Contact and Inhalation - Construction Worker RBC Soils: Ingestion, Contact and Inhalation - Excavation Worker Mean Regional Background Levels (Oregon Coast Range)	11	mg/kg	132.73
Nickel	61	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Direct Toxicity (Plants)	20	mg/kg	3.05
Selenium	9.2	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Top Consumer Birds Non T&E RSL Soils: Direct Toxicity (Plants) RSL Soils: Direct Toxicity (Inverts) Mean Regional Background Levels (Oregon Coast Range)	0.52	mg/kg	17.69

Table 3
Summary RBC/RSL Exceedances - Soil
Former King Salvage
Toledo, Oregon

	Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)
Decision Unit 4F						
Total Metals by EPA Method 6010d and Method 7471B						
Silver	40.9	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E Mean Regional Background Levels (Oregon Coast Range)	0.41	mg/kg	99.76
Zinc	3970	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Top Consumer Birds Non T&E RSL Soils: Direct Toxicity (Plants) RSL Soils: Direct Toxicity (Inverts) Mean Regional Background Levels (Oregon Coast Range)	46	mg/kg	86.30
Mercury	0.373	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Direct Toxicity (Inverts) Mean Regional Background Levels (Oregon Coast Range)	0.013	mg/kg	28.69

Table 3
Summary RBC/RSL Exceedances - Soil
Former King Salvage
Toledo, Oregon

	Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)
Decision Unit 4F						
Dioxins and Furans by EPA Method 8290 in ng/kg						
2,3,7,8-TCDF	17	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Top Consumer Mammals Non T&E	0.64	ng/kg	26.56
2,3,7,8-TCDD	3.7	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals Non T&E	0.25	ng/kg	14.80
1,2,3,7,8-PeCDF	29	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals Non T&E	4.1	ng/kg	7.07
2,3,4,7,8-PeCDF	53	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Top Consumer Birds Non T&E RSL Soils: Top Consumer Mammals Non T&E	0.41	ng/kg	129.27
1,2,3,7,8-PeCDD	14	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Top Consumer Mammals Non T&E	0.28	ng/kg	50.00

Table 3
Summary RBC/RSL Exceedances - Soil
Former King Salvage
Toledo, Oregon

	Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)
Decision Unit 4F						
Dioxins and Furans by EPA Method 8290 in ng/kg						
1,2,3,4,7,8-HxCDF	68	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Top Consumer Mammals Non T&E	1.1	ng/kg	61.82
1,2,3,6,7,8-HxCDF	49	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Top Consumer Mammals Non T&E	1.1	ng/kg	44.55
2,3,4,6,7,8-HxCDF	53	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Top Consumer Mammals Non T&E	1.1	ng/kg	48.18
1,2,3,7,8,9-HxCDF	18	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals Non T&E	1.4	ng/kg	12.86
1,2,3,4,7,8-HxCDD	15	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals Non T&E	1.2	ng/kg	12.50
1,2,3,6,7,8-HxCDD	37	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals Non T&E	0.89	ng/kg	41.57

Table 3
Summary RBC/RSL Exceedances - Soil
Former King Salvage
Toledo, Oregon

	Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)
Decision Unit 4F						
Dioxins and Furans by EPA Method 8290 in ng/kg						
1,2,3,7,8,9-HxCDD	23	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Top Consumer Mammals Non T&E	0.89	ng/kg	25.84
1,2,3,4,6,7,8-HpCDF	360	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Top Consumer Mammals T&E	44	ng/kg	8.18
1,2,3,4,7,8,9-HpCDF	21	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Mammals T&E	44	ng/kg	0.48
1,2,3,4,6,7,8-HpCDD	500	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals T&E	7	ng/kg	71.43
OCDF	220	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Mammals T&E	220	ng/kg	1.00
OCDD	4000	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals T&E	300	ng/kg	13.33
Decision Unit 4G						
Total Petroleum Hydrocarbons by NWTPH-Dx						
None	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270E-SIM						
None	--	--	--	--	--	--

Table 3
Summary RBC/RSL Exceedances - Soil
Former King Salvage
Toledo, Oregon

	Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)
Decision Unit 4G						
Total Metals by EPA Method 6010d and Method 7471B						
Barium	114	mg/kg	RSL Soils: Direct Toxicity (Plants)	110	mg/kg	1.04
Cadmium	0.737	mg/kg	RSL Soils: Ground Feeding Birds T&E	0.29	mg/kg	2.54
Copper	32.1	mg/kg	RSL Soils: Ground Feeding Birds- T&E	14	mg/kg	2.29
Lead	71.6	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E Mean Regional Background Levels (Oregon Coast Range)	11	mg/kg	6.51
Selenium	6.91	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Direct Toxicity (Plants) RSL Soils: Direct Toxicity (Inverts) Mean Regional Background Levels (Oregon Coast Range)	0.52	mg/kg	13.29
Silver	30	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E Mean Regional Background Levels (Oregon Coast Range)	0.41	mg/kg	73.17

Table 3
Summary RBC/RSL Exceedances - Soil
Former King Salvage
Toledo, Oregon

	Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)
Decision Unit 4G						
Total Metals by EPA Method 6010d and Method 7471B						
Zinc	228	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Direct Toxicity (Plants) RSL Soils: Direct Toxicity (Inverts) Mean Regional Background Levels (Oregon Coast Range)	46	mg/kg	4.96
Mercury	0.0583	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Direct Toxicity (Inverts)	0.013	mg/kg	4.48
Dioxins and Furans by EPA Method 8290 in ng/kg						
2,3,4,7,8-PeCDF	2.1	ng/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Mammals Non T&E	0.41	ng/kg	5.12
1,2,3,7,8-PeCDD	0.58	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Mammals T&E	0.28	ng/kg	2.07
1,2,3,4,7,8-HxCDF	3.5	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals Non T&E	1.1	ng/kg	3.18
1,2,3,6,7,8-HxCDF	3.5	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals Non T&E	1.1	ng/kg	3.18
2,3,4,6,7,8-HxCDF	2.3	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals Non T&E	1.1	ng/kg	2.09

Table 3
Summary RBC/RSL Exceedances - Soil
Former King Salvage
Toledo, Oregon

	Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)
Decision Unit 4G						
Dioxins and Furans by EPA Method 8290 in ng/kg						
1,2,3,7,8,9-HxCDF	1.6	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E	1.4	ng/kg	1.14
1,2,3,6,7,8-HxCDD	9.8	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Mammals T&E	0.89	ng/kg	11.01
1,2,3,7,8,9-HxCDD	3	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals Non T&E	0.89	ng/kg	3.37
1,2,3,4,6,7,8-HpCDF	23	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals Non T&E	11	ng/kg	2.09
1,2,3,4,6,7,8-HpCDD	280	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals Non T&E	7	ng/kg	40.00
OCDD	1400	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Mammals Non T&E	200	ng/kg	7.00
Decision Unit 4H						
Total Petroleum Hydrocarbons by NWTPH-Dx						
None	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270E-SIM						
None	--	--	--	--	--	--
Total Metals by EPA Method 6010d and Method 7471B						
Arsenic	8.31	mg/kg	RSL Soils: Direct Toxicity (Inverts)	6.8	mg/kg	1.22
Copper	36.6	mg/kg	RSL Soils: Ground Feeding Birds- T&E	14	mg/kg	2.61
Lead	30.2	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E	11	mg/kg	2.75

Table 3
Summary RBC/RSL Exceedances - Soil
Former King Salvage
Toledo, Oregon

	Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)
Decision Unit 4H						
Total Metals by EPA Method 6010d and Method 7471B						
Selenium	2.29	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Direct Toxicity (Plants) Mean Regional Background Levels (Oregon Coast Range)	0.52	mg/kg	4.40
Zinc	220	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Direct Toxicity (Plants) RSL Soils: Direct Toxicity (Inverts) Mean Regional Background Levels (Oregon Coast Range)	46	mg/kg	4.78
Mercury	0.0646	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Direct Toxicity (Inverts)	0.013	mg/kg	4.97
Dioxins and Furans by EPA Method 8290 in ng/kg						
2,3,4,7,8-PeCDF	0.57	ng/kg	RSL Soils: Ground Feeding Birds T&E	0.41	ng/kg	1.39
1,2,3,4,6,7,8-HpCDD	9.6	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E	7	ng/kg	1.37
Decision Unit 4I						
Total Petroleum Hydrocarbons by NWTPH-Dx						
Residual Range Organics	13,200	mg/kg	RBC Soil: Ingestion, Contact and Inhalation- Construction Worker	11,000	mg/kg	1.2
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270E-SIM						
None	--	--	--	--	--	--

Table 3
Summary RBC/RSL Exceedances - Soil
Former King Salvage
Toledo, Oregon

	Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)
Decision Unit 4I						
Total Metals by EPA Method 6010d and Method 7471B						
Arsenic	7.74	mg/kg	RSL Soils: Direct Toxicity (Inverts)	6.8	mg/kg	1.14
Barium	129	mg/kg	RSL Soils: Direct Toxicity (Plants)	110	mg/kg	1.17
Cadmium	1.52	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E Mean Regional Background Levels (Oregon Coast Range)	0.29	mg/kg	5.24
Copper	73.2	mg/kg	RSL Soils: Ground Feeding Birds- T&E RSL Soils: Ground Feeding Birds- Non T&E RSL Soils: Ground Feeding Mammals- Non T&E	14	mg/kg	5.23
Lead	129	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Direct Toxicity (Plants) Mean Regional Background Levels (Oregon Coast Range)	11	mg/kg	11.73
Selenium	3.06	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Direct Toxicity (Plants) Mean Regional Background Levels (Oregon Coast Range)	0.52	mg/kg	5.88

Table 3
Summary RBC/RSL Exceedances - Soil
Former King Salvage
Toledo, Oregon

	Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)
Decision Unit 4I						
Total Metals by EPA Method 6010d and Method 7471B						
Zinc	357	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Direct Toxicity (Plants) RSL Soils: Direct Toxicity (Inverts) Mean Regional Background Levels (Oregon Coast Range)	46	mg/kg	7.76
Mercury	0.0653	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Direct Toxicity (Inverts)	0.013	mg/kg	5.02
Dioxins and Furans by EPA Method 8290 in ng/kg						
2,3,7,8-TCDF	2.2	ng/kg	RSL Soils: Ground Feeding Birds T&E	0.64	ng/kg	3.44
2,3,4,7,8-PeCDF	6.3	ng/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Birds T&E	0.41	ng/kg	15.37
1,2,3,7,8-PeCDD	1	ng/kg	RSL Soils: Ground Feeding Birds T&E	0.52	ng/kg	1.92
1,2,3,4,7,8-HxCDF	13	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals Non T&E	1.1	ng/kg	11.82
1,2,3,6,7,8-HxCDF	6.1	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals Non T&E	1.1	ng/kg	5.55

Table 3
Summary RBC/RSL Exceedances - Soil
Former King Salvage
Toledo, Oregon

	Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)
Decision Unit 4I						
Dioxins and Furans by EPA Method 8290 in ng/kg						
2,3,4,6,7,8-HxCDF	6.8	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals Non T&E	1.1	ng/kg	6.18
1,2,3,7,8,9-HxCDF	4	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals Non T&E	1.4	ng/kg	2.86
1,2,3,4,7,8-HxCDD	1.7	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E	1.2	ng/kg	1.42
1,2,3,6,7,8-HxCDD	4.7	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E	0.89	ng/kg	5.28
1,2,3,7,8,9-HxCDD	3.2	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals Non T&E	0.89	ng/kg	3.60
1,2,3,4,6,7,8-HpCDF	32	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals Non T&E	11	ng/kg	2.91
1,2,3,4,6,7,8-HpCDD	84	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Mammals Non T&E	7	ng/kg	12.00
OCDD	690	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Mammals Non T&E	300	ng/kg	2.30
Decision Unit 6						
Total Petroleum Hydrocarbons by NWTPH-Dx						
None	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270E-SIM						
None	--	--	--	--	--	--

Table 3
Summary RBC/RSL Exceedances - Soil
Former King Salvage
Toledo, Oregon

	Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)
Decision Unit 6						
Total Metals by EPA Method 6010d and Method 7471B						
Arsenic	8.99	mg/kg	RSL Soils: Direct Toxicity (Inverts)	6.8	mg/kg	1.32
Cadmium	0.252	mg/kg	RSL Soils: Ground Feeding Birds T&E	0.29	mg/kg	0.87
Copper	19.3	mg/kg	RSL Soils: Ground Feeding Birds- T&E	14	mg/kg	1.38
Lead	20.5	mg/kg	RSL Soils: Ground Feeding Birds T&E	11	mg/kg	1.86
Selenium	2	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Direct Toxicity (Plants) Mean Regional Background Levels (Oregon Coast Range)	0.52	mg/kg	3.85
Zinc	91.4	mg/kg	RSL Soils: Ground Feeding Birds T&E	46	mg/kg	1.99
Mercury	0.041	mg/kg	RSL Soils: Ground Feeding Birds T&E	0.013	mg/kg	3.15
Dioxins and Furans by EPA Method 8290 in ng/kg						
1,2,3,4,6,7,8-HpCDD	21	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Mammals Non T&E	7	ng/kg	3.00

Table 4
Summary RBC/RSL Exceedances - Sediment
Former King Salvage
Toledo, Oregon

Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)	
Decision Unit: 3, Sediment						
Total Petroleum Hydrocarbons by NWTPH-Dx						
None	--	--	--	--	--	
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270E-SIM						
None	--	--	--	--	--	
Total Metals by EPA Method 6010d and Method 7471B						
None	--	--	--	--	--	
Dioxins and Furans by EPA Method 8290 in ng/kg						
None	--	--	--	--	--	
Decision Unit: 5, Sediment						
Total Petroleum Hydrocarbons by NWTPH-Dx						
None	--	--	--	--	--	
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270E-SIM						
None	--	--	--	--	--	
Total Metals by EPA Method 6010d and Method 7471B						
Selenium	1.74	mg/kg	RSL Soils: Direct Toxicity (Plants) RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Ground Feeding Mammals Non T&E Mean Regional Background Levels (Oregon Coast Range)	0.52	mg/kg	3.35
Dioxins and Furans by EPA Method 8290 in ng/kg						
None	--	--	--	--	--	

Table 4
Summary RBC/RSL Exceedances - Sediment
Former King Salvage
Toledo, Oregon

Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)	
Decision Unit: 6, Sediment						
Total Petroleum Hydrocarbons by NWTPH-Dx						
None	--	--	--	--	--	
Polycyclic Aromatic Hydrocarbons (PAHs) by EPA Method 8270E-SIM						
None	--	--	--	--	--	
Total Metals by EPA Method 6010d and Method 7471B						
Cadmium	2.63	mg/kg	Mean Regional Background Levels (Oregon Coast Range) RSL Freshwater- Sediments RSL Soils: Ground Feeding Birds T&E	0.54	mg/kg	4.87
Chromium	60.3	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Freshwater- Sediments	23	mg/kg	2.62
Copper	167	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Freshwater- Sediments RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Ground Feeding Mammals RSL Soils: Direct Toxicity (Plants) RSL Soils: Direct Toxicity (Inverts) Mean Regional Background Levels (Oregon Coast Range)	14	mg/kg	11.93
Lead	171	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Freshwater- Sediments RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Top Consumer Birds Non T&E RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Direct Toxicity (Plants) Mean Regional Background Levels (Oregon Coast Range)	11	mg/kg	15.55

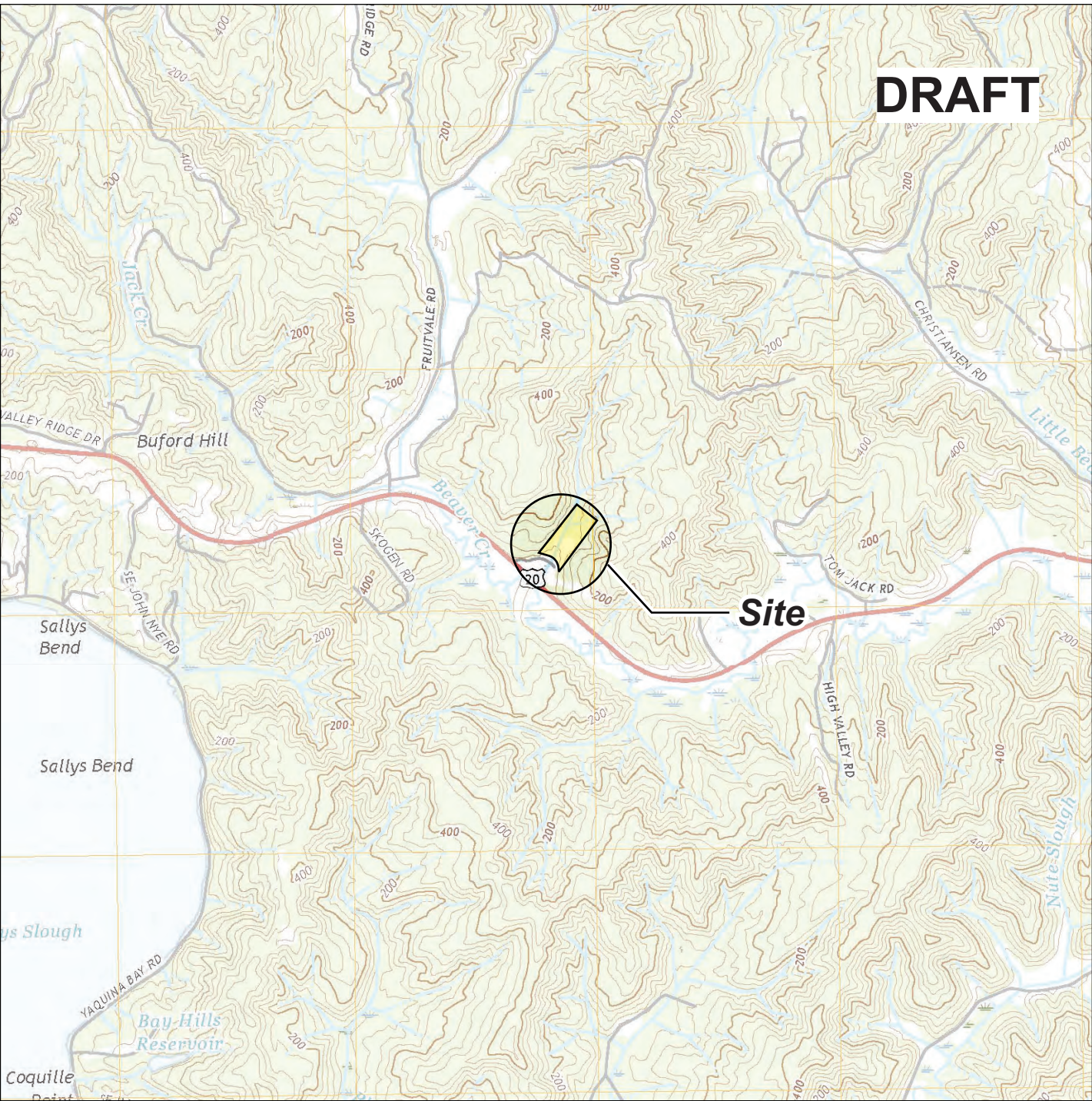
Table 4
Summary RBC/RSL Exceedances - Sediment
Former King Salvage
Toledo, Oregon

Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)	
Decision Unit: 6, Sediment						
Total Petroleum Hydrocarbons by NWTPH-Dx						
Selenium	5.23	mg/kg	RSL Soils: Direct Toxicity (Plants) RSL Soils: Direct Toxicity (Inverts) RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Ground Feeding Mammals Non T&E Mean Regional Background Levels (Oregon Coast Range)	0.52	mg/kg	10.06
Silver	0.546	mg/kg	Mean Regional Background Levels (Oregon Coast Range)	0.41	mg/kg	1.33
Zinc	847	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Top Consumer Birds Non T&E RSL Soils: Direct Toxicity (Plants) RSL Soils: Direct Toxicity (Inverts) RSL Freshwater- Sediments Mean Regional Background Levels (Oregon Coast Range)	46	mg/kg	18.41
Mercury	0.773	mg/kg	RSL Soils: Ground Feeding Birds T&E RSL Soils: Ground Feeding Birds Non T&E RSL Soils: Top Consumer Birds T&E RSL Soils: Top Consumer Birds Non T&E RSL Soils: Direct Toxicity (Inverts) Mean Regional Background Levels (Oregon Coast Range)	0.013	mg/kg	59.46

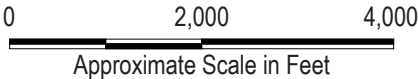
Table 4
Summary RBC/RSL Exceedances - Sediment
Former King Salvage
Toledo, Oregon

Maximum Concentration	Units	RBC/RSL Pathways Exceeded (Most Conservative Pathway in Bold)	Most Conservative Pathway Concentration	Units	Exceedence Factor (Max Conc./Min RBC/RSL)	
Decision Unit: 6, Sediment						
Dioxins and Furans by EPA Method 8290 in ng/kg						
2,3,4,7,8-PeCDF	1.8	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals Non T&E	0.41	ng/kg	4.39
1,2,3,7,8-PeCDD	0.59	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Ground Feeding Birds T&E RSL Soils: Top Consumer Mammals Non T&E	0.28	ng/kg	2.11
1,2,3,4,7,8-HxCDF	2.1	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Mammals Non T&E	1.1	ng/kg	1.91
1,2,3,6,7,8-HxCDF	1.7	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Mammals Non T&E	1.1	ng/kg	1.55
2,3,4,6,7,8-HxCDF	1.7	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Mammals Non T&E	1.1	ng/kg	1.55
1,2,3,6,7,8-HxCDD	1.5	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Mammals Non T&E	0.89	ng/kg	1.69
1,2,3,7,8,9-HxCDD	1.6	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Mammals Non T&E	0.89	ng/kg	1.80
1,2,3,4,6,7,8-HpCDF	12	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E	11	ng/kg	1.09
1,2,3,4,6,7,8-HpCDD	41	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Mammals Non T&E	7	ng/kg	5.86
OCDD	690	ng/kg	RSL Soils: Ground Feeding Mammals Non T&E RSL Soils: Top Consumer Mammals Non T&E	300	ng/kg	2.30

DRAFT



Note: Base map prepared from USGS 7.5-minute quadrangles of Newport North and South and Toledo North and South, OR, dated 2020 as provided by USGS.gov.



Site Location Map

SSI Data Memorandum
Former DEQ King Salvage Site - 109 King Place
Toledo, Oregon

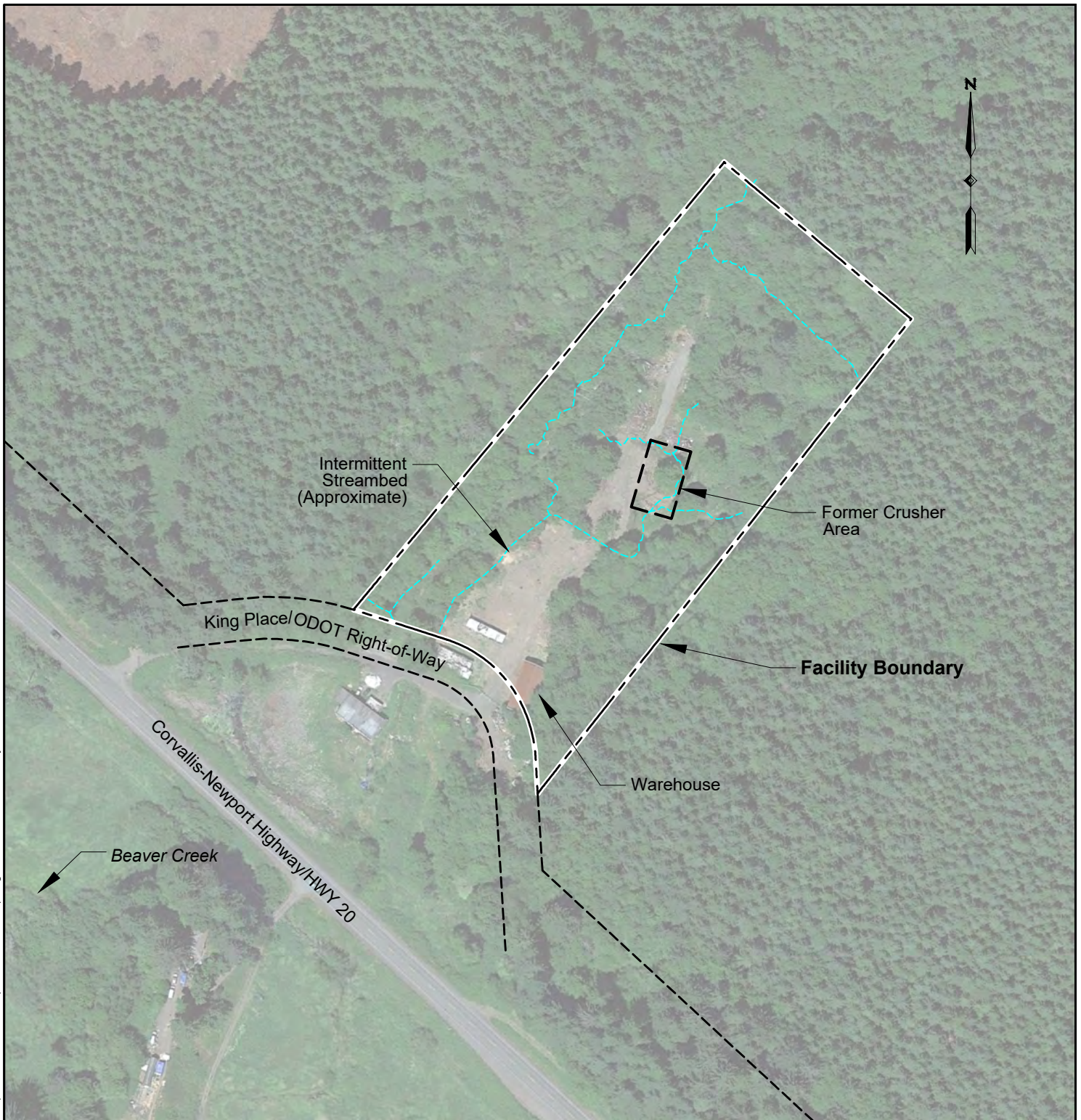


Apex Companies, LLC
15618 SW 72nd Avenue
Tigard, Oregon 97224

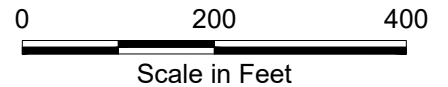
Project Number: 32-23010077	Drawn: JP	Approved: AB
June 2024		

Figure
1

I:\Client\DEQ\Oregon\32-23010077 King Salvage\2024 ABCA Update\32-23010077 (ABCA Site Plans).dwg Modified 5/8/2024 by JPoore



NOTE: Base map prepared from Google Earth Pro Imagery.
Aerial dated September 24, 2019. Tax Lot lines are approximate.



Site Plan

SSI Data Memorandum
Former DEQ King Salvage Site - 109 King Place
Toledo, Oregon



Apex Companies, LLC
15618 SW 72nd Avenue
Tigard, Oregon 97224

Project Number:
32-23010077

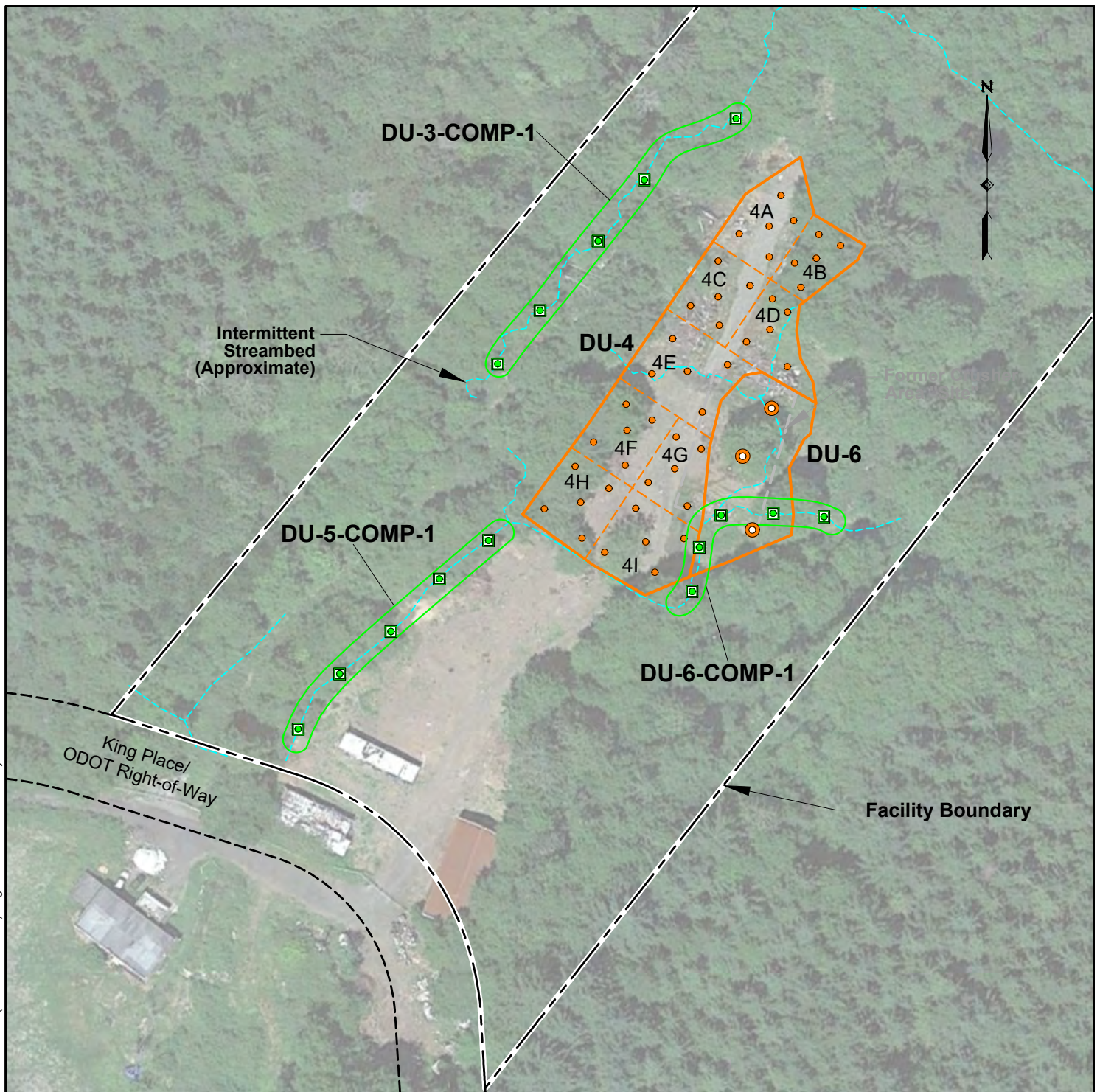
Drawn:
JP

Approved:
AB

June 2024

Figure
2

I:\Client\DEQ\Oregon\32-23010077 King Salvage\2024 ABCA Update\32-23010077 (ABCA Site Plans).dwg Modified 5/8/2024 by JPoore



NOTE: Base map prepared from Google Earth Pro Imagery.
Tax Lot lines are approximate.

Legend:

- DU-4** Decision Unit Boundary and Designation
- 4A** Subunit Boundary and Designation
- 5-Point Subsurface Soil Composite (3')
(Each sample location represents three interval depths, a sample aliquot will be collected and incorporated into a composite.)
- Discrete Soil Boring Location (5')
- 5-Point Streambed Sediment Composite (6")

0 100 200
Scale in Feet

Decision Units

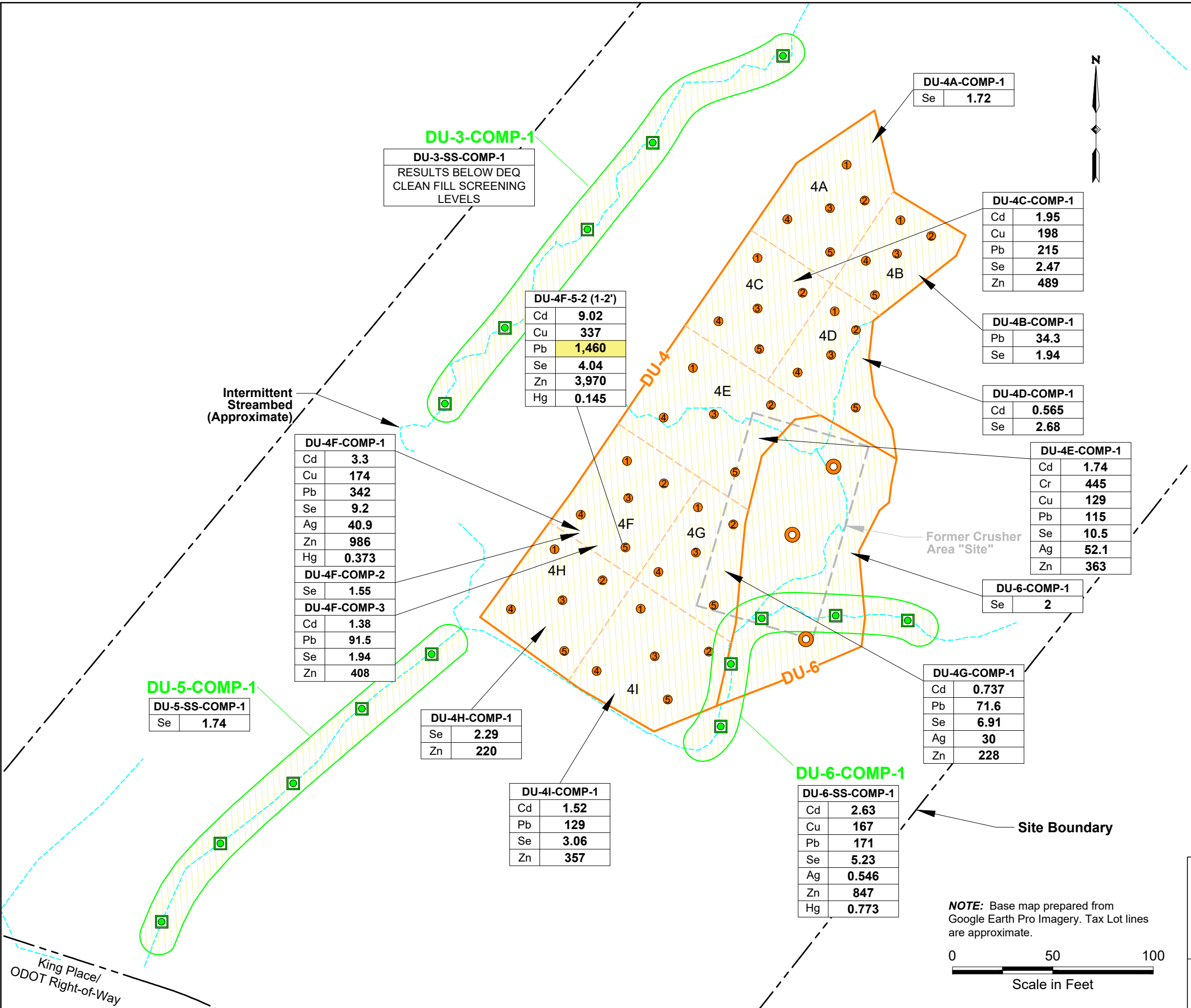
SSI Data Memorandum
Former DEQ King Salvage Site - 109 King Place
Toledo, Oregon

APEX Apex Companies, LLC
15618 SW 72nd Avenue
Tigard, Oregon 97224

Project Number: 32-23010077	Drawn: JP	Approved: AB
June 2024		

Figure
3

I:\Client\DEQ\Oregon\32-23010077 King Salvage\2024 ABCA Update\32-23010077 (ABCA Site Plans).dwg Modified 5/20/2024 by JPoore



Legend:

- DU-4** Decision Unit Boundary and Designation
- 4A** Subunit Boundary and Designation
- ① 5-Point Subsurface Soil Composite (3')
(Each sample location represents three interval depths, a sample aliquot will be collected and incorporated into a composite.)
- Discrete Soil Boring Location (5')
- 5-Point Streambed Sediment Composite (6")
- Decision Unit/Subunit Identification
- Concentration in mg/kg
- Highlight** = Exceedance Above DEQ RCB
- (Bold Indicates Result Above Detection Limit and Above DEQ Clean Fill Screening Levels)**
- Analyte Sampled (See Table)
- Unit Exceeds Ecological Risk Screening Levels (RSLs)

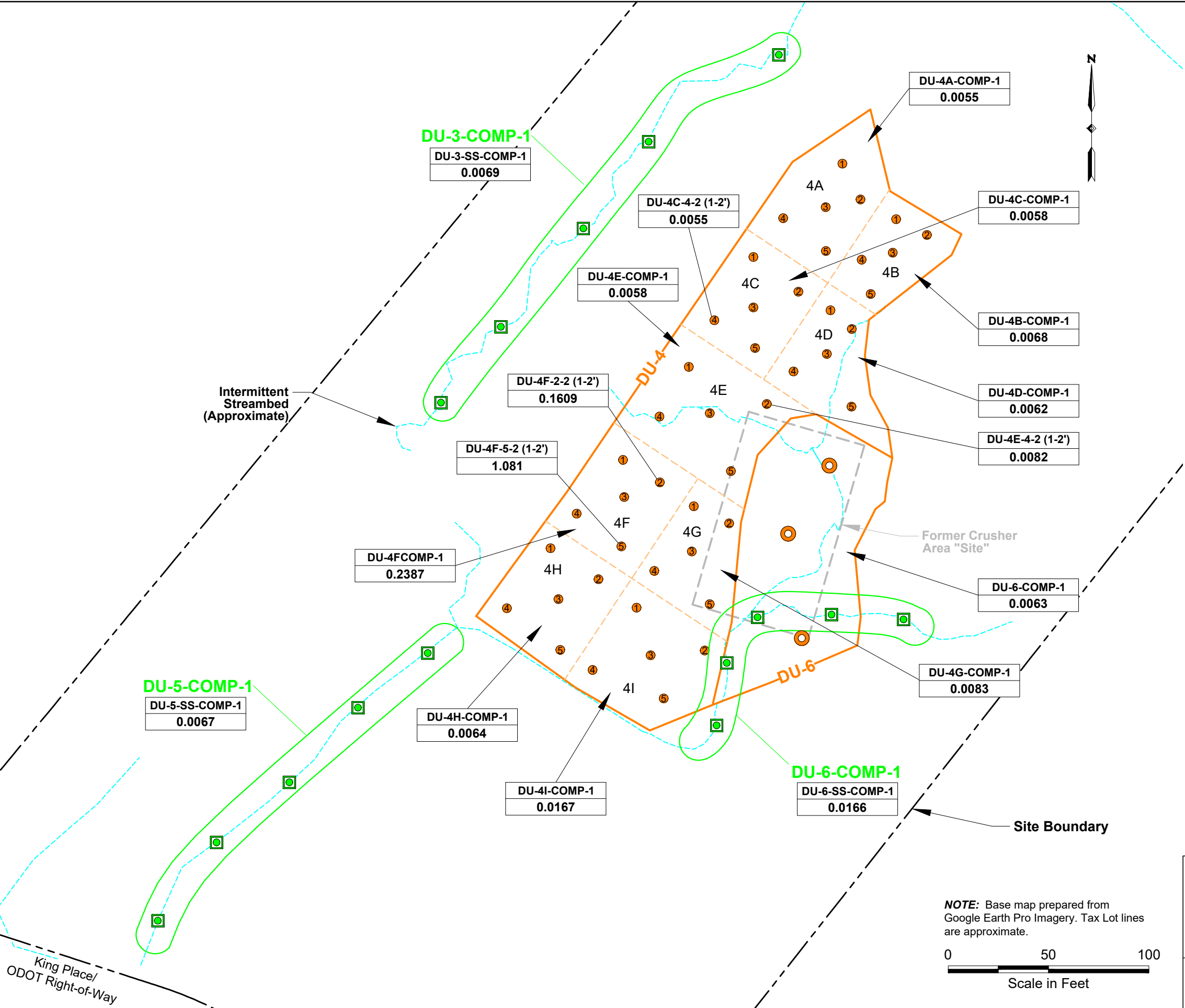
Composite Cleanup Levels		DEQ Soil Dermal Contact for Construction Worker Risk-Based Concentration in milligrams per kilograms (mg/kg) (Revised August 2023)	DEQ Clean Fill Screening Level (Coast Range)
Cd	Cadmium	350	0.54
Cu	Copper	14,000	100
Cr	Chromium	530,000	240
Pb	Lead	800	34
Se	Selenium	--	1.50
Ag	Silver	1,800	0.41
Zn	Zinc	--	140
Hg	Mercury	110	0.11

Select Metal Results

SSI Data Memorandum
Former DEQ King Salvage Site - 109 King Place
Toledo, Oregon

Apex Companies, LLC 15618 SW 72nd Avenue Tigard, Oregon 97224	Project Number: 32-23010077	Drawn: JP	Approved: AB	Figure 5
	June 2024			

I:\Client\DEQ\Oregon\32-23010077 King Salvage\2024 ABCA Update\32-23010077 (ABCA Site Plans).dwg Modified 5/20/2024 by JPoore



Legend:

- DU-4** Decision Unit Boundary and Designation
- 4A** Subunit Boundary and Designation
- 5-Point Subsurface Soil Composite (3')
(Each sample location represents three interval depths, a sample aliquot will be collected and incorporated into a composite.)
- Discrete Soil Boring Location (5')
- 5-Point Streambed Sediment Composite (6')
- Decision Unit/Subunit Identification
- Toxic Equivalent Concentration TEQ (ND=1/2 DL) in mg/kg
(**Bold** Indicates Exceedance)

DEQ RBC for Benzo(a)pyrene Equivalent in mg/kg	
Soil Ingestion, Dermal Contact, and Inhalation	
Construction Worker	Excavation Worker
17	490

NOTE: Base map prepared from Google Earth Pro Imagery. Tax Lot lines are approximate.

0 50 100
Scale in Feet

PAHs Results

SSI Data Memorandum

Former DEQ King Salvage Site - 109 King Place
Toledo, Oregon

Apex Companies, LLC
15618 SW 72nd Avenue
Tigard, Oregon 97224

Project Number:
32-23010077

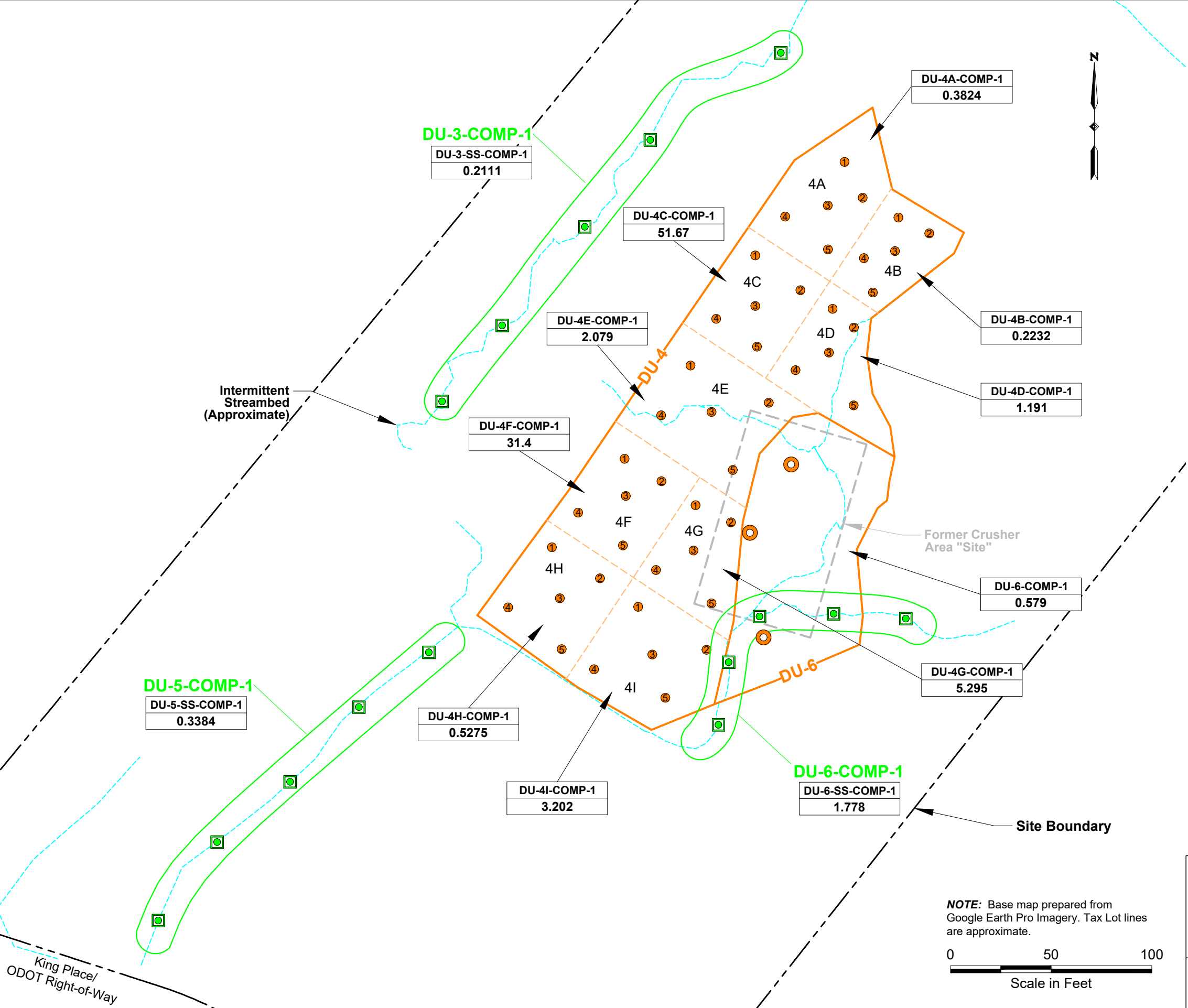
Drawn:
JP

Approved:
AB

June 2024

Figure
6

I:\Client\DEQ\Oregon\32-23010077 King Salvage\2024 ABCA Update\32-23010077 02-07 (ABCA Site Plans).dwg Modified: 6/19/2024 by JPoore



2,3,7,8-Tetrachlorodibenzo-p-dioxin Toxicity Equivalence (TCDD TEQ) DEQ Risk-Based Concentrations in nanograms per kilogram (ng/kg)	
Soil Ingestion, Dermal Contact, and Inhalation	
Construction Worker	Excavation Worker
170	4,800

Dioxins Results

SSI Data Memorandum
Former DEQ King Salvage Site - 109 King Place
Toledo, Oregon

Apex Companies, LLC
15618 SW 72nd Avenue
Tigard, Oregon 97224

Project Number:
32-23010077

Drawn:
JP

Approved:
AB

June 2024

Figure
7

Attachment A

Backup Documentation and Field Notes

ATTACHMENT A PHOTOGRAPH LOG

Project Name: King Salvage (Former) Site
Project Number: 32-23010077

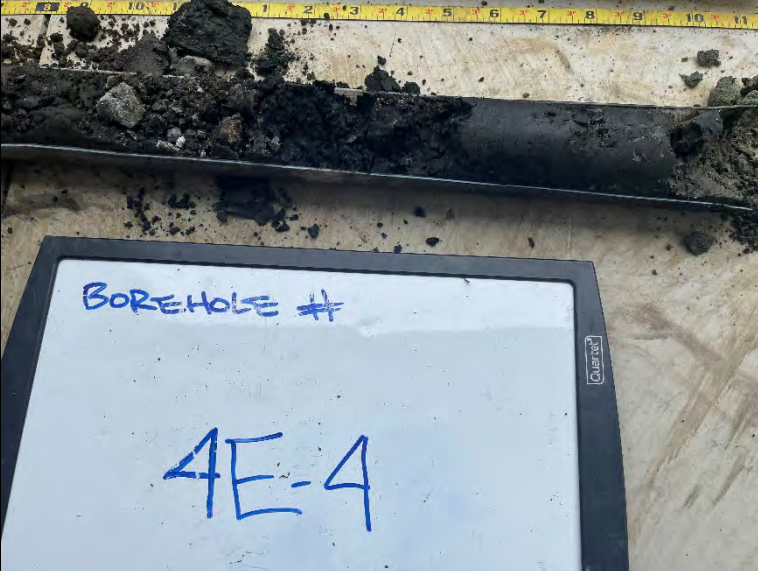
Client: DEQ
Location: 109 King Place, Toledo, OR

Photo No: 1	
Photo Date: 4/8/2024	
Orientation: View looking north	
Description: Steadfast Services utilized a Geoprobe® Model 7720DT direct push drill fitted with a Macro-Core® MC5 2.25-inch outside diameter soil sampling system.	
Photo No: 2	
Photo Date: 4/8/2024	
Orientation: Borehole DU-4C-4	
Description: The first borehole attempt of DU-4C-4 recovered a solid wood core with strong chemical odor – the shoe and rod of the drill penetrated the end of what appeared to be a vertically buried railroad tie.	

ATTACHMENT A PHOTOGRAPH LOG

Project Name: King Salvage (Former) Site
Project Number: 32-23010077

Client: DEQ
Location: 109 King Place, Toledo, OR

Photo No: 3	
Photo Date: 4/8/2024	
Orientation: Borehole DU-4E-4	
Description: Apex observed black staining and discoloration and petroleum-like odor with wispy iridescent sheen and elevated PID reading (22.0 ppm) at approximately 1.5-feet bgs.	
Photo No: 4	
Photo Date: 4/9/2024	
Orientation: Borehole DU-4F-2	
Description: Apex observed a strong petroleum-like odor with black staining and discoloration and relatively high PID reading (309.2 ppm) at approximately 1.5-feet bgs. Suspect contamination was localized between approximately 1- to 2-feet bgs.	

ATTACHMENT A PHOTOGRAPH LOG

Project Name: King Salvage (Former) Site
Project Number: 32-23010077

Client: DEQ
Location: 109 King Place, Toledo, OR

Photo No: 5	
Photo Date: 4/9/2024	
Orientation: Borehole DU-4F-5	
Description: Apex observed a strong petroleum-like odor with black staining and discoloration and wispy iridescent sheen. An elevated PID reading (42.3 ppm) was collected at approximately 1-foot bgs.	
Photo No: 6	
Photo Date: 4/9/2024	
Orientation: Borehole	
Description: Steadfast Services backfilled each borehole with granular bentonite and hydrated.	

ATTACHMENT A PHOTOGRAPH LOG

Project Name: King Salvage (Former) Site
Project Number: 32-23010077

Client: DEQ
Location: 109 King Place, Toledo, OR

Photo No: 7	
Photo Date: 4/10/2024	
Orientation: Subunit DU-4B	
Description: Apex advanced boreholes with hand augers within subunit DU-4B, which was inaccessible by the push probe rig due to significant vegetation and steep terrain.	

Photo No: 8	
Photo Date: 4/10/2024	
Orientation: Western stream	
Description: Apex collected five-point composite streambed sediment samples (0- to 0.5-feet) with a decontaminated shovel.	

ATTACHMENT A PHOTOGRAPH LOG

Project Name: King Salvage (Former) Site
Project Number: 32-23010077

Client: DEQ
Location: 109 King Place, Toledo, OR

Photo No: 9	
Photo Date: 4/10/2024	
Orientation: View looking east	
Description: View of former car crusher area where previous test pitting was performed. Debris pile visible in background. Boreholes marked with wooden stakes following push probe drilling work.	

Photo No: 10	
Photo Date: 4/10/2024	
Orientation: IDW	
Description: Apex collected soil cuttings from the push probe work and stored them in a labeled 55-gallon drum and left them on-site. Soil cuttings were analyzed for select metals and HCID.	



Apex Companies, LLC
15618 SW &2nd Avenue
Portland, Oregon 97224

Project Name: DEQ King Salvage, Toledo, OR

Project Number: 32-2301077

Decision Unit:

Logged By: AJB

Dates: 4-8-24

Site Conditions: CLOUDY

Drilling Contractor: Steadfast Services NW, LLC

Drilling Equipment:

Sampler Type:

Depth to Water (ATD):

Surface Elevation:

Boring Number: 4A-1

Date: 4-8-24

Lithologic Description

Fine-Grained Soils:

type, (group symbol), color, moisture content, degree of plasticity, consistency, description w/ approximate percentage, notes/observations

Coarse-Grained Soils:

type, (group symbol), color, moisture content, grading, density, description w/ approximate percentage, notes/observations

Depth, feet
Core Interval/Recovery
Laboratory Sample ID
PID
Sheen

GRAVEL

ML, GRAY, MOIST, LOW PLASTICITY,
SOFT, WETLAND DEPOSITS,
BLUISH MOTTLING, NO OSD
REWORKED SOIL

WOOD FRAGMENTS

1

2

3

Boring Number: 4A-2

Date: 4-8-24

GRAVEL

ML, TAN/BROWN, MOIST, LOW
PLASTICITY, SOFT, WETLAND DEPOSITS
ORANGE MOTTLED, REWORKED SOIL
WOOD FRAGMENTS, INCREASING
SAND, NO OSD

1

2

3

Boring Number: 4A-3

Date: 4-8-24

GRASS, ROOTS, ORGANICS

ML, TAN/ORANGE, MOIST, NON-
PLASTICITY, SOFT, REWORKED SOIL
GRAY AND ORANGE MOTTLED, NO
OSD

1

2

3



Apex Companies, LLC
15618 SW 82nd Avenue
Portland, Oregon 97224

Project Name: DEQ King Salvage, Toledo, OR

Project Number: 32-2301077

Decision Unit:

Logged By: ASB

Dates: 4-8-24

Site Conditions: CLAY

Drilling Contractor: Steadfast Services NW, LLC

Drilling Equipment:

Sampler Type:

Depth to Water (ATD):

Surface Elevation:

Boring Number:

Date: 4A-4

Lithologic Description

Fine-Grained Soils:

type, (group symbol), color, moisture content, degree of plasticity, consistency, description w/ approximate percentage, notes/observations

Coarse-Grained Soils:

type, (group symbol), color, moisture content, grading, density, description w/ approximate percentage, notes/observations

I:\Technical Resources\Environmental Resources\Field Information\Logs\2022 Field Forms\Field Log 3 at 3.5 Feet.doc

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description	Boring Number	Date
1			0.1		GRAVEL ML, GRAY, MOIST, NON-PLASTIC SOFT, ORANGE MOTTLED, REWORKED SOIL	4A-4	4-8-24
2			0.05		ML, DARK GRAY, MOIST, LOW- PLASTIC, SOFT, WOOD FRAGMENTS NO OSD / BLACK		
3			0.5				
1			0A		GRASS, ROOTS, ORGANICS ML, TAN, GRAY/ORANGE MOTTLED NON-PLASTIC, SOFT REWORKED SOIL, SANDY LENSES, TRACE GRAVEL FRAGMENTS, UNIFORM FINE GRAINED SAND	4A-5	4-8-24
2			0A				
3			0A				
1			0.0		GRASS, ROOTS, ORGANICS ML, DARK BROWN AND TAN, WOOD MED. - PLASTIC, SOFT, REWORKED GRAVEL	4D-2	4-8-24
2			0.1		CL, TAN, SANDY CLAY, FEW GRAVEL (0.25 INCH) MED. PLASTIC, SOFT		
3			0.0				

Apex Companies, LLC 15618 SW 82nd Avenue Portland, Oregon 97224				Project Name: <u>DEQ King Salvage, Toledo, OR</u> Project Number: <u>32-2301077</u>				Decision Unit: Logged By: <u>AJB</u> Dates: <u>4-8-24</u> Site Conditions: <u>CLOUDY</u> Drilling Contractor: <u>Steadfast Services NW, LLC</u> Drilling Equipment: <u>GEOPROBE</u> Sampler Type: <u>MCS 2 1/4" DIA.</u> Depth to Water (ATD): Surface Elevation: Boring Number: <u>AC-2</u> Date: <u>4-8-24</u>			
Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description						
					<i>Fine-Grained Soils:</i> type, (group symbol), color, moisture content, degree of plasticity, consistency, description w/ approximate percentage, notes/observations <i>Coarse-Grained Soils:</i> type, (group symbol), color, moisture content, grading, density, description w/ approximate percentage, notes/observations						
1			0.1	NS	ORGANICS, PLASTIC, WOOD FRAGMENTS GRAVEL (0.25 INCH)						
2			0.1		ML, GRAY-BROWN, MOIST, LOW-PLASTIC, SOFT, BLuish GRAY MOTTLED REMOVED SOIL / INCREASING - DARK BROWN COLOR, WOOD FRAGMENTS INCREASE W/ DEPTH						
3											
Boring Number: <u>AC-1</u>											
Date: <u>4-8-24</u>											
1			0.1		GRASS, ROOTS, ORGANICS, GRAVEL SM, ORANGE, DRY, NONPLASTIC, DK BRN						
2			0.1	SS	GRAY, ML, BLuish GRAY MOTTling FINE GRAINED SAND, LOW-PLASTIC WOOD FRAGMENTS FEW						
3			0.1								
Boring Number: <u>AC-3</u>											
Date: <u>4-8-24</u>											
1			0.0		ROOTS, ORGANICS, GRAVEL SM, DARK BROWN TO TAN, ORANGE MOTTLED, MOIST UFG SAND						
2			2.5	BS	ML, UFG SAND, BLACK-DK GRAY BLuish GRAY MOTTLED, NON-PLASTIC						
3			1.4								



Apex Companies, LLC
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Project Name: DEQ King Salvage, Toledo, OR
Project Number: 32-2301077

Decision Unit:

Logged By: AJB

Dates: 4-8-24

Site Conditions: CLOUDY

Drilling Contractor: Steadfast Services NW, LLC

Drilling Equipment:

Sampler Type:

Depth to Water (ATD):

Surface Elevation:

Boring Number: AE-5

Date: 4-8-24

Lithologic Description

Fine-Grained Soils:

type, (group symbol), color, moisture content, degree of plasticity, consistency, description w/ approximate percentage, notes/observations

Coarse-Grained Soils:

type, (group symbol), color, moisture content, grading, density, description w/ approximate percentage, notes/observations

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	
1			1.1		GRAVEL, BROWN ML MATRIX (UP TO 2" LONG)
2			2.8		
3			2.1	NS	ML, GRAY, UFG SAND, TAN MOTTLED

WOOD - PLYWOOD AT 1' BGS

Boring Number: 4F-1

Date: 4-9-24

1			0.0	SS	GRASS, ROOTS, ORGANICS
2			0.6		ML, DARK BROWN, WET, LOW-PLASTIC REWORKED, GRAVEL/PLASTIC FRAGMENTS
3					WOOD AT TOP, ML, GRAY, UFG SAND, SOME GRAVEL, BLuish GRAY MOTTLING, PLASTIC FRAGMENTS, GLASS FRAGMENTS, SM

Boring Number: 4F-2

Date: 4-9-24

1			0.5		GRAVEL
2			30.2	SS	ML, DARK BROWN, GRAVELLY, UFG SAND, RUBBER/GLASS FRAGMENTS, REWORKED
3			15.1		BLACK STAINING, STRONG PETRO-LIKE ODOR, LOOSE
					TAN, SM, SOFT, LOOSE, UFG SAND TO COARSER, ORANGE/GRAY MOTTLE



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Project Name: DEQ King Salvage, Toledo, OR
Project Number: 32-2301077

Decision Unit:

Logged By: AJB

Dates: A-9-2A

Site Conditions: RAIN

Drilling Contractor: Steadfast Services NW, LLC

Drilling Equipment:

Sampler Type:

Depth to Water (ATD):

Surface Elevation:

Boring Number: 4F-3

Date: A-9-2A

Lithologic Description

Fine-Grained Soils:

type, (group symbol), color, moisture content, degree of plasticity, consistency, description w/ approximate percentage, notes/observations

Coarse-Grained Soils:

type, (group symbol), color, moisture content, grading, density, description w/ approximate percentage, notes/observations

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description	
1			0.6	SS	GRASS, ROOTLETS DARK BROWN, ML, GRAVELLY (1.5") ORANGE - BLACK MOTTLING	1
2			0.6		TAN, ML, SOFT, MOIST, HIGH PLASTICITY, VFG SAND, ORANGE - GRAY MOTTLING, COHESIVE	2
3			0.6			3
						Boring Number: <u>4F-4</u>
						Date: <u>A-9-2A</u>
1			0.2		SM, TAN, SOFT, MOIST, LOW-PLASTICITY, ORANGE - GRAY MOTTLING, LOOSE, VFG SAND SOME GRAVEL	1
2			0.2			2
3			0.1			3
						Boring Number: <u>4F-5</u>
						Date: <u>A-9-2A</u>
1			0.7	(42.3)	GRAVELLY, VFG SAND MATRIX DARK BROWN, LOOSE, PLASTIC FRAGMENTS, METAL FRAGMENTS BLACK STAINING, RETRO-LIKE ODOR (STRONG), STRONG SHEEN ORANGE LOOSE MG SAND AT BTM	1
2						2
3						3



Apex Companies, LLC
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Project Name: DEQ King Salvage, Toledo, OR
Project Number: 32-2301077

Decision Unit:

Logged By: AJB

Dates: 4-9-24

Site Conditions: SHOWERS

Drilling Contractor: Steadfast Services NW, LLC

Drilling Equipment:

Sampler Type:

Depth to Water (ATD):

Surface Elevation:

Boring Number: 4G-2

Date: 4-9-24

Lithologic Description

Fine-Grained Soils:

type, (group symbol), color, moisture content, degree of plasticity, consistency, description w/ approximate percentage, notes/observations

Coarse-Grained Soils:

type, (group symbol), color, moisture content, grading, density, description w/ approximate percentage, notes/observations

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen		
1			0.0	SS	GRAVEL, GLASS FRAGMENTS	1
2			0.0		POOR RECOVERY, 2 ATTEMPTS	2
3					COPPER WIRE, BROWN, STIFF,	3
					HARD DRILLING, ORANGE-GRAY,	
					MOTTLED, MOIST MG-SAND	
					LOOSER AT BTM	
						Boring Number: <u>4G-1</u>
						Date: <u>4-9-24</u>
1			0.0		GRAVEL	1
2			0.0		ML, BROWN, MOIST, TAN-GRAY-	2
3			0.0		ORANGE MOTTLED, BLuish GRAY	3
					MOTTLE, VFG SAND, DENSE	
					GRAVEL (~1") MOSTLY, W/ SANDY	
					MATRIX	
					SM, TAN, DENSE, ORANGE-GRAY	
					MOTTLED, VFG SAND	
						Boring Number: <u>4G-3</u>
						Date: <u>4-9-24</u>
1			0.0	NS	GRAVEL	1
2			0.0		ML, TAN, GRAY-ORANGE MOTTLE	2
3			0.1		SOFT, DENSE, LOW PLASTICITY	3
					MOSTLY GRAVEL, SANDY MATRIX	

Apex Companies, LLC 15618 SW 2nd Avenue Portland, Oregon 97224					Project Name: <u>DEQ King Salvage, Toledo, OR</u> Project Number: <u>32-2301077</u>					Decision Unit: Logged By: <u>DK, AJB</u> Dates: <u>4-9-24</u> Site Conditions: <u>PARTIAL SUN</u> Drilling Contractor: <u>Steadfast Services NW, LLC</u> Drilling Equipment: Sampler Type: Depth to Water (ATD): Surface Elevation: Boring Number: <u>4G-5</u> Date: <u>4-9-24</u>				
Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description									
					<i>Fine-Grained Soils:</i> type, (group symbol), color, moisture content, degree of plasticity, consistency, description w/ approximate percentage, notes/observations <i>Coarse-Grained Soils:</i> type, (group symbol), color, moisture content, grading, density, description w/ approximate percentage, notes/observations									
1			0.0	NS	Gravel, slight blocky sheen on top water ML, orange to bluish gray, med. plasticity, VFG sand, moist									
2			0.5	NS										
3			0.7	NS										
					Boring Number: <u>4G-4</u>									
					Date: <u>4-9-24</u>									
1			0.0	SS	<u>GRAVEL, BROWN SANDY MATRIX</u> <u>BLACK, MOSTLY GRAVEL W/ SANDY MATRIX, GLASS FRAGMENTS</u> <u>STRONG SHEEN, SLIGHT PETRO-LIKE ODOR</u> <u>TAN, SM, GRAY MOTTLING</u> <u>COARSER GRAINED SAND W/ DEPTH</u>									
2			1.0											
3			1.0											
					Boring Number: <u>4H-2</u>									
					Date: <u>4-9-24</u>									
1			0.0		<u>GRASS, ROOTBETS, LOOSE SOIL, WACKER</u> <u>GRAVELLY (FEW), SM, BROWN, LOOSE</u> <u>ORANGE-TAN MOTTLING, VFG SAND</u> <u>NON-PLASTIC, GRAVEL UP TO 1.5"</u>									
2			0.0											
3			0.0	NS										



Apex Companies, LLC
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Portland, Oregon 97224

Project Name: DEQ King Salvage, Toledo, OR
Project Number: 32-2301077

Decision Unit:

Logged By: AJB

Dates: 4-9-24

Site Conditions: PARTIAL SUN

Drilling Contractor: Steadfast Services NW, LLC

Drilling Equipment:

Sampler Type:

Depth to Water (ATD):

Surface Elevation:

Boring Number: 4H-3

Date: 4-9-24

Lithologic Description

Fine-Grained Soils:

type, (group symbol), color, moisture content, degree of plasticity, consistency, description w/ approximate percentage, notes/observations

Coarse-Grained Soils:

type, (group symbol), color, moisture content, grading, density, description w/ approximate percentage, notes/observations

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description	Boring Number	Date
1 2 3				NS	<u>VEGETATION, ROOTLETS</u> ML, BROWN, LOW PLASTICITY, MOIST, ORANGE MOTTLING ROOTLETS DOWN TO 2', TRACE GRAVEL	4H-3	4-9-24
1 2 3			0.0 0.0 0.0	NS	<u>GRASS, ROOTLETS</u> ML, BROWN, VEG SAND, ORANGE SAND LENSES, LOOSE, NON-PLASTIC ORGANIC SOIL, ROOTLETS DOWN TO 3' BGS, COARSER SAND AT BTM	4H-1	4-9-24
1 2 3			0.0 0.0 0.0	NS	<u>ORGANICS, VEG. ROOTLETS</u> SM, BROWN, MOIST, ORANGE MOTTLING, DENSE, LOW PLASTICITY ROOTLETS DOWN TO 3' BGS, TRACE GRAVEL, LOOSE, NON- COHESIVE, FLUVIAL DEPOSITS	4H-4	4-9-24



Apex Companies, LLC
15618 SW & 2nd Avenue
Portland, Oregon 97224

Project Name: DEQ King Salvage, Toledo, OR
Project Number: 32-2301077

Decision Unit:

Logged By: AJB

Dates: 4-9-2A

Site Conditions: PARTIAL SUN

Drilling Contractor: Steadfast Services NW, LLC

Drilling Equipment:

Sampler Type:

Depth to Water (ATD):

Surface Elevation:

Boring Number: 4H-5

Date: 4-9-2A

Lithologic Description

Fine-Grained Soils:

type, (group symbol), color, moisture content, degree of plasticity, consistency, description w/ approximate percentage, notes/observations

Coarse-Grained Soils:

type, (group symbol), color, moisture content, grading, density, description w/ approximate percentage, notes/observations

Depth, feet

Core Interval/Recovery

Laboratory Sample ID

PID

Sheen

VEG., BLACK ORGANIC SOIL, GRASS

ML, BROWN, ORANGE MOTTLING
ROOTLETS DOWN TO 3' BGS
MOIST, LOOSE, SILTY, VFG SAND

GLASS FRAGMENTS

GRASS, ROOTLETS, BLACK ORG. SOIL

BROWN, ML, SILTY, VFG SAND
ROOTLETS DOWN TO 3' BGS,
ORANGE MOTTLING, WEATHERED
SAND FRAGMENTS

70%

GRAVEL, BLACK SANDY MATRIX
LOOSE, GLASS-PLASTIC FRAGMENTS

ML, BLACK, VFG SAND, LOW-PLASTIC

ML, TAN, ORANGE MOTTLED,
HARD SAND LENSES, ROOTLETS
TO 2.25' BGS

Boring Number:

Date: 4I-4

Boring Number: 4I-1

Date: 4-9-2A



Apex Companies, LLC
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Portland, Oregon 97224

Project Name: DEQ King Salvage, Toledo, OR
Project Number: 32-2301077

Decision Unit:

Logged By: AJB

Dates: 4-9-24

Site Conditions: PARTIAL SUN

Drilling Contractor: Steadfast Services NW, LLC

Drilling Equipment:

Sampler Type:

Depth to Water (ATD):

Surface Elevation:

Boring Number: AI-2

Date: 4-9-24

Lithologic Description

Fine-Grained Soils:

type, (group symbol), color, moisture content, degree of plasticity, consistency, description w/ approximate percentage, notes/observations

Coarse-Grained Soils:

type, (group symbol), color, moisture content, grading, density, description w/ approximate percentage, notes/observations

25%

VEG., GRAVEL, BROWN SANDY MATRIX

75% MOSTLY GRAVEL (UP TO 2"), GRAY SANDY MATRIX

SM, GRAY, ORANGE MOTTLED, COARSENING SANDS W/ DEPTH

Boring Number: AI-3

Date: 4-9-24

VEG. ROOTS

MOSTLY GRAVEL, POOR RECOVERY BLACK SANDY MATRIX

ML, BROWN, ORANGE-GRAY MOTTLED, GRAY SANDY LENSES COARSENING SANDS W/ DEPTH

Boring Number: AI-5

Date: 4-9-24

GRAVEL (25%), BLACK LOOSE SOIL MOIST, PLASTIC FRAGMENTS

ML, DARK BROWN, ORANGE MOTTLED, GRAVEL (UP TO 2") 10% DENSE, CONSOLIDATED



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Project Name: DEQ King Salvage, Toledo, OR
Project Number: 32-2301077

Decision Unit:

Logged By: AJB

Dates: 4-9-24

Site Conditions: SUNNY

Drilling Contractor: Steadfast Services NW, LLC

Drilling Equipment:

Sampler Type:

Depth to Water (ATD):

Surface Elevation:

Boring Number: 4D-1

Date: 4-9-24

Lithologic Description

Fine-Grained Soils:

type, (group symbol), color, moisture content, degree of plasticity, consistency, description w/ approximate percentage, notes/observations

Coarse-Grained Soils:

type, (group symbol), color, moisture content, grading, density, description w/ approximate percentage, notes/observations

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen
1			0.0	
			0.0 NS	
2			0.0	
3				

WETLAND VEG.

CH, BROWN, FAT CLAY, MOST, HIGH PLASTICITY, COHESIVE, TRACE GRAVEL

1

2

3

Boring Number: 4D-4

Date: 4-9-24

1			0.0	
			0.0 NS	
2			0.0	
			0.0	
3				

GRAVEL, BLACK SAND MATRIX BRITTLE WHITE LAYER, GLASS FILL MATERIAL

SM, GRAY, TAN MOTTLED, VFG SAND COARSENING W/ DEPTH, DENSE, NON-COHESIVE

1

2

3

Boring Number: 4D-3

Date: 4-9-24

1			0.0 NS	
			0.0	
2			0.0	
			0.0	
3				

WETLAND VEG.

ML, TAN, VFG SAND, ORANGE GRAY MOTTLING, MED. DENSE NON-COHESIVE, ROOTS DOWN TO 2' BGS, COARSENING SAND W/ DEPTH

1

2

3



Apex Companies, LLC
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Project Name: DEQ King Salvage, Toledo, OR
Project Number: 32-2301077

Decision Unit:

Logged By: ASB

Dates: 4-9-24

Site Conditions: SUNNY

Drilling Contractor: Steadfast Services NW, LLC

Drilling Equipment:

Sampler Type:

Depth to Water (ATD):

Surface Elevation:

Boring Number: 4D-5

Date: 4-9-24

Lithologic Description

Fine-Grained Soils:

type, (group symbol), color, moisture content, degree of plasticity, consistency, description w/ approximate percentage, notes/observations

Coarse-Grained Soils:

type, (group symbol), color, moisture content, grading, density, description w/ approximate percentage, notes/observations

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen
1			0.0	NS
2			0.0	
3			0.0	

WETLAND VEG.
SM, TAN, VFG SAND, ORANGE
GRAY MOTTLING, SATURATED
MED. DENSE, NON-COHESIVE
NON-PLASTIC

1

2

3

Boring Number: DU-6-1

Date: 4-10-24

1				
2				
3				

SEE DEEPER BORING LOG

1

2

3

Boring Number: 4B-1

Date: 4-10-24

1				
2				
3				

HA
OR ~2" dk brown organic silt - topsoil
sm, orange and tan to orange
silty sand, moist, med. dense

1

2

3



Apex Companies, LLC
15618 SW 82nd Avenue
Portland, Oregon 97224

Project Name: DEQ King Salvage, Toledo, OR
Project Number: 32-2301077

Decision Unit: 4B

Logged By: OK

Dates: 4/10/24

Site Conditions: Sunny, ~50°

Drilling Contractor: Steadfast Services NW, LLC

Drilling Equipment: HA

Sampler Type: 3" bucket

Depth to Water (ATD):

Surface Elevation:

Boring Number: 4B-2

Date: 4/10/24

Lithologic Description

Fine-Grained Soils:

type, (group symbol), color, moisture content, degree of plasticity, consistency, description w/ approximate percentage, notes/observations

Coarse-Grained Soils:

type, (group symbol), color, moisture content, grading, density, description w/ approximate percentage, notes/observations

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Description
1			1.5 NS		2" OL dk brown organic silt - topsoil
2			1.3		6" ML, 14, brown sandy silt, few gravel, moist
3			1.1		SM, orange and tan to orange silty sand, moist, med. dense

Boring Number: 4B-3

Date:

1			1.6 NS		3" OL, dk brown organic silt - topsoil - SM, orange and tan to orange sandy silt, moist, med dense, low plasticity
2			1.0		ML, orange sandy silt, moist, med dense, med. plasticity
3			3.1		

Boring Number: 4B-4

Date:

1			1.7 NS		3" OL, dk brown organic silt - topsoil - SM, orange and tan to orange sandy silt, moist, med dense
2			2.8		
3			1.2		



Apex Companies, LLC
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Project Name: DEQ King Salvage, Toledo, OR
Project Number: 32-2301077

Decision Unit: 4B

Logged By: DK

Dates: 4/10/24

Site Conditions: Sunny, ~50°

Drilling Contractor: Steadfast Services NW, LLC

Drilling Equipment: HA

Sampler Type: 3" Bucket

Depth to Water (ATD):

Surface Elevation:

Boring Number: 4B-5

Date:

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen	Lithologic Description
					Fine-Grained Soils: type, (group symbol), color, moisture content, degree of plasticity, consistency, description w/ approximate percentage, notes/observations Coarse-Grained Soils: type, (group symbol), color, moisture content, grading, density, description w/ approximate percentage, notes/observations
1		1.7		NS	3" OL, dk brown organic silt, -top soil - SM, orange and tan to orange silty sand, moist
2		2.0			
3		1.3			
Boring Number: Date:					
1					
2					
3					
Boring Number: Date:					
1					
2					
3					
Boring Number: Date:					
1					
2					
3					



Apex Companies, LLC
15618 SW 72nd Avenue
Portland, Oregon 972224

Project Name: DEQ King Salvage, Toledo, OR

Project Number: 32-2301077

Boring Number:

Project Number:

Logged By: ASB

Date: 4-10-24

Site Conditions: PARTIAL SUN

Drilling Contractor: Steadfast Services NW, LLC

Drilling Equipment:

Sampler Type:

Depth to Water (ATD):

Surface Elevation:

Boring Details and Notes:

Lithologic Description

Fine-Grained Soils:

type, (group symbol), color, moisture content, degree of plasticity, consistency, description w/ approximate percentage, notes/observations

Coarse-Grained Soils:

type, (group symbol), color, moisture content, grading, density, description w/ approximate percentage, notes/observations

Depth, feet

Core Interval/Recovery

Laboratory Sample ID

PID

Sheen (S/NS)

WETLAND VEG. 0-6" BGS, SAND
ML, GRAY, VFG SAND, ORANGE MOTTLE
ML, DARK BROWN, VFG SAND
INCREASED SILT/CLAY, MOIST
SATURATED, MED. PLASTICITY
DECOMPOSING WOOD AT BTM.,
DENSE

DU-6-1

5

10

Boring Number: DU-6-2

Logged By: ASB

Date: 4-10-24

Site Conditions: PARTIAL SUN

Drilling Contractor: Steadfast Services NW, LLC

Drilling Equipment:

Sampler Type:

Depth to Water (ATD):

Surface Elevation:

Boring Details and Notes:

Lithologic Description

Fine-Grained Soils:

type, (group symbol), color, moisture content, degree of plasticity, consistency, description w/ approximate percentage, notes/observations

Coarse-Grained Soils:

type, (group symbol), color, moisture content, grading, density, description w/ approximate percentage, notes/observations

Depth, feet

Core Interval/Recovery

Laboratory Sample ID

PID

Sheen (S/NS)

VEG., ROOTLETS (0-3") GRAY
ML, VFG SAND, TAN, ORANGE-
GRAY MOTTLING, LOOSE, INCREASED
SILT/CLAY AT BTM, SATURATED

5

10



Apex Companies, LLC
15618 SW 72nd Avenue
Portland, Oregon 972224

Project Name: DEQ King Salvage, Toledo, OR

Project Number: 32-2301077

Boring Number:

Project Number:

Logged By: AJB

Date: 4-10-24

Site Conditions: SUNNY

Drilling Contractor: Steadfast Services NW, LLC

Drilling Equipment:

Sampler Type:

Depth to Water (ATD):

Surface Elevation:

Boring Details and Notes:

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen (S/NS)	Lithologic Description
0					<i>Fine-Grained Soils:</i> type, (group symbol), color, moisture content, degree of plasticity, consistency, description w/ approximate percentage, notes/observations
5					<i>Coarse-Grained Soils:</i> type, (group symbol), color, moisture content, grading, density, description w/ approximate percentage, notes/observations
10					

Depth, feet	Boring Details and Notes
0	
5	
10	

Boring Number:

Logged By:

Date:

Site Conditions:

Drilling Contractor: Steadfast Services NW, LLC

Drilling Equipment:

Sampler Type:

Depth to Water (ATD):

Surface Elevation:

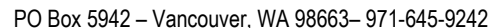
Boring Details and Notes:

Depth, feet	Core Interval/Recovery	Laboratory Sample ID	PID	Sheen (S/NS)	Lithologic Description
0					<i>Fine-Grained Soils:</i> type, (group symbol), color, moisture content, degree of plasticity, consistency, description w/ approximate percentage, notes/observations
5					<i>Coarse-Grained Soils:</i> type, (group symbol), color, moisture content, grading, density, description w/ approximate percentage, notes/observations
10					

Depth, feet	Boring Details and Notes
0	
5	
10	

[illegible]

Client Signature _____ Operator Signature _____



CLIENT	APEX			PROJECT NO	O24105			DATE	10 April 2024		DAY	Wed	
JOB LOCATION		King Salvage- Toledo, Oregon				DIG ALERT#				SSNW			
Well # Bore #	Depth Drilled	DESCRIPTION OF WORK Please explain reasons for Down Time and Standby Time and Shop Time							HOURS		Total Hrs	Chg Hrs	
									Start	Stop			
		AM Shop Time											
		Travel to Site							7:45	8:00			
		H&S meeting							8:00	8:15			
	5'	Soil only borings							8:15	10:00			
	5'												
	5'												
		Clean up and load rig											
		Travel to Shop							10:00	2:00			
		PM Shop Time											
Total Ft	15'	TOTAL CHARGEABLE RIG HOURS											
RIG ENGINE HOURS:		START			STOP:			TOTAL					
EQUIPMENT					CASING			MATERIALS					
								ITEM	QTY	ITEM	QTY		
DRILL RIG #	7720	COMPRESSOR/JACKHAMMER			TYPE	SLOT		SAND		WELL COVER 5"			
SUPPORT TRUCK #	403	SNOW FENCE RENTAL			20'	SCREEN		READYMIX		WELL COVER 12"			
SUPPORT TRUCK #		CONTINUOUS SAMPLER			10'	SCREEN		QUICKSET		MONUMENT CASING			
TRAILER #	206	CONTINUOUS SAMPLER FOOTAGE			5'	SCREEN		PORTLAND		BOLLARDS			
BOBCAT		# OF CORE CUTS			20'	BLANK		ASPHALT		SOIL DRUMS			
AUTO HAMMER		# OF BULLDOG CUTS			10'	BLANK		BENTONITE GROUT		DEVELOPMENT DRUMS			
GROUT MIXER		# OF SERVICE RUNS			5'	BLANK		BENTONITE CHIPS	1	DECON DRUMS			
GROUT PUMP		# OF SAW CUTS			5'	PP SCREEN		BENTONITE POWDER		HOLE COVER PLATES			
PERISTALTIC PUMP		PORTABLE RESTROOM			10'	PP SCREEN		BENTONITE PELLETS		PLASTIC SHEETING			
FORKLIFT/HOPPER						SLIP CAP		BENTONITE GRANULAR		TRAFFIC CONTROL			
LABOR					THREADED CAPS			SAMPLER TUBES		CORE BOXES			
CREW WITH PER DIEM		CHARGEABLE EXTRA LABOR HRS			LOCKING CAPS			SHELBY TUBES		PLYWOOD			
NAME	SIGNATURE	SHOP	FIELD	TOTAL HRS	DRIVE SHOE			Soil vapor POINTS	*	SOIL SAMPLES			
Darryl M					CENTRALIZERS			GW PROBE POINTS		WATER SAMPLES			
Tradd R					LOCKS			MACRO LINERS		HYDROPUNCH SAMPLES			
								SAMPLER SHOE		AUGER PLUGS			
					UTILITIES FOUND OR HIT					DRILL OUT BITS			
REMARKS													

Client Signature _____ Operator Signature _____

Attachment B

Field Methods and Sampling Procedures

1. PURPOSE AND SCOPE

This Standard Operating Procedure (SOP) provides instructions for standard field screening. Field screening results are used to aid in the selection of soil samples for chemical analysis. This procedure is applicable during Apex Companies, LLC (Apex) soil sampling operations.

Standard field screening techniques include the use of a photoionization detector (PID) to assess for volatile organic compounds (VOCs), for the presence of separate-phase petroleum hydrocarbons using a sheen test. These methods will not detect all potential contaminants, so selection of screening techniques shall be based on an understanding of the site history. The PID is not compound or concentration-specific, but it can provide a qualitative indication of the presence of VOCs. PID measurements are affected by other field parameters such as temperature and soil moisture. Other field screening methods, such as screening for dense non-aqueous phase liquid (DNAPL) using dye or UV light, are not considered "standard" and will be detailed in the site-specific sampling and analysis plan (SAP).

2. EQUIPMENT AND MATERIALS

The following materials are necessary for this procedure:

- PID with calibration gas (record daily calibration/calibration check in field notes);
- Plastic resealable bags (for PID measurement); and
- Glass jars or stainless steel bowls (for sheen testing).

3. METHODOLOGY

Each soil sample will be field screened for VOCs using a PID and for the presence of separate-phase petroleum hydrocarbons using a sheen test. If the presence of DNAPL is suspected, then screening using dye and UV light may also be completed. For information regarding screening using dye or UV light, refer to the site specific sampling and analysis plan.

PID lamps come in multiple sizes, typically 9.8, 10.6, and 11.7 electron volts (eV). The eV rating for the lamp must be greater than the ionization potential (in eV) of a compound in order for the PID to detect the compound. For petroleum hydrocarbons, a lamp of at least 9.8 eV should be used. For typical chlorinated alkenes (dichloroethene, trichloroethene, tetrachloroethene, or vinyl chloride.), a lamp of at least 10.6 eV should be used. The compatibility of the lamp size with the site constituents should be verified prior to the field event and will be detailed in the site-specific SAP.

PID Calibration Procedure: The PID used on-site should be calibrated daily or more frequently if needed. Calibration of the PID should be documented in field notes. Calibrations procedures should be conducted according to the manufacturer's instructions. .

PID Screening Procedure:

- Place a representative portion (approximately one ounce) of freshly exposed, uncompacted soil into a clean resealable plastic bag.
- Seal the bag and break up the soil to expose vapors from the soil matrix.
- Allow the bag to sit to reach ambient temperature. Note: Ambient temperature and weather conditions/humidity should be recorded in field notes. Changes in ambient temperature and weather during the field work should also be recorded, as temperature and humidity can affect PID readings.
- Carefully insert the intake port of the PID into the plastic bag.
- Record the PID measurement in the field notes or boring logs.

Sheen Test Procedure:

- Following the PID screen, place approximately one ounce of freshly exposed, uncompacted soil into a clean glass jar or stainless steel bowl.

STANDARD OPERATING PROCEDURE

SOP Number: 2.1

Date: November 9, 2009

STANDARD FIELD SCREENING PROCEDURES

Revision Number: 1.1

Page: 2 of 2

- Add enough water to cover the sample.
- Observe the water surface for signs of discoloration/sheen and characterize

No Sheen (NS)	No visible sheen on the water surface
Biogenic Film (BF)	Dull, platy/blocky or foamy film.
Slight Sheen (SS)	Light sheen with irregular spread, not rapid. May have small spots of color/iridescence. Majority of water surface not covered by sheen.
Moderate Sheen (MS)	Medium to heavy coverage, some color/iridescence, spread is irregular to flowing. Sheen covering a large portion of water surface.
Heavy Sheen (HS)	Heavy sheen coverage with color/iridescence, spread is rapid, entire water surface covered with sheen. Separate-phase hydrocarbons may be evident during sheen test.

1. PURPOSE AND SCOPE

This Standard Operating Procedure (SOP) describes the methods used for obtaining surface soil samples for physical and/or chemical analysis. For purposes of this SOP, surface soil (including shallow subsurface soil) is loosely defined as soil that is present within 3 feet of the ground surface at the time of sampling. Various types of sampling equipment are used to collect surface soil samples including spoons, scoops, trowels, shovels, and hand augers.

2. EQUIPMENT AND MATERIALS

The following materials are necessary for this procedure:

- Spoons, scoops, trowels, shovels, and/or hand augers. Stainless steel is preferred.
- Stainless steel bowls
- Laboratory-supplied sample containers
- Field documentation materials
- Decontamination materials
- Personal protective equipment (as required by Health and Safety Plan)

3. METHODOLOGY

Project-specific requirements will generally dictate the preferred type of sampling equipment used at a particular site. The following parameters should be considered: sampling depth, soil density, soil moisture, use of analyses (e.g., chemical versus physical testing), type of analyses (e.g., volatile versus non-volatile). Analytical testing requirements will indicate sample volume requirements that also will influence the selection of the appropriate type of sampling tool. The project sampling plan should define the specific requirements for collection of surface soil samples at a particular site.

Collection of Samples

- **Volatile Analyses.** Surface soil sampling for volatile organics analysis (VOA) is different than other routine physical or chemical testing because of the potential loss of volatiles during sampling. To limit volatile loss, the soil sample must be obtained as quickly and as directly as possible. If a VOA sample is to be collected as part of a multiple analyte sample, the VOA sample portion will be obtained first. The VOA sample should be obtained from a discrete portion of the entire collected sample and should not be composited or homogenized. Sample bottles should be filled to capacity, with no headspace. Specific procedures for collecting VOA samples using the EPA Method 5035 are discussed in SOP 2-7.
- **Other Analyses.** Once the targeted sample interval has been collected, the soil sample will be thoroughly homogenized in a stainless steel bowl prior to bottling. Sample homogenizing is accomplished by manually mixing the entire soil sample in the stainless steel bowl with the sampling tool or with a clean teaspoon or spatula until a uniform mixture is achieved. If packing of the samples into the bottles is necessary, a clean stainless steel teaspoon or spatula may be used.

General Sampling Procedure:

- Decontaminate sampling equipment in accordance with the Sampling and Analysis Plan (SAP) before and after each individual soil sample.
- Remove surface debris that blocks access to the actual soil surface or loosen dense surface soils, such as those encountered in heavy traffic areas. If sampling equipment is used to remove surface debris,

STANDARD OPERATING PROCEDURE

SOP Number: 2.2

Date: December 11, 2007

SURFACE SOIL SAMPLING PROCEDURES

Revision Number: 0.01

Page: 2 of 2

the equipment should be decontaminated prior to sampling to reduce the potential for sample interferences.

- When using a hand auger, push and rotate downward until the auger becomes filled with soil. Usually a 6- to 12-inch long core of soil is obtained each time the auger is inserted. Once filled, remove the auger from the ground and empty into a stainless steel bowl. If a VOA sample is required, the sample should be taken directly from the auger using a teaspoon or spatula and/or directly filling the sample container from the auger. Repeat the augering process until the desired sample interval has been augered and placed into the stainless steel bowl.

Backfilling Sample Locations:

Backfill in accordance with federal and state regulations including OAR 690-240 (e.g., bentonite requirements). The soils from the excavation will be used as backfill unless project-specific or state requirements include the use of clean backfill material.

1. PURPOSE AND SCOPE

This Standard Operating Procedure (SOP) describes the methods for observing and sampling from push-probes (i.e., GeoProbe™). Subsurface soil cores may be obtained using this system for purposes of determining subsurface soil conditions and for obtaining soil samples for physical and/or chemical evaluation. Grab groundwater samples may be collected using temporary well screens. Soil vapor samples may be obtained using temporary well points. Shallow (less than 50 feet), small-diameter (2-inch max) pre-packed wells may also be installed using push-probe equipment. This procedure is applicable during all Apex Companies, LLC (Apex) push-probe activities.

2. EQUIPMENT AND MATERIALS

The following materials are necessary for this procedure:

- Traffic cones, measuring tape, spatula, and buckets/drums
- Sampling equipment (water level probe, pumps, tubing) and laboratory-supplied sample containers
- Field documentation materials
- Decontamination materials
- Personal protective equipment (as required by project Health and Safety Plan)

3. METHODOLOGY

Coring Procedure (Conducted by Drilling Subcontractor):

The sampling procedure includes driving a 2-inch outside-diameter, 5-foot-long, push-probe soil sampler to the desired depth using a combination of hydraulic pressure and mechanical hammer blows. When the sampling depth is reached, the pin attaching the sampler's tip is released (if a tip is used), which allows the tip to slide inside the sampler (Macro-Core Sampler with removable plastic liner). The sampler is driven the length of the sampler to collect a soil core, which is then withdrawn from the exploration. When the sampler is retrieved from the borehole the drive head/cutting shoe is detached and the liner is removed. Soil cores are collected continuously to the full depth of the exploration unless otherwise specified in a project-specific sampling and analysis plan (SAP). Verify that the subcontractor decontaminates the sampling device (per SOP 1.2) prior to its initial use and following collection of each soil sample.

Logging and Soil Sample Collection:

Remove the soil core from the sampler for field screening, description, and placement into sample jars. Soil samples will be collected for field screening and possible chemical analysis on two foot intervals unless otherwise specified in a project-specific SAP. The sampling interval will be determined in the field based on recovery, soil variability, and evidence of contamination. Complete field screening as specified in SOP-2.1. Soil samples should be collected using different procedures for volatile on non-volatile analyses, as follows.

- **Volatile Analyses.** Sampling for volatile organics analysis (VOA) is different than other routine physical or chemical testing because of the potential loss of volatiles during sampling. To limit volatile loss, the soil sample must be obtained as quickly and as directly as possible. If a VOA sample is to be collected as part of a multiple analyte sample, the VOA sample portion will be obtained first. The VOA sample should be obtained from a discrete portion of the entire collected sample and should not be composited or homogenized. Sample bottles should be filled to capacity, with no headspace. Specific procedures for collecting VOA samples using the EPA Method 5035 are discussed in SOP 2.7.
- **Other Analyses.** Soil samples for non-volatile analyses will be thoroughly homogenized in a stainless steel bowl prior to bottling. Sample homogenizing is accomplished by manually mixing the entire soil

STANDARD OPERATING PROCEDURE

SOP Number: 2.4

Date: July 28, 2009

PUSH-PROBE EXPLORATION PROCEDURES

Revision Number: 0.02

Page: 2 of 2

sample in the stainless steel bowl with a clean sampling tool until a uniform mixture is achieved. The sample jar should be filled completely.

Any extra soil generated during probing activities will be placed in Department of Transportation (DOT) approved drums.

Grab Groundwater Sample Collection:

Collect grab groundwater samples using a sampling attachment with a 4 to 5-foot-long temporary screen (specify to drillers whether to use decontaminated stainless steel or disposable PVC. Also, specify whether a filter pack is necessary based on field observations). Obtain samples using a peristaltic pump unless otherwise specified in the SAP with new tubing for each boring. Record field parameters (e.g., temperature, conductivity, and pH) prior to sampling.

Backfilling the Excavation (Conducted by Drilling Subcontractor):

After sampling activities are completed, abandon each exploration in accordance with Oregon Water Resources Department (OWRD) regulations and procedures. The abandonment procedure typically consists of filling the exploration with granular bentonite and hydrating the bentonite with water. Match the surface completion to the surrounding materials.

Attachment C

Analytical Laboratory Testing Program and Documentation

Oregon Dept. of Env. Quality - ODEQ

Sample Delivery Group: L1725561
Samples Received: 04/13/2024
Project Number: 32-23010077
Description: King Salvage

Report To: Andrew Bisbee

Entire Report Reviewed By:



Brian Ford
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

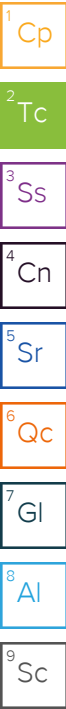
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Sr
⁶ Qc
⁷ Gl
⁸ Al
⁹ Sc

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SAMPLE SUMMARY

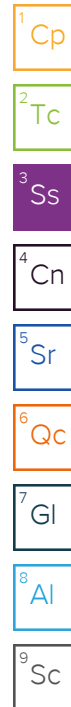
DU-3-SS-COMP-1 L1725561-06 Solid

Collected by
Andrew Bisbee

Collected date/time
04/10/24 14:10

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2267999	1	04/16/24 13:26	04/16/24 13:35	KDW	Mt. Juliet, TN
Mercury by Method 7471B	WG2268639	1	04/17/24 08:51	04/17/24 17:48	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2268234	1	04/16/24 16:20	04/16/24 23:10	DJS	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2269461	1	04/18/24 08:11	04/18/24 21:32	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2269760	1	04/18/24 20:21	04/19/24 13:39	JRM	Mt. Juliet, TN



DU-4A-COMP-1 L1725561-22 Solid

Collected by
Andrew Bisbee

Collected date/time
04/08/24 12:30

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268002	1	04/16/24 13:17	04/16/24 13:25	KDW	Mt. Juliet, TN
Mercury by Method 7471B	WG2268639	1	04/17/24 08:51	04/17/24 18:38	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2268234	1	04/16/24 16:20	04/16/24 23:42	DJS	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2270219	1	04/19/24 11:28	04/19/24 18:35	KAP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2270219	5	04/19/24 11:28	04/20/24 11:43	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2269760	1	04/18/24 20:21	04/19/24 15:17	JRM	Mt. Juliet, TN

DU-4A-COMP-2 L1725561-23 Solid

Collected by
Andrew Bisbee

Collected date/time
04/08/24 12:35

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268002	1	04/16/24 13:17	04/16/24 13:25	KDW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2270219	1	04/19/24 11:28	04/19/24 17:21	KAP	Mt. Juliet, TN

DU-4A-COMP-3 L1725561-24 Solid

Collected by
Andrew Bisbee

Collected date/time
04/08/24 12:45

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268002	1	04/16/24 13:17	04/16/24 13:25	KDW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2270219	1	04/19/24 11:28	04/20/24 10:37	JAS	Mt. Juliet, TN

DU-4B-COMP-1 L1725561-40 Solid

Collected by
Andrew Bisbee

Collected date/time
04/10/24 12:33

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268002	1	04/16/24 13:17	04/16/24 13:25	KDW	Mt. Juliet, TN
Mercury by Method 7471B	WG2268639	1	04/17/24 08:51	04/17/24 18:40	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2268234	1	04/16/24 16:20	04/16/24 23:45	DJS	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2270219	1	04/19/24 11:28	04/19/24 17:58	KAP	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2269839	1	04/19/24 09:47	04/20/24 01:07	ALM	Mt. Juliet, TN

DU-4B-COMP-2 L1725561-41 Solid

Collected by
Andrew Bisbee

Collected date/time
04/10/24 12:35

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268002	1	04/16/24 13:17	04/16/24 13:25	KDW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2270219	1	04/19/24 11:28	04/19/24 16:56	KAP	Mt. Juliet, TN

SAMPLE SUMMARY

DU-4B-COMP-3 L1725561-42 Solid

Collected by
Andrew Bisbee

Collected date/time
04/10/24 12:40

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268002	1	04/16/24 13:17	04/16/24 13:25	KDW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2270219	1	04/19/24 11:28	04/19/24 16:44	KAP	Mt. Juliet, TN

DU-4C-4-2 L1725561-53 Solid

Collected by
Andrew Bisbee

Collected date/time
04/08/24 14:50

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268006	1	04/16/24 13:03	04/16/24 13:14	KDW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2270219	1	04/19/24 11:28	04/19/24 16:32	KAP	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2269839	1	04/19/24 09:47	04/20/24 01:25	ALM	Mt. Juliet, TN

DU-4C-COMP-1 L1725561-58 Solid

Collected by
Andrew Bisbee

Collected date/time
04/08/24 15:00

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268006	1	04/16/24 13:03	04/16/24 13:14	KDW	Mt. Juliet, TN
Mercury by Method 7471B	WG2268639	1	04/17/24 08:51	04/17/24 18:43	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2268234	1	04/16/24 16:20	04/16/24 23:49	DJS	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2270219	1	04/19/24 11:28	04/19/24 18:23	KAP	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2269839	1	04/19/24 09:47	04/20/24 01:43	ALM	Mt. Juliet, TN

DU-4C-COMP-2 L1725561-59 Solid

Collected by
Andrew Bisbee

Collected date/time
04/08/24 15:05

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268006	1	04/16/24 13:03	04/16/24 13:14	KDW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2270219	1	04/19/24 11:28	04/19/24 17:09	KAP	Mt. Juliet, TN

DU-4C-COMP-3 L1725561-60 Solid

Collected by
Andrew Bisbee

Collected date/time
04/08/24 15:15

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268006	1	04/16/24 13:03	04/16/24 13:14	KDW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2270219	1	04/19/24 11:28	04/19/24 17:58	KAP	Mt. Juliet, TN

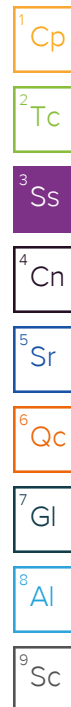
DU-4D-COMP-1 L1725561-76 Solid

Collected by
Andrew Bisbee

Collected date/time
04/09/24 16:35

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268006	1	04/16/24 13:03	04/16/24 13:14	KDW	Mt. Juliet, TN
Mercury by Method 7471B	WG2268639	1	04/17/24 08:51	04/17/24 17:31	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2268234	1	04/16/24 16:20	04/16/24 22:52	DJS	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2270232	1	04/19/24 07:48	04/19/24 18:03	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2269839	1	04/19/24 09:47	04/20/24 02:01	ALM	Mt. Juliet, TN



SAMPLE SUMMARY

DU-4D-COMP-2 L1725561-77 Solid

				Collected by Andrew Bisbee	Collected date/time 04/09/24 16:40	Received date/time 04/13/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268006	1	04/16/24 13:03	04/16/24 13:14	KDW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2270232	1	04/19/24 07:48	04/19/24 17:21	JAS	Mt. Juliet, TN

DU-4D-COMP-3 L1725561-78 Solid

				Collected by Andrew Bisbee	Collected date/time 04/09/24 16:45	Received date/time 04/13/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268006	1	04/16/24 13:03	04/16/24 13:14	KDW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2270232	1	04/19/24 07:48	04/19/24 17:07	JAS	Mt. Juliet, TN

DU-4E-4-2 L1725561-89 Solid

				Collected by Andrew Bisbee	Collected date/time 04/08/24 16:10	Received date/time 04/13/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268006	1	04/16/24 13:03	04/16/24 13:14	KDW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2270232	20	04/19/24 07:48	04/20/24 11:03	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2269839	1	04/19/24 09:47	04/20/24 02:19	ALM	Mt. Juliet, TN

DU-4E-COMP-1 L1725561-94 Solid

				Collected by Andrew Bisbee	Collected date/time 04/08/24 16:25	Received date/time 04/13/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268006	1	04/16/24 13:03	04/16/24 13:14	KDW	Mt. Juliet, TN
Mercury by Method 7471B	WG2268623	1	04/17/24 08:54	04/17/24 16:33	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2268821	1	04/17/24 12:07	04/17/24 21:57	JTM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2270232	2	04/19/24 07:48	04/19/24 18:31	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2270229	1	04/19/24 07:30	04/20/24 04:42	ALM	Mt. Juliet, TN

DU-4E-COMP-2 L1725561-95 Solid

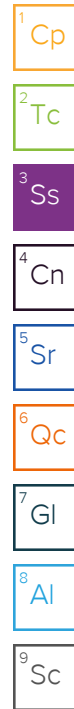
				Collected by Andrew Bisbee	Collected date/time 04/08/24 16:30	Received date/time 04/13/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268006	1	04/16/24 13:03	04/16/24 13:14	KDW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2270232	10	04/19/24 07:48	04/20/24 12:44	JAS	Mt. Juliet, TN

DU-4E-COMP-3 L1725561-96 Solid

				Collected by Andrew Bisbee	Collected date/time 04/08/24 16:35	Received date/time 04/13/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268008	1	04/16/24 12:53	04/16/24 13:00	KDW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2270232	5	04/19/24 07:48	04/19/24 22:14	JAS	Mt. Juliet, TN

DU-4F-2-2 L1725561-101 Solid

				Collected by Andrew Bisbee	Collected date/time 04/09/24 08:35	Received date/time 04/13/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2267999	1	04/16/24 13:26	04/16/24 13:35	KDW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2269461	25	04/18/24 08:11	04/19/24 00:09	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2269760	1	04/18/24 20:21	04/21/24 04:55	MBE	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2269760	10	04/18/24 20:21	04/21/24 05:15	MBE	Mt. Juliet, TN



SAMPLE SUMMARY

DU-4F-5-2 L1725561-110 Solid

Collected by
Andrew Bisbee

Collected date/time
04/09/24 09:25

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2267999	1	04/16/24 13:26	04/16/24 13:35	KDW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2269461	500	04/18/24 08:11	04/19/24 01:15	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2269760	10	04/18/24 20:21	04/21/24 05:34	CAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2269760	20	04/18/24 20:21	04/24/24 10:07	ALM	Mt. Juliet, TN

DU-4F-COMP-1 L1725561-112 Solid

Collected by
Andrew Bisbee

Collected date/time
04/09/24 09:30

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2267999	1	04/16/24 13:26	04/16/24 13:35	KDW	Mt. Juliet, TN
Mercury by Method 7471B	WG2268623	1	04/17/24 08:54	04/17/24 16:24	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2268821	1	04/17/24 12:07	04/17/24 21:54	JTM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2269461	10	04/18/24 08:11	04/19/24 12:00	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2269760	1	04/18/24 20:21	04/19/24 16:35	JRM	Mt. Juliet, TN

DU-4F-COMP-2 L1725561-113 Solid

Collected by
Andrew Bisbee

Collected date/time
04/09/24 09:35

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2267999	1	04/16/24 13:26	04/16/24 13:35	KDW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2269461	1	04/18/24 08:11	04/18/24 22:25	JAS	Mt. Juliet, TN

DU-4F-COMP-3 L1725561-114 Solid

Collected by
Andrew Bisbee

Collected date/time
04/09/24 09:40

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268002	1	04/16/24 13:17	04/16/24 13:25	KDW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2269461	10	04/18/24 08:11	04/18/24 23:43	JAS	Mt. Juliet, TN

DU-4G-COMP-1 L1725561-130 Solid

Collected by
Andrew Bisbee

Collected date/time
04/09/24 12:00

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268002	1	04/16/24 13:17	04/16/24 13:25	KDW	Mt. Juliet, TN
Mercury by Method 7471B	WG2268623	1	04/17/24 08:54	04/17/24 16:31	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2268821	1	04/17/24 12:07	04/17/24 21:55	JTM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2269461	1	04/18/24 08:11	04/18/24 23:04	JAS	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2269461	5	04/18/24 08:11	04/19/24 11:46	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2269760	1	04/18/24 20:21	04/19/24 15:56	JRM	Mt. Juliet, TN

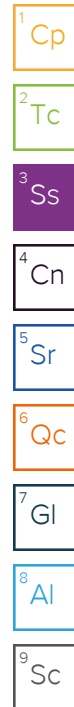
DU-4G-COMP-2 L1725561-131 Solid

Collected by
Andrew Bisbee

Collected date/time
04/09/24 12:05

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268002	1	04/16/24 13:17	04/16/24 13:25	KDW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2269461	1	04/18/24 08:11	04/18/24 20:40	JAS	Mt. Juliet, TN



SAMPLE SUMMARY

DU-4G-COMP-3 L1725561-132 Solid

				Collected by Andrew Bisbee	Collected date/time 04/09/24 12:10	Received date/time 04/13/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268002	1	04/16/24 13:17	04/16/24 13:25	KDW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2269461	1	04/18/24 08:11	04/18/24 21:19	JAS	Mt. Juliet, TN

DU-4H-COMP-1 L1725561-148 Solid

				Collected by Andrew Bisbee	Collected date/time 04/09/24 13:50	Received date/time 04/13/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268548	1	04/17/24 09:36	04/17/24 09:47	KDW	Mt. Juliet, TN
Mercury by Method 7471B	WG2268639	1	04/17/24 08:51	04/17/24 17:51	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2268234	1	04/16/24 16:20	04/16/24 23:14	DJS	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2269461	1	04/18/24 08:11	04/18/24 22:38	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2269760	1	04/18/24 20:21	04/19/24 13:59	JRM	Mt. Juliet, TN

DU-4H-COMP-2 L1725561-149 Solid

				Collected by Andrew Bisbee	Collected date/time 04/09/24 13:55	Received date/time 04/13/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268548	1	04/17/24 09:36	04/17/24 09:47	KDW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2269461	1	04/18/24 08:11	04/18/24 21:58	JAS	Mt. Juliet, TN

DU-4H-COMP-3 L1725561-150 Solid

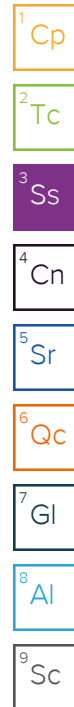
				Collected by Andrew Bisbee	Collected date/time 04/09/24 14:00	Received date/time 04/13/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268548	1	04/17/24 09:36	04/17/24 09:47	KDW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2269461	1	04/18/24 08:11	04/18/24 22:11	JAS	Mt. Juliet, TN

DU-4I-COMP-1 L1725561-166 Solid

				Collected by Andrew Bisbee	Collected date/time 04/09/24 15:20	Received date/time 04/13/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268548	1	04/17/24 09:36	04/17/24 09:47	KDW	Mt. Juliet, TN
Mercury by Method 7471B	WG2268639	1	04/17/24 08:51	04/17/24 17:53	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2268234	1	04/16/24 16:20	04/16/24 23:17	DJS	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2269804	200	04/18/24 15:55	04/19/24 08:26	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2269760	1	04/18/24 20:21	04/19/24 16:16	JRM	Mt. Juliet, TN

DU-4I-COMP-2 L1725561-167 Solid

				Collected by Andrew Bisbee	Collected date/time 04/09/24 15:25	Received date/time 04/13/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268548	1	04/17/24 09:36	04/17/24 09:47	KDW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2269804	1	04/18/24 15:55	04/19/24 07:47	JAS	Mt. Juliet, TN



SAMPLE SUMMARY

DU-4I-COMP-3 L1725561-168 Solid

Collected by
Andrew Bisbee

Collected date/time
04/09/24 15:35

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268548	1	04/17/24 09:36	04/17/24 09:47	KDW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2269804	1	04/18/24 15:55	04/19/24 03:25	JAS	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

DU-5-SS-COMP-1 L1725561-174 Solid

Collected by
Andrew Bisbee

Collected date/time
04/10/24 14:40

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268548	1	04/17/24 09:36	04/17/24 09:47	KDW	Mt. Juliet, TN
Mercury by Method 7471B	WG2268639	1	04/17/24 08:51	04/17/24 18:28	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2268234	1	04/16/24 16:20	04/16/24 23:28	DJS	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2269804	1	04/18/24 15:55	04/19/24 07:34	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2269760	1	04/18/24 20:21	04/19/24 14:18	JRM	Mt. Juliet, TN

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

DU-6-COMP-1 L1725561-184 Solid

Collected by
Andrew Bisbee

Collected date/time
04/10/24 09:50

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268549	1	04/17/24 08:21	04/17/24 08:28	KDW	Mt. Juliet, TN
Mercury by Method 7471B	WG2268639	1	04/17/24 08:51	04/17/24 18:30	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2268234	1	04/16/24 16:20	04/16/24 23:31	DJS	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2269804	1	04/18/24 15:55	04/19/24 08:00	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2269760	1	04/18/24 20:21	04/19/24 14:38	JRM	Mt. Juliet, TN

⁸ Al

⁹ Sc

DU-6-COMP-2 L1725561-185 Solid

Collected by
Andrew Bisbee

Collected date/time
04/10/24 10:00

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268549	1	04/17/24 08:21	04/17/24 08:28	KDW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2269804	1	04/18/24 15:55	04/19/24 07:21	JAS	Mt. Juliet, TN

DU-6-COMP-5 L1725561-186 Solid

Collected by
Andrew Bisbee

Collected date/time
04/10/24 10:10

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268549	1	04/17/24 08:21	04/17/24 08:28	KDW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2269804	1	04/18/24 15:55	04/19/24 08:13	JAS	Mt. Juliet, TN

DU-6-SS-COMP-1 L1725561-192 Solid

Collected by
Andrew Bisbee

Collected date/time
04/10/24 13:30

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268549	1	04/17/24 08:21	04/17/24 08:28	KDW	Mt. Juliet, TN
Mercury by Method 7471B	WG2268639	1	04/17/24 08:51	04/17/24 18:33	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2268234	1	04/16/24 16:20	04/16/24 23:35	DJS	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2270219	1	04/19/24 11:28	04/19/24 17:46	KAP	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2269760	1	04/18/24 20:21	04/19/24 14:57	JRM	Mt. Juliet, TN

SAMPLE SUMMARY

IDW L1725561-193 Solid

Collected by
Andrew Bisbee

Collected date/time
04/10/24 14:00

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268549	1	04/17/24 08:21	04/17/24 08:28	KDW	Mt. Juliet, TN
Mercury by Method 7471B	WG2268639	1	04/17/24 08:51	04/17/24 18:35	AKB	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2268234	1	04/16/24 16:20	04/16/24 23:38	DJS	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPH-HCID	WG2270226	1	04/19/24 06:16	04/19/24 15:35	JSS	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

ACCOUNT:

Oregon Dept. of Env. Quality - ODEQ

PROJECT:

32-23010077

SDG:

L1725561

DATE/TIME:

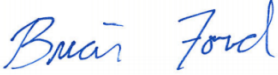
04/25/24 10:52

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CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Brian Ford
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	66.0		1	04/16/2024 13:35	WG2267999

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0273	0.0606	1	04/17/2024 17:48	WG2268639

Metals (ICP) by Method 6010D

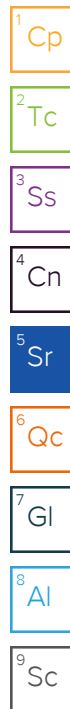
Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	4.36		0.784	3.03	1	04/16/2024 23:10	WG2268234
Barium	47.0		0.129	0.757	1	04/16/2024 23:10	WG2268234
Cadmium	U		0.0713	0.757	1	04/16/2024 23:10	WG2268234
Chromium	6.05		0.201	1.51	1	04/16/2024 23:10	WG2268234
Copper	5.21		0.606	3.03	1	04/16/2024 23:10	WG2268234
Lead	4.26		0.315	0.757	1	04/16/2024 23:10	WG2268234
Nickel	4.25		0.200	3.03	1	04/16/2024 23:10	WG2268234
Selenium	1.21	J	1.16	3.03	1	04/16/2024 23:10	WG2268234
Silver	U		0.192	1.51	1	04/16/2024 23:10	WG2268234
Zinc	30.7		1.26	7.57	1	04/16/2024 23:10	WG2268234

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	U		2.01	6.06	1	04/18/2024 21:32	WG2269461
Residual Range Organics (RRO)	U		5.04	15.1	1	04/18/2024 21:32	WG2269461
(S) o-Terphenyl	34.1			18.0-148		04/18/2024 21:32	WG2269461

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00348	0.00909	1	04/19/2024 13:39	WG2269760
Acenaphthene	U		0.00316	0.00909	1	04/19/2024 13:39	WG2269760
Acenaphthylene	U		0.00327	0.00909	1	04/19/2024 13:39	WG2269760
Benzo(a)anthracene	U		0.00262	0.00909	1	04/19/2024 13:39	WG2269760
Benzo(a)pyrene	U		0.00271	0.00909	1	04/19/2024 13:39	WG2269760
Benzo(b)fluoranthene	U		0.00232	0.00909	1	04/19/2024 13:39	WG2269760
Benzo(g,h,i)perylene	U		0.00268	0.00909	1	04/19/2024 13:39	WG2269760
Benzo(k)fluoranthene	U		0.00326	0.00909	1	04/19/2024 13:39	WG2269760
Chrysene	U		0.00351	0.00909	1	04/19/2024 13:39	WG2269760
Dibenz(a,h)anthracene	U		0.00260	0.00909	1	04/19/2024 13:39	WG2269760
Fluoranthene	U		0.00344	0.00909	1	04/19/2024 13:39	WG2269760
Fluorene	U		0.00310	0.00909	1	04/19/2024 13:39	WG2269760
Indeno(1,2,3-cd)pyrene	U		0.00274	0.00909	1	04/19/2024 13:39	WG2269760
Naphthalene	U		0.00618	0.0303	1	04/19/2024 13:39	WG2269760
Phenanthrene	U		0.00350	0.00909	1	04/19/2024 13:39	WG2269760
Pyrene	U		0.00303	0.00909	1	04/19/2024 13:39	WG2269760
1-Methylnaphthalene	U		0.00680	0.0303	1	04/19/2024 13:39	WG2269760
2-Methylnaphthalene	U		0.00647	0.0303	1	04/19/2024 13:39	WG2269760
2-Chloronaphthalene	U		0.00706	0.0303	1	04/19/2024 13:39	WG2269760
(S) p-Terphenyl-d14	69.8			23.0-120		04/19/2024 13:39	WG2269760
(S) Nitrobenzene-d5	54.3			14.0-149		04/19/2024 13:39	WG2269760
(S) 2-Fluorobiphenyl	53.5			34.0-125		04/19/2024 13:39	WG2269760



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.7		1	04/16/2024 13:25	WG2268002

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0308	J	0.0258	0.0574	1	04/17/2024 18:38	WG2268639

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	6.90		0.743	2.87	1	04/16/2024 23:42	WG2268234
Barium	73.5		0.122	0.718	1	04/16/2024 23:42	WG2268234
Cadmium	0.233	J	0.0676	0.718	1	04/16/2024 23:42	WG2268234
Chromium	42.4		0.191	1.44	1	04/16/2024 23:42	WG2268234
Copper	24.6		0.574	2.87	1	04/16/2024 23:42	WG2268234
Lead	21.6		0.299	0.718	1	04/16/2024 23:42	WG2268234
Nickel	8.15		0.189	2.87	1	04/16/2024 23:42	WG2268234
Selenium	1.72	J	1.10	2.87	1	04/16/2024 23:42	WG2268234
Silver	U		0.182	1.44	1	04/16/2024 23:42	WG2268234
Zinc	98.7		1.19	7.18	1	04/16/2024 23:42	WG2268234

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	25.8		1.91	5.74	1	04/19/2024 18:35	WG2270219
Residual Range Organics (RRO)	238		23.8	71.8	5	04/20/2024 11:43	WG2270219
(S) o-Terphenyl	38.3			18.0-148		04/19/2024 18:35	WG2270219
(S) o-Terphenyl	59.7			18.0-148		04/20/2024 11:43	WG2270219

Sample Narrative:

L1725561-22 WG2270219: Sample resembles laboratory standard for Hydraulic Oil.
L1725561-22 WG2270219: ample resembles laboratory standard for Hydraulic Oil.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00330	0.00861	1	04/19/2024 15:17	WG2269760
Acenaphthene	U		0.00300	0.00861	1	04/19/2024 15:17	WG2269760
Acenaphthylene	U		0.00310	0.00861	1	04/19/2024 15:17	WG2269760
Benzo(a)anthracene	0.00403	J	0.00248	0.00861	1	04/19/2024 15:17	WG2269760
Benzo(a)pyrene	0.00316	J	0.00257	0.00861	1	04/19/2024 15:17	WG2269760
Benzo(b)fluoranthene	0.00330	J	0.00220	0.00861	1	04/19/2024 15:17	WG2269760
Benzo(g,h,i)perylene	0.00314	J	0.00254	0.00861	1	04/19/2024 15:17	WG2269760
Benzo(k)fluoranthene	U		0.00309	0.00861	1	04/19/2024 15:17	WG2269760
Chrysene	U		0.00333	0.00861	1	04/19/2024 15:17	WG2269760
Dibenz(a,h)anthracene	U		0.00247	0.00861	1	04/19/2024 15:17	WG2269760
Fluoranthene	0.00673	J	0.00326	0.00861	1	04/19/2024 15:17	WG2269760
Fluorene	U		0.00294	0.00861	1	04/19/2024 15:17	WG2269760
Indeno(1,2,3-cd)pyrene	0.00284	J	0.00260	0.00861	1	04/19/2024 15:17	WG2269760
Naphthalene	U		0.00586	0.0287	1	04/19/2024 15:17	WG2269760
Phenanthrene	0.00419	J	0.00332	0.00861	1	04/19/2024 15:17	WG2269760
Pyrene	0.00563	J	0.00287	0.00861	1	04/19/2024 15:17	WG2269760
1-Methylnaphthalene	U		0.00644	0.0287	1	04/19/2024 15:17	WG2269760
2-Methylnaphthalene	U		0.00613	0.0287	1	04/19/2024 15:17	WG2269760

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Chloronaphthalene	U		0.00669	0.0287	1	04/19/2024 15:17	WG2269760
(S) p-Terphenyl-d14	62.1			23.0-120		04/19/2024 15:17	WG2269760
(S) Nitrobenzene-d5	43.1			14.0-149		04/19/2024 15:17	WG2269760
(S) 2-Fluorobiphenyl	39.2			34.0-125		04/19/2024 15:17	WG2269760

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	68.5		1	04/16/2024 13:25	WG2268002

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	14.7		1.94	5.84	1	04/19/2024 17:21	WG2270219
Residual Range Organics (RRO)	110		4.86	14.6	1	04/19/2024 17:21	WG2270219
(S) o-Terphenyl	44.7			18.0-148		04/19/2024 17:21	WG2270219

Sample Narrative:
L1725561-23 WG2270219: Sample resembles laboratory standard for Hydraulic Oil.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	65.9		1	04/16/2024 13:25	WG2268002

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	2.47	J	2.02	6.07	1	04/20/2024 10:37	WG2270219
Residual Range Organics (RRO)	17.8		5.06	15.2	1	04/20/2024 10:37	WG2270219
(S) o-Terphenyl	71.8			18.0-148		04/20/2024 10:37	WG2270219

Sample Narrative:

L1725561-24 WG2270219: Sample resembles laboratory standard for Hydraulic Oil.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	66.6		1	04/16/2024 13:25	WG2268002

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0270	0.0600	1	04/17/2024 18:40	WG2268639

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	8.30		0.778	3.00	1	04/16/2024 23:45	WG2268234
Barium	79.5		0.128	0.751	1	04/16/2024 23:45	WG2268234
Cadmium	0.229	J	0.0707	0.751	1	04/16/2024 23:45	WG2268234
Chromium	11.7		0.200	1.50	1	04/16/2024 23:45	WG2268234
Copper	22.4		0.600	3.00	1	04/16/2024 23:45	WG2268234
Lead	34.3		0.312	0.751	1	04/16/2024 23:45	WG2268234
Nickel	8.78		0.198	3.00	1	04/16/2024 23:45	WG2268234
Selenium	1.94	J	1.15	3.00	1	04/16/2024 23:45	WG2268234
Silver	U		0.191	1.50	1	04/16/2024 23:45	WG2268234
Zinc	97.2		1.25	7.51	1	04/16/2024 23:45	WG2268234

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	6.75		2.00	6.00	1	04/19/2024 17:58	WG2270219
Residual Range Organics (RRO)	28.1		5.00	15.0	1	04/19/2024 17:58	WG2270219
(S) o-Terphenyl	39.7			18.0-148		04/19/2024 17:58	WG2270219

Sample Narrative:

L1725561-40 WG2270219: Sample resembles laboratory standard for Hydraulic Oil.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00345	0.00901	1	04/20/2024 01:07	WG2269839
Acenaphthene	U		0.00314	0.00901	1	04/20/2024 01:07	WG2269839
Acenaphthylene	U		0.00324	0.00901	1	04/20/2024 01:07	WG2269839
Benzo(a)anthracene	U		0.00260	0.00901	1	04/20/2024 01:07	WG2269839
Benzo(a)pyrene	U		0.00269	0.00901	1	04/20/2024 01:07	WG2269839
Benzo(b)fluoranthene	U		0.00230	0.00901	1	04/20/2024 01:07	WG2269839
Benzo(g,h,i)perylene	U		0.00266	0.00901	1	04/20/2024 01:07	WG2269839
Benzo(k)fluoranthene	U		0.00323	0.00901	1	04/20/2024 01:07	WG2269839
Chrysene	U		0.00348	0.00901	1	04/20/2024 01:07	WG2269839
Dibenz(a,h)anthracene	U		0.00258	0.00901	1	04/20/2024 01:07	WG2269839
Fluoranthene	U		0.00341	0.00901	1	04/20/2024 01:07	WG2269839
Fluorene	U		0.00308	0.00901	1	04/20/2024 01:07	WG2269839
Indeno(1,2,3-cd)pyrene	U		0.00272	0.00901	1	04/20/2024 01:07	WG2269839
Naphthalene	U		0.00612	0.0300	1	04/20/2024 01:07	WG2269839
Phenanthrene	U		0.00347	0.00901	1	04/20/2024 01:07	WG2269839
Pyrene	U		0.00300	0.00901	1	04/20/2024 01:07	WG2269839
1-Methylnaphthalene	U		0.00674	0.0300	1	04/20/2024 01:07	WG2269839
2-Methylnaphthalene	U		0.00641	0.0300	1	04/20/2024 01:07	WG2269839
2-Chloronaphthalene	U		0.00699	0.0300	1	04/20/2024 01:07	WG2269839
(S) p-Terphenyl-d14	63.5			23.0-120		04/20/2024 01:07	WG2269839

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	61.3			14.0-149		04/20/2024 01:07	WG2269839
(S) 2-Fluorobiphenyl	54.0			34.0-125		04/20/2024 01:07	WG2269839

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	76.2		1	04/16/2024 13:25	WG2268002

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.74	5.25	1	04/19/2024 16:56	WG2270219
Residual Range Organics (RRO)	4.85	J	4.37	13.1	1	04/19/2024 16:56	WG2270219
(S) o-Terphenyl	62.5			18.0-148		04/19/2024 16:56	WG2270219

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	78.8		1	04/16/2024 13:25	WG2268002

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.69	5.08	1	04/19/2024 16:44	WG2270219
Residual Range Organics (RRO)	U		4.23	12.7	1	04/19/2024 16:44	WG2270219
(S) o-Terphenyl	65.0			18.0-148		04/19/2024 16:44	WG2270219

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	65.4		1	04/16/2024 13:14	WG2268006

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	141		2.03	6.12	1	04/19/2024 16:32	WG2270219
Residual Range Organics (RRO)	5.41	J	5.09	15.3	1	04/19/2024 16:32	WG2270219
(S) o-Terphenyl	76.6			18.0-148		04/19/2024 16:32	WG2270219

Sample Narrative:

L1725561-53 WG2270219: Sample resembles laboratory standard for Diesel.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00352	0.00917	1	04/20/2024 01:25	WG2269839
Acenaphthene	U		0.00320	0.00917	1	04/20/2024 01:25	WG2269839
Acenaphthylene	U		0.00330	0.00917	1	04/20/2024 01:25	WG2269839
Benzo(a)anthracene	U		0.00265	0.00917	1	04/20/2024 01:25	WG2269839
Benzo(a)pyrene	U		0.00274	0.00917	1	04/20/2024 01:25	WG2269839
Benzo(b)fluoranthene	U		0.00234	0.00917	1	04/20/2024 01:25	WG2269839
Benzo(g,h,i)perylene	U		0.00271	0.00917	1	04/20/2024 01:25	WG2269839
Benzo(k)fluoranthene	U		0.00329	0.00917	1	04/20/2024 01:25	WG2269839
Chrysene	U		0.00355	0.00917	1	04/20/2024 01:25	WG2269839
Dibenz(a,h)anthracene	U		0.00263	0.00917	1	04/20/2024 01:25	WG2269839
Fluoranthene	U		0.00347	0.00917	1	04/20/2024 01:25	WG2269839
Fluorene	0.0154		0.00313	0.00917	1	04/20/2024 01:25	WG2269839
Indeno(1,2,3-cd)pyrene	U		0.00277	0.00917	1	04/20/2024 01:25	WG2269839
Naphthalene	U		0.00624	0.0306	1	04/20/2024 01:25	WG2269839
Phenanthrene	0.0287		0.00353	0.00917	1	04/20/2024 01:25	WG2269839
Pyrene	U		0.00306	0.00917	1	04/20/2024 01:25	WG2269839
1-Methylnaphthalene	U		0.00687	0.0306	1	04/20/2024 01:25	WG2269839
2-Methylnaphthalene	U		0.00653	0.0306	1	04/20/2024 01:25	WG2269839
2-Chloronaphthalene	U		0.00713	0.0306	1	04/20/2024 01:25	WG2269839
(S) p-Terphenyl-d14	64.8			23.0-120		04/20/2024 01:25	WG2269839
(S) Nitrobenzene-d5	80.3			14.0-149		04/20/2024 01:25	WG2269839
(S) 2-Fluorobiphenyl	68.7			34.0-125		04/20/2024 01:25	WG2269839

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.0		1	04/16/2024 13:14	WG2268006

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0309	J	0.0234	0.0520	1	04/17/2024 18:43	WG2268639

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	9.24		0.673	2.60	1	04/16/2024 23:49	WG2268234
Barium	93.8		0.111	0.650	1	04/16/2024 23:49	WG2268234
Cadmium	1.95		0.0612	0.650	1	04/16/2024 23:49	WG2268234
Chromium	74.3		0.173	1.30	1	04/16/2024 23:49	WG2268234
Copper	198		0.520	2.60	1	04/16/2024 23:49	WG2268234
Lead	215		0.270	0.650	1	04/16/2024 23:49	WG2268234
Nickel	30.6		0.171	2.60	1	04/16/2024 23:49	WG2268234
Selenium	2.47	J	0.992	2.60	1	04/16/2024 23:49	WG2268234
Silver	0.268	J	0.165	1.30	1	04/16/2024 23:49	WG2268234
Zinc	489		1.08	6.50	1	04/16/2024 23:49	WG2268234

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	382		1.73	5.20	1	04/19/2024 18:23	WG2270219
Residual Range Organics (RRO)	120		4.33	13.0	1	04/19/2024 18:23	WG2270219
(S) o-Terphenyl	53.6			18.0-148		04/19/2024 18:23	WG2270219

Sample Narrative:

L1725561-58 WG2270219: Sample resembles laboratory standards for Diesel and Hydraulic oil.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00299	0.00779	1	04/20/2024 01:43	WG2269839
Acenaphthene	U		0.00272	0.00779	1	04/20/2024 01:43	WG2269839
Acenaphthylene	U		0.00281	0.00779	1	04/20/2024 01:43	WG2269839
Benzo(a)anthracene	U		0.00225	0.00779	1	04/20/2024 01:43	WG2269839
Benzo(a)pyrene	U		0.00233	0.00779	1	04/20/2024 01:43	WG2269839
Benzo(b)fluoranthene	0.00262	J	0.00199	0.00779	1	04/20/2024 01:43	WG2269839
Benzo(g,h,i)perylene	U		0.00230	0.00779	1	04/20/2024 01:43	WG2269839
Benzo(k)fluoranthene	U		0.00279	0.00779	1	04/20/2024 01:43	WG2269839
Chrysene	U		0.00301	0.00779	1	04/20/2024 01:43	WG2269839
Dibenz(a,h)anthracene	U		0.00223	0.00779	1	04/20/2024 01:43	WG2269839
Fluoranthene	U		0.00295	0.00779	1	04/20/2024 01:43	WG2269839
Fluorene	U		0.00266	0.00779	1	04/20/2024 01:43	WG2269839
Indeno(1,2,3-cd)pyrene	U		0.00235	0.00779	1	04/20/2024 01:43	WG2269839
Naphthalene	U		0.00530	0.0260	1	04/20/2024 01:43	WG2269839
Phenanthrene	0.0174		0.00300	0.00779	1	04/20/2024 01:43	WG2269839
Pyrene	0.00590	J	0.00260	0.00779	1	04/20/2024 01:43	WG2269839
1-Methylnaphthalene	U		0.00583	0.0260	1	04/20/2024 01:43	WG2269839
2-Methylnaphthalene	U		0.00555	0.0260	1	04/20/2024 01:43	WG2269839
2-Chloronaphthalene	U		0.00605	0.0260	1	04/20/2024 01:43	WG2269839
(S) p-Terphenyl-d14	73.6			23.0-120		04/20/2024 01:43	WG2269839

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	76.9			14.0-149		04/20/2024 01:43	WG2269839
(S) 2-Fluorobiphenyl	58.0			34.0-125		04/20/2024 01:43	WG2269839

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	75.7		1	04/16/2024 13:14	WG2268006

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	5.26	J	1.76	5.29	1	04/19/2024 17:09	WG2270219
Residual Range Organics (RRO)	14.5		4.40	13.2	1	04/19/2024 17:09	WG2270219
(S) o-Terphenyl	45.8			18.0-148		04/19/2024 17:09	WG2270219

Sample Narrative:
L1725561-59 WG2270219: Sample resembles laboratory standard for Hydraulic Oil.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	70.0		1	04/16/2024 13:14	WG2268006

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	5.32	J	1.90	5.72	1	04/19/2024 17:58	WG2270219
Residual Range Organics (RRO)	35.4		4.76	14.3	1	04/19/2024 17:58	WG2270219
(S) o-Terphenyl	47.7			18.0-148		04/19/2024 17:58	WG2270219

Sample Narrative:
L1725561-60 WG2270219: Sample resembles laboratory standard for Hydraulic Oil.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	72.6		1	04/16/2024 13:14	WG2268006

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0381	J	0.0248	0.0551	1	04/17/2024 17:31	WG2268639

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	7.81		0.714	2.76	1	04/16/2024 22:52	WG2268234
Barium	79.4		0.117	0.689	1	04/16/2024 22:52	WG2268234
Cadmium	0.565	J	0.0649	0.689	1	04/16/2024 22:52	WG2268234
Chromium	225	J3 J5	0.183	1.38	1	04/16/2024 22:52	WG2268234
Copper	31.4		0.551	2.76	1	04/16/2024 22:52	WG2268234
Lead	27.6		0.287	0.689	1	04/16/2024 22:52	WG2268234
Nickel	9.59		0.182	2.76	1	04/16/2024 22:52	WG2268234
Selenium	2.68	J	1.05	2.76	1	04/16/2024 22:52	WG2268234
Silver	0.274	J	0.175	1.38	1	04/16/2024 22:52	WG2268234
Zinc	125		1.15	6.89	1	04/16/2024 22:52	WG2268234

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	5.97		1.83	5.51	1	04/19/2024 18:03	WG2270232
Residual Range Organics (RRO)	27.8		4.59	13.8	1	04/19/2024 18:03	WG2270232
(S) o-Terphenyl	50.2			18.0-148		04/19/2024 18:03	WG2270232

Sample Narrative:

L1725561-76 WG2270232: Sample resembles laboratory standard for Hydraulic Oil.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00317	0.00827	1	04/20/2024 02:01	WG2269839
Acenaphthene	U		0.00288	0.00827	1	04/20/2024 02:01	WG2269839
Acenaphthylene	U		0.00298	0.00827	1	04/20/2024 02:01	WG2269839
Benzo(a)anthracene	U		0.00238	0.00827	1	04/20/2024 02:01	WG2269839
Benzo(a)pyrene	U		0.00247	0.00827	1	04/20/2024 02:01	WG2269839
Benzo(b)fluoranthene	U		0.00211	0.00827	1	04/20/2024 02:01	WG2269839
Benzo(g,h,i)perylene	U		0.00244	0.00827	1	04/20/2024 02:01	WG2269839
Benzo(k)fluoranthene	U		0.00296	0.00827	1	04/20/2024 02:01	WG2269839
Chrysene	U		0.00320	0.00827	1	04/20/2024 02:01	WG2269839
Dibenz(a,h)anthracene	U		0.00237	0.00827	1	04/20/2024 02:01	WG2269839
Fluoranthene	U		0.00313	0.00827	1	04/20/2024 02:01	WG2269839
Fluorene	U		0.00282	0.00827	1	04/20/2024 02:01	WG2269839
Indeno(1,2,3-cd)pyrene	U		0.00249	0.00827	1	04/20/2024 02:01	WG2269839
Naphthalene	U		0.00562	0.0276	1	04/20/2024 02:01	WG2269839
Phenanthrene	U		0.00318	0.00827	1	04/20/2024 02:01	WG2269839
Pyrene	U		0.00276	0.00827	1	04/20/2024 02:01	WG2269839
1-Methylnaphthalene	U		0.00619	0.0276	1	04/20/2024 02:01	WG2269839
2-Methylnaphthalene	U		0.00588	0.0276	1	04/20/2024 02:01	WG2269839
2-Chloronaphthalene	U		0.00642	0.0276	1	04/20/2024 02:01	WG2269839
(S) p-Terphenyl-d14	64.6			23.0-120		04/20/2024 02:01	WG2269839

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	51.9			14.0-149		04/20/2024 02:01	WG2269839
(S) 2-Fluorobiphenyl	44.8			34.0-125		04/20/2024 02:01	WG2269839

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	73.4		1	04/16/2024 13:14	WG2268006

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.81	5.45	1	04/19/2024 17:21	WG2270232
Residual Range Organics (RRO)	6.01	J	4.54	13.6	1	04/19/2024 17:21	WG2270232
(S) o-Terphenyl	60.4			18.0-148		04/19/2024 17:21	WG2270232

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	74.3		1	04/16/2024 13:14	WG2268006

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	2.49	<u>J</u>	1.79	5.38	1	04/19/2024 17:07	WG2270232
Residual Range Organics (RRO)	8.05	<u>J</u>	4.48	13.5	1	04/19/2024 17:07	WG2270232
(S) o-Terphenyl	58.1			18.0-148		04/19/2024 17:07	WG2270232

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	67.0		1	04/16/2024 13:14	WG2268006

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	357		39.7	119	20	04/20/2024 11:03	WG2270232
Residual Range Organics (RRO)	500		99.4	298	20	04/20/2024 11:03	WG2270232
(S) o-Terphenyl	61.1	J7		18.0-148		04/20/2024 11:03	WG2270232

Sample Narrative:

L1725561-89 WG2270232: Sample resembles laboratory standard for Motor Oil and Kerosene.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00343	0.00895	1	04/20/2024 02:19	WG2269839
Acenaphthene	U		0.00312	0.00895	1	04/20/2024 02:19	WG2269839
Acenaphthylene	U		0.00322	0.00895	1	04/20/2024 02:19	WG2269839
Benzo(a)anthracene	0.00664	J	0.00258	0.00895	1	04/20/2024 02:19	WG2269839
Benzo(a)pyrene	0.00542	J	0.00267	0.00895	1	04/20/2024 02:19	WG2269839
Benzo(b)fluoranthene	0.00610	J	0.00228	0.00895	1	04/20/2024 02:19	WG2269839
Benzo(g,h,i)perylene	U		0.00264	0.00895	1	04/20/2024 02:19	WG2269839
Benzo(k)fluoranthene	U		0.00321	0.00895	1	04/20/2024 02:19	WG2269839
Chrysene	0.00491	J	0.00346	0.00895	1	04/20/2024 02:19	WG2269839
Dibenz(a,h)anthracene	U		0.00257	0.00895	1	04/20/2024 02:19	WG2269839
Fluoranthene	0.0160		0.00339	0.00895	1	04/20/2024 02:19	WG2269839
Fluorene	0.0531		0.00306	0.00895	1	04/20/2024 02:19	WG2269839
Indeno(1,2,3-cd)pyrene	0.00312	J	0.00270	0.00895	1	04/20/2024 02:19	WG2269839
Naphthalene	0.875		0.00609	0.0298	1	04/20/2024 02:19	WG2269839
Phenanthrene	0.0584		0.00345	0.00895	1	04/20/2024 02:19	WG2269839
Pyrene	0.0201		0.00298	0.00895	1	04/20/2024 02:19	WG2269839
1-Methylnaphthalene	0.746		0.00670	0.0298	1	04/20/2024 02:19	WG2269839
2-Methylnaphthalene	1.09		0.00637	0.0298	1	04/20/2024 02:19	WG2269839
2-Chloronaphthalene	U		0.00695	0.0298	1	04/20/2024 02:19	WG2269839
(S) p-Terphenyl-d14	62.9			23.0-120		04/20/2024 02:19	WG2269839
(S) Nitrobenzene-d5	143			14.0-149		04/20/2024 02:19	WG2269839
(S) 2-Fluorobiphenyl	53.8			34.0-125		04/20/2024 02:19	WG2269839

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	69.1		1	04/16/2024 13:14	WG2268006

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0391	J	0.0261	0.0579	1	04/17/2024 16:33	WG2268623

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.75		0.750	2.90	1	04/17/2024 21:57	WG2268821
Barium	128		0.123	0.724	1	04/17/2024 21:57	WG2268821
Cadmium	1.74		0.0682	0.724	1	04/17/2024 21:57	WG2268821
Chromium	445		0.193	1.45	1	04/17/2024 21:57	WG2268821
Copper	129		0.579	2.90	1	04/17/2024 21:57	WG2268821
Lead	115		0.301	0.724	1	04/17/2024 21:57	WG2268821
Nickel	32.0		0.191	2.90	1	04/17/2024 21:57	WG2268821
Selenium	10.5		1.11	2.90	1	04/17/2024 21:57	WG2268821
Silver	52.1		0.184	1.45	1	04/17/2024 21:57	WG2268821
Zinc	363		1.20	7.24	1	04/17/2024 21:57	WG2268821

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	55.0		3.85	11.6	2	04/19/2024 18:31	WG2270232
Residual Range Organics (RRO)	374		9.64	29.0	2	04/19/2024 18:31	WG2270232
(S) o-Terphenyl	56.8			18.0-148		04/19/2024 18:31	WG2270232

Sample Narrative:

L1725561-94 WG2270232: Sample resembles laboratory standard for Hydraulic Oil.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00333	0.00869	1	04/20/2024 04:42	WG2270229
Acenaphthene	U		0.00303	0.00869	1	04/20/2024 04:42	WG2270229
Acenaphthylene	U		0.00313	0.00869	1	04/20/2024 04:42	WG2270229
Benzo(a)anthracene	0.00459	J	0.00250	0.00869	1	04/20/2024 04:42	WG2270229
Benzo(a)pyrene	0.00323	J	0.00259	0.00869	1	04/20/2024 04:42	WG2270229
Benzo(b)fluoranthene	0.00398	J	0.00222	0.00869	1	04/20/2024 04:42	WG2270229
Benzo(g,h,i)perylene	U		0.00256	0.00869	1	04/20/2024 04:42	WG2270229
Benzo(k)fluoranthene	U		0.00311	0.00869	1	04/20/2024 04:42	WG2270229
Chrysene	0.00385	J	0.00336	0.00869	1	04/20/2024 04:42	WG2270229
Dibenz(a,h)anthracene	U		0.00249	0.00869	1	04/20/2024 04:42	WG2270229
Fluoranthene	0.00657	J	0.00329	0.00869	1	04/20/2024 04:42	WG2270229
Fluorene	U		0.00297	0.00869	1	04/20/2024 04:42	WG2270229
Indeno(1,2,3-cd)pyrene	U		0.00262	0.00869	1	04/20/2024 04:42	WG2270229
Naphthalene	0.0279	J	0.00591	0.0290	1	04/20/2024 04:42	WG2270229
Phenanthrene	0.00387	J	0.00334	0.00869	1	04/20/2024 04:42	WG2270229
Pyrene	0.0117		0.00290	0.00869	1	04/20/2024 04:42	WG2270229
1-Methylnaphthalene	0.00995	J	0.00650	0.0290	1	04/20/2024 04:42	WG2270229
2-Methylnaphthalene	0.0185	J	0.00618	0.0290	1	04/20/2024 04:42	WG2270229
2-Chloronaphthalene	U		0.00675	0.0290	1	04/20/2024 04:42	WG2270229
(S) p-Terphenyl-d14	48.7			23.0-120		04/20/2024 04:42	WG2270229

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	56.8			14.0-149		04/20/2024 04:42	WG2270229
(S) 2-Fluorobiphenyl	38.5			34.0-125		04/20/2024 04:42	WG2270229

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.7		1	04/16/2024 13:14	WG2268006

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	74.9		15.9	47.8	10	04/20/2024 12:44	WG2270232
Residual Range Organics (RRO)	274		39.8	120	10	04/20/2024 12:44	WG2270232
(S) o-Terphenyl	48.9			18.0-148		04/20/2024 12:44	WG2270232

Sample Narrative:

L1725561-95 WG2270232: Sample resembles laboratory standard for Motor Oil and Kerosene.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	65.7		1	04/16/2024 13:00	WG2268008

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	426		10.1	30.5	5	04/19/2024 22:14	WG2270232
Residual Range Organics (RRO)	649		25.3	76.2	5	04/19/2024 22:14	WG2270232
(S) o-Terphenyl	62.9			18.0-148		04/19/2024 22:14	WG2270232

Sample Narrative:

L1725561-96 WG2270232: Sample resembles laboratory standard for Hydraulic Fluid.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.4		1	04/16/2024 13:35	WG2267999

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	326		38.1	114	25	04/19/2024 00:09	WG2269461
Residual Range Organics (RRO)	1210		95.4	286	25	04/19/2024 00:09	WG2269461
(S) o-Terphenyl	22.6	J7		18.0-148		04/19/2024 00:09	WG2269461

Sample Narrative:

L1725561-101 WG2269461: Sample resembles laboratory standard for Mineral Spirits and Motor Oil.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	0.0330		0.00263	0.00687	1	04/21/2024 04:55	WG2269760
Acenaphthene	0.0714		0.00239	0.00687	1	04/21/2024 04:55	WG2269760
Acenaphthylene	U		0.00247	0.00687	1	04/21/2024 04:55	WG2269760
Benzo(a)anthracene	0.125		0.00198	0.00687	1	04/21/2024 04:55	WG2269760
Benzo(a)pyrene	0.133		0.00205	0.00687	1	04/21/2024 04:55	WG2269760
Benzo(b)fluoranthene	0.122		0.00175	0.00687	1	04/21/2024 04:55	WG2269760
Benzo(g,h,i)perylene	0.0812		0.00203	0.00687	1	04/21/2024 04:55	WG2269760
Benzo(k)fluoranthene	0.0432		0.00246	0.00687	1	04/21/2024 04:55	WG2269760
Chrysene	0.151		0.00266	0.00687	1	04/21/2024 04:55	WG2269760
Dibenz(a,h)anthracene	0.0157		0.00197	0.00687	1	04/21/2024 04:55	WG2269760
Fluoranthene	0.321		0.00260	0.00687	1	04/21/2024 04:55	WG2269760
Fluorene	0.0943		0.00235	0.00687	1	04/21/2024 04:55	WG2269760
Indeno(1,2,3-cd)pyrene	0.0500		0.00207	0.00687	1	04/21/2024 04:55	WG2269760
Naphthalene	13.7		0.0467	0.229	10	04/21/2024 05:15	WG2269760
Phenanthrene	0.350		0.00264	0.00687	1	04/21/2024 04:55	WG2269760
Pyrene	0.411		0.00229	0.00687	1	04/21/2024 04:55	WG2269760
1-Methylnaphthalene	8.70		0.0514	0.229	10	04/21/2024 05:15	WG2269760
2-Methylnaphthalene	17.5		0.0489	0.229	10	04/21/2024 05:15	WG2269760
2-Chloronaphthalene	U		0.00533	0.0229	1	04/21/2024 04:55	WG2269760
(S) p-Terphenyl-d14	58.3			23.0-120		04/21/2024 04:55	WG2269760
(S) p-Terphenyl-d14	55.9			23.0-120		04/21/2024 05:15	WG2269760
(S) Nitrobenzene-d5	0.000	J2		14.0-149		04/21/2024 04:55	WG2269760
(S) Nitrobenzene-d5	0.000	J2		14.0-149		04/21/2024 05:15	WG2269760
(S) 2-Fluorobiphenyl	57.5			34.0-125		04/21/2024 04:55	WG2269760
(S) 2-Fluorobiphenyl	65.7			34.0-125		04/21/2024 05:15	WG2269760

Sample Narrative:

L1725561-101 WG2269760: Surrogate failure due to matrix interference.

L1725561-101 WG2269760: Dilution and surrogate failure due to matrix interference.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.0		1	04/16/2024 13:35	WG2267999

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	15900		853	2560	500	04/19/2024 01:15	WG2269461
Residual Range Organics (RRO)	27100		2130	6410	500	04/19/2024 01:15	WG2269461
(S) o-Terphenyl	0.000	J7		18.0-148		04/19/2024 01:15	WG2269461

Sample Narrative:

L1725561-110 WG2269461: Sample resembles laboratory standard for Hydraulic Fluid.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	0.848		0.0295	0.0769	10	04/21/2024 05:34	WG2269760
Acenaphthene	0.356		0.0268	0.0769	10	04/21/2024 05:34	WG2269760
Acenaphthylene	0.308		0.0277	0.0769	10	04/21/2024 05:34	WG2269760
Benzo(a)anthracene	0.957		0.0222	0.0769	10	04/21/2024 05:34	WG2269760
Benzo(a)pyrene	0.786		0.0459	0.154	20	04/24/2024 10:07	WG2269760
Benzo(b)fluoranthene	0.934		0.0392	0.154	20	04/24/2024 10:07	WG2269760
Benzo(g,h,i)perylene	0.685		0.0454	0.154	20	04/24/2024 10:07	WG2269760
Benzo(k)fluoranthene	0.327		0.0551	0.154	20	04/24/2024 10:07	WG2269760
Chrysene	0.775		0.0298	0.0769	10	04/21/2024 05:34	WG2269760
Dibenz(a,h)anthracene	0.127	J	0.0441	0.154	20	04/24/2024 10:07	WG2269760
Fluoranthene	2.41		0.0291	0.0769	10	04/21/2024 05:34	WG2269760
Fluorene	0.550		0.0263	0.0769	10	04/21/2024 05:34	WG2269760
Indeno(1,2,3-cd)pyrene	0.636		0.0464	0.154	20	04/24/2024 10:07	WG2269760
Naphthalene	2.10		0.0523	0.256	10	04/21/2024 05:34	WG2269760
Phenanthrene	2.80		0.0296	0.0769	10	04/21/2024 05:34	WG2269760
Pyrene	4.12		0.0256	0.0769	10	04/21/2024 05:34	WG2269760
1-Methylnaphthalene	1.16		0.0576	0.256	10	04/21/2024 05:34	WG2269760
2-Methylnaphthalene	3.40		0.0548	0.256	10	04/21/2024 05:34	WG2269760
2-Chloronaphthalene	U		0.0598	0.256	10	04/21/2024 05:34	WG2269760
(S) p-Terphenyl-d14	0.000	J2		23.0-120		04/21/2024 05:34	WG2269760
(S) p-Terphenyl-d14	0.000	J7		23.0-120		04/24/2024 10:07	WG2269760
(S) Nitrobenzene-d5	0.000	J2		14.0-149		04/21/2024 05:34	WG2269760
(S) Nitrobenzene-d5	0.000	J7		14.0-149		04/24/2024 10:07	WG2269760
(S) 2-Fluorobiphenyl	47.3			34.0-125		04/21/2024 05:34	WG2269760
(S) 2-Fluorobiphenyl	44.8	J7		34.0-125		04/24/2024 10:07	WG2269760

Sample Narrative:

L1725561-110 WG2269760: Dilution and surrogate failure due to matrix interference.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	79.0		1	04/16/2024 13:35	WG2267999

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.373		0.0228	0.0507	1	04/17/2024 16:24	WG2268623

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	4.77		0.656	2.53	1	04/17/2024 21:54	WG2268821
Barium	130		0.108	0.633	1	04/17/2024 21:54	WG2268821
Cadmium	3.30		0.0597	0.633	1	04/17/2024 21:54	WG2268821
Chromium	103		0.168	1.27	1	04/17/2024 21:54	WG2268821
Copper	174		0.507	2.53	1	04/17/2024 21:54	WG2268821
Lead	342		0.263	0.633	1	04/17/2024 21:54	WG2268821
Nickel	53.4		0.167	2.53	1	04/17/2024 21:54	WG2268821
Selenium	9.20		0.968	2.53	1	04/17/2024 21:54	WG2268821
Silver	40.9		0.161	1.27	1	04/17/2024 21:54	WG2268821
Zinc	986		1.05	6.33	1	04/17/2024 21:54	WG2268821

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	231		16.8	50.7	10	04/19/2024 12:00	WG2269461
Residual Range Organics (RRO)	1120		42.2	127	10	04/19/2024 12:00	WG2269461
(S) o-Terphenyl	60.0			18.0-148		04/19/2024 12:00	WG2269461

Sample Narrative:

L1725561-112 WG2269461: Sample resembles laboratory standard for Motor Oil.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	0.0704		0.00291	0.00760	1	04/19/2024 16:35	WG2269760
Acenaphthene	0.0143		0.00265	0.00760	1	04/19/2024 16:35	WG2269760
Acenaphthylene	0.00477	J	0.00274	0.00760	1	04/19/2024 16:35	WG2269760
Benzo(a)anthracene	0.336		0.00219	0.00760	1	04/19/2024 16:35	WG2269760
Benzo(a)pyrene	0.184		0.00227	0.00760	1	04/19/2024 16:35	WG2269760
Benzo(b)fluoranthene	0.212		0.00194	0.00760	1	04/19/2024 16:35	WG2269760
Benzo(g,h,i)perylene	0.123		0.00224	0.00760	1	04/19/2024 16:35	WG2269760
Benzo(k)fluoranthene	0.0812		0.00272	0.00760	1	04/19/2024 16:35	WG2269760
Chrysene	0.375		0.00294	0.00760	1	04/19/2024 16:35	WG2269760
Dibenz(a,h)anthracene	0.0250		0.00218	0.00760	1	04/19/2024 16:35	WG2269760
Fluoranthene	0.798		0.00288	0.00760	1	04/19/2024 16:35	WG2269760
Fluorene	0.0160		0.00260	0.00760	1	04/19/2024 16:35	WG2269760
Indeno(1,2,3-cd)pyrene	0.121		0.00229	0.00760	1	04/19/2024 16:35	WG2269760
Naphthalene	0.0727		0.00517	0.0253	1	04/19/2024 16:35	WG2269760
Phenanthrene	0.305		0.00293	0.00760	1	04/19/2024 16:35	WG2269760
Pyrene	0.655		0.00253	0.00760	1	04/19/2024 16:35	WG2269760
1-Methylnaphthalene	0.0461		0.00569	0.0253	1	04/19/2024 16:35	WG2269760
2-Methylnaphthalene	0.107		0.00541	0.0253	1	04/19/2024 16:35	WG2269760
2-Chloronaphthalene	U		0.00590	0.0253	1	04/19/2024 16:35	WG2269760
(S) p-Terphenyl-d14	60.1			23.0-120		04/19/2024 16:35	WG2269760

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	87.1			14.0-149		04/19/2024 16:35	WG2269760
(S) 2-Fluorobiphenyl	54.1			34.0-125		04/19/2024 16:35	WG2269760

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	74.2		1	04/16/2024 13:35	WG2267999

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	18.1		1.79	5.39	1	04/18/2024 22:25	WG2269461
Residual Range Organics (RRO)	35.2		4.49	13.5	1	04/18/2024 22:25	WG2269461
(S) o-Terphenyl	42.5			18.0-148		04/18/2024 22:25	WG2269461

Sample Narrative:
L1725561-113 WG2269461: Sample resembles laboratory standard for Motor Oil.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	72.0		1	04/16/2024 13:25	WG2268002

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	435		18.5	55.6	10	04/18/2024 23:43	WG2269461
Residual Range Organics (RRO)	1060		46.3	139	10	04/18/2024 23:43	WG2269461
(S) o-Terphenyl	44.3			18.0-148		04/18/2024 23:43	WG2269461

Sample Narrative:

L1725561-114 WG2269461: Sample resembles laboratory standard for Mineral Spirits and Motor Oil.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.6		1	04/16/2024 13:25	WG2268002

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0583		0.0226	0.0503	1	04/17/2024 16:31	WG2268623

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.43		0.651	2.51	1	04/17/2024 21:55	WG2268821
Barium	114		0.107	0.628	1	04/17/2024 21:55	WG2268821
Cadmium	0.737		0.0592	0.628	1	04/17/2024 21:55	WG2268821
Chromium	9.69		0.167	1.26	1	04/17/2024 21:55	WG2268821
Copper	32.1		0.503	2.51	1	04/17/2024 21:55	WG2268821
Lead	71.6		0.261	0.628	1	04/17/2024 21:55	WG2268821
Nickel	8.84		0.166	2.51	1	04/17/2024 21:55	WG2268821
Selenium	6.91		0.960	2.51	1	04/17/2024 21:55	WG2268821
Silver	30.0		0.160	1.26	1	04/17/2024 21:55	WG2268821
Zinc	228		1.05	6.28	1	04/17/2024 21:55	WG2268821

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	182		1.67	5.03	1	04/18/2024 23:04	WG2269461
Residual Range Organics (RRO)	345		20.9	62.8	5	04/19/2024 11:46	WG2269461
(S) o-Terphenyl	42.4			18.0-148		04/18/2024 23:04	WG2269461
(S) o-Terphenyl	47.1			18.0-148		04/19/2024 11:46	WG2269461

Sample Narrative:

L1725561-130 WG2269461: Sample resembles laboratory standard for Hydraulic Fluid.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00289	0.00754	1	04/19/2024 15:56	WG2269760
Acenaphthene	U		0.00263	0.00754	1	04/19/2024 15:56	WG2269760
Acenaphthylene	U		0.00271	0.00754	1	04/19/2024 15:56	WG2269760
Benzo(a)anthracene	0.00587	J	0.00217	0.00754	1	04/19/2024 15:56	WG2269760
Benzo(a)pyrene	0.00593	J	0.00225	0.00754	1	04/19/2024 15:56	WG2269760
Benzo(b)fluoranthene	0.00489	J	0.00192	0.00754	1	04/19/2024 15:56	WG2269760
Benzo(g,h,i)perylene	0.00869		0.00222	0.00754	1	04/19/2024 15:56	WG2269760
Benzo(k)fluoranthene	U		0.00270	0.00754	1	04/19/2024 15:56	WG2269760
Chrysene	0.00452	J	0.00291	0.00754	1	04/19/2024 15:56	WG2269760
Dibenz(a,h)anthracene	U		0.00216	0.00754	1	04/19/2024 15:56	WG2269760
Fluoranthene	0.0127		0.00285	0.00754	1	04/19/2024 15:56	WG2269760
Fluorene	U		0.00258	0.00754	1	04/19/2024 15:56	WG2269760
Indeno(1,2,3-cd)pyrene	0.00327	J	0.00227	0.00754	1	04/19/2024 15:56	WG2269760
Naphthalene	0.00794	J	0.00513	0.0251	1	04/19/2024 15:56	WG2269760
Phenanthrene	0.0187		0.00290	0.00754	1	04/19/2024 15:56	WG2269760
Pyrene	0.0322		0.00251	0.00754	1	04/19/2024 15:56	WG2269760
1-Methylnaphthalene	U		0.00564	0.0251	1	04/19/2024 15:56	WG2269760
2-Methylnaphthalene	0.0123	J	0.00536	0.0251	1	04/19/2024 15:56	WG2269760
2-Chloronaphthalene	U		0.00585	0.0251	1	04/19/2024 15:56	WG2269760

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) p-Terphenyl-d14	59.1			23.0-120		04/19/2024 15:56	WG2269760
(S) Nitrobenzene-d5	53.1			14.0-149		04/19/2024 15:56	WG2269760
(S) 2-Fluorobiphenyl	49.6			34.0-125		04/19/2024 15:56	WG2269760

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	71.5		1	04/16/2024 13:25	WG2268002

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	3.80	J	1.86	5.59	1	04/18/2024 20:40	WG2269461
Residual Range Organics (RRO)	U		4.66	14.0	1	04/18/2024 20:40	WG2269461
(S) o-Terphenyl	37.1			18.0-148		04/18/2024 20:40	WG2269461

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	76.2		1	04/16/2024 13:25	WG2268002

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.75	5.25	1	04/18/2024 21:19	WG2269461
Residual Range Organics (RRO)	U		4.37	13.1	1	04/18/2024 21:19	WG2269461
(S) o-Terphenyl	46.8			18.0-148		04/18/2024 21:19	WG2269461

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	71.2		1	04/17/2024 09:47	WG2268548

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0646		0.0253	0.0561	1	04/17/2024 17:51	WG2268639

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	8.31		0.727	2.81	1	04/16/2024 23:14	WG2268234
Barium	66.9		0.120	0.702	1	04/16/2024 23:14	WG2268234
Cadmium	0.530	J	0.0661	0.702	1	04/16/2024 23:14	WG2268234
Chromium	14.5		0.187	1.40	1	04/16/2024 23:14	WG2268234
Copper	26.6		0.561	2.81	1	04/16/2024 23:14	WG2268234
Lead	30.2		0.292	0.702	1	04/16/2024 23:14	WG2268234
Nickel	11.3		0.185	2.81	1	04/16/2024 23:14	WG2268234
Selenium	2.29	J	1.07	2.81	1	04/16/2024 23:14	WG2268234
Silver	U		0.178	1.40	1	04/16/2024 23:14	WG2268234
Zinc	220		1.17	7.02	1	04/16/2024 23:14	WG2268234

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	4.87	J	1.87	5.61	1	04/18/2024 22:38	WG2269461
Residual Range Organics (RRO)	23.9		4.67	14.0	1	04/18/2024 22:38	WG2269461
(S) o-Terphenyl	50.2			18.0-148		04/18/2024 22:38	WG2269461

Sample Narrative:

L1725561-148 WG2269461: Sample resembles laboratory standard for Hydraulic Oil.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00323	0.00842	1	04/19/2024 13:59	WG2269760
Acenaphthene	U		0.00293	0.00842	1	04/19/2024 13:59	WG2269760
Acenaphthylene	U		0.00303	0.00842	1	04/19/2024 13:59	WG2269760
Benzo(a)anthracene	U		0.00243	0.00842	1	04/19/2024 13:59	WG2269760
Benzo(a)pyrene	U		0.00251	0.00842	1	04/19/2024 13:59	WG2269760
Benzo(b)fluoranthene	U		0.00215	0.00842	1	04/19/2024 13:59	WG2269760
Benzo(g,h,i)perylene	U		0.00248	0.00842	1	04/19/2024 13:59	WG2269760
Benzo(k)fluoranthene	U		0.00302	0.00842	1	04/19/2024 13:59	WG2269760
Chrysene	U		0.00326	0.00842	1	04/19/2024 13:59	WG2269760
Dibenz(a,h)anthracene	U		0.00241	0.00842	1	04/19/2024 13:59	WG2269760
Fluoranthene	U		0.00319	0.00842	1	04/19/2024 13:59	WG2269760
Fluorene	U		0.00288	0.00842	1	04/19/2024 13:59	WG2269760
Indeno(1,2,3-cd)pyrene	U		0.00254	0.00842	1	04/19/2024 13:59	WG2269760
Naphthalene	U		0.00573	0.0281	1	04/19/2024 13:59	WG2269760
Phenanthrene	U		0.00324	0.00842	1	04/19/2024 13:59	WG2269760
Pyrene	U		0.00281	0.00842	1	04/19/2024 13:59	WG2269760
1-Methylnaphthalene	U		0.00630	0.0281	1	04/19/2024 13:59	WG2269760
2-Methylnaphthalene	0.00734	J	0.00599	0.0281	1	04/19/2024 13:59	WG2269760
2-Chloronaphthalene	U		0.00654	0.0281	1	04/19/2024 13:59	WG2269760
(S) p-Terphenyl-d14	57.3			23.0-120		04/19/2024 13:59	WG2269760

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	61.4			14.0-149		04/19/2024 13:59	WG2269760
(S) 2-Fluorobiphenyl	45.5			34.0-125		04/19/2024 13:59	WG2269760

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	67.8		1	04/17/2024 09:47	WG2268548

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.96	5.90	1	04/18/2024 21:58	WG2269461
Residual Range Organics (RRO)	7.81	J	4.91	14.7	1	04/18/2024 21:58	WG2269461
(S) o-Terphenyl	53.2			18.0-148		04/18/2024 21:58	WG2269461

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	69.6		1	04/17/2024 09:47	WG2268548

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	2.10	<u>J</u>	1.91	5.75	1	04/18/2024 22:11	WG2269461
Residual Range Organics (RRO)	8.86	<u>J</u>	4.78	14.4	1	04/18/2024 22:11	WG2269461
(S) o-Terphenyl	46.9			18.0-148		04/18/2024 22:11	WG2269461

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.5		1	04/17/2024 09:47	WG2268548

1
Cp

2
Tc

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0653		0.0252	0.0559	1	04/17/2024 17:53	WG2268639

3
Ss

4
Cn

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	7.74		0.724	2.80	1	04/16/2024 23:17	WG2268234
Barium	129		0.119	0.699	1	04/16/2024 23:17	WG2268234
Cadmium	1.52		0.0659	0.699	1	04/16/2024 23:17	WG2268234
Chromium	21.8		0.186	1.40	1	04/16/2024 23:17	WG2268234
Copper	73.2		0.559	2.80	1	04/16/2024 23:17	WG2268234
Lead	129		0.291	0.699	1	04/16/2024 23:17	WG2268234
Nickel	17.8		0.185	2.80	1	04/16/2024 23:17	WG2268234
Selenium	3.06		1.07	2.80	1	04/16/2024 23:17	WG2268234
Silver	U		0.178	1.40	1	04/16/2024 23:17	WG2268234
Zinc	357		1.16	6.99	1	04/16/2024 23:17	WG2268234

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	4070		372	1120	200	04/19/2024 08:26	WG2269804
Residual Range Organics (RRO)	13200		931	2800	200	04/19/2024 08:26	WG2269804
(S) o-Terphenyl	0.000	J7		18.0-148		04/19/2024 08:26	WG2269804

Sample Narrative:

L1725561-166 WG2269804: Sample resembles laboratory standard for Motor Oil.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	0.00326	J	0.00322	0.00839	1	04/19/2024 16:16	WG2269760
Acenaphthene	0.00351	J	0.00292	0.00839	1	04/19/2024 16:16	WG2269760
Acenaphthylene	U		0.00302	0.00839	1	04/19/2024 16:16	WG2269760
Benzo(a)anthracene	0.0105		0.00242	0.00839	1	04/19/2024 16:16	WG2269760
Benzo(a)pyrene	0.0126		0.00250	0.00839	1	04/19/2024 16:16	WG2269760
Benzo(b)fluoranthene	0.0143		0.00214	0.00839	1	04/19/2024 16:16	WG2269760
Benzo(g,h,i)perylene	0.0278		0.00247	0.00839	1	04/19/2024 16:16	WG2269760
Benzo(k)fluoranthene	0.00340	J	0.00301	0.00839	1	04/19/2024 16:16	WG2269760
Chrysene	0.00661	J	0.00324	0.00839	1	04/19/2024 16:16	WG2269760
Dibenz(a,h)anthracene	U		0.00240	0.00839	1	04/19/2024 16:16	WG2269760
Fluoranthene	0.0221		0.00317	0.00839	1	04/19/2024 16:16	WG2269760
Fluorene	U		0.00287	0.00839	1	04/19/2024 16:16	WG2269760
Indeno(1,2,3-cd)pyrene	0.0155		0.00253	0.00839	1	04/19/2024 16:16	WG2269760
Naphthalene	0.0333		0.00570	0.0280	1	04/19/2024 16:16	WG2269760
Phenanthrene	0.0176		0.00323	0.00839	1	04/19/2024 16:16	WG2269760
Pyrene	0.0375		0.00280	0.00839	1	04/19/2024 16:16	WG2269760
1-Methylnaphthalene	0.0804		0.00628	0.0280	1	04/19/2024 16:16	WG2269760
2-Methylnaphthalene	0.0940		0.00597	0.0280	1	04/19/2024 16:16	WG2269760
2-Chloronaphthalene	U		0.00652	0.0280	1	04/19/2024 16:16	WG2269760
(S) p-Terphenyl-d14	71.8			23.0-120		04/19/2024 16:16	WG2269760

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	76.0			14.0-149		04/19/2024 16:16	WG2269760
(S) 2-Fluorobiphenyl	59.6			34.0-125		04/19/2024 16:16	WG2269760

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	77.2		1	04/17/2024 09:47	WG2268548

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	4.28	J	1.72	5.18	1	04/19/2024 07:47	WG2269804
Residual Range Organics (RRO)	17.5		4.31	13.0	1	04/19/2024 07:47	WG2269804
(S) o-Terphenyl	45.2			18.0-148		04/19/2024 07:47	WG2269804

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	74.2		1	04/17/2024 09:47	WG2268548

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.79	5.39	1	04/19/2024 03:25	WG2269804
Residual Range Organics (RRO)	U		4.49	13.5	1	04/19/2024 03:25	WG2269804
(S) o-Terphenyl	29.4			18.0-148		04/19/2024 03:25	WG2269804

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	67.1		1	04/17/2024 09:47	WG2268548

1
Cp

2
Tc

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	U		0.0268	0.0596	1	04/17/2024 18:28	WG2268639

3
Ss

4
Cn

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	3.31		0.772	2.98	1	04/16/2024 23:28	WG2268234
Barium	30.5		0.127	0.745	1	04/16/2024 23:28	WG2268234
Cadmium	0.525	J	0.0702	0.745	1	04/16/2024 23:28	WG2268234
Chromium	3.69		0.198	1.49	1	04/16/2024 23:28	WG2268234
Copper	15.3		0.596	2.98	1	04/16/2024 23:28	WG2268234
Lead	22.6		0.310	0.745	1	04/16/2024 23:28	WG2268234
Nickel	3.33		0.197	2.98	1	04/16/2024 23:28	WG2268234
Selenium	1.74	J	1.14	2.98	1	04/16/2024 23:28	WG2268234
Silver	U		0.189	1.49	1	04/16/2024 23:28	WG2268234
Zinc	79.9		1.24	7.45	1	04/16/2024 23:28	WG2268234

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	8.18		1.98	5.96	1	04/19/2024 07:34	WG2269804
Residual Range Organics (RRO)	33.5		4.96	14.9	1	04/19/2024 07:34	WG2269804
(S) o-Terphenyl	43.6			18.0-148		04/19/2024 07:34	WG2269804

Sample Narrative:
L1725561-174 WG2269804: Sample resembles laboratory standard for Hydraulic Oil.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00343	0.00894	1	04/19/2024 14:18	WG2269760
Acenaphthene	U		0.00312	0.00894	1	04/19/2024 14:18	WG2269760
Acenaphthylene	U		0.00322	0.00894	1	04/19/2024 14:18	WG2269760
Benzo(a)anthracene	U		0.00258	0.00894	1	04/19/2024 14:18	WG2269760
Benzo(a)pyrene	U		0.00267	0.00894	1	04/19/2024 14:18	WG2269760
Benzo(b)fluoranthene	U		0.00228	0.00894	1	04/19/2024 14:18	WG2269760
Benzo(g,h,i)perylene	U		0.00264	0.00894	1	04/19/2024 14:18	WG2269760
Benzo(k)fluoranthene	U		0.00320	0.00894	1	04/19/2024 14:18	WG2269760
Chrysene	U		0.00346	0.00894	1	04/19/2024 14:18	WG2269760
Dibenz(a,h)anthracene	U		0.00256	0.00894	1	04/19/2024 14:18	WG2269760
Fluoranthene	U		0.00338	0.00894	1	04/19/2024 14:18	WG2269760
Fluorene	U		0.00306	0.00894	1	04/19/2024 14:18	WG2269760
Indeno(1,2,3-cd)pyrene	U		0.00270	0.00894	1	04/19/2024 14:18	WG2269760
Naphthalene	U		0.00608	0.0298	1	04/19/2024 14:18	WG2269760
Phenanthrene	U		0.00344	0.00894	1	04/19/2024 14:18	WG2269760
Pyrene	U		0.00298	0.00894	1	04/19/2024 14:18	WG2269760
1-Methylnaphthalene	U		0.00669	0.0298	1	04/19/2024 14:18	WG2269760
2-Methylnaphthalene	U		0.00636	0.0298	1	04/19/2024 14:18	WG2269760
2-Chloronaphthalene	U		0.00695	0.0298	1	04/19/2024 14:18	WG2269760
(S) p-Terphenyl-d14	65.9			23.0-120		04/19/2024 14:18	WG2269760

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	54.5			14.0-149		04/19/2024 14:18	WG2269760
(S) 2-Fluorobiphenyl	48.6			34.0-125		04/19/2024 14:18	WG2269760

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.7		1	04/17/2024 08:28	WG2268549

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0410	J	0.0251	0.0558	1	04/17/2024 18:30	WG2268639

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	8.99		0.723	2.79	1	04/16/2024 23:31	WG2268234
Barium	53.4		0.119	0.698	1	04/16/2024 23:31	WG2268234
Cadmium	0.252	J	0.0657	0.698	1	04/16/2024 23:31	WG2268234
Chromium	10.3		0.186	1.40	1	04/16/2024 23:31	WG2268234
Copper	19.3		0.558	2.79	1	04/16/2024 23:31	WG2268234
Lead	20.5		0.290	0.698	1	04/16/2024 23:31	WG2268234
Nickel	6.91		0.184	2.79	1	04/16/2024 23:31	WG2268234
Selenium	2.00	J	1.07	2.79	1	04/16/2024 23:31	WG2268234
Silver	U		0.177	1.40	1	04/16/2024 23:31	WG2268234
Zinc	91.4		1.16	6.98	1	04/16/2024 23:31	WG2268234

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	32.1		1.86	5.58	1	04/19/2024 08:00	WG2269804
Residual Range Organics (RRO)	122		4.65	14.0	1	04/19/2024 08:00	WG2269804
(S) o-Terphenyl	28.7			18.0-148		04/19/2024 08:00	WG2269804

Sample Narrative:

L1725561-184 WG2269804: Sample resembles laboratory standard for Hydraulic Oil.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00321	0.00837	1	04/19/2024 14:38	WG2269760
Acenaphthene	U		0.00292	0.00837	1	04/19/2024 14:38	WG2269760
Acenaphthylene	U		0.00301	0.00837	1	04/19/2024 14:38	WG2269760
Benzo(a)anthracene	U		0.00241	0.00837	1	04/19/2024 14:38	WG2269760
Benzo(a)pyrene	U		0.00250	0.00837	1	04/19/2024 14:38	WG2269760
Benzo(b)fluoranthene	U		0.00213	0.00837	1	04/19/2024 14:38	WG2269760
Benzo(g,h,i)perylene	U		0.00247	0.00837	1	04/19/2024 14:38	WG2269760
Benzo(k)fluoranthene	U		0.00300	0.00837	1	04/19/2024 14:38	WG2269760
Chrysene	U		0.00324	0.00837	1	04/19/2024 14:38	WG2269760
Dibenz(a,h)anthracene	U		0.00240	0.00837	1	04/19/2024 14:38	WG2269760
Fluoranthene	U		0.00317	0.00837	1	04/19/2024 14:38	WG2269760
Fluorene	U		0.00286	0.00837	1	04/19/2024 14:38	WG2269760
Indeno(1,2,3-cd)pyrene	U		0.00253	0.00837	1	04/19/2024 14:38	WG2269760
Naphthalene	U		0.00569	0.0279	1	04/19/2024 14:38	WG2269760
Phenanthrene	U		0.00322	0.00837	1	04/19/2024 14:38	WG2269760
Pyrene	U		0.00279	0.00837	1	04/19/2024 14:38	WG2269760
1-Methylnaphthalene	U		0.00626	0.0279	1	04/19/2024 14:38	WG2269760
2-Methylnaphthalene	U		0.00596	0.0279	1	04/19/2024 14:38	WG2269760
2-Chloronaphthalene	U		0.00650	0.0279	1	04/19/2024 14:38	WG2269760
(S) p-Terphenyl-d14	57.5			23.0-120		04/19/2024 14:38	WG2269760

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	62.4			14.0-149		04/19/2024 14:38	WG2269760
(S) 2-Fluorobiphenyl	50.9			34.0-125		04/19/2024 14:38	WG2269760

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	71.7		1	04/17/2024 08:28	WG2268549

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		1.85	5.58	1	04/19/2024 07:21	WG2269804
Residual Range Organics (RRO)	U		4.64	13.9	1	04/19/2024 07:21	WG2269804
(S) o-Terphenyl	27.9			18.0-148		04/19/2024 07:21	WG2269804

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	65.5		1	04/17/2024 08:28	WG2268549

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		2.03	6.11	1	04/19/2024 08:13	WG2269804
Residual Range Organics (RRO)	12.8	J	5.08	15.3	1	04/19/2024 08:13	WG2269804
(S) o-Terphenyl	40.7			18.0-148		04/19/2024 08:13	WG2269804

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	35.1		1	04/17/2024 08:28	WG2268549

1Cp

2Tc

Mercury by Method 7471B

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.773		0.0513	0.114	1	04/17/2024 18:33	WG2268639

3Ss

4Cn

Metals (ICP) by Method 6010D

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	7.31		1.48	5.70	1	04/16/2024 23:35	WG2268234
Barium	73.7		0.243	1.42	1	04/16/2024 23:35	WG2268234
Cadmium	2.63		0.134	1.42	1	04/16/2024 23:35	WG2268234
Chromium	60.3		0.379	2.85	1	04/16/2024 23:35	WG2268234
Copper	167		1.14	5.70	1	04/16/2024 23:35	WG2268234
Lead	171		0.593	1.42	1	04/16/2024 23:35	WG2268234
Nickel	42.1		0.376	5.70	1	04/16/2024 23:35	WG2268234
Selenium	5.23	J	2.18	5.70	1	04/16/2024 23:35	WG2268234
Silver	0.546	J	0.362	2.85	1	04/16/2024 23:35	WG2268234
Zinc	847		2.37	14.2	1	04/16/2024 23:35	WG2268234

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	8.15	J	3.79	11.4	1	04/19/2024 17:46	WG2270219
Residual Range Organics (RRO)	31.9		9.49	28.5	1	04/19/2024 17:46	WG2270219
(S) o-Terphenyl	54.7			18.0-148		04/19/2024 17:46	WG2270219

Sample Narrative:
L1725561-192 WG2270219: Sample resembles laboratory standard for Hydraulic Oil.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	0.00655	J	0.00655	0.0171	1	04/19/2024 14:57	WG2269760
Acenaphthene	U		0.00596	0.0171	1	04/19/2024 14:57	WG2269760
Acenaphthylene	U		0.00615	0.0171	1	04/19/2024 14:57	WG2269760
Benzo(a)anthracene	0.0168	J	0.00493	0.0171	1	04/19/2024 14:57	WG2269760
Benzo(a)pyrene	0.0117	J	0.00510	0.0171	1	04/19/2024 14:57	WG2269760
Benzo(b)fluoranthene	0.0153	J	0.00436	0.0171	1	04/19/2024 14:57	WG2269760
Benzo(g,h,i)perylene	0.00690	J	0.00504	0.0171	1	04/19/2024 14:57	WG2269760
Benzo(k)fluoranthene	0.00709	J	0.00613	0.0171	1	04/19/2024 14:57	WG2269760
Chrysene	0.0192		0.00661	0.0171	1	04/19/2024 14:57	WG2269760
Dibenz(a,h)anthracene	U		0.00490	0.0171	1	04/19/2024 14:57	WG2269760
Fluoranthene	0.0218		0.00647	0.0171	1	04/19/2024 14:57	WG2269760
Fluorene	U		0.00584	0.0171	1	04/19/2024 14:57	WG2269760
Indeno(1,2,3-cd)pyrene	0.00915	J	0.00516	0.0171	1	04/19/2024 14:57	WG2269760
Naphthalene	U		0.0116	0.0570	1	04/19/2024 14:57	WG2269760
Phenanthrene	0.0183		0.00658	0.0171	1	04/19/2024 14:57	WG2269760
Pyrene	0.0148	J	0.00570	0.0171	1	04/19/2024 14:57	WG2269760
1-Methylnaphthalene	U		0.0128	0.0570	1	04/19/2024 14:57	WG2269760
2-Methylnaphthalene	U		0.0122	0.0570	1	04/19/2024 14:57	WG2269760
2-Chloronaphthalene	U		0.0133	0.0570	1	04/19/2024 14:57	WG2269760
(S) p-Terphenyl-d14	69.4			23.0-120		04/19/2024 14:57	WG2269760

Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	64.1			14.0-149		04/19/2024 14:57	WG2269760
(S) 2-Fluorobiphenyl	43.5			34.0-125		04/19/2024 14:57	WG2269760

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	68.6		1	04/17/2024 08:28	WG2268549

Mercury by Method 7471B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.0295	J	0.0262	0.0583	1	04/17/2024 18:35	WG2268639

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	8.30		0.755	2.92	1	04/16/2024 23:38	WG2268234
Barium	79.0		0.124	0.729	1	04/16/2024 23:38	WG2268234
Cadmium	0.272	J	0.0687	0.729	1	04/16/2024 23:38	WG2268234
Chromium	49.9		0.194	1.46	1	04/16/2024 23:38	WG2268234
Copper	19.6		0.583	2.92	1	04/16/2024 23:38	WG2268234
Lead	14.0		0.303	0.729	1	04/16/2024 23:38	WG2268234
Nickel	9.47		0.192	2.92	1	04/16/2024 23:38	WG2268234
Selenium	2.27	J	1.11	2.92	1	04/16/2024 23:38	WG2268234
Silver	U		0.185	1.46	1	04/16/2024 23:38	WG2268234
Zinc	98.8		1.21	7.29	1	04/16/2024 23:38	WG2268234

Semi-Volatile Organic Compounds (GC) by Method NWTPH-HCID

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Gasoline (C7-C12)	U		1.94	5.83	1	04/19/2024 15:35	WG2270226
Mineral Spirits	U		1.94	5.83	1	04/19/2024 15:35	WG2270226
Kerosene	U		1.94	5.83	1	04/19/2024 15:35	WG2270226
Diesel (C12-C24)	3.12	J	1.94	5.83	1	04/19/2024 15:35	WG2270226
#6 Fuel Oil	U		1.94	5.83	1	04/19/2024 15:35	WG2270226
Hydraulic Fluid	U		1.94	5.83	1	04/19/2024 15:35	WG2270226
Motor Oil (C24-C30)	12.8	J	4.85	14.6	1	04/19/2024 15:35	WG2270226
(S) o-Terphenyl	35.9			18.0-148		04/19/2024 15:35	WG2270226

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4058563-1 04/16/24 13:35

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

L1725561-113 Original Sample (OS) • Duplicate (DUP)

(OS) L1725561-113 04/16/24 13:35 • (DUP) R4058563-3 04/16/24 13:35

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	74.2	73.2	1	1.36		10

Laboratory Control Sample (LCS)

(LCS) R4058563-2 04/16/24 13:35

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	90.0-110	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4058558-1 04/16/24 13:25

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1725561-130 Original Sample (OS) • Duplicate (DUP)

(OS) L1725561-130 04/16/24 13:25 • (DUP) R4058558-3 04/16/24 13:25

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	79.6	76.8	1	3.54		10

Laboratory Control Sample (LCS)

(LCS) R4058558-2 04/16/24 13:25

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.1	100	90.0-110	

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4058557-1 04/16/24 13:14

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1725561-78 Original Sample (OS) • Duplicate (DUP)

(OS) L1725561-78 04/16/24 13:14 • (DUP) R4058557-3 04/16/24 13:14

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	74.3	72.6	1	2.27		10

Laboratory Control Sample (LCS)

(LCS) R4058557-2 04/16/24 13:14

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	90.0-110	

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4058555-1 04/16/24 13:00

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

L1725607-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1725607-10 04/16/24 13:00 • (DUP) R4058555-3 04/16/24 13:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	70.0	72.5	1	3.54		10

Laboratory Control Sample (LCS)

(LCS) R4058555-2 04/16/24 13:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	90.0-110	

Method Blank (MB)

(MB) R4059022-1 04/17/24 09:47

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000			

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1725561-148 Original Sample (OS) • Duplicate (DUP)

(OS) L1725561-148 04/17/24 09:47 • (DUP) R4059022-3 04/17/24 09:47

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	71.2	70.1	1	1.67		10

Laboratory Control Sample (LCS)

(LCS) R4059022-2 04/17/24 09:47

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	90.0-110	

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4059009-1 04/17/24 08:28

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1725561-184 Original Sample (OS) • Duplicate (DUP)

(OS) L1725561-184 04/17/24 08:28 • (DUP) R4059009-3 04/17/24 08:28

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	71.7	67.4	1	6.13		10

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R4059009-2 04/17/24 08:28

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	90.0-110	

⁹Sc

Method Blank (MB)

(MB) R4058924-1 04/17/24 16:10

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R4058924-2 04/17/24 16:12

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Mercury	0.500	0.492	98.3	80.0-120	

L1725974-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1725974-01 04/17/24 16:14 • (MS) R4058924-4 04/17/24 16:19 • (MSD) R4058924-5 04/17/24 16:21

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Mercury	0.500	U	0.515	0.561	103	112	1	75.0-125			8.41	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4058949-1 04/17/24 17:19

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R4058949-2 04/17/24 17:22

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Mercury	0.500	0.475	94.9	80.0-120	

L1725561-76 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1725561-76 04/17/24 17:31 • (MS) R4058949-4 04/17/24 17:36 • (MSD) R4058949-5 04/17/24 17:39

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Mercury	0.689	0.0381	0.654	0.625	89.4	85.1	1	75.0-125			4.57	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4058534-1 04/16/24 22:45

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.518	2.00
Barium	U		0.0852	0.500
Cadmium	U		0.0471	0.500
Chromium	U		0.133	1.00
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Nickel	U		0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Zinc	U		0.832	5.00

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Laboratory Control Sample (LCS)

(LCS) R4058534-2 04/16/24 22:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	96.7	96.7	80.0-120	
Barium	100	106	106	80.0-120	
Cadmium	100	93.5	93.5	80.0-120	
Chromium	100	104	104	80.0-120	
Copper	100	98.8	98.8	80.0-120	
Lead	100	98.9	98.9	80.0-120	
Nickel	100	99.9	99.9	80.0-120	
Selenium	100	94.3	94.3	80.0-120	
Silver	20.0	18.6	92.8	80.0-120	
Zinc	100	102	102	80.0-120	

L1725561-76 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1725561-76 04/16/24 22:52 • (MS) R4058534-5 04/16/24 23:03 • (MSD) R4058534-6 04/16/24 23:07

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	138	7.81	126	125	85.5	85.0	1	75.0-125			0.588	20
Barium	138	79.4	226	222	107	103	1	75.0-125			2.19	20
Cadmium	138	0.565	116	117	84.1	84.3	1	75.0-125			0.186	20
Chromium	138	225	332	566	77.8	247	1	75.0-125		J3 J5	52.0	20
Copper	138	31.4	166	181	98.0	109	1	75.0-125			8.47	20
Lead	138	27.6	146	161	86.2	97.2	1	75.0-125			9.82	20

L1725561-76 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1725561-76 04/16/24 22:52 • (MS) R4058534-5 04/16/24 23:03 • (MSD) R4058534-6 04/16/24 23:07

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Nickel	138	9.59	143	135	96.5	91.1	1	75.0-125			5.34	20
Selenium	138	2.68	114	114	80.5	80.7	1	75.0-125			0.321	20
Silver	27.6	0.274	24.0	24.4	86.0	87.7	1	75.0-125			1.93	20
Zinc	138	125	269	236	105	81.1	1	75.0-125			12.8	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4059023-1 04/17/24 21:05

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.518	2.00
Barium	U		0.0852	0.500
Cadmium	U		0.0471	0.500
Chromium	U		0.133	1.00
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Nickel	U		0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Zinc	U		0.832	5.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4059023-2 04/17/24 21:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	98.4	98.4	80.0-120	
Barium	100	103	103	80.0-120	
Cadmium	100	99.0	99.0	80.0-120	
Chromium	100	104	104	80.0-120	
Copper	100	103	103	80.0-120	
Lead	100	98.1	98.1	80.0-120	
Nickel	100	99.9	99.9	80.0-120	
Selenium	100	94.3	94.3	80.0-120	
Silver	20.0	19.5	97.3	80.0-120	
Zinc	100	103	103	80.0-120	

L1725974-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1725974-01 04/17/24 21:09 • (MS) R4059023-5 04/17/24 21:14 • (MSD) R4059023-6 04/17/24 21:16

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	U	96.3	87.7	96.2	87.7	1	75.0-125			9.33	20
Barium	100	14.3	128	109	113	94.2	1	75.0-125			16.0	20
Cadmium	100	0.0591	94.7	85.3	94.6	85.1	1	75.0-125			10.5	20
Chromium	100	1.12	100	91.9	98.9	90.7	1	75.0-125			8.51	20
Copper	100	8.77	174	98.2	165	89.4	1	75.0-125	J5	J3	55.8	20
Lead	100	0.885	97.4	86.5	96.5	85.6	1	75.0-125			11.9	20

L1725974-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1725974-01 04/17/24 21:09 • (MS) R4059023-5 04/17/24 21:14 • (MSD) R4059023-6 04/17/24 21:16

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Nickel	100	1.82	102	89.1	100	87.2	1	75.0-125			13.8	20
Selenium	100	U	95.4	83.9	95.3	83.9	1	75.0-125			12.8	20
Silver	20.0	0.710	22.1	18.0	107	86.3	1	75.0-125		J3	20.8	20
Zinc	100	12.6	144	102	132	89.0	1	75.0-125	J5	J3	34.7	20

L1725974-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1725974-02 04/17/24 21:17 • (MS) R4059023-7 04/17/24 21:19 • (MSD) R4059023-8 04/17/24 21:21

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Arsenic	100	2.19	104	89.8	102	87.4	1	75.0-125			15.1	20
Barium	100	38.4	135	106	96.7	67.3	1	75.0-125		J3 J6	24.4	20
Cadmium	100	U	103	87.5	103	87.4	1	75.0-125			16.1	20
Chromium	100	4.58	109	91.4	104	86.7	1	75.0-125			17.6	20
Copper	100	93.7	143	130	48.8	36.5	1	75.0-125	J6	J6	9.03	20
Lead	100	3.48	105	89.5	101	85.9	1	75.0-125			15.9	20
Nickel	100	6.84	115	93.5	108	86.6	1	75.0-125		J3	20.7	20
Selenium	100	1.46	103	89.1	101	87.5	1	75.0-125			14.4	20
Silver	20.0	4.27	23.2	19.4	94.3	75.6	1	75.0-125			17.6	20
Zinc	100	54.6	169	157	114	102	1	75.0-125			7.06	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

WG2269461

QUALITY CONTROL SUMMARY

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SG

L1725561-06,101,110,112,113,114,130,131,132,148,149,150

Method Blank (MB)

(MB) R4059656-1 04/18/24 20:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	48.6			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4059656-2 04/18/24 20:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	28.1	56.2	50.0-150	
(S) o-Terphenyl			44.7	18.0-148	

L1725386-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1725386-05 04/19/24 10:50 • (MS) R4059772-2 04/19/24 11:18 • (MSD) R4059772-1 04/19/24 11:04

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	48.3	22.4	28.0	45.2	11.6	47.2	10	50.0-150	J6	J3 J6	47.0	20
(S) o-Terphenyl					49.1	60.2		18.0-148				

Sample Narrative:

OS: Sample resembles laboratory standard for Motor Oil.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4059657-1 04/19/24 02:59

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	48.9			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4059657-2 04/19/24 03:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	32.4	64.8	50.0-150	
(S) o-Terphenyl			51.5	18.0-148	

L1726923-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1726923-07 04/19/24 06:28 • (MS) R4059657-3 04/19/24 06:41 • (MSD) R4059657-4 04/19/24 06:54

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	50.0	4.01	27.8	32.8	47.6	57.6	1	50.0-150	J6		16.5	20
(S) o-Terphenyl					41.7	50.9		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4060094-1 04/19/24 16:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	76.9			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4060094-2 04/19/24 16:56

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	32.5	65.0	50.0-150	
(S) o-Terphenyl			74.5	18.0-148	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4060088-1 04/19/24 15:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	59.0			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4060088-2 04/19/24 15:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	40.4	80.8	50.0-150	
(S) o-Terphenyl			82.4	18.0-148	

L1725561-77 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1725561-77 04/19/24 17:21 • (MS) R4060088-3 04/19/24 17:35 • (MSD) R4060088-4 04/19/24 17:49

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	66.8	U	47.3	47.4	70.8	71.0	1	50.0-150			0.288	20
(S) o-Terphenyl					67.6	69.9		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4060090-1 04/19/24 12:18

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Gasoline (C7-C12)	U		1.33	4.00
Mineral Spirits	U		1.33	4.00
Kerosene	U		1.33	4.00
Diesel (C12-C24)	U		1.33	4.00
#6 Fuel Oil	U		1.33	4.00
Hydraulic Fluid	U		1.33	4.00
Motor Oil (C24-C30)	U		3.33	10.0
(S) o-Terphenyl	39.5			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4060090-2 04/19/24 12:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel (C12-C24)	50.0	34.0	68.0	50.0-150	
(S) o-Terphenyl			57.1	18.0-148	

L1725561-193 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1725561-193 04/19/24 15:35 • (MS) R4060090-3 04/19/24 15:48 • (MSD) R4060090-4 04/19/24 16:01

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel (C12-C24)	71.7	3.12	44.9	42.9	58.3	55.2	1	50.0-150			4.65	20
(S) o-Terphenyl					34.6	29.5		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4060012-2 04/19/24 10:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) p-Terphenyl-d14	66.2			23.0-120
(S) Nitrobenzene-d5	65.3			14.0-149
(S) 2-Fluorobiphenyl	59.0			34.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4060012-1 04/19/24 10:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0655	81.9	50.0-126	
Acenaphthene	0.0800	0.0588	73.5	50.0-120	
Acenaphthylene	0.0800	0.0639	79.9	50.0-120	
Benzo(a)anthracene	0.0800	0.0706	88.3	45.0-120	
Benzo(a)pyrene	0.0800	0.0566	70.8	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0540	67.5	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0520	65.0	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0505	63.1	49.0-125	
Chrysene	0.0800	0.0673	84.1	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0597	74.6	47.0-125	
Fluoranthene	0.0800	0.0693	86.6	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R4060012-1 04/19/24 10:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Fluorene	0.0800	0.0643	80.4	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0637	79.6	46.0-125	
Naphthalene	0.0800	0.0598	74.8	50.0-120	
Phenanthrene	0.0800	0.0661	82.6	47.0-120	
Pyrene	0.0800	0.0608	76.0	43.0-123	
1-Methylnaphthalene	0.0800	0.0613	76.6	51.0-121	
2-Methylnaphthalene	0.0800	0.0601	75.1	50.0-120	
2-Chloronaphthalene	0.0800	0.0621	77.6	50.0-120	
(S) p-Terphenyl-d14			71.2	23.0-120	
(S) Nitrobenzene-d5			64.3	14.0-149	
(S) 2-Fluorobiphenyl			55.5	34.0-125	

L1725358-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1725358-02 04/19/24 11:41 • (MS) R4060012-3 04/19/24 12:01 • (MSD) R4060012-4 04/19/24 12:21

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Anthracene	0.0772	U	0.0523	0.0521	67.7	67.1	1	10.0-145			0.383	30
Acenaphthene	0.0772	U	0.0455	0.0472	58.9	60.8	1	14.0-127			3.67	27
Acenaphthylene	0.0772	U	0.0499	0.0515	64.6	66.4	1	21.0-124			3.16	25
Benzo(a)anthracene	0.0772	0.00177	0.0580	0.0561	72.8	70.0	1	10.0-139			3.33	30
Benzo(a)pyrene	0.0772	0.00212	0.0504	0.0487	62.5	60.0	1	10.0-141			3.43	31
Benzo(b)fluoranthene	0.0772	0.00301	0.0466	0.0444	56.5	53.3	1	10.0-140			4.84	36
Benzo(g,h,i)perylene	0.0772	U	0.0471	0.0438	61.0	56.4	1	10.0-140			7.26	33
Benzo(k)fluoranthene	0.0772	U	0.0434	0.0420	56.2	54.1	1	10.0-137			3.28	31
Chrysene	0.0772	U	0.0567	0.0561	73.4	72.3	1	10.0-145			1.06	30
Dibenz(a,h)anthracene	0.0772	U	0.0488	0.0479	63.2	61.7	1	10.0-132			1.86	31
Fluoranthene	0.0772	0.00280	0.0599	0.0579	74.0	71.0	1	10.0-153			3.40	33
Fluorene	0.0772	U	0.0495	0.0503	64.1	64.8	1	11.0-130			1.60	29
Indeno(1,2,3-cd)pyrene	0.0772	0.00206	0.0564	0.0526	70.4	65.1	1	10.0-137			6.97	32
Naphthalene	0.0772	U	0.0433	0.0466	56.1	60.1	1	10.0-135			7.34	27
Phenanthrene	0.0772	U	0.0544	0.0542	70.5	69.8	1	10.0-144			0.368	31
Pyrene	0.0772	0.00220	0.0515	0.0502	63.9	61.9	1	10.0-148			2.56	35
1-Methylnaphthalene	0.0772	U	0.0449	0.0478	57.5	60.9	1	10.0-142			6.26	28
2-Methylnaphthalene	0.0772	U	0.0451	0.0482	58.2	61.9	1	10.0-137			6.65	28
2-Chloronaphthalene	0.0772	U	0.0470	0.0495	60.8	63.7	1	29.0-120			5.18	24
(S) p-Terphenyl-d14					57.1	52.0		23.0-120				
(S) Nitrobenzene-d5					50.2	64.5		14.0-149				
(S) 2-Fluorobiphenyl					44.3	53.4		34.0-125				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4060406-2 04/19/24 19:11

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) p-Terphenyl-d14	63.2			23.0-120
(S) Nitrobenzene-d5	67.0			14.0-149
(S) 2-Fluorobiphenyl	59.0			34.0-125

Laboratory Control Sample (LCS)

(LCS) R4060406-1 04/19/24 18:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0719	89.9	50.0-126	
Acenaphthene	0.0800	0.0627	78.4	50.0-120	
Acenaphthylene	0.0800	0.0721	90.1	50.0-120	
Benzo(a)anthracene	0.0800	0.0715	89.4	45.0-120	
Benzo(a)pyrene	0.0800	0.0570	71.3	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0619	77.4	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0600	75.0	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0568	71.0	49.0-125	
Chrysene	0.0800	0.0663	82.9	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0665	83.1	47.0-125	
Fluoranthene	0.0800	0.0752	94.0	49.0-129	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R4060406-1 04/19/24 18:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0748	93.5	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0680	85.0	46.0-125	
Naphthalene	0.0800	0.0693	86.6	50.0-120	
Phenanthrene	0.0800	0.0701	87.6	47.0-120	
Pyrene	0.0800	0.0618	77.3	43.0-123	
1-Methylnaphthalene	0.0800	0.0688	86.0	51.0-121	
2-Methylnaphthalene	0.0800	0.0670	83.8	50.0-120	
2-Chloronaphthalene	0.0800	0.0624	78.0	50.0-120	
(S) p-Terphenyl-d14			85.4	23.0-120	
(S) Nitrobenzene-d5			78.5	14.0-149	
(S) 2-Fluorobiphenyl			69.1	34.0-125	

L1725558-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1725558-06 04/19/24 21:16 • (MS) R4060406-3 04/19/24 21:33 • (MSD) R4060406-4 04/19/24 21:51

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0975	U	0.0731	0.0661	75.0	67.8	1	10.0-145			10.1	30
Acenaphthene	0.0975	U	0.0647	0.0593	66.4	60.8	1	14.0-127			8.78	27
Acenaphthylene	0.0975	U	0.0739	0.0666	75.8	68.3	1	21.0-124			10.4	25
Benzo(a)anthracene	0.0975	U	0.0728	0.0671	74.6	68.8	1	10.0-139			8.14	30
Benzo(a)pyrene	0.0975	U	0.0629	0.0572	64.5	58.6	1	10.0-141			9.48	31
Benzo(b)fluoranthene	0.0975	U	0.0661	0.0562	67.8	57.6	1	10.0-140			16.2	36
Benzo(g,h,i)perylene	0.0975	U	0.0612	0.0504	62.8	51.6	1	10.0-140			19.5	33
Benzo(k)fluoranthene	0.0975	U	0.0611	0.0537	62.7	55.1	1	10.0-137			12.9	31
Chrysene	0.0975	U	0.0687	0.0638	70.4	65.5	1	10.0-145			7.28	30
Dibenz(a,h)anthracene	0.0975	U	0.0697	0.0561	71.4	57.5	1	10.0-132			21.7	31
Fluoranthene	0.0975	U	0.0815	0.0673	83.6	69.0	1	10.0-153			19.1	33
Fluorene	0.0975	U	0.0751	0.0694	77.0	71.2	1	11.0-130			7.88	29
Indeno(1,2,3-cd)pyrene	0.0975	U	0.0699	0.0556	71.7	57.0	1	10.0-137			22.9	32
Naphthalene	0.0975	U	0.0711	0.0653	73.0	67.0	1	10.0-135			8.52	27
Phenanthrene	0.0975	U	0.0732	0.0682	75.1	69.9	1	10.0-144			7.17	31
Pyrene	0.0975	U	0.0631	0.0577	64.7	59.1	1	10.0-148			9.02	35
1-Methylnaphthalene	0.0975	U	0.0707	0.0561	72.5	57.5	1	10.0-142			23.0	28
2-Methylnaphthalene	0.0975	U	0.0627	0.0543	64.3	55.7	1	10.0-137			14.4	28
2-Chloronaphthalene	0.0975	U	0.0653	0.0554	67.0	56.9	1	29.0-120			16.4	24
(S) p-Terphenyl-d14					66.7	59.3		23.0-120				
(S) Nitrobenzene-d5					73.7	60.0		14.0-149				
(S) 2-Fluorobiphenyl					62.2	45.1		34.0-125				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4060407-2 04/19/24 19:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) p-Terphenyl-d14	72.3			23.0-120
(S) Nitrobenzene-d5	57.2			14.0-149
(S) 2-Fluorobiphenyl	58.0			34.0-125

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R4060407-1 04/19/24 19:29

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0718	89.8	50.0-126	
Acenaphthene	0.0800	0.0623	77.9	50.0-120	
Acenaphthylene	0.0800	0.0710	88.8	50.0-120	
Benzo(a)anthracene	0.0800	0.0715	89.4	45.0-120	
Benzo(a)pyrene	0.0800	0.0586	73.3	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0612	76.5	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0590	73.8	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0573	71.6	49.0-125	
Chrysene	0.0800	0.0672	84.0	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0655	81.9	47.0-125	
Fluoranthene	0.0800	0.0723	90.4	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R4060407-1 04/19/24 19:29

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0703	87.9	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0663	82.9	46.0-125	
Naphthalene	0.0800	0.0687	85.9	50.0-120	
Phenanthrene	0.0800	0.0715	89.4	47.0-120	
Pyrene	0.0800	0.0619	77.4	43.0-123	
1-Methylnaphthalene	0.0800	0.0677	84.6	51.0-121	
2-Methylnaphthalene	0.0800	0.0675	84.4	50.0-120	
2-Chloronaphthalene	0.0800	0.0625	78.1	50.0-120	
(S) p-Terphenyl-d14			82.0	23.0-120	
(S) Nitrobenzene-d5			84.4	14.0-149	
(S) 2-Fluorobiphenyl			67.1	34.0-125	

L1725607-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1725607-09 04/20/24 05:22 • (MS) R4060373-1 04/20/24 05:40 • (MSD) R4060373-2 04/20/24 05:57

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0900	0.0367	0.107	0.106	78.5	76.8	1	10.0-145			1.48	30
Acenaphthene	0.0900	0.00840	0.0721	0.0803	70.8	79.9	1	14.0-127			10.7	27
Acenaphthylene	0.0900	0.00864	0.0770	0.0706	76.0	68.8	1	21.0-124			8.74	25
Benzo(a)anthracene	0.0900	0.0920	0.159	0.273	74.9	201	1	10.0-139	J3 J5		52.4	30
Benzo(a)pyrene	0.0900	0.0580	0.114	0.131	62.4	81.3	1	10.0-141			13.8	31
Benzo(b)fluoranthene	0.0900	0.100	0.153	0.252	58.3	169	1	10.0-140	J3 J5		49.2	36
Benzo(g,h,i)perylene	0.0900	0.0710	0.118	0.131	51.8	66.8	1	10.0-140			10.9	33
Benzo(k)fluoranthene	0.0900	0.0189	0.0740	0.0690	61.2	55.7	1	10.0-137			6.96	31
Chrysene	0.0900	0.138	0.194	0.485	62.8	386	1	10.0-145	J3 J5		85.5	30
Dibenz(a,h)anthracene	0.0900	0.0259	0.0762	0.108	55.9	91.1	1	10.0-132	J3		34.4	31
Fluoranthene	0.0900	0.104	0.182	0.274	86.2	188	1	10.0-153	J3 J5		40.2	33
Fluorene	0.0900	0.0112	0.0802	0.108	76.6	108	1	11.0-130	J3		29.8	29
Indeno(1,2,3-cd)pyrene	0.0900	0.0420	0.0948	0.0890	58.7	52.3	1	10.0-137			6.28	32
Naphthalene	0.0900	0.0729	0.142	0.167	77.3	105	1	10.0-135			16.1	27
Phenanthrene	0.0900	0.219	0.288	1.05	76.6	922	1	10.0-144	J3 J5		114	31
Pyrene	0.0900	0.0972	0.166	0.262	76.6	183	1	10.0-148	J3 J5		44.9	35
1-Methylnaphthalene	0.0900	0.0924	0.158	0.418	73.2	362	1	10.0-142	J3 J5		90.2	28
2-Methylnaphthalene	0.0900	0.146	0.225	0.379	87.9	259	1	10.0-137	J3 J5		50.9	28
2-Chloronaphthalene	0.0900	U	0.0635	0.0557	70.6	61.9	1	29.0-120			13.1	24
(S) p-Terphenyl-d14					69.6	67.5		23.0-120				
(S) Nitrobenzene-d5					71.7	78.0		14.0-149				
(S) 2-Fluorobiphenyl					67.5	55.2		34.0-125				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

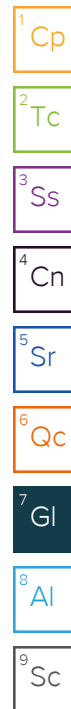
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.



ACCREDITATIONS & LOCATIONS

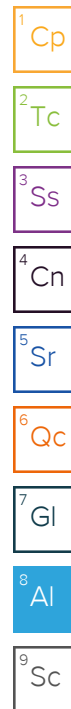
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



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Andrew Bisbee

Email To: Andrew.Bisbee@apexc.com

Project Description:

KING SALVAGE

City/State
Collected: TOLEDO, OR

Please Circle:
PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):

[Signature]

Rush? (Lab MUST Be Notified)

Same Day ☒ Five Day
Next Day ☐ 5 Day (Rad Only)
Two Day ☐ 10 Day (Rad Only)
Three Day ☐

Quote #

Date Results Needed

No.
of
Cntrs

Immediately

Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-3-SS-1

Grab

SS

0-0.5

4/10/24

1345

1

DU-3-SS-2

Grab

SS

1

4/10/24

1350

1

DU-3-SS-3

Grab

SS

1

4/10/24

1355

1

DU-3-SS-4

Grab

SS

1

4/10/24

1400

1

DU-3-SS-5

Grab

SS

1

4/10/24

1405

1

DU-3-SS-COMP-1

comp

SS

V

4/10/24

1410

2

DU-4A-1-1

Grab

SS

0-1

4/8/24

1115

1

DU-4A-1-2

Grab

SS

1-2

4/8/24

1120

1

DU-4A-1-3

Grab

SS

2-3

4/8/24

1128

1

DU-4A-2-1

Grab

SS

0-1

4/8/24

1130

1

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: *Client: list metals needed=

metals = RCRA 8 + copper, zinc, and nickel by EPA Method 6010.

7 day TAT for all analyses. per request of Andrew Bisbee-njf

04/15/24

Samples ret
UPS

Relinquished by: (Signature)

[Signature]

Date:

4-12-24

Time:

12:00

Received by: (Signature)

[Signature]

Trip Blank Received: Yes ☒ No

HCL / MeOH

TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

[Signature]

Temp: °C Bottles Received:

125

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

[Signature]

Date: Time:

4-13-24 0900

Sample Receipt Checklist

COC Seal Present/Intact: ☒ NP ☒ N

COC Signed/Accurate: ☒ N

Bottles arrive intact: ☒ N

Correct bottles used: ☒ N

Sufficient volume sent: ☒ N

If Applicable

VOA Zero Headspace: ☒ N

Preservation Correct/Checked: ☒ N

RAD Screen <0.5 mR/hr: ☒ N

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Analysis / Container / Preservative

Chain of Custody Page 1 of 20

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # L17255661

Table # M150

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: MV 3/19/24

Shipped Via: FedEx Ground

Remarks Sample # (lab only)

ARCHIVE -01

-02

-03

-04

-05

-06

ARCHIVE -07

-08

-09

-10

Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224Report to:
Andrew Bisbee

Project Description:

KING SALVAGE

City/State

Collected: TOLEDO, OR

Please Circle:
PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

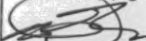
ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):



Rush? (Lab MUST Be Notified)

Same Day ☒ Five DayNext Day ☐ 5 Day (Rad Only)Two Day ☐ 10 Day (Rad Only)Three Day ☐

Quote #

Date Results Needed

No.
of
Cnts

Immediately

Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-4A-2-2

Grab

SS

1-2

4/8/24

1135

1

DU-4A-2-3

Grab

SS

2-3

4/8/24

1138

1

DU-4A-3-1

Grab

SS

0-1

4/8/24

1140

1

DU-4A-3-2

Grab

SS

1-2

4/8/24

1145

1

DU-4A-3-3

Grab

SS

2-3

4/8/24

1148

1

DU-4A-4-1

Grab

SS

0-1

4/8/24

1150

1

DU-4A-4-2

Grab

SS

1-2

4/8/24

1155

1

DU-4A-4-3

Grab

SS

2-3

4/8/24

1158

1

DU-4A-5-1

Grab

SS

0-1

4/8/24

1215

1

DU-4A-5-2

Grab

SS

1-2

4/8/24

1220

1

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - Waste Water
DW - Drinking Water
OT - Other

Remarks: *Client: list metals needed=

Samples returned via:

UPS FedEx Courier

Tracking #

pH Temp

Flow Other

Sample Receipt Checklist

COC Seal Present/Intact: NP ☒ NCOC Signed/Accurate: ☒ Y ☒ NBottles arrive intact: ☒ Y ☒ NCorrect bottles used: ☒ Y ☒ NSufficient volume sent: ☒ Y ☒ N

If Applicable

VOA Zero Headspace: ☒ Y ☒ NPreservation Correct/Checked: ☒ Y ☒ NRAD Screen <0.5 mR/hr: ☒ Y ☒ N

Relinquished by: (Signature)

Date:

4-12-24

Time:

12:00

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH

TBR

Temp: °C Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: Time:

Hold:

Condition:
NCF / OK

4-13-24 0900

*Metals 8ozClr-NoPres

Dioxins/Furans 8290 4ozClr-NoPres

NWTPHDX no SGT 8ozClr-NoPres

PAHs 8270SIM 8ozClr-NoPres

Analysis / Container / Preservative

Chain of Custody Page 2 of 20

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # L17255601

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: MV 3/19/24

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

ARCHIVE -11

-12

-13

-14

-15

-16

-17

-18

-19

-20

V

Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224

Accounts Payable
15618 SW 72nd Ave
Tigard, OR 97224

Report to:
Andrew Bisbee

Email To: Andrew.Bisbee@apexcos.com

Project Description:

KING SALVAGE

City/State

Collected: TOLEDO, OR

Please Circle:
PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):

[Signature]

Rush? (Lab MUST Be Notified)

☐ Same Day ☒ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☐ Three Day

Quote #

Date Results Needed

Immediately

Packed on Ice N ☐ Y ☒

No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
-----------	-----------	----------	-------	------	------	--------------

DU-4B-3-1	Grab	SS	0-1	4/10/24	1140	1
DU-4B-3-2	Grab	SS	1-2	4/10/24	1145	1
DU-4B-3-3	Grab	SS	2-3	4/10/24	1150	1
DU-4B-4-1	Grab	SS	0-1	4/10/24	1205	1
DU-4B-4-2	Grab	SS	1-2	4/10/24	1210	1
DU-4B-4-3	Grab	SS	2-3	4/10/24	1215	1
DU-4B-5-1	Grab	SS	0-1	4/10/24	1220	1
DU-4B-5-2	Grab	SS	1-2	4/10/24	1225	1
DU-4B-5-3	Grab	SS	2-3	4/10/24	1230	1
DU-4B-COMP-1	Comp	SS	0-1	4/10/24	1233	2

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: *Client: list metals needed=

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

Relinquished by: (Signature)

Date:

4-12-24

Time:

12:00

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

Hold:

Condition:
NCF / OK

Analysis / Container / Preservative

Chain of Custody Page 4 of 20

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # L17255661

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: MW 3/19/24

Shipped Via: FedEx Ground

Remarks Sample # (lab only)

ARCHIVE -31
-32
-33
-34
-35
-36
-37
-38
-39
-40

Sample Receipt Checklist

COC Seal Present/Intact: ☒ NP ☐ N
COC Signed/Accurate: ☒ Y ☐ N
Bottles arrive intact: ☒ Y ☐ N
Correct bottles used: ☒ Y ☐ N
Sufficient volume sent: ☒ Y ☐ N
If Applicable
VOA Zero Headspace: ☒ Y ☐ N
Preservation Correct/Checked: ☒ Y ☐ N
RAD Screen <0.5 mR/hr: ☒ Y ☐ N

Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224Report to:
Andrew Bisbee

Project Description:

KING SALVAGE

City/State

Collected: TIGARD, OR

Please Circle:
PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):

Rush? (Lab MUST Be Notified)

Same Day ☒ Five Day
Next Day ☐ 5 Day (Rad Only)
Two Day ☐ 10 Day (Rad Only)
Three Day ☐

Date Results Needed

No.
of
Cntrs

Immediately

Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-4B-comp-2

Comp

SS

1-2

4/10/24

1235

2

DU-4B-comp-3

Comp

SS

2-3

4/10/24

1240

2

DU-4C-1-1

Grab

SS

0-1

4/8/24

1350

1

DU-4C-1-2

Grab

SS

1-2

4/8/24

1355

1

DU-4C-1-3

Grab

SS

2-3

4/8/24

1358

1

DU-4C-2-1

Grab

SS

0-1

4/8/24

1340

1

DU-4C-2-2

Grab

SS

1-2

4/8/24

1345

1

DU-4C-2-3

Grab

SS

2-3

4/8/24

1348

1

DU-4C-3-1

Grab

SS

0-1

4/8/24

1420

1

DU-4C-3-2

Grab

SS

1-2

4/8/24

1425

1

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - Wastewater
DW - Drinking Water
OT - Other

Remarks: *Client: list metals needed=

Samples returned via:

UPS FedEx Courier

Tracking #

Relinquished by: (Signature)

Date:

4-12-24

Time:

12:00

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: Time:

Hold:

Condition:
NCF / OK

Billing Information:

Accounts Payable

15618 SW 72nd Ave

Tigard, OR 97224

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 5 of 20



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # 1725561

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: MV 3/19/24

Shipped Via: FedEx Ground

Remarks Sample # (lab only)

RUN DX, HOLD FOR FOLLOW-UP #1

ARCHIVE -42
-43-44
-45-46
-47-48
-49

-50

Sample Receipt Checklist

COC Seal Present/Intact: ☒ NP
COC Signed/Accurate: ☒
Bottles arrive intact: ☒
Correct bottles used: ☒
Sufficient volume sent: ☒
If Applicable
VOA Zero Headspace: ☒
Preservation Correct/Checked: ☒
RAD Screen <0.5 mR/hr: ☒

Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224

Report to:
Andrew Bisbee

Project Description:
KING SALVAGE

City/State
Collected: **TOLDO, OR**

Please Circle:
PT MT CT ET

Phone: **503-924-4704**

Client Project #
32-23010077

Lab Project #
ASHCREPOR-BISBEE

Collected by (print):
ANDREW BISBEE

Site/Facility ID #

P.O. #
32-23010077

Collected by (signature):

Rush? (Lab MUST Be Notified)

☐ Same Day ☒ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☐ Three Day

Quote #

Date Results Needed

Immediately
Packed on Ice N ☐ Y ☒

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
-----------	-----------	----------	-------	------	------	--------------

DJ-4C-3-3	Grab	SS	2-3	4/8/24	1428	1
DJ-4C-4-1	Grab	SS	0-1	4/8/24	1445	1
DJ-4C-4-2	Grab	SS	1-2	4/8/24	1450	1
DJ-4C-4-3	Grab	SS	2-3	4/8/24	1453	1
DJ-4C-5-1	Grab	SS	0-1	4/8/24	1430	1
DJ-4C-5-2	Grab	SS	1-2	4/8/24	1435	1
DJ-4C-5-3	Grab	SS	2-3	4/8/24	1438	1
DJ-4C-COMP-1	COMP	SS	0-1	4/8/24	1500	2
DJ-4C-COMP-2	COMP	SS	1-2	4/8/24	1505	2
DJ-4C-COM-3	COMP	SS	2-3	4/8/24	1515	2

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: *Client: list metals needed=

Samples returned via:
☐ UPS ☐ FedEx ☐ Courier

Tracking #

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received: Yes / No

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: Time:

Hold:

Condition:
NCF / OK

Billing Information:

Accounts Payable
15618 SW 72nd Ave
Tigard, OR 97224

Email To: Andrew.Bisbee@apexcos.com

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 6 of 20



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # **L17255661**

Table #

Acctnum: **ASHCREPOR**

Template: **T249306**

Prelogin: **P1063626**

PM: **110 - Brian Ford**

PB: **MV 3/19/24**

Shipped Via: **FedEX Ground**

Remarks Sample # (lab only)

ARCHIVE -51

↓ -52

-53

ARCHIVE -54

↓ -55

-56

↓ -57

-58

BUN DX, HOLD FOR 59

↓ FOLLOWUP -60

Sample Receipt Checklist

COC Seal Present/Intact: ☒ NP ☐ N

COC Signed/Accurate: ☒ Y ☐ N

Bottles arrive intact: ☒ Y ☐ N

Correct bottles used: ☒ Y ☐ N

Sufficient volume sent: ☒ Y ☐ N

If Applicable

VOA Zero Headspace: ☒ Y ☐ N

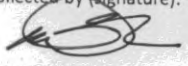
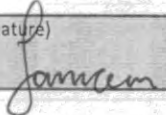
Preservation Correct/Checked: ☒ Y ☐ N

RAD Screen <0.5 mR/hr: ☒ Y ☐ N

Janice

4-13-24

0900

Company Name/Address: Apex Companies, LLC - Portland, OR 15618 SW 72nd Ave Tigard, OR 97224		Billing Information: Accounts Payable 15618 SW 72nd Ave Tigard, OR 97224		Pres Chk		Analysis / Container / Preservative										Chain of Custody Page 2 of 20			
Report to: Andrew Bisbee		Email To: Andrew.Bisbee@apexcos.com														 MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf			
Project Description: KING SALVAGE		City/State Collected: TOLSON, OR		Please Circle: PT MT CT ET															
Phone: 503-924-4704		Client Project # 32-23010071		Lab Project # ASHCREPOR-BISBEE															
Collected by (print): ANDREW BISBEE		Site/Facility ID #		P.O. # 32-23010071															
Collected by (signature): 		Rush? (Lab MUST Be Notified) ☐ Same Day ☒ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote #															
Immediately Packed on Ice N ☐ Y ☒				Date Results Needed															
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs												
DU-40-1-1		Grab	SS	0-1	4/9/24	1555	1												
DU-40-1-2		Grab	SS	1-2	4/9/24	1600	1												
DU-40-1-3		Grab	SS	2-3	4/9/24	1603	1												
DU-40-2-1		Grab	SS	0-1	4/8/24	1315	1												
DU-40-2-2		Grab	SS	1-2	4/8/24	1320	1												
DU-40-2-3		Grab	SS	2-3	4/8/24	1323	1												
DU-40-3-1		Grab	SS	0-1	4/9/24	1615	1												
DU-40-3-2		Grab	SS	1-2	4/9/24	1620	1												
DU-40-3-3		Grab	SS	2-3	4/9/24	1623	1												
DU-40-4-1		Grab	SS	0-1	4/9/24	1605	1												
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: *Client: list metals needed=		pH _____ Temp _____ Flow _____ Other _____															
Samples returned via: ___ UPS ___ FedEx ___ Courier		Tracking #																	
Relinquished by: (Signature) 		Date: 4-12-24	Time: 12:00	Received by: (Signature)		Trip Blank Received: Yes / No HCL / MeOH TBR													
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Temp: °C Bottles Received:												If preservation required by Login: Date/Time	
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature) 		Date: 4-13-24 Time: 0900												Hold: Condition: NCF / OK	

Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224

Report to:
Andrew Bisbee

Project Description:
KING SALVAGE

Phone: **503-924-4704**

Collected by (print):
ANDREW BISBEE

Collected by (signature):

Immediately
Packed on Ice N ☐ Y ☒

Billing Information:

Accounts Payable
15618 SW 72nd Ave
Tigard, OR 97224

Email To: **Andrew.Bisbee@apexcos.com**

City/State
Collected: **TIGARD, OR**

Please Circle:
PT MT CT ET

Client Project #
32-23010077

Lab Project #
ASHCREPOR-BISBEE

Site/Facility ID #

P.O. #

32-23010077

Rush? (Lab MUST Be Notified)

Same Day ☒ Five Day ☐
Next Day ☐ 5 Day (Rad Only) ☐
Two Day ☐ 10 Day (Rad Only) ☐
Three Day ☐

Quote #

Date Results Needed

No.
of
Cntrs

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

No.
of
Cntrs

DV-40-4-2	Grab	SS	1-2	4/9/24	1610	1
DV-40-4-3	Grab	SS	2-3	4/9/24	1613	1
DV-40-5-1	Grab	SS	0-1	4/9/24	1625	1
DV-40-5-2	Grab	SS	1-2	4/9/24	1630	1
DV-40-5-3	Grab	SS	2-3	4/9/24	1633	1
DV-40-COMP-1	COMP	SS	0-1	4/9/24	1635	2
DV-40-COMP-2	COMP	SS	1-2	4/9/24	1640	2
DV-40-COMP-3	COMP	SS	2-3	4/9/24	1645	2
DV-4E-1-1	Grab	SS	0-1	4/8/24	1540	1
DV-4E-1-2	Grab	SS	1-2	4/8/24	1545	1

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: *Client: list metals needed=

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact: ☒ NP ☐ N
COC Signed/Accurate: ☒ Y ☐ N
Bottles arrive intact: ☒ Y ☐ N
Correct bottles used: ☒ Y ☐ N
Sufficient volume sent: ☒ Y ☐ N
If Applicable
VOA Zero Headspace: ☒ Y ☐ N
Preservation Correct/Checked: ☒ Y ☐ N
RAD Screen <0.5 mR/hr: ☒ Y ☐ N

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: Time:

Hold:

Condition:
NCF / OK

Analysis / Container / Preservative

Chain of Custody Page 8 of 20



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # **L172564**

Table #

Accnum: **ASHCREPOR**

Template: **T249306**

Prelogin: **P1063626**

PM: **110 - Brian Ford**

PB: **MV 3/19/24**

Shipped Via: **FedEX Ground**

Remarks Sample # (lab only)

ARCHIVE -71
-72
-73
-74
-75
-76
RUN DX, HOLD FOR FOLLOW-UP -77
-78
ARCHIVE -79
-80

*Metals 8ozClr-NoPres

Dioxins/Furans 8290 4ozClr-NoPres

NWTPHDX no SGT 8ozClr-NoPres

PAHs 8270SIM 8ozClr-NoPres

Janice 4-13-24 0900

Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224Report to:
Andrew Bisbee

Project Description:

KING SALVAGE

City/State

Collected: TOLEDO, OR

Please Circle:
PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):

[Signature]

Rush? (Lab MUST Be Notified)

☐ Same Day ☒ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☐ Three Day

Quote #

Date Results Needed

No.
of
Cntrs

Immediately

Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-4E-1-3

Grab

SS

2-3

4/8/24

1548

1

DU-4E-2-1

Grab

SS

0-1

4/8/24

1530

1

DU-4E-2-2

Grab

SS

1-2

4/8/24

1535

1

DU-4E-2-3

Grab

SS

2-3

4/8/24

1538

1

DU-4E-3-1

Grab

SS

0-1

4/8/24

1555

1

DU-4E-3-2

Grab

SS

1-2

4/8/24

1600

1

DU-4E-3-3

Grab

SS

2-3

4/8/24

1603

1

DU-4E-4-1

Grab

SS

0-1

4/8/24

1605

1

DU-4E-4-2

Grab

SS

1-2

4/8/24

1610

1

DU-4E-4-3

Grab

SS

2-3

4/8/24

1613

1

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: *Client: list metals needed=

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact: ☒ NP ☐ N
COC Signed/Accurate: ☒ N
Bottles arrive intact: ☒ N
Correct bottles used: ☒ N
Sufficient volume sent: ☒ N
If Applicable
VOA Zero Headspace: ☐ Y ☒ N
Preservation Correct/Checked: ☐ Y ☒ N
RAD Screen <0.5 mR/hr: ☐ Y ☒ N

Relinquished by: (Signature)

[Signature]

Date:

4-12-24

Time:

12:00

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: Time:

Hold:

Condition:
NCF / OK

Billing Information:

Accounts Payable
15618 SW 72nd Ave
Tigard, OR 97224Pres
Chk

Email To: Andrew.Bisbee@apexcos.com

Analysis / Container / Preservative

Chain of Custody Page 7 of 20



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # L1725561

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: MV 3/19/24

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

ARCHIVE -81

-82

-83

-84

-85

-86

-87

-88

-89

ARCHIVE -90

Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224Report to:
Andrew Bisbee

Project Description:

KING SAVANNAH

City/State

Collected: TOLEDO, OR

Please Circle:
PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):

[Signature]

Rush? (Lab MUST Be Notified)

Same Day ☒ Five Day
Next Day ☐ 5 Day (Rad Only)
Two Day ☐ 10 Day (Rad Only)
Three Day ☐ STANDARD

Quote #

Date Results Needed

No.
of
Cntrs

Immediately

Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-4E-5-1

Grab

SS

0-1

4/8/24

1615

1

DU-4E-5-2

Grab

SS

1-2

4/8/24

1620

1

DU-4E-5-3

Grab

SS

2-3

4/8/24

1623

1

DU-4E-COMP-1

COMP

SS

0-1

4/8/24

1625

2

DU-4E-COMP-2

COMP

SS

1-2

4/8/24

1630

2

DU-4E-COMP-3

COMP

SS

2-3

4/8/24

1635

2

DU-4F-1-1

Grab

SS

0-1

4/9/24

820

1

DU-4F-1-2

Grab

SS

1-2

4/9/24

825

1

DU-4F-1-3

Grab

SS

2-3

4/9/24

828

1

DU-4F-2-1

Grab

SS

0-1

4/9/24

830

1

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: *Client: list metals needed=

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact: ☒ NP ☐ N
COC Signed/Accurate: ☒ ☐ N
Bottles arrive intact: ☒ ☐ N
Correct bottles used: ☒ ☐ N
Sufficient volume sent: ☒ ☐ N
If Applicable
VOA Zero Headspace: ☐ Y ☒ N
Preservation Correct/Checked: ☐ Y ☒ N
RAD Screen <0.5 mR/hr: ☒ ☐ N

Relinquished by: (Signature)

Date:

4-12-24

Time:

12:00

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH

TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: _____ °C Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: _____ Time: _____

Hold:

Condition:

NCF / OK

Analysis / Container / Preservative

Chain of Custody Page 12 of 20

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # LIT25501

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: MV 3/19/24

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

ARCHIVE -91

↓ -92

↓ -93

↓ -94

RUN IN, HOLD FOR 245

FOLLOW UP

↓ -96

ARCHIVE -97

↓ -98

↓ -99

↓ -100

Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224Report to:
Andrew Bisbee

Project Description:

KING SALVAGE

City/State

Collected: TOLEDO, OR

Please Circle:
PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):



Rush? (Lab MUST Be Notified)

___ Same Day ☒ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day STANDARD

Date Results Needed

No.
of
Cntrs

Immediately

Packed on Ice N Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-4F-2-2

Grab

SS

1-2

4/9/24

835

1

DU-4F-2-3

Grab

SS

2-3

4/9/24

838

1

DU-4F-3-1

Grab

SS

0-1

4/9/24

845

1

DU-4F-3-2

Grab

SS

1-2

4/9/24

850

1

DU-4F-3-3

Grab

SS

2-3

4/9/24

853

1

DU-4F-4-1

Grab

SS

0-1

4/9/24

900

1

DU-4F-4-2

Grab

SS

1-2

4/9/24

905

1

DU-4F-4-3

Grab

SS

2-3

4/9/24

908

1

DU-4F-5-1

Grab

SS

0-1

4/9/24

920

1

DU-4F-5-2

Grab

SS

1-2

4/9/24

925

1

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: *Client: list metals needed=

Samples returned via:

___ UPS ___ FedEx ___ Courier

Tracking #

pH ___ Temp ___

Flow ___ Other ___

Sample Receipt Checklist

COC Seal Present/Intact: ☒ NP ☒ N
COC Signed/Accurate: ☒ Y ☒ N
Bottles arrive intact: ☒ Y ☒ N
Correct bottles used: ☒ Y ☒ N
Sufficient volume sent: ☒ Y ☒ N
If Applicable
VOA Zero Headspace: ☒ Y ☒ N
Preservation Correct/Checked: ☒ Y ☒ N
RAD Screen <0.5 mR/hr: ☒ Y ☒ N

Relinquished by: (Signature)



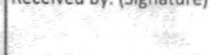
Date:

4-12-24

Time:

12:00

Received by: (Signature)



Trip Blank Received: Yes / No

HCL / MeOH
TBR

Temp: °C Bottles Received:

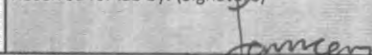
If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)



Date:

4-13-24

Time:

0900

Hold:

Condition:
NCF ☒ OK

Analysis / Container / Preservative

Chain of Custody Page 1 of 20


PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # L175561

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: MV 3/19/24

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

ARCHIVE -101

-102

-103

-104

-105

-106

-107

-108

-109

-110

Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224Report to:
Andrew Bisbee

Project Description:

KING SALVAGE

City/State

Collected: TOLEDO, OR

Please Circle:
PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):



Rush? (Lab MUST Be Notified)

☐ Same Day ☒ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☐ Three Day ☒ STANDARD

Quote #

Date Results Needed

No.
of
Cntrs

Immediately

Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-4F-5-3

Grab

SS

2-3

4/9/24

908

1

DU-4F-COMP-1

COMP

SS

0-1

4/9/24

9230

2

DU-4F-COMP-2

COMP

SS

1-2

4/9/24

935

2

DU-4F-COMP-3

COMP

SS

2-3

4/9/24

940

2

DU-4G-1-1

Grab

SS

0-1

4/9/24

1010

1

DU-4G-1-2

Grab

SS

1-2

4/9/24

1015

1

DU-4G-1-3

Grab

SS

2-3

4/9/24

1018

1

DU-4G-2-1

Grab

SS

0-1

4/9/24

1000

1

DU-4G-2-2

Grab

SS

1-2

4/9/24

1005

1

DU-4G-2-3

Grab

SS

2-3

4/9/24

1008

1

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: *Client: list metals needed=

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

Relinquished by: (Signature)



Date:

4-12-24

Time:

12:00

Received by: (Signature)



Trip Blank Received: Yes / No

HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: Time:

Hold:

Condition:
NCF / OK

Analysis / Container / Preservative

Chain of Custody Page 12 of 20


PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # 4725501

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: MV 3/19/24

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

ARCHIVE -111

-112

BUN DX, HOLD FOR FOLLOW-UP 13

-114

ARCHIVE -115

-116

-117

-118

-119

-120

Sample Receipt Checklist

COC Seal Present/Intact: ☒ NP ☐ N
COC Signed/Accurate: ☒ ☐ N
Bottles arrive intact: ☒ ☐ N
Correct bottles used: ☒ ☐ N
Sufficient volume sent: ☒ ☐ N

If Applicable

VOA Zero Headspace: ☐ Y ☒ N
Preservation Correct/Checked: ☐ Y ☒ N
RAD Screen <0.5 mR/hr: ☐ Y ☒ N

Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224Report to:
Andrew Bisbee

Project Description:

KING SAWAGE

City/State

Collected: TOLEDO, OR

Please Circle:
PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):

[Signature]

Rush? (Lab MUST Be Notified)

Same Day ☒ Five DayNext Day ☐ 5 Day (Rad Only)Two Day ☐ 10 Day (Rad Only)Three Day ☐ STANDARD

Date Results Needed

No.
of
Cntrs

Immediately

Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-46-3-1

Grab

SS

0-1

4/9/24

1040

1

DU-46-3-2

Grab

SS

1-2

4/9/24

1045

1

DU-46-3-3

Grab

SS

2-3

4/9/24

1048

1

DU-46-4-1

Grab

SS

0-1

4/9/24

1150

1

DU-46-4-2

Grab

SS

1-2

4/9/24

1155

1

DU-46-4-3

Grab

SS

2-3

4/9/24

1158

1

DU-46-5-1

Grab

SS

0-1

4/9/24

1100

1

DU-46-5-2

Grab

SS

1-2

4/9/24

1105

1

DU-46-5-3

Grab

SS

2-3

4/9/24

1108

1

DU-46-COMP-1

COMP

SS

0-1

4/9/24

1200

2

X

X

X

X

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: *Client: list metals needed=

Samples returned via:

UPS FedEx Courier

Tracking #

Relinquished by: (Signature)

Date:

4-12-24

Time:

12:00

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH

TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C

Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

Hold:

Condition:
NCF / OK

Analysis / Container / Preservative

Chain of Custody Page 13 of 20



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # 11725561

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: MV 3/19/24

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

ARCHIVE -121

-122

-123

-124

-125

-126

-127

-128

-129

-130

Sample Receipt Checklist

COC Seal Present/Intact: NP ☒ NCOC Signed/Accurate: ☒ NBottles arrive intact: ☒ NCorrect bottles used: ☒ NSufficient volume sent: ☒ N

If Applicable

VOA Zero Headspace: ☒ NPreservation Correct/Checked: ☒ NRAD Screen <0.5 mR/hr: ☒ N

Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224Report to:
Andrew Bisbee

Project Description:

KING SALVAGE

City/State

Collected: TIGARD, OR

Please Circle:
PT MT CT ET

Phone: 503-924-4704

Client Project #

32-2300077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

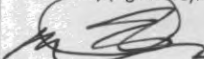
ANDREW BISBEE

Site/Facility ID #

P.O. #

32-2300077

Collected by (signature):



Rush? (Lab MUST Be Notified)

☐ Same Day ☒ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☐ Three Day

Quote #

Date Results Needed

No.
of
Cntrs

Immediately

Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-46-COMP-2	COMP	SS	1-2	4/9/24	1205	2
DU-46-COMP-3	COMP	SS	2-3	4/9/24	1210	2
DU-4H-1-1	Grab	SS	0-1	4/9/24	1300	1
DU-4H-1-2	Grab	SS	1-2	4/9/24	1305	1
DU-4H-1-3	Grab	SS	2-3	4/9/24	1308	1
DU-4H-2-1	Grab	SS	0-1	4/9/24	1240	1
DU-4H-2-2	Grab	SS	1-2	4/9/24	1245	1
DU-4H-2-3	Grab	SS	2-3	4/9/24	1248	1
DU-4H-3-1	Grab	SS	0-1	4/9/24	1250	1
DU-4H-3-2	Grab	SS	1-2	4/9/24	1255	1

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: *Client: list metals needed=

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

Relinquished by: (Signature)



Date:

A-12-2A

Time:

12:00

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C

Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

Hold:

Condition:
NCF / OK

Billing Information:

Accounts Payable
15618 SW 72nd Ave
Tigard, OR 97224Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 14 of 20



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # LITNESSOLD

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: MV 3/19/24

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

DUN Dx, Hold for Follow-up -131

↓ -132

ARCHIVE -133

↓ -134

↓ -135

↓ -136

↓ -137

↓ -138

↓ -139

↓ -140

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y	N
COC Signed/Accurate:		Y	N
Bottles arrive intact:		Y	N
Correct bottles used:		Y	N
Sufficient volume sent:		Y	N
If Applicable			
VOA Zero Headspace:		Y	N
Preservation Correct/Checked:		Y	N
RAD Screen <0.5 mR/hr:		Y	N

Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224

Report to:
Andrew Bisbee

Project Description:

KING SALVAGE

City/State

Collected: TOLEDO, OR

Please Circle:
PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):

[Signature]

Rush? (Lab MUST Be Notified)

Same Day ☒ Five Day
Next Day ☐ 5 Day (Rad Only)
Two Day ☐ 10 Day (Rad Only)
Three Day ☐ STANDARD

Quote #

Date Results Needed

No.
of
Cntrs

Immediately

Packed on Ice N ☒ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DV-4H-3-3

Grab

SS

2-3

4/9/24

1258

1

DV-4H-4-1

Grab

SS

0-1

4/9/24

1325

1

DV-4H-4-2

Grab

SS

1-2

4/9/24

1330

1

DV-4H-4-3

Grab

SS

2-3

4/9/24

1333

1

DV-4H-5-1

Grab

SS

0-1

4/9/24

1340

1

DV-4H-5-2

Grab

SS

1-2

4/9/24

1345

1

DV-4H-5-3

Grab

SS

2-3

4/9/24

1348

1

DV-4H-COMP-1

comp

SS

0-1

4/9/24

1350

2

DV-4H-COMP-2

comp

SS

1-2

4/9/24

1355

2

DV-4H-COMP-3

comp

SS

2-3

4/9/24

1400

2

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: *Client: list metals needed=

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

Relinquished by: (Signature)

[Signature]

Date:

4-12-24

Time:

12:00

Received by: (Signature)

[Signature]

Trip Blank Received: Yes / No

HCL / MeOH
TBR

Temp: °C

Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

[Signature]

Date:

4-13-24

Time:

0900

Hold:

Condition:

NCF / OK

Analysis / Container / Preservative

Chain of Custody Page 2 of 20

Pres
Chk



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
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constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # 1725561

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: MV 3/19/24

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

ARCHIVE -141

-142

-143

-144

-145

-146

-147

-148

RUN Dx, HOLD FOR 149
FOLLOW-UP -150

Sample Receipt Checklist

COC Seal Present/Intact: ☒ NP ☐ N
COC Signed/Accurate: ☒ ☐ N
Bottles arrive intact: ☒ ☐ N
Correct bottles used: ☒ ☐ N
Sufficient volume sent: ☒ ☐ N
If Applicable
VOA Zero Headspace: ☒ Y ☐ N
Preservation Correct/Checked: ☒ Y ☐ N
RAD Screen <0.5 mR/hr: ☒ ☐ N

Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224

Billing Information:

Accounts Payable
15618 SW 72nd Ave
Tigard, OR 97224Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 16 of 20

Report to:
Andrew Bisbee

Email To: Andrew.Bisbee@apexcos.com

Project Description:

KING SALVAGE

City/State

Collected: TIGARD, OR

Please Circle:
PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):



Rush? (Lab MUST Be Notified)

☒ Same Day ☒ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☐ Three Day ☒ STANDARD

Quote #

Date Results Needed

No.
of
Cntrs

Immediately

Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

No.
of
Cntrs

DU-4I-1-1

Grab

SS

0-1

4/9/24

1430

1

DU-4I-1-2

Grab

SS

1-2

4/9/24

1435

1

DU-4I-1-3

Grab

SS

2-3

4/9/24

1438

1

DU-4I-2-1

Grab

SS

0-1

4/9/24

1440

1

DU-4I-2-2

Grab

SS

1-2

4/9/24

1445

1

DU-4I-2-3

Grab

SS

2-3

4/9/24

1448

1

DU-4I-3-1

Grab

SS

0-1

4/9/24

1500

1

DU-4I-3-2

Grab

SS

1-2

4/9/24

1505

1

DU-4I-3-3

Grab

SS

2-3

4/9/24

1508

1

DU-4I-4-1

Grab

SS

0-1

4/9/24

1420

1

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: *Client: list metals needed=

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

Relinquished by: (Signature)

Date:

4-12-24

Time:

12:00

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: Time:

Hold:

Condition:
NCF / OKPace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # L1725561

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: MV 3/19/24

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

ARCHIVE -151

-152

-153

-154

-155

-156

-157

-158

-159

-160

Sample Receipt Checklist

COC Seal Present/Intact: ☒ NP ☐ Y ☐ NCOC Signed/Accurate: ☒ ☐ NBottles arrive intact: ☒ ☐ NCorrect bottles used: ☒ ☐ NSufficient volume sent: ☒ ☐ N

If Applicable

VOA Zero Headspace: ☒ Y ☐ NPreservation Correct/Checked: ☒ Y ☐ NRAD Screen <0.5 mR/hr: ☒ Y ☐ N

Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224Report to:
Andrew Bisbee

Project Description:

KING SALVAGE

City/State

Collected: TIGARD, OR

Please Circle:
PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):



Rush? (Lab MUST Be Notified)

Same Day ☒ Five Day
Next Day ☐ 5 Day (Rad Only)
Two Day ☐ 10 Day (Rad Only)
Three Day ☐ STANDARD

Quote #

Date Results Needed

No.
of
Cntrs

Immediately

Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-4I-4-2

Grab

SS

1-2

4/9/24

1425

1

DU-4I-4-3

Grab

SS

2-3

4/9/24

1428

1

DU-4I-5-1

Grab

SS

0-1

4/9/24

1510

1

DU-4I-5-2

Grab

SS

1-2

4/9/24

1515

1

DU-4I-5-3

Grab

SS

2-3

4/9/24

1518

1

DU-4I-COMP-1

COMP

SS

0-1

4/9/24

1520

2

DU-4I-COMP-2

COMP

SS

1-2

4/9/24

1525

2

DU-4I-COMP-3

COMP

SS

2-3

4/9/24

1535

2

DU-5-SS-1

Grab

SS

0.05

4/10/24

1415

1

DU-5-SS-2

Grab

SS

0.05

4/10/24

1420

1

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

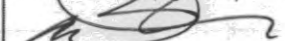
Remarks: *Client: list metals needed=

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

Relinquished by: (Signature)



Date:

4-12-24

Time:

12:00

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C

Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

Hold:

Condition:
NCF / OK

Billing information:

Accounts Payable
15618 SW 72nd Ave
Tigard, OR 97224Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 17 of 20



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # L1725561

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: mv 3/19/24

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

ARCHIVE -161

-162

-163

-164

-165

-166

RUN DX HOLD FOR 16

-168

ARCHIVE -169

-170

Sample Receipt Checklist

COC Seal Present/Intact: ☒ NP ☐ NCOC Signed/Accurate: ☒ ☐ NBottles arrive intact: ☒ ☐ NCorrect bottles used: ☒ ☐ NSufficient volume sent: ☒ ☐ N

If Applicable

VOA Zero Headspace: ☐ Y ☒ NPreservation Correct/Checked: ☐ Y ☒ NRAD Screen <0.5 mR/hr: ☒ ☐ N

Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224Accounts Payable
15618 SW 72nd Ave
Tigard, OR 97224Report to:
Andrew Bisbee

Email To: Andrew.Bisbee@apexcos.com

Project Description:

KING SAWAGE

City/State

Collected: TOBEDO, OR

Please Circle:
PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):

Rush? (Lab MUST Be Notified)

☐ Same Day ☒ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☐ Three Day

Date Results Needed

No.
of
Cntrs

Immediately

Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-5-SS-3

Grab

SS

0-0.5

4/10/24

1425

1

DU-5-SS-4

Grab

SS

0-0.5

4/10/24

1430

1

DU-5-SS-5

Grab

SS

0-0.5

4/10/24

1435

1

DU-5-SS-COMP-1

COMP

SS

0-0.5

4/10/24

1440

2

X

X

X

X

DU-6-1-1

Grab

SS

0-1

4/10/24

900

1

DU-6-1-2

Grab

SS

1-2

4/10/24

905

1

DU-6-1-5

Grab

SS

2-5

4/10/24

908

1

DU-6-2-1

Grab

SS

0-1

4/10/24

920

1

DU-6-2-2

Grab

SS

1-2

4/10/24

925

1

DU-6-2-5

Grab

SS

2-5

4/10/24

928

1

* Matrix:

SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks: *Client: list metals needed=

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

Relinquished by: (Signature)

Date:

4-12-24

Time:

12:00

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH

TBR

Temp: °C

Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

Hold:

Condition:

NCF ☒ OK

Analysis / Container / Preservative

Chain of Custody Page 18 of 20

PEOPLE ADVANCING SCIENCE

MT JULIET, TN

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 Submitting a sample via this chain of custody
 constitutes acknowledgment and acceptance of the
 Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # U775561

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: MV 3/19/24

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

ARCHIVE -171

↓ -172

↓ -173

↓ -174

ARCHIVE -175

↓ -176

↓ -177

↓ -178

↓ -179

↓ -180

Sample Receipt Checklist

COC Seal Present/Intact: ☒ NP ☐ NCOC Signed/Accurate: ☒ ☐ NBottles arrive intact: ☒ ☐ NCorrect bottles used: ☒ ☐ NSufficient volume sent: ☒ ☐ N

If Applicable

VOA Zero Headspace: ☒ ☐ NPreservation Correct/Checked: ☒ ☐ NRAD Screen <0.5 mR/hr: ☒ ☐ N

Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224Accounts Payable
15618 SW 72nd Ave
Tigard, OR 97224Pres
ChkReport to:
Andrew Bisbee

Email To: Andrew.Bisbee@apexcos.com

Project Description:

KING SAWAGE

City/State

Collected: TIGARD, OR

Please Circle:
PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):

Rush? (Lab MUST Be Notified)

Same Day ☒ Five Day
Next Day ☐ 5 Day (Rad Only)
Two Day ☐ 10 Day (Rad Only)
Three Day ☐

Quote #

Date Results Needed

STANDARD

Immediately

Packed on Ice N ☐ Y ☒

No. of

Cntrs

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-6-3-1	Grab	SS	0-1	4/10/24	935	1
DU-6-3-2	Grab	SS	1-2	4/10/24	940	1
DU-6-3-5	Grab	SS	2-5	4/10/24	943	1
DU-6-COMP-1	COMP	SS	0-1	4/10/24	950	2
DU-6-COMP-2	COMP	SS	1-2	4/10/24	1000	2
DU-6-COMP-5	COMP	SS	2-5	4/10/24	1010	2
DU-6-SS-1	Grab	SS	0-0.5	4/10/24	1305	1
DU-6-SS-2	Grab	SS	0-0.5	4/10/24	1310	1
DU-6-SS-3	Grab	SS	0-0.5	4/10/24	1315	1
DU-6-SS-4	Grab	SS	0-0.5	4/10/24	1320	1

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: *Client: list metals needed=

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

Relinquished by: (Signature)

Date:

A-12-2A

Time:

12:00

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C

Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

Hold:

Condition:
NCF / OK

Analysis / Container / Preservative

Chain of Custody Page 11 of 20



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # L1725561

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: MV 3/19/24

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

ARCHIVE -181

-182

-183

-184

RWS dx, Hold for

-186

ARCHIVE -187

-188

-189

-190

Sample Receipt Checklist

COC Seal Present/Intact: ☒ NP ☐ N
COC Signed/Accurate: ☒ ☐ N
Bottles arrive intact: ☒ ☐ N
Correct bottles used: ☒ ☐ N
Sufficient volume sent: ☒ ☐ N
If Applicable
VOA Zero Headspace: ☒ Y ☐ N
Preservation Correct/Checked: ☒ Y ☐ N
RAD Screen <0.5 mR/hr: ☒ ☐ N

Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224

Report to:
Andrew Bisbee

Project Description:

KING SAWAGE

City/State

Collected: TIGARD, OR

Please Circle:
PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):

[Signature]

Rush? (Lab MUST Be Notified)

Same Day ☒ Five Day
Next Day ☐ 5 Day (Rad Only)
Two Day ☐ 10 Day (Rad Only)
Three Day ☐

Quote #

Date Results Needed

No.
of
Cntrs

Immediately

Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-46-3-3 OL

Grab

SS

4/8/24 1428

1

DU-46-5-1 OL

SS

DU-46-5-2 OL

SS

DU-46-5-3 OL

SS

DU-6-SS-5

Grab

SS

0-0.5

4/10/24

1325

1

DU-6-SS-COMP-1

COMP

SS

0-0.5

4/10/24

1330

2

IDW

COMP

SS

0-5

4/10/24

1400

2

SS

SS

SS

SS

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - Waste Water
DW - Drinking Water
OT - Other

Remarks: *Client: list metals needed=

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

pH Temp

Flow Other

Sample Receipt Checklist

COC Seal Present/Intact: ☒ NP ☐ N
COC Signed/Accurate: ☒ ☐ N
Bottles arrive intact: ☒ ☐ N
Correct bottles used: ☒ ☐ N
Sufficient volume sent: ☒ ☐ N
If Applicable
VOA Zero Headspace: ☐ Y ☒ N
Preservation Correct/Checked: ☐ Y ☒ N
RAD Screen <0.5 mR/hr: ☒ ☐ N

Relinquished by: (Signature)

[Signature]

Date:

4-12-24

Time:

12:00

Received by: (Signature)

[Signature]

Trip Blank Received: Yes / No

HCL/MeOH
TBR

Temp: °C Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

[Signature]

Date: Time:

4-13-24 0900

Hold:

Condition:

NCF / OK

Analysis / Container / Preservative

Chain of Custody Page 20 of 20

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # L17255201

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: M/V 3/19/24

Shipped Via: FedEx Ground

Remarks Sample # (lab only)

ARCHIVE-191

-192

RUN METALS/HCLD
HOLD FOR FOLLOW-UP

U725661

Tracking Numbers	DPAT Temperature
7320 9668 3780	0.4 + 0.1 = 0.5
7320 9668 3840	5.5 + 0.1 = 5.6
7320 9668 3872	5.5 + 0.1 = 5.6
7320 9668 3861	0.2 + 0.1 = 0.3
7320 9668 3839	2.6 + 0.1 = 2.7
7320 9668 3806	0.1 + 0.1 = 0.2
7320 9668 3850	1.2 + 0.1 = 1.3
7320 9668 3770	3.2 + 0.1 = 3.3
7320 9668 3791	0.3 + 0.1 = 0.4
7320 9668 3828	1.3 + 0.1 = 1.4
7320 9668 3817	5.5 + 0.1 = 5.6

Name

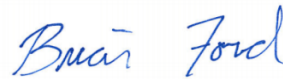
Date

Oregon Dept. of Env. Quality - ODEQ

Sample Delivery Group: L1725562
Samples Received: 04/13/2024
Project Number: 32-23010077
Description: King Salvage

Report To: Andrew Bisbee

Entire Report Reviewed By:



Brian Ford
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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		⁷ Sc

SAMPLE SUMMARY

DU-3-SS-COMP-1 L1725562-01 Solid

Collected by
Andrew Bisbee

Collected date/time
04/10/24 13:45

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2267310	1	04/26/24 00:00	04/26/24 00:00	-	Minneapolis, MN 55414

DU-4A-COMP-1 L1725562-02 Solid

Collected by
Andrew Bisbee

Collected date/time
04/08/24 12:30

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2267310	1	04/26/24 00:00	04/26/24 00:00	-	Minneapolis, MN 55414

DU-4B-COMP-1 L1725562-03 Solid

Collected by
Andrew Bisbee

Collected date/time
04/10/24 12:33

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2267310	1	04/26/24 00:00	04/26/24 00:00	-	Minneapolis, MN 55414

DU-4C-COMP-1 L1725562-04 Solid

Collected by
Andrew Bisbee

Collected date/time
04/08/24 15:00

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2267310	1	04/26/24 00:00	04/26/24 00:00	-	Minneapolis, MN 55414

DU-4D-COMP-1 L1725562-05 Solid

Collected by
Andrew Bisbee

Collected date/time
04/09/24 16:35

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2267310	1	04/26/24 00:00	04/26/24 00:00	-	Minneapolis, MN 55414

DU-4E-COMP-1 L1725562-06 Solid

Collected by
Andrew Bisbee

Collected date/time
04/08/24 16:25

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2267310	1	04/26/24 00:00	04/26/24 00:00	-	Minneapolis, MN 55414

DU-4F-COMP-1 L1725562-07 Solid

Collected by
Andrew Bisbee

Collected date/time
04/09/24 09:30

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2267310	1	04/26/24 00:00	04/26/24 00:00	-	Minneapolis, MN 55414

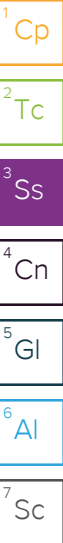
DU-4G-COMP-1 L1725562-08 Solid

Collected by
Andrew Bisbee

Collected date/time
04/09/24 12:00

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2267310	1	04/26/24 00:00	04/26/24 00:00	-	Minneapolis, MN 55414



SAMPLE SUMMARY

DU-4H-COMP-1 L1725562-09 Solid

Collected by
Andrew Bisbee

Collected date/time
04/09/24 13:50

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2267310	1	04/26/24 00:00	04/26/24 00:00	-	Minneapolis, MN 55414

DU-4I-COMP-1 L1725562-10 Solid

Collected by
Andrew Bisbee

Collected date/time
04/09/24 15:20

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2267310	1	04/26/24 00:00	04/26/24 00:00	-	Minneapolis, MN 55414

DU-5-SS-COMP-1 L1725562-11 Solid

Collected by
Andrew Bisbee

Collected date/time
04/10/24 14:40

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2267310	1	04/26/24 00:00	04/26/24 00:00	-	Minneapolis, MN 55414

DU-6-COMP-1 L1725562-12 Solid

Collected by
Andrew Bisbee

Collected date/time
04/10/24 09:50

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2267310	1	04/26/24 00:00	04/26/24 00:00	-	Minneapolis, MN 55414

DU-6-SS-COMP-1 L1725562-13 Solid

Collected by
Andrew Bisbee

Collected date/time
04/10/24 13:30

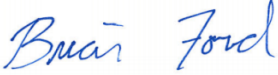
Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2267310	1	04/26/24 00:00	04/26/24 00:00	-	Minneapolis, MN 55414



CASE NARRATIVE

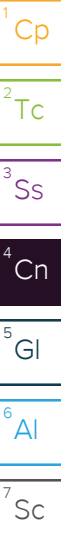
All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Brian Ford
Project Manager

Project Narrative

L1725562 -01, -02, -03, -04, -05, -06, -07, -08, -09, -10, -11, -12, -13 contains subout data that is included after the chain of custody.



GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

SDG	Sample Delivery Group.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.



ACCREDITATIONS & LOCATIONS

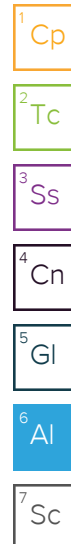
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Accounts Payable
15618 SW 72nd Ave
Tigard, OR 97224

Pres
Chk

15618 SW 72nd Ave
Tigard, OR 97224

Report to:
Andrew Bisbee

Email To: Andrew.Bisbee@apexcos.com

Project Description:

KING SALVAGE

City/State
Collected: TOBEDO, OR

Please Circle:
PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):

[Signature]

Rush? (Lab MUST Be Notified)

Same Day ☒ Five Day
Next Day ☐ 5 Day (Rad Only)
Two Day ☐ 10 Day (Rad Only)
Three Day ☐

Quote #

Date Results Needed

No.
of
Cntrs

Immediately
Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-3-SS-1

Grab

SS

0-0.5

4/10/24

1345

1

DU-3-SS-2

Grab

SS

1

4/10/24

1350

1

DU-3-SS-3

Grab

SS

1

4/10/24

1355

1

DU-3-SS-4

Grab

SS

1

4/10/24

1400

1

DU-3-SS-5

Grab

SS

1

4/10/24

1405

1

DU-3-SS-COMP-1

comp

SS

V

4/10/24

1410

2

DU-4A-1-1

Grab

SS

0-1

4/8/24

1115

1

DU-4A-1-2

Grab

SS

1-2

4/8/24

1120

1

DU-4A-1-3

Grab

SS

2-3

4/8/24

1128

1

DU-4A-2-1

Grab

SS

0-1

4/8/24

1130

1

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: *Client: list metals needed=

Samples returned via:

UPS FedEx Courier

Tracking #

Relinquished by: (Signature)

[Signature]

Date:

4-12-24

Time:

12:00

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

pH Temp

Flow Other

Sample Receipt Checklist

COC Seal Present/Intact: ☒ NP ☐ Y ☐ N
COC Signed/Accurate: ☐ Y ☐ N
Bottles arrive intact: ☐ Y ☐ N
Correct bottles used: ☐ Y ☐ N
Sufficient volume sent: ☐ Y ☐ N
If Applicable
VOA Zero Headspace: ☐ Y ☐ N
Preservation Correct/Checked: ☒ Y ☐ N
RAD Screen <0.5 mR/hr: ☒ Y ☐ N

If preservation required by Login: Date/Time

Hold:

Condition:
NCF / OK

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # 177255102

Table # M150

Accnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: MV 3/19/24

Shipped Via: FedEx Ground

Remarks Sample # (lab only)

ARCHIVE

ARCHIVE

↓

↓

↓

↓

*Metals 8ozClr-NoPres

Dioxins/Furans 8290 4ozClr-NoPres

NWTPHDX no SGT 8ozClr-NoPres

PAHs 8270SIM 8ozClr-NoPres

Trip Blank Received: Yes ☒ No ☐
HCL / MeOH
TBR

Temp: °C Bottles Received:

125

Date: Time:

4-13-24

0900

Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224Accounts Payable
15618 SW 72nd Ave
Tigard, OR 97224Report to:
Andrew Bisbee

Email To: Andrew.Bisbee@apexcos.com

Project Description:

KING SALVAGE

City/State

Collected: TOLEDO, OR

Please Circle:

PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):

Rush? (Lab MUST Be Notified)

☐ Same Day ☒ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☐ Three Day

Quote #

Date Results Needed

No.
of
Cntrs

Immediately

Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-4A-2-2

Grab

SS

1-2

4/8/24

1135

1

DU-4A-2-3

Grab

SS

2-3

4/8/24

1138

1

DU-4A-3-1

Grab

SS

0-1

4/8/24

1140

1

DU-4A-3-2

Grab

SS

1-2

4/8/24

1145

1

DU-4A-3-3

Grab

SS

2-3

4/8/24

1148

1

DU-4A-4-1

Grab

SS

0-1

4/8/24

1150

1

DU-4A-4-2

Grab

SS

1-2

4/8/24

1155

1

DU-4A-4-3

Grab

SS

2-3

4/8/24

1158

1

DU-4A-5-1

Grab

SS

0-1

4/8/24

1215

1

DU-4A-5-2

Grab

SS

1-2

4/8/24

1220

1

* Matrix:

SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks: *Client: list metals needed=

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact: ☐ NP ☐ Y ☐ N
 COC Signed/Accurate: ☐ Y ☐ N
 Bottles arrive intact: ☐ Y ☐ N
 Correct bottles used: ☐ Y ☐ N
 Sufficient volume sent: ☐ Y ☐ N
 If Applicable
 VOA Zero Headspace: ☐ Y ☐ N
 Preservation Correct/Checked: ☐ Y ☐ N
 RAD Screen <0.5 mR/hr: ☐ Y ☐ N

Relinquished by: (Signature)

Date:

A-12-2A

Time:

12:00

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH

TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: _____ °C Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

Hold:

Condition:
NCF / OK

4-13-24

0900

Analysis / Container / Preservative

Chain of Custody Page 2 of 20



MT JULIET, TN

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 constitutes acknowledgment and acceptance of the
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<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG #

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: MV 3/19/24

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

ARCHIVE

Condition:
NCF / OK

Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224

Accounts Payable
15618 SW 72nd Ave
Tigard, OR 97224

Report to:
Andrew Bisbee

Email To: Andrew.Bisbee@apexcos.com

Project Description:

KING SALVAGE

City/State

Collected: TIGARD, OR

Please Circle:
PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):

[Signature]

Rush? (Lab MUST Be Notified)

Same Day ☒ Five Day
Next Day ☐ 5 Day (Rad Only)
Two Day ☐ 10 Day (Rad Only)
Three Day ☐

Quote #

Date Results Needed

No.
of
Cntrs

Immediately

Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-4B-3-1

Grab

SS

0-1

4/10/24

1140

1

DU-4B-3-2

Grab

SS

1-2

4/10/24

1145

1

DU-4B-3-3

Grab

SS

2-3

4/10/24

1150

1

DU-4B-4-1

Grab

SS

0-1

4/10/24

1205

1

DU-4B-4-2

Grab

SS

1-2

4/10/24

1210

1

DU-4B-4-3

Grab

SS

2-3

4/10/24

1215

1

DU-4B-5-1

Grab

SS

0-1

4/10/24

1220

1

DU-4B-5-2

Grab

SS

1-2

4/10/24

1225

1

DU-4B-5-3

Grab

SS

2-3

4/10/24

1230

1

DU-4B-COMP-1

Comp

SS

0-1

4/10/24

1233

2

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: *Client: list metals needed=

Samples returned via:

UPS FedEx Courier

Tracking #

Relinquished by: (Signature)

[Signature]

Date:

4-12-24

Time:

12:00

Received by: (Signature)

[Signature]

Trip Blank Received: Yes / No

HCL / MeOH

TBR

Temp: °C Bottles Received:

[Blank]

Relinquished by: (Signature)

[Blank]

Date:

[Blank]

Time:

[Blank]

Received by: (Signature)

[Blank]

Date: Time:

4-13-24 0900

Relinquished by: (Signature)

[Blank]

Date:

[Blank]

Time:

[Blank]

Received for lab by: (Signature)

[Signature]

Sample Receipt Checklist

COC Seal Present/Intact: ☐ NP ☐ Y ☐ N
COC Signed/Accurate: ☐ Y ☐ N
Bottles arrive intact: ☐ Y ☐ N
Correct bottles used: ☐ Y ☐ N
Sufficient volume sent: ☐ Y ☐ N
If Applicable
VOA Zero HeadSpace: ☐ Y ☐ N
Preservation Correct/Checked: ☐ Y ☐ N
RAD Screen <0.5 mR/hr: ☐ Y ☐ N

If preservation required by Login: Date/Time

[Blank]

Hold:

[Blank]

Condition:
NCF / OK

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 4 of 4

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # L7725562

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: MW 3/19/24

Shipped Via: FedEx Ground

Remarks Sample # (lab only)

ARCHIVE

-03

Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224Report to:
Andrew Bisbee

Project Description:

KING SALVAGE

City/State

Collected: TOLKEDO, OR

Please Circle:
PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

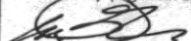
ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):



Rush? (Lab MUST Be Notified)

☐ Same Day ☒ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☐ Three Day

Date Results Needed

No.
of
Cntrs

Immediately

Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-4B-comp-2

Comp

SS

1-2

4/10/24

1235

2

DU-4B-comp-3

Comp

SS

2-3

4/10/24

1240

2

DU-4C-1-1

Grab

SS

0-1

4/8/24

1350

1

DU-4C-1-2

Grab

SS

1-2

4/8/24

1355

1

DU-4C-1-3

Grab

SS

2-3

4/8/24

1358

1

DU-4C-2-1

Grab

SS

0-1

4/8/24

1340

1

DU-4C-2-2

Grab

SS

1-2

4/8/24

1345

1

DU-4C-2-3

Grab

SS

2-3

4/8/24

1348

1

DU-4C-3-1

Grab

SS

0-1

4/8/24

1420

1

DU-4C-3-2

Grab

SS

1-2

4/8/24

1425

1

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - Waste Water
DW - Drinking Water
OT - Other

Remarks: *Client: list metals needed=

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

Relinquished by: (Signature)

Date:

4-12-24

Time:

12:00

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH

TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C

Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

Hold:

Condition:
NCF / OK

Analysis / Container / Preservative

Pres
Chk

Chain of Custody Page 5 of 20



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
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constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # L17255602

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelgin: P1063626

PM: 110 - Brian Ford

PB: mv 3/19/24

Shipped Via: FedEx Ground

Remarks Sample # (lab only)

RUN DX, HOLD FOR
FOLLOW-UP

ARCHIVE

Sample Receipt Checklist

COC Seal Present/Intact: NP Y N

COC Signed/Accurate: Y N

Bottles arrive intact: Y N

Correct bottles used: Y N

Sufficient volume sent: Y N

If Applicable

VOA Zero Headspace: Y N

Preservation Correct/Checked: Y N

RAD Screen <0.5 mR/hr: Y N

Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224Accounts Payable
15618 SW 72nd Ave
Tigard, OR 97224Report to:
Andrew Bisbee

Email To: Andrew.Bisbee@apexcos.com

Project Description:

KING SALVAGE

City/State

Collected: TOLEDO, OR

Please Circle:
PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):

Rush? (Lab MUST Be Notified)

☐ Same Day ☒ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☐ Three Day

Quote #

Date Results Needed

No.
of
Cntrs

Immediately

Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-40-1-1	Grab	SS	0-1	4/9/24	1555	1
DU-40-1-2	Grab	SS	1-2	4/9/24	1600	1
DU-40-1-3	Grab	SS	2-3	4/9/24	1603	1
DU-40-2-1	Grab	SS	0-1	4/8/24	1315	1
DU-40-2-2	Grab	SS	1-2	4/8/24	1320	1
DU-40-2-3	Grab	SS	2-3	4/8/24	1323	1
DU-40-3-1	Grab	SS	0-1	4/9/24	1615	1
DU-40-3-2	Grab	SS	1-2	4/9/24	1620	1
DU-40-3-3	Grab	SS	2-3	4/9/24	1623	1
DU-40-4-1	Grab	SS	0-1	4/9/24	1605	1

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: *Client: list metals needed=

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

Relinquished by (Signature)

Date:

4-12-24

Time:

12:00

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C Bottles Received:

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

Hold:

Condition:
NCF / OK

Analysis / Container / Preservative

Chain of Custody Page 2 of 20



MT JULIET, TN

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SDG # LT255602

Table #

Acctnum: ASHCREPOR

Template: T249306

Preligin: P1063626

PM: 110 - Brian Ford

PB: MV 3/19/24

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

ARCHIVE

Sample Receipt Checklist

COC Seal Present/Intact: ☐ NP ☐ Y ☐ N
COC Signed/Accurate: ☐ Y ☐ N
Bottles arrive intact: ☐ Y ☐ N
Correct bottles used: ☐ Y ☐ N
Sufficient volume sent: ☐ Y ☐ N
If Applicable
VOA Zero Headspace: ☐ Y ☐ N
Preservation Correct/Checked: ☐ Y ☐ N
RAD Screen <0.5 mR/hr: ☐ Y ☐ N

If preservation required by Login: Date/Time

Apex Companies, LLC - Portland, OR

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15618 SW 72nd Ave
Tigard, OR 97224Report to:
Andrew Bisbee

Email To: Andrew.Bisbee@apexcos.com

Project Description:

KING SALVAGE

City/State

Collected: TOLEDO, OR

Please Circle:

PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):

Rush? (Lab MUST Be Notified)

☐ Same Day ☒ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☐ Three Day

Date Results Needed

No.
of
Cnts

Immediately

Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-40-4-2

Grab

SS

1-2

4/9/24

1610

1

DU-40-4-3

Grab

SS

2-3

4/9/24

1613

1

DU-40-5-1

Grab

SS

0-1

4/9/24

1625

1

DU-40-5-2

Grab

SS

1-2

4/9/24

1630

1

DU-40-5-3

Grab

SS

2-3

4/9/24

1633

1

DU-40-COMP-1

Comp

SS

0-1

4/9/24

1635

2

DU-40-COMP-2

Comp

SS

1-2

4/9/24

1640

2

DU-40-COMP-3

Comp

SS

2-3

4/9/24

1645

2

DU-4E-1-1

Grab

SS

0-1

4/8/24

1540

1

DU-4E-1-2

Grab

SS

1-2

4/8/24

1545

1

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: *Client: list metals needed=

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

Relinquished by: (Signature)

Date:

4-12-24

Time:

12:00

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH

TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

Hold:

Condition:
NCF / OK

Analysis / Container / Preservative

Chain of Custody Page 8 of 20

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

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SDG #

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: MV 3/19/24

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

ARCHIVE

RUN DX, HOLD FOR
FOLLOW-UP

ARCHIVE

Sample Receipt Checklist

COC Seal Present/Intact: ☐ NP ☐ Y ☐ NCOC Signed/Accurate: ☐ Y ☐ NBottles arrive intact: ☐ Y ☐ NCorrect bottles used: ☐ Y ☐ NSufficient volume sent: ☐ Y ☐ N

If Applicable

VOA Zero Headspace: ☐ Y ☐ NPreservation Correct/Checked: ☐ Y ☐ NRAD Screen <0.5 mR/hr: ☐ Y ☐ N

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Tigard, OR 97224Report to:
Andrew Bisbee

Email To: Andrew.Bisbee@apexcos.com

Project Description:

KING SALVAGE

City/State

Collected: TOLEDO, OR

Please Circle:

PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):

[Signature]

Rush? (Lab MUST Be Notified)

☐ Same Day ☒ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☐ Three Day

Quote #

Date Results Needed

No.
of
Cntrs

Immediately

Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-4E-1-3

Grab

SS

2-3

4/8/24

1548

1

DU-4E-2-1

Grab

SS

0-1

4/8/24

1530

1

DU-4E-2-2

Grab

SS

1-2

4/8/24

1535

1

DU-4E-2-3

Grab

SS

2-3

4/8/24

1538

1

DU-4E-3-1

Grab

SS

0-1

4/8/24

1555

1

DU-4E-3-2

Grab

SS

1-2

4/8/24

1600

1

DU-4E-3-3

Grab

SS

2-3

4/8/24

1603

1

DU-4E-4-1

Grab

SS

0-1

4/8/24

1605

1

DU-4E-4-2

Grab

SS

1-2

4/8/24

1610

1

DU-4E-4-3

Grab

SS

2-3

4/8/24

1613

1

* Matrix:

SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks: *Client: list metals needed=

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

Relinquished by: (Signature)

[Signature]

Date:

4-12-24

Time:

12:00

Received by: (Signature)

[Signature]

Trip Blank Received: Yes / No

HCL / MeOH

TBR

Temp: _____ °C Bottles Received:

Sample Receipt Checklist

COC Seal Present/Intact: ☐ NP ☐ Y ☐ NCOC Signed/Accurate: ☐ Y ☐ NBottles arrive intact: ☐ Y ☐ NCorrect bottles used: ☐ Y ☐ NSufficient volume sent: ☐ Y ☐ N

If Applicable

VOA Zero Headspace: ☐ Y ☐ NPreservation Correct/Checked: ☐ Y ☐ NRAD Screen <0.5 mR/hr: ☐ Y ☐ N

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

[Signature]

Date: _____ Time: _____

Hold: _____

Condition:
NCF / OK

Analysis / Container / Preservative

Chain of Custody Page 7 of 20


 PEOPLE ADVANCING SCIENCE

MT JULIET, TN

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SDG # L1725562

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: MV 3/19/24

Shipped Via: FedEx Ground

Remarks Sample # (lab only)

ARCHIVE

V

ARCHIVE

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15618 SW 72nd Ave
Tigard, OR 97224Report to:
Andrew Bisbee

Email To: Andrew.Bisbee@apexcos.com

Project Description:

KING SALVAGE

City/State

Collected: TOLEDO, OR

Please Circle:

PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):

Rush? (Lab MUST Be Notified)

Same Day ☒ Five Day
Next Day ☐ 5 Day (Rad Only)
Two Day ☐ 10 Day (Rad Only)
Three Day ☐ STANDARD

Date Results Needed

No.

of

Cntrs

Immediately

Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-4E-5-1	Grab	SS	0-1	4/8/24	1615	1
DU-4E-5-2	Grab	SS	1-2	4/8/24	1620	1
DU-4E-5-3	Grab	SS	2-3	4/8/24	1623	1
DU-4E-COMP-1	COMP	SS	0-1	4/8/24	1625	2
DU-4E-COMP-2	COMP	SS	1-2	4/8/24	1630	2
DU-4E-COMP-3	COMP	SS	2-3	4/8/24	1635	2
DU-4F-1-1	Grab	SS	0-1	4/9/24	820	1
DU-4F-1-2	Grab	SS	1-2	4/9/24	825	1
DU-4F-1-3	Grab	SS	2-3	4/9/24	828	1
DU-4F-2-1	Grab	SS	0-1	4/9/24	830	1

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: *Client: list metals needed=

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

Relinquished by: (Signature)

Date:

4-12-24

Time:

12:00

Received by: (Signature)

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact: ☐ NP ☐ Y ☐ N
COC Signed/Accurate: ☐ Y ☐ N
Bottles arrive intact: ☐ Y ☐ N
Correct bottles used: ☐ Y ☐ N
Sufficient volume sent: ☐ Y ☐ N
If Applicable
VOA Zero Headspace: ☐ Y ☐ N
Preservation Correct/Checked: ☐ Y ☐ N
RAD Screen <0.5 mR/hr: ☐ Y ☐ N

If preservation required by Login: Date/Time

Hold:

Condition:
NCF / OK

Analysis / Container / Preservative

Pres
Chk

Chain of Custody Page 10 of 20



MT JULIET, TN

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SDG # L1775562

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelgin: P1063626

PM: 110 - Brian Ford

PB: MV 3/19/24

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

ARCHIVE

↓

RUN IN, HOLD FOR FOLLOWUP

↓

ARCHIVE

↓

Apex Companies, LLC - Portland, OR

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Tigard, OR 97224Accounts Payable
15618 SW 72nd Ave
Tigard, OR 97224Report to:
Andrew Bisbee

Email To: Andrew.Bisbee@apexcos.com

Project Description:

KING SALVAGE

City/State

Collected: TOBEDO, OR

Please Circle:
PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):



Rush? (Lab MUST Be Notified)

___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day STANDARD

Quote #

Date Results Needed

No.
of
Cntrs

Immediately

Packed on Ice N ___ Y X

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-4F-2-2

Grab

SS

1-2

4/9/24

835

1

DU-4F-2-3

Grab

SS

2-3

4/9/24

838

1

DU-4F-3-1

Grab

SS

0-1

4/9/24

845

1

DU-4F-3-2

Grab

SS

1-2

4/9/24

850

1

DU-4F-3-3

Grab

SS

2-3

4/9/24

853

1

DU-4F-4-1

Grab

SS

0-1

4/9/24

900

1

DU-4F-4-2

Grab

SS

1-2

4/9/24

905

1

DU-4F-4-3

Grab

SS

2-3

4/9/24

908

1

DU-4F-5-1

Grab

SS

0-1

4/9/24

920

1

DU-4F-5-2

Grab

SS

1-2

4/9/24

925

1

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: *Client: list metals needed=

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:

___ UPS ___ FedEx ___ Courier

Tracking #

Relinquished by: (Signature)

Date:

4-12-24

Time:

12:00

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH

TBR

Temp: _____ °C Bottles Received:

Sample Receipt Checklist

COC Seal Present/Intact: ___ NP ___ Y ___ N

COC Signed/Accurate: ___ Y ___ N

Bottles arrive intact: ___ Y ___ N

Correct bottles used: ___ Y ___ N

Sufficient volume sent: ___ Y ___ N

If Applicable

VOA Zero Headspace: ___ Y ___ N

Preservation Correct/Checked: ___ Y ___ N

RAD Screen <0.5 mR/hr: ___ Y ___ N

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

Hold:

Condition:
NCF / OK

4-13-24

0900

Analysis / Container / Preservative

Chain of Custody Page 1 of 20



MT JULIET, TN

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SDG # L17255102

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: MV 3/19/24

Shipped Via: FedEx Ground

Remarks Sample # (lab only)

ARCHIVE

V

Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224Report to:
Andrew Bisbee

Project Description:

KING SALVAGE

City/State

Collected: TOBEDO, OR

Please Circle:
PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):



Rush? (Lab MUST Be Notified)

☐ Same Day ☒ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☐ Three Day ☒ STANDARD

Date Results Needed

No.
of
Cntrs

Immediately

Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-4F-5-3

Grab

SS

2-3

4/9/24

908

1

DU-4F-COMP-1

COMP

SS

0-1

4/9/24

922

2

DU-4F-COMP-2

COMP

SS

1-2

4/9/24

935

2

DU-4F-COMP-3

COMP

SS

2-3

4/9/24

940

2

DU-4G-1-1

Grab

SS

0-1

4/9/24

1010

1

DU-4G-1-2

Grab

SS

1-2

4/9/24

1015

1

DU-4G-1-3

Grab

SS

2-3

4/9/24

1018

1

DU-4G-2-1

Grab

SS

0-1

4/9/24

1000

1

DU-4G-2-2

Grab

SS

1-2

4/9/24

1005

1

DU-4G-2-3

Grab

SS

2-3

4/9/24

1008

1

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - Waste Water
DW - Drinking Water
OT - Other

Remarks: *Client: list metals needed=

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact: ☐ NP ☐ Y ☐ N
COC Signed/Accurate: ☐ Y ☐ N
Bottles arrive intact: ☐ Y ☐ N
Correct bottles used: ☐ Y ☐ N
Sufficient volume sent: ☐ Y ☐ N
If Applicable
VOA Zero Headspace: ☐ Y ☐ N
Preservation Correct/Checked: ☐ Y ☐ N
RAD Screen <0.5 mR/hr: ☐ Y ☐ N

Relinquished by: (Signature)



Date:

4-12-24

Time:

12:00

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH

TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: _____ °C Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

Hold:

Condition:
NCF / OK

Analysis / Container / Preservative

Pres
Chk

Chain of Custody Page 12 of 40


PEOPLE ADVANCING SCIENCE

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SDG # LIT25562

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: MV 3/19/24

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

ARCHIVE

BUN DX, HOLD FOR
FOLLOW UP

ARCHIVE

↓

Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224Accounts Payable
15618 SW 72nd Ave
Tigard, OR 97224Report to:
Andrew Bisbee

Email To: Andrew.Bisbee@apexcos.com

Project Description:

KING SAWAGE

City/State

Collected: TOLEDO, OR

Please Circle:
PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):

Rush? (Lab MUST Be Notified)

___ Same Day ☒ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

No.
of
CntsImmediately
Packed on Ice N ___ Y ☒

STANDARD

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-46-3-1

Grab

SS

0-1

4/9/24

1040

1

DU-46-3-2

Grab

SS

1-2

4/9/24

1045

1

DU-46-3-3

Grab

SS

2-3

4/9/24

1048

1

DU-46-4-1

Grab

SS

0-1

4/9/24

1150

1

DU-46-4-2

Grab

SS

1-2

4/9/24

1155

1

DU-46-4-3

Grab

SS

2-3

4/9/24

1158

1

DU-46-5-1

Grab

SS

0-1

4/9/24

1100

1

DU-46-5-2

Grab

SS

1-2

4/9/24

1105

1

DU-46-5-3

Grab

SS

2-3

4/9/24

1108

1

DU-46-COMP-1

COMP

SS

0-1

4/9/24

1200

2

*Metals 8ozClr-NoPres

Dioxins/Furans 8290 4ozClr-NoPres

NWTPHDX no SGT 8ozClr-NoPres

PAHs 8270SIM 8ozClr-NoPres

Chain of Custody Page 13 of 20

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd. Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # 172502

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: MV 3/19/24

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

ARCHIVE

V

-08

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: *Client: list metals needed=

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:

___ UPS ___ FedEx ___ Courier

Tracking #

Relinquished by: (Signature)

Date:

4-12-24

Time:

12:00

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: Time:

Hold:

Condition:
NCF / OK

Sample Receipt Checklist

COC Seal Present/Intact: ___ NP ___ Y ___ N
COC Signed/Accurate: ___ Y ___ N
Bottles arrive intact: ___ Y ___ N
Correct bottles used: ___ Y ___ N
Sufficient volume sent: ___ Y ___ N
If Applicable
VOA Zero Headspace: ___ Y ___ N
Preservation Correct/Checked: ___ Y ___ N
RAD Screen <0.5 mR/hr: ___ Y ___ N

4-13-24

0900

Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224Accounts Payable
15618 SW 72nd Ave
Tigard, OR 97224Pres
Chk

Report to:

Andrew Bisbee

Email To: Andrew.Bisbee@apexcos.com

Project Description:

KING SALVAGE

City/State

Collected: TOLEDO, OR

Please Circle:
PT MT CT ET

Phone: 503-924-4704

Client Project #

32-2300077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-2300077

Collected by (signature):

Rush? (Lab MUST Be Notified)

☐ Same Day ☒ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☐ Three Day

Quote #

Date Results Needed

No.
of
Cnts

Immediately

Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-4G-COMP-2	COMP	SS	1-2	4/9/24	1205	2
DU-4G-COMP-3	COMP	SS	2-3	4/9/24	1210	2
DU-4H-1-1	Grab	SS	0-1	4/9/24	1300	1
DU-4H-1-2	Grab	SS	1-2	4/9/24	1305	1
DU-4H-1-3	Grab	SS	2-3	4/9/24	1308	1
DU-4H-2-1	Grab	SS	0-1	4/9/24	1240	1
DU-4H-2-2	Grab	SS	1-2	4/9/24	1245	1
DU-4H-2-3	Grab	SS	2-3	4/9/24	1248	1
DU-4H-3-1	Grab	SS	0-1	4/9/24	1250	1
DU-4H-3-2	Grab	SS	1-2	4/9/24	1255	1

* Matrix:

SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks: *Client: list metals needed=

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact: ☐ NP ☐ Y ☐ N
 COC Signed/Accurate: ☐ Y ☐ N
 Bottles arrive intact: ☐ Y ☐ N
 Correct bottles used: ☐ Y ☐ N
 Sufficient volume sent: ☐ Y ☐ N
 If Applicable
 VOA Zero Headspace: ☐ Y ☐ N
 Preservation Correct/Checked: ☐ Y ☐ N
 RAD Screen <0.5 mR/hr: ☐ Y ☐ N

Relinquished by: (Signature)

Date:

A-12-2A

Time:

12:00

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: _____ °C Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: _____ Time: _____

Hold:

Condition:
NCF / OK

Analysis / Container / Preservative

Chain of Custody Page 4 of 20



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody
 constitutes acknowledgment and acceptance of the
 Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # L17255602

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: MV 3/19/24

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

DUN Dx, HOLD FOR
FOLLOW-UP

ARCHIVE

↓

Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224Accounts Payable
15618 SW 72nd Ave
Tigard, OR 97224Pres
Chk

Report to:

Andrew Bisbee

Email To: Andrew.Bisbee@apexcos.com

Project Description:

KING SALVAGE

City/State

Collected: TOLEDO, OR

Please Circle:

PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):

[Signature]

Rush? (Lab MUST Be Notified)

Same Day ☒ Five DayNext Day ☐ 5 Day (Rad Only)Two Day ☐ 10 Day (Rad Only)Three Day ☐ STANDARD

Date Results Needed

No.
of
Cnts

Immediately

Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-4H-3-3

Grab

SS

2-3

4/9/24

1258

1

DU-4H-4-1

Grab

SS

0-1

4/9/24

1325

1

DU-4H-4-2

Grab

SS

1-2

4/9/24

1330

1

DU-4H-4-3

Grab

SS

2-3

4/9/24

1333

1

DU-4H-5-1

Grab

SS

0-1

4/9/24

1340

1

DU-4H-5-2

Grab

SS

1-2

4/9/24

1345

1

DU-4H-5-3

Grab

SS

2-3

4/9/24

1348

1

DU-4H-COMP-1

COMP

SS

0-1

4/9/24

1350

2

DU-4H-COMP-2

COMP

SS

1-2

4/9/24

1355

2

DU-4H-COMP-3

COMP

SS

2-3

4/9/24

1400

2

* Matrix:

SS - Soil AIR - Air F - Filter

GW - Groundwater B - Bioassay

WW - WasteWater

DW - Drinking Water

OT - Other

Remarks: *Client: list metals needed=

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact: ☐ NP ☐ Y ☐ NCOC Signed/Accurate: ☐ Y ☐ NBottles arrive intact: ☐ Y ☐ NCorrect bottles used: ☐ Y ☐ NSufficient volume sent: ☐ Y ☐ N

If Applicable

VOA Zero Headspace: ☐ Y ☐ NPreservation Correct/Checked: ☐ Y ☐ NRAD Screen <0.5 mR/hr: ☐ Y ☐ N

Relinquished by: (Signature)

Date:

4-12-24

Time:

12:00

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH

TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: _____ °C Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

Hold:

Condition:

NCF / OK

Analysis / Container / Preservative

Chain of Custody Page 5 of 20

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG #

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: MV 3/19/24

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

ARCHIVE

-09
RUN Dx, HOLD FOR
Faxon-OP

Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224Accounts Payable
15618 SW 72nd Ave
Tigard, OR 97224Pres
Chk

Chain of Custody Page 10 of 20



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # 1725562

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: mv 3/19/24

Shipped Via: FedEx Ground

Remarks Sample # (lab only)

ARCHIVE

Report to:

Andrew Bisbee

Email To: Andrew.Bisbee@apexcos.com

Project Description:

KING SALVAGE

City/State

Collected: TOBAGO, OR

Please Circle:
PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):

[Signature]

Rush? (Lab MUST Be Notified)

___ Same Day ☒ Five Day

___ Next Day ___ 5 Day (Rad Only)

___ Two Day ___ 10 Day (Rad Only)

___ Three Day STANDARD

Date Results Needed

No.
of
CntsImmediately
Packed on Ice N ___ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-4I-1-1

Grab

SS

0-1

4/9/24

1430

1

DU-4I-1-2

Grab

SS

1-2

4/9/24

1435

1

DU-4I-1-3

Grab

SS

2-3

4/9/24

1438

1

DU-4I-2-1

Grab

SS

0-1

4/9/24

1440

1

DU-4I-2-2

Grab

SS

1-2

4/9/24

1445

1

DU-4I-2-3

Grab

SS

2-3

4/9/24

1448

1

DU-4I-3-1

Grab

SS

0-1

4/9/24

1500

1

DU-4I-3-2

Grab

SS

1-2

4/9/24

1505

1

DU-4I-3-3

Grab

SS

2-3

4/9/24

1508

1

DU-4I-4-1

Grab

SS

0-1

4/9/24

1420

1

* Matrix:

SS - Soil AIR - Air F - Filter

GW - Groundwater B - Bioassay

WW - WasteWater

DW - Drinking Water

OT - Other

Remarks: *Client: list metals needed=

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:

___ UPS ___ FedEx ___ Courier

Tracking #

Relinquished by: (Signature)

[Signature]

Date:

4-12-24

Time:

12:00

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH

TBR

Temp: _____ °C Bottles Received:

Sample Receipt Checklist

COC Seal Present/Intact: ___ NP ___ Y ___ N

COC Signed/Accurate: ___ Y ___ N

Bottles arrive intact: ___ Y ___ N

Correct bottles used: ___ Y ___ N

Sufficient volume sent: ___ Y ___ N

If Applicable

VOA Zero Headspace: ___ Y ___ N

Preservation Correct/Checked: ___ Y ___ N

RAD Screen <0.5 mR/hr: ___ Y ___ N

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

Hold:

Condition:

NCF / OK

4-13-24

0900

Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224Accounts Payable
15618 SW 72nd Ave
Tigard, OR 97224Pres
ChkReport to:
Andrew Bisbee

Email To: Andrew.Bisbee@apexcos.com

Project Description:

KING SALVAGE

City/State

Collected: TOBAGO, OR

Please Circle:
PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):

Rush? (Lab MUST Be Notified)

☐ Same Day ☒ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☐ Three Day ☒ STANDARD

Quote #

Date Results Needed

Immediately

Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

No.
of
Cntrs

DU-4I-4-2

Grab

SS

1-2

4/9/24

1425

1

DU-4I-4-3

Grab

SS

2-3

4/9/24

1428

1

DU-4I-5-1

Grab

SS

0-1

4/9/24

1510

1

DU-4I-5-2

Grab

SS

1-2

4/9/24

1515

1

DU-4I-5-3

Grab

SS

2-3

4/9/24

1518

1

DU-4I-COMP-1

COMP

SS

0-1

4/9/24

1520

2

DU-4I-COMP-2

COMP

SS

1-2

4/9/24

1525

2

DU-4I-COMP-3

COMP

SS

2-3

4/9/24

1535

2

DU-5-SS-1

Grab

SS

0.0.5

4/10/24

1415

1

DU-5-SS-2

Grab

SS

0.0.5

4/10/24

1420

1

* Matrix:

SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks: *Client: list metals needed=

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

Relinquished by: (Signature)

Date:

4-12-24

Time:

12:00

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH

TBR

Temp: _____ °C Bottles Received:

Sample Receipt Checklist

COC Seal Present/Intact: ☐ NP ☐ Y ☐ NCOC Signed/Accurate: ☐ Y ☐ NBottles arrive intact: ☐ Y ☐ NCorrect bottles used: ☐ Y ☐ NSufficient volume sent: ☐ Y ☐ N

If Applicable

VOA Zero Headspace: ☐ Y ☐ NPreservation Correct/Checked: ☐ Y ☐ NRAD Screen <0.5 mR/hr: ☐ Y ☐ N

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

Hold:

Condition:
NCF / OK

4-13-24

0900

Analysis / Container / Preservative

Chain of Custody Page 17 of 20

PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody
 constitutes acknowledgment and acceptance of the
 Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # L1725567

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: mv 3/19/24

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

ARCHIVE

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Accounts Payable
15618 SW 72nd Ave
Tigard, OR 97224

Pres
Chk

15618 SW 72nd Ave
Tigard, OR 97224

Report to:
Andrew Bisbee

Email To: Andrew.Bisbee@apexcos.com

Project Description:

KING SAWAGE

City/State

Collected: **TIGARD, OR**

Please Circle:
PT MT CT ET

Phone: **503-924-4704**

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):

[Signature]

Rush? (Lab MUST Be Notified)

☐ Same Day ☒ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☐ Three Day **STANDARD**

Quote #

Date Results Needed

Immediately

Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

No.
of
Cntrs

DU-5-SS-3	Grab	SS	0-0.5	4/10/24	1425	1
DU-5-SS-4	Grab	SS	0-0.5	4/10/24	1430	1
DU-5-SS-5	Grab	SS	0-0.5	4/10/24	1435	1
DU-5-SS-COMP-1	COMP	SS	0-0.5	4/10/24	1440	2
DU-6-1-1	Grab	SS	0-1	4/10/24	900	1
DU-6-1-2	Grab	SS	1-2	4/10/24	905	1
DU-6-1-5	Grab	SS	2-5	4/10/24	908	1
DU-6-2-1	Grab	SS	0-1	4/10/24	920	1
DU-6-2-2	Grab	SS	1-2	4/10/24	925	1
DU-6-2-5	Grab	SS	2-5	4/10/24	928	1

*Metals 8ozClr-NoPres

Dioxins/Furans 8290 4ozClr-NoPres

NWTPHDX no SGT 8ozClr-NoPres

PAHs 8270SIM 8ozClr-NoPres

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG #

L1725562

Table #

Acctnum: **ASHCREPOR**

Template: **T249306**

Prelogin: **P1063626**

PM: **110 - Brian Ford**

PB: **mv 3/19/24**

Shipped Via: **FedEX Ground**

Remarks

Sample # (lab only)

ARCHIVE

↓

ARCHIVE

↓

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: *Client: list metals needed=

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH

TBR

Temp: _____ °C Bottles Received:

Sample Receipt Checklist

COC Seal Present/Intact: ☐ NP ☐ Y ☐ N

COC Signed/Accurate: ☐ Y ☐ N

Bottles arrive intact: ☐ Y ☐ N

Correct bottles used: ☐ Y ☐ N

Sufficient volume sent: ☐ Y ☐ N

If Applicable

VOA Zero Headspace: ☐ Y ☐ N

Preservation Correct/Checked: ☐ Y ☐ N

RAD Screen <0.5 mR/hr: ☐ Y ☐ N

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: _____ °C Bottles Received:

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: _____ Time: _____

Hold:

Condition:
NCF / OK

[Signature]

4-13-24

0900

Accounts Payable
15618 SW 72nd Ave
Tigard, OR 97224Pres
Chk15618 SW 72nd Ave
Tigard, OR 97224Report to:
Andrew Bisbee

Email To: Andrew.Bisbee@apexcos.com

Project Description:

KING SALVAGE

City/State

Collected: TIGARD, OR

Please Circle:
PT MT CT ET

Phone: 503-924-4704

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):

Rush? (Lab MUST Be Notified)

☐ Same Day ☒ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☐ Three Day

Date Results Needed

STANDARD

Immediately

Packed on Ice N ☐ Y ☒No.
of
Cnts

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-6-3-1	Grab	SS	0-1	4/10/24	935	1
DU-6-3-2	Grab	SS	1-2	4/10/24	940	1
DU-6-3-5	Grab	SS	2-5	4/10/24	943	1
DU-6-COMP-1	COMP	SS	0-1	4/10/24	950	2
DU-6-COMP-2	COMP	SS	1-2	4/10/24	1000	2
DU-6-COMP-5	COMP	SS	2-5	4/10/24	1010	2
DU-6-SS-1	Grab	SS	0-0.5	4/10/24	1305	1
DU-6-SS-2	Grab	SS	0-0.5	4/10/24	1310	1
DU-6-SS-3	Grab	SS	0-0.5	4/10/24	1315	1
DU-6-SS-4	Grab	SS	0-0.5	4/10/24	1320	1

* Matrix:

SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: *Client: list metals needed=

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact: ☐ NP ☐ Y ☐ N
COC Signed/Accurate: ☐ Y ☐ N
Bottles arrive intact: ☐ Y ☐ N
Correct bottles used: ☐ Y ☐ N
Sufficient volume sent: ☐ Y ☐ N
If Applicable
VOA Zero Headspace: ☐ Y ☐ N
Preservation Correct/Checked: ☐ Y ☐ N
RAD Screen <0.5 mR/hr: ☐ Y ☐ N

Relinquished by: (Signature)

Date:

4-12-24

Time:

12:00

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH

TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: _____ °C Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

Time:

Hold:

Condition:
NCF / OKPace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG #

Table #

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: MV 3/19/24

Shipped Via: FedEx Ground

Remarks

Sample # (lab only)

ARCHIVE

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15618 SW 72nd Ave
Tigard, OR 97224

Accounts Payable
15618 SW 72nd Ave
Tigard, OR 97224

Pres
Chk

Report to:
Andrew Bisbee

Email To: Andrew.Bisbee@apexcos.com

Project Description:

KING SAWAGE

City/State

Collected: **TIGARD, OR**

Please Circle:
PT MT CT ET

Phone: **503-924-4704**

Client Project #

32-23010077

Lab Project #

ASHCREPOR-BISBEE

Collected by (print):

ANDREW BISBEE

Site/Facility ID #

P.O. #

32-23010077

Collected by (signature):



Rush? (Lab MUST Be Notified)

☐ Same Day ☒ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☐ Three Day **STANDARD**

Date Results Needed

No.
of
Cntrs

Immediately

Packed on Ice N ☐ Y ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

DU-4C-3-3 <i>OK</i>	Grab	SS		4/8/24	1428	1
DU-4C-5-1 <i>OK</i>		SS				
DU-4C-5-2 <i>OK</i>		SS				
DU-4C-5-3 <i>OK</i>		SS				
DU-6-SS-5	Grab	SS	0-5	4/10/24	1325	1
DU-6-SS-COMP-1	COMP	SS	0-5	4/10/24	1330	2
IDW	COMP	SS	0-5	4/10/24	1400	2
		SS				
		SS				
		SS				

*Metals 8ozClr-NoPres

Dioxins/Furans 8290 4ozClr-NoPres

NWTPHDX no SGT 8ozClr-NoPres

PAHs 8270SIM 8ozClr-NoPres

HCLD

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # **L1725562**

Table #

Acctnum: **ASHCREPOR**

Template: **T249306**

Prelogin: **P1063626**

PM: **110 - Brian Ford**

PB: **MV 3/19/24**

Shipped Via: **FedEX Ground**

Remarks Sample # (lab only)

ARCHIVE

-13
RUN METALS/HCLD
HOLD FOR FOLLOW-UP

* Matrix:

SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: *Client: list metals needed=

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

Relinquished by: (Signature)



Date:

4-12-24

Time:

12:00

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH

TBR

Temp: _____ °C Bottles Received:

Sample Receipt Checklist

COC Seal Present/Intact: ☐ NP ☐ Y ☐ N

COC Signed/Accurate: ☐ Y ☐ N

Bottles arrive intact: ☐ Y ☐ N

Correct bottles used: ☐ Y ☐ N

Sufficient volume sent: ☐ Y ☐ N

If Applicable

VOA Zero Headspace: ☐ Y ☐ N

Preservation Correct/Checked: ☐ Y ☐ N

RAD Screen <0.5 mR/hr: ☐ Y ☐ N

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: _____ °C Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: _____ Time: _____

Hold:

Condition:
NCF / OK

jenman **4-13-24** **0900**

U725667

Tracking Numbers	DPA7 Temperature
7320 9668 3780	0.4+0.1=0.5
7320 9668 3840	5.5+0.1=5.6
7320 9668 3872	5.5+0.1=5.6
7320 9668 3861	0.2+0.1=0.3
7320 9668 3839	2.6+0.1=2.7
7320 9668 3806	0.1+0.1=0.2
7320 9668 3850	1.2+0.1=1.3
7320 9668 3770	3.2+0.1=3.3
7320 9668 3791	0.3+0.1=0.4
7320 9668 3828	1.3+0.1=1.4
7320 9668 3817	5.5+0.1=5.6

Name

Date

Report Prepared for:

Client Services
Pace Analytical National
12065 Lebanon Rd
Mt. Juliet TN 37122

REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

Report Prepared Date:

April 26, 2024

Report Information:

Pace Project #: 10689535
Sample Receipt Date: 04/16/2024
Client Project #: L1725562 WG2267310
Client Sub PO #: L1725562
State Cert #: MN200001

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Kirsten Hogberg, your Pace Project Manager.

This report has been reviewed by:



April 29, 2024

Kirsten Hogberg, Project Manager
(612) 607-6407
(612) 607-6444 (fax)
kirsten.hogberg@pacelabs.com



Report of Laboratory Analysis

This report should not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

The results relate only to the samples included in this report.

DISCUSSION

This report presents the results from the analyses performed on thirteen samples submitted by a representative of Pace Analytical National. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. The estimated detection limits (EDLs) were based on signal-to-noise measurements. Estimated maximum possible concentration (EMPC) values were treated as positives in the toxic equivalence calculations.

Second column confirmation analyses of 2,3,7,8-TCDF values obtained from the primary (DB5-MS) column are performed only when specifically requested for a project and only when the values are above the concentration of the lowest calibration standard. Typical resolution for this isomer using the DB5-MS column ranges from 25-30%.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 23-105%. Except for twenty-six low values, which were flagged "R" on the results tables, the labeled internal standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Since the quantification of the native congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

Values were flagged "I" where incorrect isotope ratios were obtained or "P" where polychlorinated diphenyl ethers were present. Concentrations below the calibration range were flagged "J" and should be regarded as estimates. Concentrations above the calibration range were flagged "E" and should also be regarded as estimates.

A laboratory method blank was prepared and analyzed with each sample batch as part of our routine quality control procedures. The results show Blank-112389 to contain a trace level of 1,2,3,4,7,8-HxCDD. This level was below the calibration range of the method. Sample levels similar to the corresponding blank levels were flagged "B" on the results tables and may be, at least partially, attributed to the background.

Laboratory and matrix spike samples were also prepared using clean reference matrix or sample matrix that had been fortified with native standard materials. The results show that the spiked native compounds were generally recovered at 85-129% with relative percent differences (RPDs) of 0.3-109.6%. Two background-subtracted recovery values obtained for the matrix spike duplicate were outside the target range, flagged "R" on the results table, and may indicate analytical biases for the affected congeners in the associated field sample determinations. Also, two RPD values obtained in the matrix spike sample analyses were above the 20% target upper limit and may indicate elevated variability for the affected congeners. Matrix spikes were prepared with the 04/17/2024 extraction batch using sample material from a separate project; results from these analyses will be provided upon request.

The responses obtained for selected labeled congeners in calibration standard analyses L240423B_16 and L240424B_16 were outside the target ranges. As specified in our procedures for this method, the averages of the daily response factors for these compounds were used in the calculations for the samples from these runshifts. The affected values were flagged "Y" on the results tables.

REPORT OF LABORATORY ANALYSIS

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Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Missouri	10100
Alabama	40770	Montana	CERT0092
Alaska-DW	MN00064	Nebraska	NE-OS-18-06
Alaska-UST	17-009	Nevada	MN00064
Arizona	AZ0014	New Hampshire	2081
Arkansas - WW	88-0680	New Jersey	MN002
Arkansas-DW	MN00064	New York	11647
California	2929	North Carolina-	27700
Colorado	MN00064	North Carolina-	530
Connecticut	PH-0256	North Dakota	R-036
Florida	E87605	Ohio-DW	41244
Georgia	959	Ohio-VAP (170	CL101
Hawaii	MN00064	Ohio-VAP (180	CL110
Idaho	MN00064	Oklahoma	9507
Illinois	200011	Oregon-Primary	MN300001
Indiana	C-MN-01	Oregon-Second	MN200001
Iowa	368	Pennsylvania	68-00563
Kansas	E-10167	Puerto Rico	MN00064
Kentucky-DW	90062	South Carolina	74003
Kentucky-WW	90062	Tennessee	TN02818
Louisiana-DEQ	AI-84596	Texas	T104704192
Louisiana-DW	MN00064	Utah	MN00064
Maine	MN00064	Vermont	VT-027053137
Maryland	322	Virginia	460163
Michigan	9909	Washington	C486
Minnesota	027-053-137	West Virginia-D	382
Minnesota-Ag	via MN 027-053	West Virginia-D	9952C
Minnesota-Petr	1240	Wisconsin	999407970
Mississippi	MN00064	Wyoming-UST	via A2LA 2926.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Appendix A

Sample Management

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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Sub-Contract Chain of Custody

Batch Date/Time: 04/15/24 12:59
Sub-Contract Lab: PACEMN
Address: 1700 Elm Street Suite 200
SE

City/State: Minneapolis, MN 55414
Contact:

Kirsten.Hogberg@pacelabs.com

Owner Lab: PACEMTJL

Address: 12065 Lebanon Rd.

City/State: Mt. Juliet, TN 37122

Phone: (615) 773-9756

Fax: (615) 758-5859

WO: WG2267310

Email: MTJLSuboutTeam@pacelabs.com

Results Due Date: 05/07/24

ESC Purchase Order #: L1725562

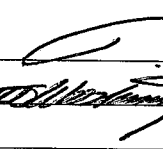
Send Reports to: James C Huckaba



12065 Lebanon Rd.
Mt. Juliet, TN 37122
Phone: (615) 773-9756
Fax: (615) 758-5859

Sample ID Container ID	Matrix	State	Collect Date	Description	Sample Number Lab Use Only	Sample Comments Lab Use Only
DU-3-SS-COMP-1 S46989458	SS	OR	04/10/24 13:45	SUBSV8290	1. L1725562-01	001
DU-4A-COMP-1 47289415	SS	OR	04/08/24 12:30	SUBSV8290	2. L1725562-02	002
DU-4B-COMP-1 47289416	SS	OR	04/10/24 12:33	SUBSV8290	3. L1725562-03	003
DU-4C-COMP-1 47289417	SS	OR	04/08/24 15:00	SUBSV8290	4. L1725562-04	004
DU-4D-COMP-1 47289418	SS	OR	04/09/24 16:35	SUBSV8290	5. L1725562-05	005
DU-4E-COMP-1 47289419	SS	OR	04/08/24 16:25	SUBSV8290	6. L1725562-06	006
DU-4F-COMP-1 47289420	SS	OR	04/09/24 09:30	SUBSV8290	7. L1725562-07	007
DU-4G-COMP-1 47289421	SS	OR	04/09/24 12:00	SUBSV8290	8. L1725562-08	008
DU-4H-COMP-1 47289422	SS	OR	04/09/24 13:50	SUBSV8290	9. L1725562-09	009
DU-4I-COMP-1 47289423	SS	OR	04/09/24 15:20	SUBSV8290	10. L1725562-10	010
DU-5-SS-COMP-1 47289424	SS	OR	04/10/24 14:40	SUBSV8290	11. L1725562-11	011
DU-6-COMP-1 47289425	SS	OR	04/10/24 09:50	SUBSV8290	12. L1725562-12	012
DU-6-SS-COMP-1 47289426	SS	OR	04/10/24 13:30	SUBSV8290	13. L1725562-13	013

*= Container used for multiple Samples and/or Analyses

Relinquished by:  Date: 4-15-24
Received by:  Date: 4/16/24 8:40
Relinquished by: _____ Date: _____
Received by: _____ Date: _____

WO#: 10689535



10689535

	DC#_Title: ENV-FRM-MIN4-0154 v02_USDA Regulated Soil Checklist
	Effective Date: 08/19/2022

USDA Regulated Soil Checklist

To be Completed by Sample Receiving:

WO: 10689535

Date: 4/16/24

Initials: JMCW

Sample Origin (check one): ☒ DOMESTIC

☐ QUARANTINED

☐ FOREIGN

NOTE: Soil samples from Hawaii, Guam, Puerto Rico, and the US Virgin Islands are Foreign originated.

If **DOMESTIC**, circle state of origin: AL AR AZ CA FL GA LA MS NC NM NY OK OR SC TN TX VA

Includes: IFA, SOD, Golden Nematode, Karnal Bunt, and Witchweed

List County: Lincoln County

(USDA Permit/Compliance Agreement authorizes movement of samples from these domestic regulated zones)

If **QUARANTINED**, circle state of origin: CA ID NY TX

Includes: Fruit Fly and Pale Cyst Nematode

List County: _____

(Movement is not authorized for Pale Cyst Nematode (ID)—remaining quarantines require additional paperwork)

If **FOREIGN**, list country of origin: _____

(Movement from some Canadian Provinces is not allowed. Refer to ENV-FRM-MIN4-0137 Regulated Soil Flow Chart)

REQUIREMENT	ACTION	COMPLETED		
PPQ-530 Paperwork must be included for any samples from counties with a Fruit Fly Quarantine in CA, NY, and TX. Reference ENV-SOP-MIN4-0095.	Scan PPQ-530 to the corresponding Project folder on the X:drive. If PPQ-530 is not present, contact the laboratory's designated USDA permit holder. Do NOT continue processing samples.	YES	NO	<u>N/A</u>
Samples from ID may not be moved from the quarantined region. Reference ENV-SOP-MIN4-0095.	If samples originated in a quarantined zone, contact the laboratory's designated USDA permit holder. Do NOT continue processing samples.	YES	NO	<u>N/A</u>
REQUIREMENT	ACTION	COMPLETED		
"Special Handling" stickers are to be placed on all samples.	Did "special handling" stickers get placed on all sample containers?	YES	NO	<u>N/A</u>
Samples must be segregated and stored in designated bins, shelves, and coolers.	Were samples placed in a designated cooler, containers, and shelves?	YES	NO	<u>N/A</u>
Samples must be double contained to prevent accidental release.	Were there any signs of breakage or leakage (check for broken glass and/or loose soil in the cooler)? NOTE: If NO, ice and melt water can be disposed of by normal process (ex: down the drain).	YES	<u>NO</u>	N/A
	If YES, were ice and melt water separated from the cooler and disposed of properly?	YES	NO	<u>N/A</u>
	Any broken glass and/or loose soil are to be bagged and placed in a USDA Regulated satellite container or active drum (see Waste Coordinator). Ice and melt water should be baked at a temperature range of 121-154°F for 2 hours and then cooled before going down the drain.			
Equipment and supplies that have come into contact samples must be decontaminated.	Was the cooler(s) and/or countertop(s) decontaminated using either a fresh 10% bleach solution or 70% ethanol? (Gloves and other lab supplies will be bagged and placed in the USDA Regulated satellite container or active drum).	YES	<u>NO</u>	

COMMENTS:

	DC#_Title: ENV-FRM-MIN4-0154 v02_USDA Regulated Soil Checklist
	Effective Date: 08/19/2022

To be Completed by Project Management (PM and/or PC):

Sample analysis will be conducted (circle all that apply):

(MN)

Subcontract Lab

If subcontract, list lab(s):

REQUIREMENT	ACTION	COMPLETED		
Permission to ship untreated soil must be on file prior to shipping to any subcontract lab, including IR Pace Labs.	Go to: S:\CLIENTSVR\10_Client Services Department Documents\Regulated Soils Permits\Permission to Ship If permission to ship letter is not there, contact the laboratory's designated USDA permit holder.	YES	NO	N/A
Shipment must include a valid copy of the receiving lab's permit as well as permission to ship letter.	Is a copy of all needed paperwork included with the COC? Do NOT ship samples until all necessary paperwork is compiled.	YES	NO	N/A

COMMENTS:

PM Signature: Kirsten Hogberg

Date: 4/16/2024

ENV-FRM-MIN4-0150 v15_Sample Condition Upon Receipt

CLIENT NAME: Pace MTH PROJECT #:COURIER: ☐ Client ☐ Commercial ☒ FedEx ☐ Pace
☐ Speedee ☐ UPS ☐ USPSTRACKING NUMBER: 735945970900 ☐ See Exceptions form
ENV-FRM-MIN4-0142

WO#: 10689535

PM: KNH Due Date: 05/07/24

CLIENT: ESC_TN

Custody Seal on Coole/Box Present: ☒ YES ☐ NO Seals Intact: ☒ YES ☐ NO Biological Tissue Frozen: ☐ YES ☐ NO ☒ N/A
Packing Material: ☒ Bubble Bags ☐ Bubble Wrap ☐ None ☐ Other Temp Blank: ☒ YES ☐ NO Type of Ice: ☐ Blue ☐ Dry ☒ Wet
Thermometer: ☐ T1 (0461) ☐ T2 (0436) ☒ T3 (0459) ☐ T4 (0402) ☐ T5 (0178) ☐ T6 (0235) ☐ Melted ☐ None
☐ T7 (0042) ☐ T8 (0775) ☐ T9 (0727) ☐ 01339252 (1710)

Did Samples Originate in West Virginia: ☐ YES ☒ NO	Were All Container Temps taken: ☐ YES ☐ NO ☒ N/A
Correction Factor: <u>-0.1</u> Cooler Temp Read w/Temp Blank: <u>1.6</u> °C	Average Corrected Temp (no Temp Blank Only): _____ °C
Cooler Temp Corrected w/Temp Blank: <u>1.5</u> °C	☐ See Exceptions Form ENV-FRM-MIN4-0142 ☐ 1 Container
NOTE: Temp should be above freezing to 6°C.	

USDA Regulated Soil: ☐ N/A - Water Sample/Other (describe): _____	Initials & Date of Person Examining Contents: <u>KNH 4/16/24</u>
Did Samples originate from one of the following states (check maps) - AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: ☒ YES ☐ NO	Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☒ NO
NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.	

LOCATION (check one): ☐ DULUTH ☒ MINNEAPOLIS ☐ VIRGINIA	YES	NO	N/A	COMMENT(S)								
Chain of Custody Present and Filled Out?	☒	☐	☐	1.								
Chain of Custody Relinquished?	☒	☐	☐	2.								
Sampler Name and/or Signature on COC?	☐	☐	☒	3.								
Samples Arrived within Hold Time?	☒	☐	☐	4. If Fecal: ☐ <8 hrs ☐ >8 hr, <24 hr ☐ No								
Short Hold Time Analysis (<72 hr)?	☐	☒	☐	5. ☐ BOD / cBOD ☐ Fecal coliform ☐ Hex Chrom ☐ HPC ☐ Nitrate ☐ Nitrite ☐ Ortho Phos ☐ Total coliform/E. coli ☐ Other: _____								
Rush Turn Around Time Requested?	☐	☒	☐	6.								
Sufficient Sample Volume?	☒	☐	☐	7.								
Correct Containers Used?	☒	☐	☐	8.								
- Pace Containers Used?	☐	☒	☐									
Containers Intact?	☒	☐	☐	9.								
Field Filtered Volume Received for Dissolved Tests?	☐	☐	☒	10. Is sediment visible in the dissolved container: ☐ YES ☐ NO								
Is sufficient information available to reconcile the samples to the COC? NOTE: If ID/Date/Time don't match fill out section 11. Matrix: ☐ Oil ☒ Soil ☐ Water ☐ Other	☒	☐	☐	11. If NO, write ID/Date/Time of container below: ☐ See Exceptions form ENV-FRM-MIN4-0142								
All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS NOTE: If adding preservative to a container, it must be added to associated field and equipment blanks—verify with PM first.	☐	☐	☒	12. Sample #: ☐ HNO ₃ ☐ H ₂ SO ₄ ☐ NaOH ☐ Zinc Acetate Positive for Residual Chlorine: ☐ YES ☐ NO pH Paper Lot # <table border="1"><thead><tr><th>Residual Chlorine</th><th>0-6 Roll</th><th>0-6 Strip</th><th>0-14 Strip</th></tr></thead><tbody><tr><td></td><td></td><td></td><td></td></tr></tbody></table> ☐ See Exceptions form ENV-FRM-MIN4-0142	Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip				
Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip									
Headspace in Methyl Mercury Container?	☐	☐	☒	13.								
Extra labels present on soil VOA or WIDRO containers?	☐	☐	☒	14.								
Headspace in VOA Vials (greater than 6mm)?	☐	☐	☒	☐ See Exceptions form ENV-FRM-MIN4-0142								
Trip Blanks Present?	☐	☐	☒	15.								
Trip Blank Custody Seals Present?	☐	☐	☒	Pace Trip Blank Lot # (if purchased): _____								

CLIENT NOTIFICATION / RESOLUTION

FIELD DATA REQUIRED: ☐ YES ☐ NO

Person Contacted: _____ Date & Time: _____

Comments / Resolution: _____

Project Manager Review: Kirsten HogbergDate: 4/16/2024

NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: JMW Line: 2

Qualtrax ID: 52742

Effective Date: 02/06/24

Page 1 of 1

Pace® Analytical Services, LLC (PAS)

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page 9 of 32

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Company:	Pace Analytical		
Address:	12065 Lebanon Rd.		
	Mt. Juliet, TN 37122		
Email:	MTJLSuboutTeam@pacelabs.com		
Phone:	(615) 773-9756	Fax:	(615) 758-5859
Requested Due Date:	7-May		

Report To:	Pace Analytical Subout Team
Copy To:	
Purchase Order #:	L1725562
Project Name:	King Salvage
Project #:	32-23010077

Attention:	Andrew Bisbee
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Kirsten Hogberg
Pace Profile #:	38076

Mt. Juliet, TN 37122		Address:		Regulatory Agency
Email: MTJLSuboutTeam@pacelabs.com		Purchase Order #: L1725562		
Phone: (615) 773-9756		Fax: (615) 758-5859		State / Location
Requested Due Date: 7-May		Project Name: King Salvage		
		Project #: 32-23010077		OR
		Pace Profile #: 38076		

[illegible][illegible]

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed:				



Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Reporting Flags

- A = Reporting Limit based on signal to noise (EDL)
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- H2 = Extracted outside of holding time
- I = Isotope ratio out of specification
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

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Appendix B

Sample Analysis Summary

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - Pace Analytical National

Client's Sample ID	DU-3-SS-COMP-1		
Lab Sample ID	10689535001		
Filename	L240422A_11		
Injected By	AH5		
Total Amount Extracted	19.0 g	Matrix	SOLID
% Moisture	37.2	Dilution	NA
Dry Weight Extracted	11.9 g	Collected	04/10/2024 13:45
ICAL ID	L240401	Received	04/16/2024 08:40
CCal Filename(s)	L240422A_05 & L240422A_21	Extracted	04/17/2024 14:30
Method Blank ID	BLANK-112389	Analyzed	04/22/2024 18:54

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	—	0.10		2,3,7,8-TCDF-13C	2.00	81
Total TCDF	0.47	—	0.10 J		2,3,7,8-TCDD-13C	2.00	74
					1,2,3,7,8-PeCDF-13C	2.00	89
2,3,7,8-TCDD	—	0.11	0.069 JI		2,3,4,7,8-PeCDF-13C	2.00	90
Total TCDD	0.23	—	0.069 J		1,2,3,7,8-PeCDD-13C	2.00	98
					1,2,3,4,7,8-HxCDF-13C	2.00	81
1,2,3,7,8-PeCDF	ND	—	0.053		1,2,3,6,7,8-HxCDF-13C	2.00	79
2,3,4,7,8-PeCDF	ND	—	0.049		2,3,4,6,7,8-HxCDF-13C	2.00	78
Total PeCDF	ND	—	0.049		1,2,3,7,8,9-HxCDF-13C	2.00	70
					1,2,3,4,7,8-HxCDD-13C	2.00	76
1,2,3,7,8-PeCDD	ND	—	0.11		1,2,3,6,7,8-HxCDD-13C	2.00	83
Total PeCDD	0.13	—	0.11 J		1,2,3,4,6,7,8-HpCDF-13C	2.00	71
					1,2,3,4,7,8,9-HpCDF-13C	2.00	68
1,2,3,4,7,8-HxCDF	ND	—	0.047		1,2,3,4,6,7,8-HpCDD-13C	2.00	75
1,2,3,6,7,8-HxCDF	ND	—	0.044		OCDD-13C	4.00	66
2,3,4,6,7,8-HxCDF	ND	—	0.046				
1,2,3,7,8,9-HxCDF	0.11	—	0.066 J		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.11	—	0.044 J		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	0.15	—	0.076 BJ		2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	0.077	—	0.071 J				
1,2,3,7,8,9-HxCDD	—	0.16	0.071 JI				
Total HxCDD	0.80	—	0.071 BJ				
1,2,3,4,6,7,8-HpCDF	ND	—	0.064		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	—	0.090		Equivalence: 0.17 ng/Kg		
Total HpCDF	0.16	—	0.064 J		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.66	—	0.11 J				
Total HpCDD	0.66	—	0.11 J				
OCDF	—	0.15	0.081 JI				
OCDD	2.6	—	0.057 J				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

B = Less than 10x higher than method blank level

I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - Pace Analytical National

Client's Sample ID	DU-4A-COMP-1		
Lab Sample ID	10689535002		
Filename	L240422A_12		
Injected By	AH5		
Total Amount Extracted	14.8 g	Matrix	SOLID
% Moisture	33.1	Dilution	NA
Dry Weight Extracted	9.88 g	Collected	04/08/2024 12:30
ICAL ID	L240401	Received	04/16/2024 08:40
CCal Filename(s)	L240422A_05 & L240422A_21	Extracted	04/17/2024 14:30
Method Blank ID	BLANK-112389	Analyzed	04/22/2024 19:39

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.18	—	0.14	J	2,3,7,8-TCDF-13C	2.00	73
Total TCDF	3.4	—	0.14		2,3,7,8-TCDD-13C	2.00	66
					1,2,3,7,8-PeCDF-13C	2.00	61
2,3,7,8-TCDD	ND	—	0.084		2,3,4,7,8-PeCDF-13C	2.00	61
Total TCDD	0.71	—	0.084	J	1,2,3,7,8-PeCDD-13C	2.00	65
					1,2,3,4,7,8-HxCDF-13C	2.00	65
1,2,3,7,8-PeCDF	0.24	—	0.20	J	1,2,3,6,7,8-HxCDF-13C	2.00	63
2,3,4,7,8-PeCDF	0.33	—	0.20	J	2,3,4,6,7,8-HxCDF-13C	2.00	62
Total PeCDF	4.8	—	0.20	J	1,2,3,7,8,9-HxCDF-13C	2.00	59
					1,2,3,4,7,8-HxCDD-13C	2.00	63
1,2,3,7,8-PeCDD	ND	—	0.22		1,2,3,6,7,8-HxCDD-13C	2.00	64
Total PeCDD	0.55	—	0.22	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	58
					1,2,3,4,7,8,9-HpCDF-13C	2.00	56
1,2,3,4,7,8-HxCDF	0.50	—	0.33	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	62
1,2,3,6,7,8-HxCDF	0.37	—	0.33	J	OCDD-13C	4.00	53
2,3,4,6,7,8-HxCDF	—	0.45	0.31	Jl			
1,2,3,7,8,9-HxCDF	ND	—	0.42		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	3.6	—	0.31	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	0.32	—	0.23	BJ	2,3,7,8-TCDD-37Cl4	0.20	69
1,2,3,6,7,8-HxCDD	0.59	—	0.20	J			
1,2,3,7,8,9-HxCDD	—	0.34	0.21	Jl			
Total HxCDD	3.1	—	0.20	J			
1,2,3,4,6,7,8-HpCDF	2.7	—	0.31	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	—	0.41		Equivalence: 0.51 ng/Kg		
Total HpCDF	2.7	—	0.31	J	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	8.5	—	0.13				
Total HpCDD	16	—	0.13				
OCDF	—	2.4	0.56	Jl			
OCDD	68	—	0.30				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

EDL = Estimated Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

B = Less than 10x higher than method blank level

I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - Pace Analytical National

Client's Sample ID	DU-4B-COMP-1		
Lab Sample ID	10689535003		
Filename	L240422A_13		
Injected By	AH5		
Total Amount Extracted	13.4 g	Matrix	SOLID
% Moisture	29.5	Dilution	NA
Dry Weight Extracted	9.44 g	Collected	04/10/2024 12:33
ICAL ID	L240401	Received	04/16/2024 08:40
CCal Filename(s)	L240422A_05 & L240422A_21	Extracted	04/17/2024 14:30
Method Blank ID	BLANK-112389	Analyzed	04/22/2024 20:25

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	—	0.098		2,3,7,8-TCDF-13C	2.00	92
Total TCDF	1.1	—	0.098		2,3,7,8-TCDD-13C	2.00	82
					1,2,3,7,8-PeCDF-13C	2.00	91
2,3,7,8-TCDD	ND	—	0.13		2,3,4,7,8-PeCDF-13C	2.00	94
Total TCDD	0.29	—	0.13	J	1,2,3,7,8-PeCDD-13C	2.00	102
					1,2,3,4,7,8-HxCDF-13C	2.00	83
1,2,3,7,8-PeCDF	ND	—	0.044		1,2,3,6,7,8-HxCDF-13C	2.00	83
2,3,4,7,8-PeCDF	—	0.089	0.042	Jl	2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	0.20	—	0.042	J	1,2,3,7,8,9-HxCDF-13C	2.00	78
					1,2,3,4,7,8-HxCDD-13C	2.00	82
1,2,3,7,8-PeCDD	ND	—	0.075		1,2,3,6,7,8-HxCDD-13C	2.00	88
Total PeCDD	0.34	—	0.075	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	80
					1,2,3,4,7,8,9-HpCDF-13C	2.00	78
1,2,3,4,7,8-HxCDF	0.18	—	0.048	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	86
1,2,3,6,7,8-HxCDF	0.13	—	0.049	J	OCDD-13C	4.00	78
2,3,4,6,7,8-HxCDF	—	0.14	0.046	Jl			
1,2,3,7,8,9-HxCDF	ND	—	0.057		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	1.7	—	0.046	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	0.25	—	0.11	BJ	2,3,7,8-TCDD-37Cl4	0.20	83
1,2,3,6,7,8-HxCDD	—	0.18	0.088	Jl			
1,2,3,7,8,9-HxCDD	—	0.13	0.094	Jl			
Total HxCDD	0.54	—	0.088	BJ			
1,2,3,4,6,7,8-HpCDF	1.1	—	0.11	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	—	0.14		Equivalence: 0.20 ng/Kg		
Total HpCDF	1.1	—	0.11	J	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	5.0	—	0.060	J			
Total HpCDD	8.8	—	0.060				
OCDF	5.3	—	0.11	J			
OCDD	49	—	0.12				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

B = Less than 10x higher than method blank level

I = Isotope ratio out of specification

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Method 8290 Sample Analysis Results

Client - Pace Analytical National

Client's Sample ID	DU-4C-COMP-1		
Lab Sample ID	10689535004		
Filename	L240422A_14		
Injected By	AH5		
Total Amount Extracted	13.9 g	Matrix	SOLID
% Moisture	29.4	Dilution	NA
Dry Weight Extracted	9.81 g	Collected	04/08/2024 15:00
ICAL ID	L240401	Received	04/16/2024 08:40
CCal Filename(s)	L240422A_05 & L240422A_21	Extracted	04/17/2024 14:30
Method Blank ID	BLANK-112389	Analyzed	04/22/2024 21:10

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	6.2	—	0.14	2,3,7,8-TCDF-13C	2.00	86
Total TCDF	19	—	0.14	2,3,7,8-TCDD-13C	2.00	78
				1,2,3,7,8-PeCDF-13C	2.00	89
2,3,7,8-TCDD	0.37	—	0.10 J	2,3,4,7,8-PeCDF-13C	2.00	90
Total TCDD	8.5	—	0.10	1,2,3,7,8-PeCDD-13C	2.00	98
				1,2,3,4,7,8-HxCDF-13C	2.00	77
1,2,3,7,8-PeCDF	8.7	—	0.068	1,2,3,6,7,8-HxCDF-13C	2.00	77
2,3,4,7,8-PeCDF	9.8	—	0.069	2,3,4,6,7,8-HxCDF-13C	2.00	73
Total PeCDF	140	—	0.068	1,2,3,7,8,9-HxCDF-13C	2.00	72
				1,2,3,4,7,8-HxCDD-13C	2.00	75
1,2,3,7,8-PeCDD	6.6	—	0.064	1,2,3,6,7,8-HxCDD-13C	2.00	80
Total PeCDD	38	—	0.064	1,2,3,4,6,7,8-HpCDF-13C	2.00	68
				1,2,3,4,7,8,9-HpCDF-13C	2.00	70
1,2,3,4,7,8-HxCDF	13	—	0.16	1,2,3,4,6,7,8-HpCDD-13C	2.00	77
1,2,3,6,7,8-HxCDF	6.3	—	0.16	OCDD-13C	4.00	78
2,3,4,6,7,8-HxCDF	11	—	0.16			
1,2,3,7,8,9-HxCDF	6.0	—	0.20	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	410	—	0.16	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	20	—	0.061	2,3,7,8-TCDD-37Cl4	0.20	74
1,2,3,6,7,8-HxCDD	120	—	0.052			
1,2,3,7,8,9-HxCDD	35	—	0.055			
Total HxCDD	480	—	0.052			
1,2,3,4,6,7,8-HpCDF	150	—	0.28	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	—	4.4	0.36 JI	Equivalence: 61 ng/Kg		
Total HpCDF	370	—	0.28	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	2300	—	0.023			
Total HpCDD	3900	—	0.023			
OCDF	65	—	0.045			
OCDD	14000	—	0.25 E			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

EDL = Estimated Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

E = Exceeds calibration range

I = Isotope ratio out of specification

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Method 8290 Sample Analysis Results

Client - Pace Analytical National

Client's Sample ID	DU-4D-COMP-1		
Lab Sample ID	10689535005		
Filename	L240422A_15		
Injected By	AH5		
Total Amount Extracted	15.9 g	Matrix	SOLID
% Moisture	26.5	Dilution	NA
Dry Weight Extracted	11.7 g	Collected	04/09/2024 16:35
ICAL ID	L240401	Received	04/16/2024 08:40
CCal Filename(s)	L240422A_05 & L240422A_21	Extracted	04/17/2024 14:30
Method Blank ID	BLANK-112389	Analyzed	04/22/2024 21:56

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.51	—	0.16	J	2,3,7,8-TCDF-13C	2.00	93
Total TCDF	8.8	—	0.16		2,3,7,8-TCDD-13C	2.00	85
					1,2,3,7,8-PeCDF-13C	2.00	95
2,3,7,8-TCDD	ND	—	0.082		2,3,4,7,8-PeCDF-13C	2.00	98
Total TCDD	0.15	—	0.082	J	1,2,3,7,8-PeCDD-13C	2.00	105
					1,2,3,4,7,8-HxCDF-13C	2.00	86
1,2,3,7,8-PeCDF	—	0.28	0.070	JI	1,2,3,6,7,8-HxCDF-13C	2.00	82
2,3,4,7,8-PeCDF	—	0.48	0.064	JI	2,3,4,6,7,8-HxCDF-13C	2.00	84
Total PeCDF	28	—	0.064		1,2,3,7,8,9-HxCDF-13C	2.00	77
					1,2,3,4,7,8-HxCDD-13C	2.00	83
1,2,3,7,8-PeCDD	—	0.14	0.079	JI	1,2,3,6,7,8-HxCDD-13C	2.00	89
Total PeCDD	1.7	—	0.079	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	79
					1,2,3,4,7,8,9-HpCDF-13C	2.00	75
1,2,3,4,7,8-HxCDF	0.67	—	0.14	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	83
1,2,3,6,7,8-HxCDF	0.63	—	0.14	J	OCDD-13C	4.00	75
2,3,4,6,7,8-HxCDF	1.1	—	0.14	J			
1,2,3,7,8,9-HxCDF	0.26	—	0.18	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	25	—	0.14		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	—	0.36	0.099	JI	2,3,7,8-TCDD-37Cl4	0.20	76
1,2,3,6,7,8-HxCDD	1.3	—	0.085	J			
1,2,3,7,8,9-HxCDD	—	0.62	0.089	JI			
Total HxCDD	7.1	—	0.085				
1,2,3,4,6,7,8-HpCDF	20	—	0.30		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	—	0.87	0.40	JI	Equivalence: 1.9 ng/Kg		
Total HpCDF	81	—	0.30		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	50	—	0.11				
Total HpCDD	82	—	0.11				
OCDF	82	—	0.18				
OCDD	940	—	0.18				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - Pace Analytical National

Client's Sample ID	DU-4E-COMP-1		
Lab Sample ID	10689535006		
Filename	L240422A_16		
Injected By	AH5		
Total Amount Extracted	14.6 g	Matrix	SOLID
% Moisture	26.5	Dilution	NA
Dry Weight Extracted	10.8 g	Collected	04/08/2024 16:25
ICAL ID	L240401	Received	04/16/2024 08:40
CCal Filename(s)	L240422A_05 & L240422A_21	Extracted	04/17/2024 14:30
Method Blank ID	BLANK-112389	Analyzed	04/22/2024 22:41

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	1.3	—	0.12		2,3,7,8-TCDF-13C	2.00	94
Total TCDF	43	—	0.12		2,3,7,8-TCDD-13C	2.00	86
					1,2,3,7,8-PeCDF-13C	2.00	88
2,3,7,8-TCDD	—	0.25	0.15	Jl	2,3,4,7,8-PeCDF-13C	2.00	90
Total TCDD	5.6	—	0.15		1,2,3,7,8-PeCDD-13C	2.00	98
					1,2,3,4,7,8-HxCDF-13C	2.00	84
1,2,3,7,8-PeCDF	1.4	—	0.11	J	1,2,3,6,7,8-HxCDF-13C	2.00	82
2,3,4,7,8-PeCDF	3.5	—	0.10	J	2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	34	—	0.10		1,2,3,7,8,9-HxCDF-13C	2.00	80
					1,2,3,4,7,8-HxCDD-13C	2.00	83
1,2,3,7,8-PeCDD	0.64	—	0.083	J	1,2,3,6,7,8-HxCDD-13C	2.00	88
Total PeCDD	10.0	—	0.083		1,2,3,4,6,7,8-HpCDF-13C	2.00	74
					1,2,3,4,7,8,9-HpCDF-13C	2.00	75
1,2,3,4,7,8-HxCDF	1.8	—	0.28	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	84
1,2,3,6,7,8-HxCDF	2.4	—	0.30	J	OCDD-13C	4.00	67
2,3,4,6,7,8-HxCDF	3.3	—	0.27	J			
1,2,3,7,8,9-HxCDF	0.87	—	0.36	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	32	—	0.27		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.0	—	0.15	BJ	2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	2.6	—	0.12	J			
1,2,3,7,8,9-HxCDD	1.7	—	0.13	J			
Total HxCDD	21	—	0.12				
1,2,3,4,6,7,8-HpCDF	16	—	0.35		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	1.2	—	0.45	J	Equivalence: 4.3 ng/Kg		
Total HpCDF	19	—	0.35		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	50	—	0.19				
Total HpCDD	97	—	0.19				
OCDF	13	—	0.49				
OCDD	530	—	0.65				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

EDL = Estimated Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

B = Less than 10x higher than method blank level

I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - Pace Analytical National

Client's Sample ID	DU-4F-COMP-1		
Lab Sample ID	10689535007		
Filename	L240423A_10		
Injected By	AH5		
Total Amount Extracted	13.7 g	Matrix	SOLID
% Moisture	26.1	Dilution	NA
Dry Weight Extracted	10.1 g	Collected	04/09/2024 09:30
ICAL ID	L240401	Received	04/16/2024 08:40
CCal Filename(s)	L240422A_21 & L240423A_16	Extracted	04/17/2024 14:30
Method Blank ID	BLANK-112389	Analyzed	04/23/2024 10:04

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	17	—	0.86	2,3,7,8-TCDF-13C	2.00	72
Total TCDF	770	—	0.86	2,3,7,8-TCDD-13C	2.00	60
				1,2,3,7,8-PeCDF-13C	2.00	60
2,3,7,8-TCDD	3.7	—	0.81	2,3,4,7,8-PeCDF-13C	2.00	60
Total TCDD	210	—	0.81	1,2,3,7,8-PeCDD-13C	2.00	65
				1,2,3,4,7,8-HxCDF-13C	2.00	68
1,2,3,7,8-PeCDF	29	—	0.66	1,2,3,6,7,8-HxCDF-13C	2.00	66
2,3,4,7,8-PeCDF	53	—	0.62	2,3,4,6,7,8-HxCDF-13C	2.00	64
Total PeCDF	680	—	0.62	1,2,3,7,8,9-HxCDF-13C	2.00	61
				1,2,3,4,7,8-HxCDD-13C	2.00	62
1,2,3,7,8-PeCDD	14	—	0.25	1,2,3,6,7,8-HxCDD-13C	2.00	65
Total PeCDD	280	—	0.25	1,2,3,4,6,7,8-HpCDF-13C	2.00	42
				1,2,3,4,7,8,9-HpCDF-13C	2.00	35 R
1,2,3,4,7,8-HxCDF	—	68	0.67 P	1,2,3,4,6,7,8-HpCDD-13C	2.00	38 R
1,2,3,6,7,8-HxCDF	49	—	0.68	OCDD-13C	4.00	23 R
2,3,4,6,7,8-HxCDF	53	—	0.64			
1,2,3,7,8,9-HxCDF	18	—	0.86	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	560	—	0.64	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	15	—	0.39	2,3,7,8-TCDD-37Cl4	0.20	60
1,2,3,6,7,8-HxCDD	37	—	0.34			
1,2,3,7,8,9-HxCDD	23	—	0.35			
Total HxCDD	420	—	0.34			
1,2,3,4,6,7,8-HpCDF	360	—	1.3	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	—	21	2.1 I	Equivalence: 72 ng/Kg		
Total HpCDF	360	—	1.3	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	500	—	0.84			
Total HpCDD	1100	—	0.84			
OCDF	220	—	1.6			
OCDD	4000	—	1.2			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

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ND = Not Detected

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NC = Not Calculated

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I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - Pace Analytical National

Client's Sample ID	DU-4G-COMP-1		
Lab Sample ID	10689535008		
Filename	L240422A_17		
Injected By	AH5		
Total Amount Extracted	14.6 g	Matrix	SOLID
% Moisture	23.8	Dilution	NA
Dry Weight Extracted	11.2 g	Collected	04/09/2024 12:00
ICAL ID	L240401	Received	04/16/2024 08:40
CCal Filename(s)	L240422A_05 & L240422A_21	Extracted	04/17/2024 14:30
Method Blank ID	BLANK-112389	Analyzed	04/22/2024 23:27

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	1.4	—	0.27		2,3,7,8-TCDF-13C	2.00	78
Total TCDF	17	—	0.27		2,3,7,8-TCDD-13C	2.00	68
					1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	ND	—	0.23		2,3,4,7,8-PeCDF-13C	2.00	79
Total TCDD	0.71	—	0.23	J	1,2,3,7,8-PeCDD-13C	2.00	86
					1,2,3,4,7,8-HxCDF-13C	2.00	72
1,2,3,7,8-PeCDF	1.9	—	0.067	J	1,2,3,6,7,8-HxCDF-13C	2.00	71
2,3,4,7,8-PeCDF	2.1	—	0.066	J	2,3,4,6,7,8-HxCDF-13C	2.00	70
Total PeCDF	20	—	0.066		1,2,3,7,8,9-HxCDF-13C	2.00	68
					1,2,3,4,7,8-HxCDD-13C	2.00	72
1,2,3,7,8-PeCDD	0.58	—	0.094	J	1,2,3,6,7,8-HxCDD-13C	2.00	75
Total PeCDD	1.5	—	0.094	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	63
					1,2,3,4,7,8,9-HpCDF-13C	2.00	62
1,2,3,4,7,8-HxCDF	3.5	—	0.21	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	70
1,2,3,6,7,8-HxCDF	3.5	—	0.20	J	OCDD-13C	4.00	59
2,3,4,6,7,8-HxCDF	2.3	—	0.20	J			
1,2,3,7,8,9-HxCDF	1.6	—	0.25	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	38	—	0.20		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.0	—	0.16	BJ	2,3,7,8-TCDD-37Cl4	0.20	69
1,2,3,6,7,8-HxCDD	9.8	—	0.14				
1,2,3,7,8,9-HxCDD	3.0	—	0.15	J			
Total HxCDD	54	—	0.14				
1,2,3,4,6,7,8-HpCDF	23	—	0.30		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	5.3	—	0.38		Equivalence: 7.4 ng/Kg		
Total HpCDF	51	—	0.30		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	280	—	0.22				
Total HpCDD	500	—	0.22				
OCDF	49	—	0.33				
OCDD	1400	—	0.39				

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B = Less than 10x higher than method blank level

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Method 8290 Sample Analysis Results

Client - Pace Analytical National

Client's Sample ID	DU-4H-COMP-1		
Lab Sample ID	10689535009		
Filename	L240423B_09		
Injected By	SMT		
Total Amount Extracted	12.6 g	Matrix	SOLID
% Moisture	30.9	Dilution	NA
Dry Weight Extracted	8.70 g	Collected	04/09/2024 13:50
ICAL ID	L240401	Received	04/16/2024 08:40
CCal Filename(s)	L240423A_16 & L240423B_16	Extracted	04/18/2024 14:30
Method Blank ID	BLANK-112406	Analyzed	04/23/2024 21:32

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	—	0.37	2,3,7,8-TCDF-13C	2.00	75
Total TCDF	3.9	—	0.37	2,3,7,8-TCDD-13C	2.00	66
				1,2,3,7,8-PeCDF-13C	2.00	88
2,3,7,8-TCDD	ND	—	0.23	2,3,4,7,8-PeCDF-13C	2.00	79
Total TCDD	ND	—	0.23	1,2,3,7,8-PeCDD-13C	2.00	86
				1,2,3,4,7,8-HxCDF-13C	2.00	77
1,2,3,7,8-PeCDF	ND	—	0.10	1,2,3,6,7,8-HxCDF-13C	2.00	73
2,3,4,7,8-PeCDF	—	0.57	0.10 JI	2,3,4,6,7,8-HxCDF-13C	2.00	74
Total PeCDF	4.8	—	0.10 J	1,2,3,7,8,9-HxCDF-13C	2.00	62
				1,2,3,4,7,8-HxCDD-13C	2.00	63
1,2,3,7,8-PeCDD	ND	—	0.30	1,2,3,6,7,8-HxCDD-13C	2.00	75
Total PeCDD	0.74	—	0.30 J	1,2,3,4,6,7,8-HpCDF-13C	2.00	54
				1,2,3,4,7,8,9-HpCDF-13C	2.00	67 Y
1,2,3,4,7,8-HxCDF	—	0.49	0.25 JI	1,2,3,4,6,7,8-HpCDD-13C	2.00	53
1,2,3,6,7,8-HxCDF	—	0.32	0.28 JI	OCDD-13C	4.00	47 Y
2,3,4,6,7,8-HxCDF	0.74	—	0.27 J			
1,2,3,7,8,9-HxCDF	ND	—	0.43	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	4.2	—	0.25 J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	0.48	—	0.23 J	2,3,7,8-TCDD-37Cl4	0.20	71
1,2,3,6,7,8-HxCDD	0.52	—	0.21 J			
1,2,3,7,8,9-HxCDD	—	0.44	0.22 JI			
Total HxCDD	5.6	—	0.21 J			
1,2,3,4,6,7,8-HpCDF	3.4	—	0.40 J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	—	0.58	Equivalence: 0.63 ng/Kg		
Total HpCDF	3.4	—	0.40 J	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	9.6	—	0.20			
Total HpCDD	19	—	0.20			
OCDF	—	3.1	0.87 JI			
OCDD	75	—	0.19			

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J = Estimated value

I = Isotope ratio out of specification

Y = Calculated using average of daily RFs

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Method 8290 Sample Analysis Results

Client - Pace Analytical National

Client's Sample ID	DU-4I-COMP-1		
Lab Sample ID	10689535010		
Filename	L240423B_10		
Injected By	SMT		
Total Amount Extracted	12.7 g	Matrix	SOLID
% Moisture	27.4	Dilution	NA
Dry Weight Extracted	9.21 g	Collected	04/09/2024 15:20
ICAL ID	L240401	Received	04/16/2024 08:40
CCal Filename(s)	L240423A_16 & L240423B_16	Extracted	04/18/2024 14:30
Method Blank ID	BLANK-112406	Analyzed	04/23/2024 22:17

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	2.2	—	0.16		2,3,7,8-TCDF-13C	2.00	68
Total TCDF	60	—	0.16		2,3,7,8-TCDD-13C	2.00	59
					1,2,3,7,8-PeCDF-13C	2.00	66
2,3,7,8-TCDD	ND	—	0.39		2,3,4,7,8-PeCDF-13C	2.00	67
Total TCDD	7.8	—	0.39		1,2,3,7,8-PeCDD-13C	2.00	71
					1,2,3,4,7,8-HxCDF-13C	2.00	63
1,2,3,7,8-PeCDF	2.6	—	0.27	J	1,2,3,6,7,8-HxCDF-13C	2.00	64
2,3,4,7,8-PeCDF	6.3	—	0.24		2,3,4,6,7,8-HxCDF-13C	2.00	59
Total PeCDF	66	—	0.24		1,2,3,7,8,9-HxCDF-13C	2.00	51
					1,2,3,4,7,8-HxCDD-13C	2.00	60
1,2,3,7,8-PeCDD	1.00	—	0.16	J	1,2,3,6,7,8-HxCDD-13C	2.00	64
Total PeCDD	18	—	0.16		1,2,3,4,6,7,8-HpCDF-13C	2.00	42
					1,2,3,4,7,8,9-HpCDF-13C	2.00	46 Y
1,2,3,4,7,8-HxCDF	—	13	0.45	P	1,2,3,4,6,7,8-HpCDD-13C	2.00	40
1,2,3,6,7,8-HxCDF	6.1	—	0.47		OCDD-13C	4.00	29 RY
2,3,4,6,7,8-HxCDF	6.8	—	0.46				
1,2,3,7,8,9-HxCDF	4.0	—	0.67	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	72	—	0.45		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.7	—	0.22	J	2,3,7,8-TCDD-37Cl ₄	0.20	70
1,2,3,6,7,8-HxCDD	4.7	—	0.20	J			
1,2,3,7,8,9-HxCDD	3.2	—	0.21	J			
Total HxCDD	49	—	0.20				
1,2,3,4,6,7,8-HpCDF	32	—	0.71		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	8.7	—	1.2		Equivalence: 8.6 ng/Kg		
Total HpCDF	72	—	0.71		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	84	—	0.48				
Total HpCDD	180	—	0.48				
OCDF	52	—	0.91				
OCDD	690	—	0.85				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

EDL = Estimated Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

R = Recovery outside target range

P = PCDE Interference

Y = Calculated using average of daily RFs

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Method 8290 Sample Analysis Results

Client - Pace Analytical National

Client's Sample ID	DU-5-SS-COMP-1		
Lab Sample ID	10689535011		
Filename	L240423B_11		
Injected By	SMT		
Total Amount Extracted	15.9 g	Matrix	SOLID
% Moisture	36.6	Dilution	NA
Dry Weight Extracted	10.1 g	Collected	04/10/2024 14:40
ICAL ID	L240401	Received	04/16/2024 08:40
CCal Filename(s)	L240423A_16 & L240423B_16	Extracted	04/18/2024 14:30
Method Blank ID	BLANK-112406	Analyzed	04/23/2024 23:03

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	—	0.32	2,3,7,8-TCDF-13C	2.00	46
Total TCDF	ND	—	0.32	2,3,7,8-TCDD-13C	2.00	37 R
				1,2,3,7,8-PeCDF-13C	2.00	57
2,3,7,8-TCDD	ND	—	0.45	2,3,4,7,8-PeCDF-13C	2.00	51
Total TCDD	ND	—	0.45	1,2,3,7,8-PeCDD-13C	2.00	55
				1,2,3,4,7,8-HxCDF-13C	2.00	62
1,2,3,7,8-PeCDF	ND	—	0.32	1,2,3,6,7,8-HxCDF-13C	2.00	54
2,3,4,7,8-PeCDF	ND	—	0.32	2,3,4,6,7,8-HxCDF-13C	2.00	53
Total PeCDF	ND	—	0.32	1,2,3,7,8,9-HxCDF-13C	2.00	39 R
				1,2,3,4,7,8-HxCDD-13C	2.00	48
1,2,3,7,8-PeCDD	ND	—	0.13	1,2,3,6,7,8-HxCDD-13C	2.00	53
Total PeCDD	ND	—	0.13	1,2,3,4,6,7,8-HpCDF-13C	2.00	38 R
				1,2,3,4,7,8,9-HpCDF-13C	2.00	42 Y
1,2,3,4,7,8-HxCDF	ND	—	0.16	1,2,3,4,6,7,8-HpCDD-13C	2.00	35 R
1,2,3,6,7,8-HxCDF	ND	—	0.19	OCDD-13C	4.00	26 RY
2,3,4,6,7,8-HxCDF	ND	—	0.18			
1,2,3,7,8,9-HxCDF	ND	—	0.35	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	—	0.16	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	—	0.24	2,3,7,8-TCDD-37Cl4	0.20	63
1,2,3,6,7,8-HxCDD	ND	—	0.21			
1,2,3,7,8,9-HxCDD	ND	—	0.22			
Total HxCDD	ND	—	0.21			
1,2,3,4,6,7,8-HpCDF	—	0.47	0.39 JI	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	—	0.67	Equivalence: 0.020 ng/Kg		
Total HpCDF	ND	—	0.39	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	—	1.2	0.51 JI			
Total HpCDD	ND	—	0.51			
OCDF	ND	—	1.1			
OCDD	—	9.5	0.85 JI			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

EDL = Estimated Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

R = Recovery outside target range

I = Isotope ratio out of specification

Y = Calculated using average of daily RFs

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Method 8290 Sample Analysis Results

Client - Pace Analytical National

Client's Sample ID	DU-6-COMP-1		
Lab Sample ID	10689535012		
Filename	L240423B_12		
Injected By	SMT		
Total Amount Extracted	15.2 g	Matrix	SOLID
% Moisture	30.2	Dilution	NA
Dry Weight Extracted	10.6 g	Collected	04/10/2024 09:50
ICAL ID	L240401	Received	04/16/2024 08:40
CCal Filename(s)	L240423A_16 & L240423B_16	Extracted	04/18/2024 14:30
Method Blank ID	BLANK-112406	Analyzed	04/23/2024 23:48

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	—	0.16		2,3,7,8-TCDF-13C	2.00	80
Total TCDF	0.44	—	0.16 J		2,3,7,8-TCDD-13C	2.00	69
					1,2,3,7,8-PeCDF-13C	2.00	84
2,3,7,8-TCDD	ND	—	0.29		2,3,4,7,8-PeCDF-13C	2.00	79
Total TCDD	ND	—	0.29		1,2,3,7,8-PeCDD-13C	2.00	81
					1,2,3,4,7,8-HxCDF-13C	2.00	81
1,2,3,7,8-PeCDF	ND	—	0.10		1,2,3,6,7,8-HxCDF-13C	2.00	79
2,3,4,7,8-PeCDF	ND	—	0.098		2,3,4,6,7,8-HxCDF-13C	2.00	79
Total PeCDF	ND	—	0.098		1,2,3,7,8,9-HxCDF-13C	2.00	64
					1,2,3,4,7,8-HxCDD-13C	2.00	67
1,2,3,7,8-PeCDD	ND	—	0.16		1,2,3,6,7,8-HxCDD-13C	2.00	80
Total PeCDD	0.30	—	0.16 J		1,2,3,4,6,7,8-HpCDF-13C	2.00	50
					1,2,3,4,7,8,9-HpCDF-13C	2.00	58 Y
1,2,3,4,7,8-HxCDF	0.32	—	0.21 J		1,2,3,4,6,7,8-HpCDD-13C	2.00	47
1,2,3,6,7,8-HxCDF	ND	—	0.23		OCDD-13C	4.00	35 RY
2,3,4,6,7,8-HxCDF	0.23	—	0.22 J				
1,2,3,7,8,9-HxCDF	ND	—	0.35		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.55	—	0.21 J		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	0.28	—	0.21 J		2,3,7,8-TCDD-37Cl4	0.20	77
1,2,3,6,7,8-HxCDD	—	0.26	0.19 JI				
1,2,3,7,8,9-HxCDD	—	0.21	0.19 JI				
Total HxCDD	1.2	—	0.19 J				
1,2,3,4,6,7,8-HpCDF	2.7	—	0.45 J		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	—	0.72		Equivalence: 0.43 ng/Kg		
Total HpCDF	2.7	—	0.45 J		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	21	—	0.18				
Total HpCDD	32	—	0.18				
OCDF	9.3	—	1.1 J				
OCDD	230	—	0.44				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

EDL = Estimated Detection Limit

ND = Not Detected

NA = Not Applicable

NC = Not Calculated

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J = Estimated value

R = Recovery outside target range

I = Isotope ratio out of specification

Y = Calculated using average of daily RFs

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Method 8290 Sample Analysis Results

Client - Pace Analytical National

Client's Sample ID	DU-6-SS-COMP-1		
Lab Sample ID	10689535013		
Filename	L240423B_13		
Injected By	SMT		
Total Amount Extracted	16.8 g	Matrix	SOLID
% Moisture	55.2	Dilution	NA
Dry Weight Extracted	7.54 g	Collected	04/10/2024 13:30
ICAL ID	L240401	Received	04/16/2024 08:40
CCal Filename(s)	L240423A_16 & L240423B_16	Extracted	04/18/2024 14:30
Method Blank ID	BLANK-112406	Analyzed	04/24/2024 00:34

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	—	0.41	2,3,7,8-TCDF-13C	2.00	64
Total TCDF	23	—	0.41	2,3,7,8-TCDD-13C	2.00	56
				1,2,3,7,8-PeCDF-13C	2.00	62
2,3,7,8-TCDD	ND	—	0.37	2,3,4,7,8-PeCDF-13C	2.00	58
Total TCDD	3.6	—	0.37	1,2,3,7,8-PeCDD-13C	2.00	62
				1,2,3,4,7,8-HxCDF-13C	2.00	72
1,2,3,7,8-PeCDF	0.78	—	0.16 J	1,2,3,6,7,8-HxCDF-13C	2.00	71
2,3,4,7,8-PeCDF	—	1.8	0.16 JI	2,3,4,6,7,8-HxCDF-13C	2.00	66
Total PeCDF	13	—	0.16	1,2,3,7,8,9-HxCDF-13C	2.00	53
				1,2,3,4,7,8-HxCDD-13C	2.00	62
1,2,3,7,8-PeCDD	0.59	—	0.26 J	1,2,3,6,7,8-HxCDD-13C	2.00	66
Total PeCDD	5.2	—	0.26 J	1,2,3,4,6,7,8-HpCDF-13C	2.00	46
				1,2,3,4,7,8,9-HpCDF-13C	2.00	53 Y
1,2,3,4,7,8-HxCDF	2.1	—	0.18 J	1,2,3,4,6,7,8-HpCDD-13C	2.00	43
1,2,3,6,7,8-HxCDF	1.7	—	0.18 J	OCDD-13C	4.00	36 RY
2,3,4,6,7,8-HxCDF	1.7	—	0.19 J			
1,2,3,7,8,9-HxCDF	ND	—	0.31	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	19	—	0.18	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	—	0.76	0.26 JI	2,3,7,8-TCDD-37Cl4	0.20	74
1,2,3,6,7,8-HxCDD	—	1.5	0.24 JI			
1,2,3,7,8,9-HxCDD	1.6	—	0.24 J			
Total HxCDD	11	—	0.24			
1,2,3,4,6,7,8-HpCDF	12	—	0.46	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	—	0.76	Equivalence: 2.8 ng/Kg		
Total HpCDF	12	—	0.46	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	41	—	0.38			
Total HpCDD	79	—	0.38			
OCDF	17	—	0.68			
OCDD	690	—	0.78			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

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ND = Not Detected

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NC = Not Calculated

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J = Estimated value

R = Recovery outside target range

I = Isotope ratio out of specification

Y = Calculated using average of daily RFs

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Method 8290 Blank Analysis Results

Lab Sample Name	DFBLKDL	Matrix	Solid
Lab Sample ID	BLANK-112389	Dilution	NA
Filename	L240422A_10	Extracted	04/17/2024 14:30
Total Amount Extracted	10.5 g	Analyzed	04/22/2024 18:08
ICAL ID	L240401	Injected By	AH5
CCal Filename(s)	L240422A_05 & L240422A_21		

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	—	0.11	2,3,7,8-TCDF-13C	2.00	74
Total TCDF	ND	—	0.11	2,3,7,8-TCDD-13C	2.00	61
				1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	ND	—	0.18	2,3,4,7,8-PeCDF-13C	2.00	78
Total TCDD	ND	—	0.18	1,2,3,7,8-PeCDD-13C	2.00	84
				1,2,3,4,7,8-HxCDF-13C	2.00	69
1,2,3,7,8-PeCDF	ND	—	0.090	1,2,3,6,7,8-HxCDF-13C	2.00	67
2,3,4,7,8-PeCDF	ND	—	0.087	2,3,4,6,7,8-HxCDF-13C	2.00	68
Total PeCDF	ND	—	0.087	1,2,3,7,8,9-HxCDF-13C	2.00	62
				1,2,3,4,7,8-HxCDD-13C	2.00	66
1,2,3,7,8-PeCDD	ND	—	0.093	1,2,3,6,7,8-HxCDD-13C	2.00	71
Total PeCDD	ND	—	0.093	1,2,3,4,6,7,8-HpCDF-13C	2.00	62
				1,2,3,4,7,8,9-HpCDF-13C	2.00	59
1,2,3,4,7,8-HxCDF	ND	—	0.12	1,2,3,4,6,7,8-HpCDD-13C	2.00	66
1,2,3,6,7,8-HxCDF	ND	—	0.12	OCDD-13C	4.00	57
2,3,4,6,7,8-HxCDF	ND	—	0.12			
1,2,3,7,8,9-HxCDF	ND	—	0.16	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	—	0.12	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	0.26	—	0.098 J	2,3,7,8-TCDD-37Cl4	0.20	61
1,2,3,6,7,8-HxCDD	ND	—	0.088			
1,2,3,7,8,9-HxCDD	ND	—	0.090			
Total HxCDD	0.26	—	0.088 J			
1,2,3,4,6,7,8-HpCDF	ND	—	0.12	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	—	0.17	Equivalence: 0.028 ng/Kg		
Total HpCDF	ND	—	0.12	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	—	0.18	0.13 JI			
Total HpCDD	ND	—	0.13			
OCDF	ND	—	0.13			
OCDD	—	0.51	0.19 JI			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

EDL = Estimated Detection Limit

Results reported on a total weight basis and are valid to no more than 2 significant figures.

J = Estimated value

I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

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Method 8290 Blank Analysis Results

Lab Sample Name	DFBLKDR	Matrix	Solid/Wipe
Lab Sample ID	BLANK-112406	Dilution	NA
Filename	L240423B_03	Extracted	04/18/2024 14:30
Total Amount Extracted	10.4 g	Analyzed	04/23/2024 16:59
ICAL ID	L240401	Injected By	SMT
CCal Filename(s)	L240423A_16 & L240423B_16		

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	—	0.11	2,3,7,8-TCDF-13C	2.00	75
Total TCDF	ND	—	0.11	2,3,7,8-TCDD-13C	2.00	68
				1,2,3,7,8-PeCDF-13C	2.00	84
2,3,7,8-TCDD	ND	—	0.19	2,3,4,7,8-PeCDF-13C	2.00	80
Total TCDD	ND	—	0.19	1,2,3,7,8-PeCDD-13C	2.00	85
				1,2,3,4,7,8-HxCDF-13C	2.00	78
1,2,3,7,8-PeCDF	ND	—	0.063	1,2,3,6,7,8-HxCDF-13C	2.00	74
2,3,4,7,8-PeCDF	ND	—	0.070	2,3,4,6,7,8-HxCDF-13C	2.00	77
Total PeCDF	ND	—	0.063	1,2,3,7,8,9-HxCDF-13C	2.00	67
				1,2,3,4,7,8-HxCDD-13C	2.00	68
1,2,3,7,8-PeCDD	ND	—	0.047	1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD	ND	—	0.047	1,2,3,4,6,7,8-HpCDF-13C	2.00	59
				1,2,3,4,7,8,9-HpCDF-13C	2.00	74 Y
1,2,3,4,7,8-HxCDF	ND	—	0.033	1,2,3,4,6,7,8-HpCDD-13C	2.00	59
1,2,3,6,7,8-HxCDF	ND	—	0.035	OCDD-13C	4.00	54 Y
2,3,4,6,7,8-HxCDF	ND	—	0.031			
1,2,3,7,8,9-HxCDF	ND	—	0.046	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	—	0.031	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	—	0.083	2,3,7,8-TCDD-37Cl4	0.20	69
1,2,3,6,7,8-HxCDD	ND	—	0.059			
1,2,3,7,8,9-HxCDD	ND	—	0.061			
Total HxCDD	ND	—	0.059			
1,2,3,4,6,7,8-HpCDF	ND	—	0.082	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	—	0.12	Equivalence: 0.00016 ng/Kg		
Total HpCDF	ND	—	0.082	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	—	0.11			
Total HpCDD	ND	—	0.11			
OCDF	ND	—	0.13			
OCDD	—	0.55	0.25 JI			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

EDL = Estimated Detection Limit

Results reported on a total weight basis and are valid to no more than 2 significant figures.

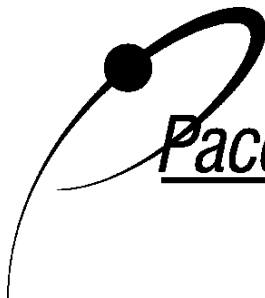
J = Estimated value

I = Isotope ratio out of specification

Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-112390	Matrix	Solid
Filename	L240422A_06	Dilution	NA
Total Amount Extracted	10.4 g	Extracted	04/17/2024 14:30
ICAL ID	L240401	Analyzed	04/22/2024 15:07
CCal Filename(s)	L240422A_05 & L240422A_21	Injected By	AH5
Method Blank ID	BLANK-112389		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.19	96	2,3,7,8-TCDF-13C	2.0	79
Total TCDF				2,3,7,8-TCDD-13C	2.0	63
				1,2,3,7,8-PeCDF-13C	2.0	83
2,3,7,8-TCDD	0.20	0.21	107	2,3,4,7,8-PeCDF-13C	2.0	85
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	90
				1,2,3,4,7,8-HxCDF-13C	2.0	73
1,2,3,7,8-PeCDF	1.0	0.96	96	1,2,3,6,7,8-HxCDF-13C	2.0	71
2,3,4,7,8-PeCDF	1.0	0.93	93	2,3,4,6,7,8-HxCDF-13C	2.0	73
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	70
				1,2,3,4,7,8-HxCDD-13C	2.0	70
1,2,3,7,8-PeCDD	1.0	0.93	93	1,2,3,6,7,8-HxCDD-13C	2.0	76
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	67
				1,2,3,4,7,8,9-HpCDF-13C	2.0	68
1,2,3,4,7,8-HxCDF	1.0	0.99	99	1,2,3,4,6,7,8-HpCDD-13C	2.0	73
1,2,3,6,7,8-HxCDF	1.0	0.98	98	OCDD-13C	4.0	63
2,3,4,6,7,8-HxCDF	1.0	1.0	101			
1,2,3,7,8,9-HxCDF	1.0	0.98	98	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.1	106	2,3,7,8-TCDD-37Cl4	0.20	65
1,2,3,6,7,8-HxCDD	1.0	0.98	98			
1,2,3,7,8,9-HxCDD	1.0	1.0	101			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.0	105			
1,2,3,4,7,8,9-HpCDF	1.0	1.00	100			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.95	95			
Total HpCDD						
OCDF	2.0	2.1	105			
OCDD	2.0	2.2	111			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-112407	Matrix	Solid/Wipe
Filename	L240423A_15	Dilution	NA
Total Amount Extracted	10.3 g	Extracted	04/18/2024 14:30
ICAL ID	L240401	Analyzed	04/23/2024 13:51
CCal Filename(s)	L240422A_21 & L240423A_16	Injected By	JF
Method Blank ID	BLANK-112406		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.21	105	2,3,7,8-TCDF-13C	2.0	82
Total TCDF				2,3,7,8-TCDD-13C	2.0	71
				1,2,3,7,8-PeCDF-13C	2.0	95
2,3,7,8-TCDD	0.20	0.23	116	2,3,4,7,8-PeCDF-13C	2.0	84
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	91
				1,2,3,4,7,8-HxCDF-13C	2.0	90
1,2,3,7,8-PeCDF	1.0	1.00	100	1,2,3,6,7,8-HxCDF-13C	2.0	80
2,3,4,7,8-PeCDF	1.0	0.99	99	2,3,4,6,7,8-HxCDF-13C	2.0	78
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	68
				1,2,3,4,7,8-HxCDD-13C	2.0	70
1,2,3,7,8-PeCDD	1.0	1.00	100	1,2,3,6,7,8-HxCDD-13C	2.0	79
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	66
				1,2,3,4,7,8,9-HpCDF-13C	2.0	58
1,2,3,4,7,8-HxCDF	1.0	1.0	105	1,2,3,4,6,7,8-HpCDD-13C	2.0	60
1,2,3,6,7,8-HxCDF	1.0	1.0	105	OCDD-13C	4.0	43
2,3,4,6,7,8-HxCDF	1.0	1.1	106			
1,2,3,7,8,9-HxCDF	1.0	1.1	106	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.1	114	2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	1.0	1.0	104			
1,2,3,7,8,9-HxCDD	1.0	1.1	111			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.1	110			
1,2,3,4,7,8,9-HpCDF	1.0	1.0	101			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	1.00	100			
Total HpCDD						
OCDF	2.0	1.8	90			
OCDD	2.0	2.3	113			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 8290 Spiked Sample Report

Client - Pace Analytical National

Client's Sample ID	DU-4H-COMP-1-MS	Matrix	SOLID
Lab Sample ID	10689535009-MS	Dilution	NA
Filename	L240424B_03	Extracted	04/18/2024 14:30
Total Amount Extracted	12.1 g	Analyzed	04/25/2024 00:19
ICAL ID	L240401	Injected By	SMT
CCal Filename(s)	L240424A_24 & L240424B_16		
Method Blank ID	BLANK-112406		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.20	102	2,3,7,8-TCDF-13C	2.00	81
				2,3,7,8-TCDD-13C	2.00	67
				1,2,3,7,8-PeCDF-13C	2.00	68 Y
2,3,7,8-TCDD	0.20	0.23	114	2,3,4,7,8-PeCDF-13C	2.00	82
				1,2,3,7,8-PeCDD-13C	2.00	85
				1,2,3,4,7,8-HxCDF-13C	2.00	54
1,2,3,7,8-PeCDF	1.00	1.05	105	1,2,3,6,7,8-HxCDF-13C	2.00	61
2,3,4,7,8-PeCDF	1.00	1.05	105	2,3,4,6,7,8-HxCDF-13C	2.00	69
				1,2,3,7,8,9-HxCDF-13C	2.00	67
				1,2,3,4,7,8-HxCDD-13C	2.00	57
1,2,3,7,8-PeCDD	1.00	0.97	97	1,2,3,6,7,8-HxCDD-13C	2.00	63
				1,2,3,4,6,7,8-HpCDF-13C	2.00	51
				1,2,3,4,7,8,9-HpCDF-13C	2.00	56
1,2,3,4,7,8-HxCDF	1.00	1.08	108	1,2,3,4,6,7,8-HpCDD-13C	2.00	57
1,2,3,6,7,8-HxCDF	1.00	1.10	110	OCDD-13C	4.00	45
2,3,4,6,7,8-HxCDF	1.00	1.07	106			
1,2,3,7,8,9-HxCDF	1.00	1.01	101	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.13	113	2,3,7,8-TCDD-37Cl4	0.20	77
1,2,3,6,7,8-HxCDD	1.00	1.07	107			
1,2,3,7,8,9-HxCDD	1.00	1.29	129			
1,2,3,4,6,7,8-HpCDF	1.00	1.15	112			
1,2,3,4,7,8,9-HpCDF	1.00	1.06	106			
1,2,3,4,6,7,8-HpCDD	1.00	1.06	98			
OCDF	2.00	2.25	112			
OCDD	2.00	2.72	104			

Qs = Quantity Spiked

Qm = Quantity Measured

Rec. = Recovery (Expressed as Percent)

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

J = Estimated value

Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

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Method 8290 Spiked Sample Report

Client - Pace Analytical National

Client's Sample ID	DU-4H-COMP-1-MSD	Matrix	SOLID
Lab Sample ID	10689535009-MSD	Dilution	NA
Filename	L240424B_04	Extracted	04/18/2024 14:30
Total Amount Extracted	12.2 g	Analyzed	04/25/2024 01:05
ICAL ID	L240401	Injected By	SMT
CCal Filename(s)	L240424A_24 & L240424B_16		
Method Blank ID	BLANK-112406		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.17	85	2,3,7,8-TCDF-13C	2.00	5 R
				2,3,7,8-TCDD-13C	2.00	13 R
				1,2,3,7,8-PeCDF-13C	2.00	4 RY
2,3,7,8-TCDD	0.20	0.23	117	2,3,4,7,8-PeCDF-13C	2.00	9 R
				1,2,3,7,8-PeCDD-13C	2.00	7 R
				1,2,3,4,7,8-HxCDF-13C	2.00	16 R
1,2,3,7,8-PeCDF	1.00	1.09	109	1,2,3,6,7,8-HxCDF-13C	2.00	14 R
2,3,4,7,8-PeCDF	1.00	1.02	102	2,3,4,6,7,8-HxCDF-13C	2.00	6 R
				1,2,3,7,8,9-HxCDF-13C	2.00	7 R
				1,2,3,4,7,8-HxCDD-13C	2.00	13 R
1,2,3,7,8-PeCDD	1.00	0.97	97	1,2,3,6,7,8-HxCDD-13C	2.00	13 R
				1,2,3,4,6,7,8-HpCDF-13C	2.00	12 R
				1,2,3,4,7,8,9-HpCDF-13C	2.00	8 R
1,2,3,4,7,8-HxCDF	1.00	1.11	111	1,2,3,4,6,7,8-HpCDD-13C	2.00	9 R
1,2,3,6,7,8-HxCDF	1.00	1.09	109	OCDD-13C	4.00	7 R
2,3,4,6,7,8-HxCDF	1.00	1.08	108			
1,2,3,7,8,9-HxCDF	1.00	1.16	116	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.14	114	2,3,7,8-TCDD-37Cl4	0.20	16
1,2,3,6,7,8-HxCDD	1.00	1.10	109			
1,2,3,7,8,9-HxCDD	1.00	0.38	38 R			
1,2,3,4,6,7,8-HpCDF	1.00	1.10	107			
1,2,3,4,7,8,9-HpCDF	1.00	1.05	105			
1,2,3,4,6,7,8-HpCDD	1.00	1.13	105			
OCDF	2.00	2.80	140 R			
OCDD	2.00	3.08	122			

Qs = Quantity Spiked

Qm = Quantity Measured

Rec. = Recovery (Expressed as Percent)

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

R = Recovery outside target range

Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

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Method 8290 Spike Sample Results

Client - Pace Analytical National

Client Sample ID DU-4H-COMP-1
Lab Sample ID 10689535009
MS ID 10689535009-MS
MSD ID 10689535009-MSD

Sample Filename L240423B_09
MS Filename L240424B_03
MSD Filename L240424B_04

Analyte	Quantity Spiked	<u>Unspiked Sample Contribution</u>		<u>Quantity Measured</u>		RPD	<u>Subtracted Recovery</u>	
	(ng)	to MS (ng)	to MSD (ng)	MS (ng)	MSD (ng)		MS (%)	MSD (%)
2,3,7,8-TCDF	0.20	ND	ND	0.20	0.17	18.1	102	85
2,3,7,8-TCDD	0.20	ND	ND	0.23	0.23	3.3	114	117
1,2,3,7,8-PeCDF	1.00	ND	ND	1.05	1.09	3.7	105	109
2,3,4,7,8-PeCDF	1.00	0.00557	0.00560	1.05	1.02	2.3	105	102
1,2,3,7,8-PeCDD	1.00	ND	ND	0.97	0.97	0.3	97	97
1,2,3,4,7,8-HxCDF	1.00	0.00444	0.00446	1.08	1.11	2.3	108	111
1,2,3,6,7,8-HxCDF	1.00	0.00294	0.00296	1.10	1.09	1.0	110	109
2,3,4,6,7,8-HxCDF	1.00	0.00622	0.00626	1.07	1.08	1.6	106	108
1,2,3,7,8,9-HxCDF	1.00	ND	ND	1.01	1.16	14.3	101	116
1,2,3,4,7,8-HxCDD	1.00	0.00404	0.00407	1.13	1.14	0.9	113	114
1,2,3,6,7,8-HxCDD	1.00	0.00439	0.00441	1.07	1.10	2.4	107	109
1,2,3,7,8,9-HxCDD	1.00	0.00456	0.00459	1.29	0.38	109.6	129	38
1,2,3,4,6,7,8-HpCDF	1.00	0.0289	0.0290	1.15	1.10	4.2	112	107
1,2,3,4,7,8,9-HpCDF	1.00	ND	ND	1.06	1.05	0.7	106	105
1,2,3,4,6,7,8-HpCDD	1.00	0.0803	0.0808	1.06	1.13	6.6	98	105
OCDF	2.00	0.0319	0.0321	2.25	2.80	22.1	112	140
OCDD	2.00	0.627	0.631	2.72	3.08	12.5	104	122

Quantity Spiked - the amount of analyte spiked into the spiked samples

Unspiked Sample Contribution - calculated based on the amount found in the sample and the extracted amounts of the spiked and unspiked samples

Quantity Measured - the total amount of analyte measured in the spiked samples

RPD - the Relative Percent Difference of the spiked sample Quantity Measured values

Subtracted Recovery - calculated after subtracting the unspiked sample contribution

Oregon Dept. of Env. Quality - ODEQ

Sample Delivery Group: L1731061
Samples Received: 04/13/2024
Project Number: 32-23010077
Description: King Salvage

Report To: Andrew Bisbee

Entire Report Reviewed By:



Brian Ford
Project Manager

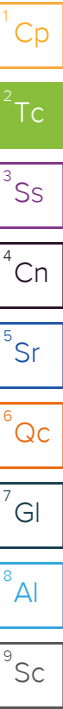
Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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SAMPLE SUMMARY

DU-4F-5-2 L1731061-01 Solid

Collected by
Andrew Bisbee

Collected date/time
04/09/24 09:25

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2267999	1	04/16/24 13:26	04/16/24 13:35	JAV	Mt. Juliet, TN
Mercury by Method 7471B	WG2279355	1	05/02/24 21:12	05/02/24 23:57	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2282270	1	05/08/24 08:25	05/08/24 17:52	JTM	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2282270	5	05/08/24 08:25	05/09/24 10:23	JTM	Mt. Juliet, TN

DU-4F-COMP-2 L1731061-02 Solid

Collected by
Andrew Bisbee

Collected date/time
04/09/24 09:35

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2267999	1	04/16/24 13:26	04/16/24 13:35	JAV	Mt. Juliet, TN
Mercury by Method 7471B	WG2279355	1	05/02/24 21:12	05/02/24 23:59	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2282270	1	05/08/24 08:25	05/08/24 17:53	JTM	Mt. Juliet, TN

DU-4F-COMP-3 L1731061-03 Solid

Collected by
Andrew Bisbee

Collected date/time
04/09/24 09:40

Received date/time
04/13/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2268002	1	04/16/24 13:17	04/16/24 13:25	JAV	Mt. Juliet, TN
Mercury by Method 7471B	WG2279355	1	05/02/24 21:12	05/03/24 00:02	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2282270	1	05/08/24 08:25	05/08/24 17:32	JTM	Mt. Juliet, TN

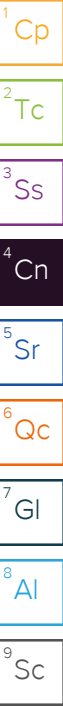


CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Brian Ford
Project Manager



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.0		1	04/16/2024 13:35	WG2267999

¹ Cp

² Tc

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.145		0.0231	0.0513	1	05/02/2024 23:57	WG2279355

³ Ss

⁴ Cn

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	11.0		0.664	2.56	1	05/08/2024 17:52	WG2282270
Barium	421		0.109	0.641	1	05/08/2024 17:52	WG2282270
Cadmium	9.02		0.0604	0.641	1	05/08/2024 17:52	WG2282270
Chromium	95.9		0.171	1.28	1	05/08/2024 17:52	WG2282270
Copper	337		0.513	2.56	1	05/08/2024 17:52	WG2282270
Lead	1460		0.267	0.641	1	05/08/2024 17:52	WG2282270
Nickel	61.0		0.169	2.56	1	05/08/2024 17:52	WG2282270
Selenium	4.04		0.980	2.56	1	05/08/2024 17:52	WG2282270
Silver	U		0.163	1.28	1	05/08/2024 17:52	WG2282270
Zinc	3970		5.33	32.1	5	05/09/2024 10:23	WG2282270

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	74.2		1	04/16/2024 13:35	WG2267999

1
Cp

2
Tc

Mercury by Method 7471B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.0302	J	0.0243	0.0539	1	05/02/2024 23:59	WG2279355

3
Ss

4
Cn

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	5.30		0.698	2.70	1	05/08/2024 17:53	WG2282270
Barium	78.9		0.115	0.674	1	05/08/2024 17:53	WG2282270
Cadmium	U		0.0635	0.674	1	05/08/2024 17:53	WG2282270
Chromium	20.4		0.179	1.35	1	05/08/2024 17:53	WG2282270
Copper	12.5		0.539	2.70	1	05/08/2024 17:53	WG2282270
Lead	9.78		0.280	0.674	1	05/08/2024 17:53	WG2282270
Nickel	8.01		0.178	2.70	1	05/08/2024 17:53	WG2282270
Selenium	1.55	J	1.03	2.70	1	05/08/2024 17:53	WG2282270
Silver	U		0.171	1.35	1	05/08/2024 17:53	WG2282270
Zinc	72.8		1.12	6.74	1	05/08/2024 17:53	WG2282270

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	72.0		1	04/16/2024 13:25	WG2268002

¹ Cp

² Tc

Mercury by Method 7471B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Mercury	0.0610		0.0250	0.0556	1	05/03/2024 00:02	WG2279355

³ Ss

⁴ Cn

Metals (ICP) by Method 6010D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Arsenic	4.71		0.720	2.78	1	05/08/2024 17:32	WG2282270
Barium	123	O1	0.118	0.695	1	05/08/2024 17:32	WG2282270
Cadmium	1.38		0.0654	0.695	1	05/08/2024 17:32	WG2282270
Chromium	25.3	O1	0.185	1.39	1	05/08/2024 17:32	WG2282270
Copper	38.8	O1	0.556	2.78	1	05/08/2024 17:32	WG2282270
Lead	91.5	J6 O1	0.289	0.695	1	05/08/2024 17:32	WG2282270
Nickel	15.1	O1	0.183	2.78	1	05/08/2024 17:32	WG2282270
Selenium	1.94	J	1.06	2.78	1	05/08/2024 17:32	WG2282270
Silver	U		0.176	1.39	1	05/08/2024 17:32	WG2282270
Zinc	408	J3 J5 J6 O1	1.16	6.95	1	05/08/2024 17:32	WG2282270

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R4058563-1 04/16/24 13:35

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

1Cp

2Tc

3Ss

L1725561-113 Original Sample (OS) • Duplicate (DUP)

(OS) L1725561-113 04/16/24 13:35 • (DUP) R4058563-3 04/16/24 13:35

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	74.2	73.2	1	1.36		10

4Cn

5Sr

6Qc

Laboratory Control Sample (LCS)

(LCS) R4058563-2 04/16/24 13:35

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	90.0-110	

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4058558-1 04/16/24 13:25

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

L1725561-130 Original Sample (OS) • Duplicate (DUP)

(OS) L1725561-130 04/16/24 13:25 • (DUP) R4058558-3 04/16/24 13:25

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	79.6	76.8	1	3.54		10

Laboratory Control Sample (LCS)

(LCS) R4058558-2 04/16/24 13:25

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.1	100	90.0-110	

Method Blank (MB)

(MB) R4065278-1 05/02/24 23:37

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Mercury	U		0.0180	0.0400

Laboratory Control Sample (LCS)

(LCS) R4065278-2 05/02/24 23:39

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Mercury	0.500	0.509	102	80.0-120	

L1731922-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1731922-07 05/02/24 23:42 • (MS) R4065278-4 05/02/24 23:47 • (MSD) R4065278-5 05/02/24 23:49

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Mercury	0.500	U	0.424	0.436	84.7	87.1	1	75.0-125			2.75	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4067513-1 05/08/24 17:28

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.518	2.00
Barium	U		0.0852	0.500
Cadmium	U		0.0471	0.500
Chromium	U		0.133	1.00
Copper	U		0.400	2.00
Lead	U		0.208	0.500
Nickel	0.267	J	0.132	2.00
Selenium	U		0.764	2.00
Silver	U		0.127	1.00
Zinc	U		0.832	5.00

Laboratory Control Sample (LCS)

(LCS) R4067513-2 05/08/24 17:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	89.7	89.7	80.0-120	
Barium	100	95.4	95.4	80.0-120	
Cadmium	100	88.6	88.6	80.0-120	
Chromium	100	94.1	94.1	80.0-120	
Copper	100	99.5	99.5	80.0-120	
Lead	100	89.8	89.8	80.0-120	
Nickel	100	92.2	92.2	80.0-120	
Selenium	100	84.8	84.8	80.0-120	
Silver	20.0	17.8	89.1	80.0-120	
Zinc	100	91.4	91.4	80.0-120	

L1731061-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1731061-03 05/08/24 17:32 • (MS) R4067513-5 05/08/24 17:37 • (MSD) R4067513-6 05/08/24 17:38

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	139	4.71	135	122	94.0	84.4	1	75.0-125			10.3	20
Barium	139	123	264	239	101	83.7	1	75.0-125			9.59	20
Cadmium	139	1.38	131	118	93.6	83.8	1	75.0-125			10.9	20
Chromium	139	25.3	164	154	99.6	92.6	1	75.0-125			6.10	20
Copper	139	38.8	196	194	113	111	1	75.0-125			1.06	20
Lead	139	91.5	195	227	74.8	97.4	1	75.0-125	J6		14.8	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1731061-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1731061-03 05/08/24 17:32 • (MS) R4067513-5 05/08/24 17:37 • (MSD) R4067513-6 05/08/24 17:38

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Nickel	139	15.1	141	128	90.6	81.2	1	75.0-125			9.67	20
Selenium	139	1.94	136	120	96.2	85.0	1	75.0-125			12.1	20
Silver	27.8	U	25.8	23.5	93.0	84.6	1	75.0-125			9.49	20
Zinc	139	408	699	461	210	38.2	1	75.0-125	<u>J5</u>	<u>J3 J6</u>	41.1	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

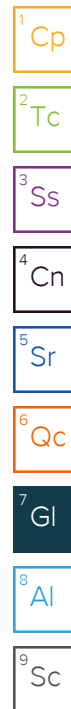
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.



ACCREDITATIONS & LOCATIONS

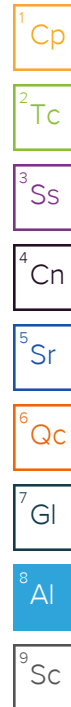
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224

Billing Information:
Accounts Payable
15618 SW 72nd Ave
Tigard, OR 97224

Email To: Andrew.Bisbee@apexcos.com

Report to:
Andrew Bisbee

Project Description:
KING SALVAGE

Phone: 503-924-4704

City/State
Collected: **TUGEDO, OR**

Please Circle:
PT MT CT ET

Client Project #
32-23010077

Lab Project #
ASHCREPOR-BISBEE

P.O. #

32-23010077

Quote #

Collected by (print):
ANDREW BISBEE

Collected by (signature):

Rush? (Lab MUST Be Notified)

Same Day ☒ Five Day ☐
Next Day ☐ 5 Day (Rad Only) ☐
Two Day ☐ 10 Day (Rad Only) ☐
Three Day ☐ **STANDARD**

Date Results Needed

Immediately
Packed on Ice N ☒

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

No. of
Cnts

DU-4F-2-2	Grab	SS	1-2	4/9/24	835	1
DU-4F-2-3	Grab	SS	2-3	4/9/24	838	1
DU-4F-3-1	Grab	SS	0-1	4/9/24	845	1
DU-4F-3-2	Grab	SS	1-2	4/9/24	850	1
DU-4F-3-3	Grab	SS	2-3	4/9/24	853	1
DU-4F-4-1	Grab	SS	0-1	4/9/24	900	1
DU-4F-4-2	Grab	SS	1-2	4/9/24	905	1
DU-4F-4-3	Grab	SS	2-3	4/9/24	908	1
DU-4F-5-1	Grab	SS	0-1	4/9/24	920	1
DU-4F-5-2	Grab	SS	1-2	4/9/24	925	1

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - Wastewater
DW - Drinking Water
OT - Other

Remarks: * Client: list metals needed=

Samples returned via:
_ UPS _ FedEx _ Courier

Tracking #

Relinquished by: (Signature)

Date:

4-12-24

Time:

12:00

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

pH _____ Temp _____

Flow _____ Other _____

Trip Blank Received: Yes / No
HCL / MeOH
TBR

Temp: *C Bottles Received:

Date: Time:

Sample Receipt Checklist
COC Seal Present/Intact: ☒ N
COC Signed/Accurate: ☒ N
Bottles arrive intact: ☒ N
Correct bottles used: ☒ N
Sufficient volume sent: ☒ N
If Applicable
VDA Zero Headspace: ☒ N
Preservation Correct/Checked: ☒ N
RAD Screen <0.5 mR/hr: ☒ N

If preservation required by Login: Date/Time

Hold:

Condition:
NCF ☒ OK

Analysis / Container / Preservative

Chain of Custody Page **11** of **20**

Pace
PERMIT ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # **L1755061**

Table # **L1731061**

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PR: **MV 3/19/24**

Shipped Via: FedEX Ground

Remarks

Sample # (lab only)

	404
ARCHIVE	402
	403
	404
	405
	406
	407
	408
V	409
	410

MV
4/30/24

-21

Apex Companies, LLC - Portland, OR

15618 SW 72nd Ave
Tigard, OR 97224Report to:
Andrew BisbeeProject Description:
KING SALVAGE

Phone: 503-924-4704

Collected by (print):
ANDREW BISBEE

Collected by (signature):

Immediately
Packed on Ice N Y X

Client Project #

32-23010077

Site/Facility ID #

Rush? (Lab MUST Be Notified)

☐ Same Day ☒ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☐ Three Day STANDARD

Lab Project #

ASHCREPOR-BISBEE

P.O. #

32-23010077

Quote #

Date Results Needed

No.
of
Cntrs

Billing Information:

Accounts Payable
15618 SW 72nd Ave
Tigard, OR 97224

Email To: Andrew.Bisbee@apexcos.com

Pres
Chk

Analysis / Container / Preservation

Chain of Custody Page 12 of 20

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody
 constitutes acknowledgment and acceptance of the
 Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # L1731061Table # L1731061

Acctnum: ASHCREPOR

Template: T249306

Prelogin: P1063626

PM: 110 - Brian Ford

PB: MV 3/19/24

Shipped Via: FedEx Ground

Remarks Sample # (lab only)

ARCHIVE -111

-112

BWD, Hold For Follow Up

-114

ARCHIVE -115

-116

-117

-118

-119

-120

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs
DU-4F-5-3	Grab	SS	2-3	4/9/24	908	1
DU-4F-COMP-1	COMP	SS	0-1	4/9/24	922	2
DU-4F-COMP-2	COMP	SS	1-2	4/9/24	935	2
DU-4F-COMP-3	COMP	SS	2-3	4/9/24	940	2
DU-4G-1-1	Grab	SS	0-1	4/9/24	1010	1
DU-4G-1-2	Grab	SS	1-2	4/9/24	1015	1
DU-4G-1-3	Grab	SS	2-3	4/9/24	1018	1
DU-4G-2-1	Grab	SS	0-1	4/9/24	1000	1
DU-4G-2-2	Grab	SS	1-2	4/9/24	1005	1
DU-4G-2-3	Grab	SS	2-3	4/9/24	1008	1

*Metals 8ozClr-NoPres

Dioxins/Furans 8290 4ozClr-NoPres

NWTPHDX no SGT 8ozClr-NoPres

PAHs 8270SIM 8ozClr-NoPres

* Matrix:

SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - Waste Water
 DW - Drinking Water
 OT - Other

Remarks: *Client: list metals needed=

Samples returned via:

☐ UPS ☐ FedEx ☐ Courier

Tracking #

pH Temp

Flow Other

Sample Receipt Checklist

COC Seal Present/Intact: ☒ N
 COC Signed/Accurate: ☒ N
 Bottles arrive intact: ☒ N
 Correct bottles used: ☒ N
 Sufficient volume sent: ☒ N
 If Applicable
 VOA Zero Headspace: ☒ N
 Preservation Correct/Checked: ☒ N
 RAD Screen <0.5 mB/hr: ☒ N

Relinquished by: (Signature)

Date:

4-12-24

Time:

12:00

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH

TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: °C Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: Time:

Hold:

Condition:
NCF / OK

Jannet

4-13-24

0400

L1725561 OREGONDEQ re-log

R5

Please re-log the following for MRCRA8,CUICP,NIICP,ZNICP,TS as R5 due 05/07.

- DU-4F-COMP-2
- DU-4F-COMP-3
- DU-4F-5-2

Time estimate: oh

Time spent: oh

Members

BF Brian Ford