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September 25, 2025 Project No. M0228.05.003

Robert Hood
Oregon Department of Environmental Quality
700 NE Multnomah St. Suite 600
Portland, Oregon, 97232-4100

Re: Results of Site Investigation at Union MLK Cardlock, DEQ File No. 26-21-1204 Subject

Dear Robert:

This letter presents the results of the investigation of subsurface conditions associated with the underground storage tank (UST) system at the Union MLK Cardlock located at 8100 NE Martin Luther King Jr. Boulevard in Portland, Oregon (the site). The UST system is active and operated by PetroCard, Inc. (PetroCard). The investigation was completed in accordance with the work plan prepared by Maul Foster & Alongi, Inc (MFA), submitted to the Department of Environmental Quality (DEQ) on February 12, 2025, and approved by DEQ on March 21, 2025 (Attachment A). Background information describing the project history and the basis for DEQ's request for the current investigation is provided in the work plan.

The site investigation included the following DEQ-required elements:

- Assessment of three suspected abandoned USTs using ground penetrating radar (GPR), a magnetometer survey, and observation of conditions inside a pipe leading to a suspected UST.
- Groundwater level monitoring at monitoring wells KMW-01 through KMW-05, and groundwater sample collection from monitoring wells KMW-01 and KMW-03.

In addition, as described below, the abandoned UST assessment confirmed the presence of one heating oil tank (HOT) adjacent to the on-site building. The HOT was removed on June 19, 2025. During the removal, soil contamination was encountered that appears to be associated with the current UST system. The results of the removal and subsurface conditions encountered are included in this report.

Abandoned UST Assessment

As described in the work plan, BB&A Environmental (BB&A) identified three possible abandoned USTs at the site. These are shown on the BB&A site plan in Attachment A, and include the following:

- One abandoned and presumed diesel or heating oil UST adjacent to the south side of the building on site.
- One likely abandoned former 1,000-gallon gasoline UST south of the presumed diesel or heating oil UST.
- BB&A discovered a 2-inch-diameter metal cap connected to a metal pipe south of the southwest UST cavity. BB&A was able to open the cap and did not notice a petroleum odor. The bottom of the metal pipe was measured at 10 feet below ground surface (bgs) and was empty. BB&A suspected that the metal cap and pipe are associated with an additional former UST.

The possible abandoned USTs were assessed on April 21, 2025. GeoPotential, under the direction of MFA, completed GPR and magnetometer surveys of the three suspected USTs. The GeoPotential report is provided in Attachment B.

The GPR and magnetometer surveys confirmed the presence of one approximately 4-foot-diameter by 12-foot-long HOT adjacent to the south side of the building. The top of the HOT was estimated to be located 2 feet bgs. The approximate location of the HOT is shown on photos 1 and 2 (Attachment C).

South of the HOT, where BB&A suspected a 1,000-gallon gasoline UST may be present, the GPR and magnetometer surveys did not identify a UST. Instead, the GPR survey identified a backfill excavation at the location shown on photo 1. Within the footprint of the backfilled excavation, MFA identified a feature labeled as a monitoring well at the location shown on photos 1 and 2. MFA removed the well monument lid and observed a 4-inch-diameter vertical pipe with a cap shown on photo 3. MFA removed the cap, lowered an oil-water interface probe into the well, and detected about 0.7 feet of light non-aqueous phase liquid (LNAPL) beginning at a depth of 4.4 feet bgs. Owing to the presence of LNAPL, MFA did not measure the bottom of the well.

South of the gasoline USTs in the southwest corner of the site where BB&A identified a 2-inch-diameter metal cap connected to a metal pipe, MFA was unable to locate the cap. MFA identified a metal cap and vertical pipe near the southeast corner of the USTs as shown on photo 4. The pipe was filled with soil and contained a metal wire. The GPR and magnetometer surveys did not identify the presence of a UST or a former UST excavation anywhere adjacent to the existing gasoline USTs. The surveys did identify possible underground utilities and electrical lines leading northeast from the general vicinity of the metal cap and pipe with wire observed by MFA.

In summary, the presence of only one HOT was confirmed. As discussed further below, on June 19, 2025, the HOT was removed and subsurface conditions at the HOT and monitoring well were investigated, leading to the discovery of contamination associated with the active UST system.

Groundwater Monitoring

On April 21, 2025, MFA measured water levels at KMW-01 through KMW-05 and collected groundwater samples from KMW-01 and KMW-03. The depth to groundwater and groundwater elevations are shown on the table below.

Well	TOC Elevation (feet) ¹	DTW (feet)	Elevation (feet)
KMW-1	43.45	29.03	14.42
KMW-2	44.03	32.05	11.98
KMW-3	43.88	31.88	12.00
KMW-4	41.30	29.40	11.90
KMW-5	42.30	30.39	11.91

April 21, 2025 Groundwater Depths and Elevations

TOC = top of casing.

DTW = depth to water.

The groundwater elevations at KMW-1 through KMW-3 located near the diesel USTs (see well and UST locations on the site map in Attachment A) are higher than the elevations at KMW-4 and KMW-5 located further north, indicating the groundwater flow direction is to the north. This is consistent with the groundwater flow direction reported by Kleinfelder in the report referenced in the table above. MFA checked for the presence of LNAPL in each well using the oil-water interface probe; LNAPL was not detected.

¹ Source: Kleinfelder. 2021. Second Quarter 2001 Groundwater Monitoring Report, Truax Harris Energy, LLC, #264, 8100 NE Martin Luther King, Jr., Blvd. Portland, Oregon. DEQ File No. 26-94-0022. August 16.

Prior to groundwater sample collection, KMW-01 and KMW-03 were purged of groundwater. The work plan proposed the use of a peristaltic pump for this purpose. However, because the depth to groundwater exceeded the lifting capacity of the pump, MFA, using a dedicated, disposable bailer to purge and sample groundwater. Based on the depth to groundwater and the 40-foot depth of the monitoring wells, the casing volume of water was 1.8 gallons at KMW-1 and 1.3 gallons at KMW-3. MFA purged 5.3 gallons from KMW-1 and 3.7 gallons from KMW-3, equivalent to the removal of three casing volumes at each well. The purge water was colorless, not visually turbid, and no petroleum-like sheen or odor was observed on the purge water.

To collect the groundwater sample, the bailer was slowly lowered into the well until it contacted the water table. Then the bailer was lowered about 6 inches into the water table to partially fill the bailer and collect the groundwater sample from the top of the water column. Upon retrieving the bailer, MFA used a dedicated, low-flow spigot inserted into the end of the bailer to place the groundwater into the laboratory-provided sample containers. The sample containers were immediately placed in a cooler with ice and delivered under chain-of-custody to Apex Laboratories, Inc. (Apex) in Tigard, Oregon for analysis. In accordance with the work plan, the samples were analyzed for the following:

- Gasoline-, diesel-, and oil-range petroleum hydrocarbons by methods NWTPH-Gx and NWTPH-Dx.
- Benzene, toluene, ethylbenzene, xylene, and naphthalene by EPA Method 8260D.

The laboratory report is provided in Attachment D. The following is a summary of chemicals detected.

KMW-01

Gasoline: 816 micrograms per liter (ug/L).

• Diesel: 1,680 ug/L.

Benzene: 0.2 ug/L.

KMW-03

Gas: 1,360 ug/L.

Diesel: 1,070 ug/L.

• Benzene: 52.3 ug/L.

Toluene: 12.0 ug/L.

Ethylbenzene: 5.28 ug/L.

• Xylene. 38.4 ug/L.

The only potentially complete groundwater exposure pathway at the site is groundwater volatilization into indoor air in the building on site. As noted in the work plan, the building is not a commercial building in the traditional sense, but instead, is used for storage and electrical equipment; PetroCard employees typically occupy the building for less than 30 minutes once a week. As such, and in accordance with the work plan, the detected chemical concentrations were compared to the DEQ risk-based concentrations (RBCs) for groundwater volatilization to indoor air for commercial buildings. The following RBCs were exceeded:

- Gasoline at KMW-01 and KMW-03 exceeded the chronic RBC of 520 ug/L.
- Benzene at KMW-03 exceeded the chronic RBC of 12 ug/L.

Due to the depth of groundwater and thickness of the vadose zone at the site, there is likely good potential for biodegradation of gasoline and benzene in the vadose zone. This coupled with the fact that the RBCs exceedances were slight and the building is infrequently occupied for a short duration

suggests the risk to on-site workers from vapor intrusion in the building is low and requires no further assessment.

HOT Decommissioning and Monitoring Well Assessment

HOT Decommissioning and Sampling

The HOT was removed and assessed on June 19, 2025. The HOT decommissioning was performed by Cowlitz Clean Sweep (CCS), a division of PNE Corporation, under contract with PetroCard. MFA observed and documented the decommissioning work, including inspection of subsurface conditions in the UST excavation and collection of confirmation soil samples from the excavation and the excavated soil stockpile. Photos 5 through 9 document the work. A map of the excavation and soil sample locations is provided in Attachment E.

CCS removed 60.5 gallons of fuel from the HOT through its fill port. The fuel was transported to Orrco in Portland for disposal. The disposal receipt is provided in Attachment F. CCS then removed the overlying asphalt and excavated soil to a depth of about 2 feet bgs to expose the top of the HOT. Soil samples from immediately above the tank were collected, placed in sealable plastic bags, and then the headspace in the bags was assessed for organic vapors with a photoionization detector (PID). The PID readings ranged from 0 to 0.4 parts per million (ppm).

CCS then removed the HOT as shown on photo 5. A fuel line leading north from the tank towards the adjacent building was observed and removed. The fuel line was located about 1 foot bgs. No fuel or water was present in the fuel line. Soil sample Pipe1-1-S was collected from immediately under the pipe at a depth of 1 foot bgs for laboratory analysis. The PID headspace reading associated with this sample was 4.2 ppm. Once removed, the HOT was inspected and found to be in good condition with no obvious holes, as shown on photos 6 through 8. The metal HOT and other scrap metal was transported to Metro Metals Northwest in Portland for disposal. The disposal receipt is provided in Attachment F.

Using the excavator provided by CCS, soil samples were collected from the bottom of the HOT excavation. Samples T1WB-S-6 and T1EB-S-6 were collected at a depth of 6 feet bgs from the west and east ends of the excavation, respectively, for laboratory analysis. The PID headspace readings associated with the west and east sample locations were 465 ppm and 292 ppm, respectively. Aside from the PID readings and gasoline-like odors emanating from the excavation, no other indicators of contamination such as staining or a sheen were observed (such as would be expected for diesel/oil fuel mixtures associated with a HOT).

Owing to the elevated PID readings in the bottom of the HOT excavation, the excavation was advanced to a depth of 11 feet bgs. Sample T1MB-1-S-11 was collected at a depth of 11 feet bgs from the middle of the excavation bottom for laboratory analysis. The PID headspace reading associated with the sample was 155 ppm.

In total, four soil samples were collected from the HOT excavation. The sample locations and corresponding PID readings are shown on the figure in Attachment E. The sample containers were immediately placed in a cooler with ice, delivered under chain-of-custody to Apex, and analyzed for the following:

- Gasoline-, diesel-, and oil-range petroleum hydrocarbons by methods NWTPH-Gx and NWTPH-Dx.
- Benzene, toluene, ethylbenzene, xylene, and naphthalene by EPA Method 8260D.

The laboratory report and a data validation memorandum are provided in Attachment G. The soil sample results are summarized on the attached table and discussed below.

Monitoring Well Assessment, Removal, and Sampling

Prior to the assessment of the monitoring well, CCS removed approximately 0.5 gallons of fuel from the monitoring well. The fuel was combined with the 60.5 gallons of fuel removed from the HOT and transported to Orrco for disposal.

CCS then removed the concrete and asphalt around the monitoring well and began excavating soil to expose the well shown on photos 9 and 10. The monitoring well was determined to be a 6-foot-deep, fiberglass condensate sump attached to fiberglass vapor recovery pipes associated with the active UST system. Two east-west-oriented horizontal vapor recovery pipes were exposed in the excavation at the location shown on the figure in Attachment E. After removal of the sump shown on photo 11, the excavation was advanced west and east to confirm the orientation of the vapor recovery pipes. Using a metal measuring tape, the pipes were confirmed to lead west to the active gasoline USTs to the west of the sump. Obvious gasoline-like odors were emanating from the excavation.

Sample VL-1-S-6 was collected at a depth of 6 feet bgs from under the removed sump for laboratory analysis. The PID headspace reading associated with the sample was 1,419 ppm. Owing to this elevated reading, the excavation in the vicinity of the sump was advanced to a depth of 9 feet bgs. The PID headspace reading for soil collected from the bottom of the excavation was 1,310 ppm. A soil sample was not collected for laboratory analysis.

The sample containers were immediately placed in a cooler with ice, delivered under chain-of-custody to Apex, and analyzed for the following:

- Gasoline-, diesel-, and oil-range petroleum hydrocarbons by methods NWTPH-Gx and NWTPH-Dx.
- Benzene, toluene, ethylbenzene, xylene, and naphthalene by EPA Method 8260D.

The laboratory report and a data validation memorandum are provided in Attachment G. The soil sample results are summarized on the attached table and discussed below.

HOT and Monitoring Well Assessment Soil Sample Results

As shown on the attached table:

- Gasoline-range petroleum hydrocarbons were detected in every sample. Consistent with the PID readings, which were highest at the sump and decreased with increasing distance within the HOT excavation, the gasoline concentration was by far the highest at the sump (sample VL-1-S-6), deceased at the west end of the HOT excavation (sample T1WB-S-6), and decreased again further east at the east end of the HOT excavation (sample T1EB-S-6). This pattern indicates the gasoline detected everywhere in the two excavations is associated with the active UST system.
- Diesel-range petroleum hydrocarbons were detected in every sample and at relatively similar concentrations.
- Oil-range petroleum hydrocarbons were not detected in any sample.
- Like the distribution of the gasoline detections, the suite of volatile organic compounds (benzene, toluene, ethylbenzene, xylene, and naphthalene) was detected at the highest concentrations at the sump and significantly decreased in concentrations within the HOT excavation.

As shown on the table, the data were compared to the following RBCs for potentially complete exposure pathways at the site:

- Occupational, construction, and excavation worker soil direct contact.
- Soil volatilization to outdoor air for occupational workers.

The only RBC exceedances are for gasoline, ethylbenzene, and naphthalene in sample VL-1-S-6 at the vapor recovery sump, indicating that the potential risk of exposure is solely for chemicals associated with the active UST system and not the HOT.

PetroCard repaired the vapor recovery pipes by splicing new pipe into the segments removed when the sump was removed, and the excavation was backfilled to grade with ¾-inch minus gravel obtained from Porter-Yett in Portland. As such, there is no complete pathway for occupational worker direct contact with soil contamination remaining. PetroCard has no plans for construction at the site into the foreseeable future. In any event, future construction worker exposure to gasoline contamination remaining in soil can be managed through worker notification of the contamination, implementation of health and safety protocols to prevent exposure, and soil management procedures that ensure contaminated soils encountered during future construction work are appropriately identified and managed to prevent exposure.

Occupational work exposure to ethylbenzene in outdoor air is unlikely. The ethylbenzene concentration only slightly exceeded the RBC, and on average, PetroCard employees are typically on site only four days a week for an hour, and much less than the typical occupational worker scenario of 8 hours per day, 5 days per week.

Excavated Soil Management

All soil excavated from the HOT and monitoring well excavations was placed into a single soil stockpile on plastic sheeting adjacent to the excavations. MFA collected a 5-point composite soil sample from the stockpile. The sample containers were immediately placed in a cooler with ice, delivered under chain-of-custody to Apex, composited into a single sample by Apex, and analyzed for the following:

- Gasoline-, diesel-, and oil-range petroleum hydrocarbons by methods NWTPH-Gx and NWTPH-Dx.
- Benzene, toluene, ethylbenzene, xylene, and naphthalene by EPA Method 8260D.
- Toxicity characteristic leaching procedure for lead by EPA Method 1311/6020B.

The results are provided on the attached table. Chemical detections included gasoline- and diesel-range petroleum hydrocarbons, benzene, toluene, ethylbenzene, xylene, and naphthalene. Lead was not detected. All detected concentrations were much less than the potentially applicable RBCs for the site. A total of 48.5 tons of soil was transported to the Waste Management Hillsboro Landfill for disposal. The disposal receipts are provided in Attachment F.

UST System Testing Records

The results of the site investigation indicate a gasoline release occurred at the sump associated with the vapor recovery system for the active UST system. The UST system testing records for January through June 2025 provided in Attachment H confirm the system has passed the inspections. There are no indications of a release from the system other than that associated with the sump that has now been removed.

Conclusions

The DEQ-requested investigation of the UST system is complete. One HOT was identified and decommissioned by removal. Although chemical concentrations in soil and groundwater exceed RBCs for on-site workers, the current site conditions and infrequent and short-duration use of the site by PetroCard employees indicate the potential for exposure to contamination remaining is very low.

Sincerely,

Maul Foster & Alongi, Inc.

Steven Chapman

Steven Chapman, GIT Staff Geologist

David Weatherby, RG Principal Geologist

Attachments

Limitations

Table

A-Work Plan for Site Investigation at Union MLK Cardlock, DEQ File No. 26-21-1204

B—GeoPotential Report

C-Photo Log

D—Groundwater Laboratory Report

E—Sample Location Map

F—Disposal Receipts

G—Soil Laboratory Report and Data Validation Memorandum

H—UST System Testing Records

cc: Ron Beach, PetroCard, Inc.

Limitations

The services undertaken in completing this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this report.

Table



Table Soil Analytical Results 8100 NE Martin Luther King Jr. Boulevard PetroCard, Inc.



Location:	RBC, Soil Ing	estion, Dermal C	ontact, and	RBC, Soil, Volatilization to	Monitoring Well Excavation		Soil Stockpile			
Sample Name:	Inhalation ⁽¹⁾			Outdoor Air ⁽¹⁾	VL-1-S-6	T1 WB-S-6	T1EB-S-6	T1MB-1-S-11	Pipe1-1-S	SP1-Comp-S
Collection Date:	Occupational	Construction	Excavation	Occupational -	06/19/2025	06/19/2025	06/19/2025	06/19/2025	06/19/2025	06/19/2025
Collection Depth (ft bgs):	Occupational	Worker	Worker		6.0	6.0	6.0	11.0	1.0	0.25
TPH (mg/kg)										
Gasoline-range hydrocarbons	20,000	9,700	NV	69,000	20,900	1,300	369	773	129	1,680
Diesel-range hydrocarbons	14,000	4,600	NV	NV	459 J+	4,390	1,190	2,780	1,450	3,530
Oil-range hydrocarbons	14,000 ^(a)	4,600 ^(a)	NV	NV	44.7 U	438 U	43.0 U	218 U	43.5 U	452 U
TCLP Metals (mg/L)						•	•	•		•
Lead	NV	NV	NV	NV						0.05 U
VOCs (mg/kg)						•	•	•		•
Benzene	37	380	11,000	50	30.7	5.23	0.0149 U	0.361	0.0152 U	3.94
Ethylbenzene	150	1,700	49,000	160	257	16.0	0.554	6.29	0.0380 U	18.5
Naphthalene	23	580	16,000	83	65.9	15.3	4.06	6.19	0.334 U	8.72
Toluene	88,000	28,000	770,000	NV	672	7.13	0.0744 U	0.557	0.0760 U	49.9
Xylenes (total)	25,000	20,000	560,000	NV	1,400	6.67	0.112 U	3.65	0.114 U	108

Notes

Shading (color key below) indicates values that exceed screening criteria; non-detects (U) were not compared with screening criteria. Where multiple criteria are exceeded, results are shaded based on the highest value.

RBC, Soil Ingestion, Dermal Contact, and Inhalation, Occupational

RBC, Soil Ingestion, Dermal Contact, and Inhalation, Construction Worker

RBC, Soil, Volatilization to Outdoor Air, Occupational

-- = not analyzed.

ft bgs = feet below ground surface.

J+ = result is estimated, but the result may be biased high.

mg/kg = milligrams per kilogram.

mg/L = milligrams per liter.

NV = no value.

RBC = risk-based concentration.

TCLP = toxicity characteristic leaching procedure.

TPH = total petroleum hydrocarbons.

U = result is non-detect at the method reporting limit.

VOC = volatile organic compound.

^(a)Value is for generic diesel/heating oil, since a generic oil-range hydrocarbons value is not available.

Reference

[1] DEQ. 2023. Table: Risk-Based Concentrations for Individual Chemicals. Oregon Department of Environmental Quality, Environmental Cleanup Program. August.

Attachment A

Work Plan for Site Investigation at Union MLK Cardlock, DEQ File No. 26-21-1204





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February 12, 2025 Project No. 0228.05.002

Rob Hood Oregon Department of Environmental Quality 700 NE Multnomah Street, Suite 600 Portland, Oregon 97232

Re: Work Plan for Site Investigation at Union MLK Cardlock, DEQ File No. 26-21-1204

Dear Rob:

This letter presents the revised work plan for the investigation of subsurface conditions associated with the underground storage tank (UST) system at the Union MLK Cardlock located at 8100 NE Martin Luther King Jr. Boulevard in Portland, Oregon (the site). The UST system is active and operated by PetroCard, Inc. (PetroCard). The work plan was originally prepared and submitted to the Department of Environmental Quality (DEQ) by Maul Foster & Alongi, Inc (MFA) in September 2023 as requested by Jim Orr, DEQ, in a July 18, 2023 letter to Ron Beach at PetroCard. The work plan had been revised to address your work plan review comments provided to MFA via email on November 7, 2024.

Background

On December 2 and 3, 2021, BB&A Environmental (BB&A) completed a focused Phase II environmental site assessment (ESA) at the site. BB&A collected soil and groundwater samples from soil borings and monitoring wells for laboratory analysis. MFA staff accompanied BB&A and collected collocated and additional soil samples for laboratory analysis from the borings advanced by BB&A. The laboratory results for the samples collected by MFA together with the BB&A ESA report were provided to the DEQ in MFA's January 21, 2022, Initial (Twenty Day) Report.

The results of the BB&A ESA, tank integrity testing, and exposure assessment Indicated that a localized area of soil contamination is present at boring P3 along the east side of the southwest UST cluster and is not the result of an ongoing release. As human exposure to this contamination is unlikely or can be controlled with appropriate health and safety measures if future construction or utility work is planned, PetroCard did not intend to further assess the contamination nor enter into the DEQ's voluntary cleanup program.

Based on review of the BB&A and MFA investigation results, in a letter dated July 18, 2023, DEQ requested a workplan to address the following:

- 1. Locate all abandoned underground storage tanks and properly decommission them.
- 2. Sample indoor air and subslab vapors to screen the site for volatile contamination.
- 3. Evaluate the nature and extent of hydrocarbons in soil and groundwater.

This work plan addresses items 1 and 3 above. Item 2 (indoor air and subslab vapor sampling) is not proposed at this time. The single building on site is used for storage and electrical equipment. PetroCard employees typically occupy the building for less than 30 minutes once a week. As

described below, MFA will assess conditions at monitoring wells KMW-01 and KMW-03 located adjacent to the building. MFA may recommend additional on-site work if warranted based on the KMW-01 and KMW-03 data and current and likely future use of the building.

Regarding item 3, evaluation of the nature and extent of the localized hydrocarbons in soil associated with BB&A boring P3 is not proposed at this time. As described in the January 21, 2022, Initial (Twenty Day) Report, BB&A and MFA collected a soil sample from P3 at a depth of 18 to 19 feet below ground surface (bgs). Gasoline-range hydrocarbons were detected in the BB&A sample at a concentration of 42,400 milligrams per kilogram (mg/kg) and in the MFA sample at a concentration of 16,300 mg/kg (see the BB&A Table 1 and MFA table in the attachments). Benzene, toluene, ethylbenzene, and xylene were also detected in the BB&A and MFA samples, and diesel-range hydrocarbons were detected in the MFA sample.

To assess the vertical extent of contamination at P3, MFA collected a second soil sample at boring P3 at a depth of 32 to 33 feet bgs. Gasoline- and diesel range hydrocarbons, benzene, toluene, and ethylbenzene were not detected. Only xylene was detected in this sample at a concentration much lower than applicable risk-based concentrations (RBCs). In addition, photoionization detector (PID) readings in soil at the boring were elevated (1,624 parts per million) at the 18- to 19-foot depth, corresponding to the depth of the BB&A and MFA soil samples with the RBC exceedances (see the P3 boring log in the attachment). At greater depth, the PID readings quickly decreased by one- to three-orders of magnitude, and the PID reading was only 10 parts per million at the 32- to 33-foot depth of the MFA sample with no RBC exceedances. The PID data together with the MFA sample data delineate the vertical extent of contamination at boring P3 and confirm the contamination does not extend to the water table, precluding the need to sample groundwater at the P3 location.

The BB&A and MFA soil sample results have also delineated the horizontal extent of soil contamination associated with BB&A boring P3. The BB&A site plan in the attachment includes the BB&A sample locations for borings P1 through P13. The corresponding soil sample data from these borings is included on BB&A Table 1 in the attachment. On the site plan, I have highlighted the P3 boring location in yellow, corresponding to the elevated gasoline-range hydrocarbon, benzene, and ethylbenzene concentrations that exceeded one or more RBCs at this location. All remaining BB&A boring locations are highlighted green on the site plan, corresponding to non-detections of hydrocarbons in soil, or detections that are much less than the concentrations at P3 and less than the RBCs, indicating the horizontal extent of contamination is delineated.

Work Plan

The following activities are proposed to locate abandoned underground storage tanks and evaluate the nature and extent of indoor air vapor intrusion RBC exceedances in groundwater.

Abandoned UST Assessment

BB&A identified three possible abandoned USTs at the site. These are shown on the BB&A site plan in the attachment, and include the following:

- One abandoned and presumed diesel or heating oil UST was identified adjacent to the south side
 of the building on site.
- One likely abandoned former 1,000-gallon gasoline UST was identified south of the presumed diesel or heating oil UST.
- BB&A discovered a 2-inch-diameter metal cap connected to a metal pipe south of the southwest UST cavity. BB&A was able to open the cap and did not notice a petroleum odor. The bottom of

the metal pipe was measured at 10 feet bgs and was empty. BB&A suspected that the metal cap and pipe are associated with an additional former UST.

To confirm the presence of these suspected abandoned USTs, MFA will conduct a ground penetrating radar and magnetometer survey of the suspect UST locations. MFA will also examine any fill ports or other access points to the USTs, if present, including measuring the bottom of the metal pipe and checking for the presence of petroleum hydrocarbons using an oil-water interface probe. If recoverable petroleum product is encountered in the USTs, it will be removed.

Nature and Extent Assessment

The BB&A focused Phase II ESA included groundwater sample collection from two existing monitoring wells (KMW-01 and KMW-02), one temporary monitoring well (TMW-P9), and one soil boring (P8). The locations of these wells and boring are shown on the site plan, and the groundwater data are provided on BB&A Table 2 in the attachment.

- At KMW-01, the diesel concentration exceeded the RBC for groundwater volatilization to indoor air of 1,700 micrograms per liter for commercial buildings.
- At KMW-02, there were no exceedances of the RBCs.
- At TMW-P9, the benzene concentration slightly exceeded the RBC for groundwater volatilization to indoor air of 12 micrograms per liter for commercial buildings.
- At P8, there were no exceedances of the RBCs.

These RBC exceedance locations are highlighted in yellow on the site plan and Table 2 in the attachment. There are no commercial buildings downgradient of KMW-01¹, but the building on site is near KMW-01 and TMW-P9.

To confirm whether diesel and benzene concentrations in groundwater exceed the indoor air RBC near the building, MFA will collect a groundwater sample from KMW-01 and KMW-03. MFA will measure the water level at KMW-01 through KMW-05 monthly beginning in January 2024, and sample KMW-01 and KMW-03 if and when sufficient groundwater is present for sample collection.

During sample collection, groundwater will be purged with a peristaltic pump and new, disposable tubing, using low-flow purging procedures. Periodically, a water quality meter will be used to measure the following groundwater parameters during purging: temperature, pH, specific conductance, dissolved oxygen, oxidation-reduction potential, and turbidity. These parameters will be recorded on the field sampling datasheet. The groundwater samples will be collected after three consecutive groundwater parameter readings indicate that the parameters have stabilized. The samples will be collected directly into laboratory-supplied containers, placed in an iced cooler, and submitted to the laboratory under standard chain-of-custody procedures. The groundwater samples will be analyzed for the following:

- Gasoline-, diesel-, and oil-range petroleum hydrocarbons by methods NWTPH-Gx and NWTPH-Dx.
- Benzene, toluene, ethylbenzene, xylene, and naphthalene by EPA Method 8260D.

¹ The BB&A site plan in the attachment includes a label "Office & Shops" to the north and downgradient of KMW-01. This is an error. There are no buildings at this location, and none are proposed.

Project No. 0228.05.002 Page 4

Reporting

Following completion of the abandoned tank assessment and nature and extent assessment, MFA will prepare a brief letter report summarizing the results of the site investigation. The report will include the following:

- Description of activities completed.
- Results of the abandoned tank assessment, including confirmation of tank presence/absence, presence/absence of petroleum product, and volume of product removed, if any.
- KMW-01 and KMW-03 groundwater sampling results and comparison of the results to the RBCs for groundwater volatilization to indoor air for commercial buildings.
- Photo log.
- Laboratory report.
- Recommendations for additional work at the site, if warranted, based on the results of site investigation.

Summary

In summary, the site investigation will include the following elements:

- Assessment of the suspected abandoned USTs using ground penetrating radar, a magnetometer survey, and observation of conditions inside the pipe and USTs if present and accessible.
 Recoverable petroleum product will be removed from the tanks, if encountered.
- Groundwater level monitoring at KMW-01 through KMW-05.
- Groundwater sample collection from KMW-01 and KMW-03.
- Reporting the results to DEQ.

Sincerely,

Maul Foster & Alongi, Inc.

David Weatherby, RG Principal Geologist

Attachment

BB&A Site Plan, Tables, and Boring Log; MFA Table cc: Ron Beach, PetroCard.

Attachment

BB&A Site Plan, Tables, and Boring Log; MFA Table



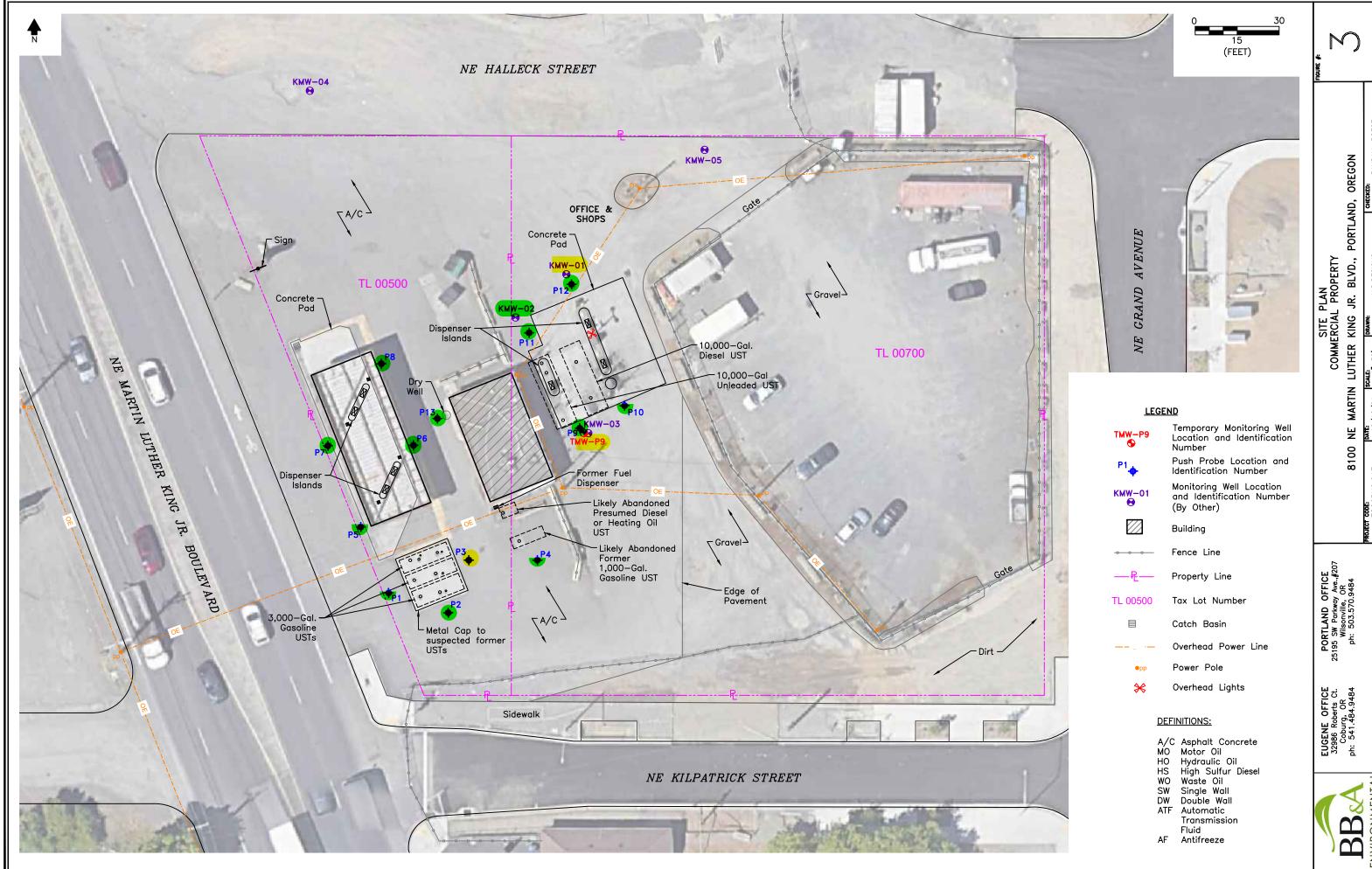


Table 1. Soil Analytical Results

8100 NE MLK Blvd. Portland, OR

UNITS: TPH and BTEX concentrations in milligrams per kilogram (mg/kg), or parts per million (ppm).

>Max: The constituent RBC for this pathway is greater than 100,000 mg/Kg.

>Csat: Soil RBC exceeds three-phase equilibrium partitioning.

NS: No standard

ND: no hydrocarbons detected. DET: hydrocarbons detected

<0.05 Indicates contaminant was not detected above method-reporting limit.

Shaded where not analyzed

BOLD: Indicates the contaminant was detected above the method-reporting limit

Highlight: Indicates the contaminant was detected above one or more RBCs.

RBCs: Risk-Based Concentration (RBC) for applicable exposure pathways including Soil ingestion, Dermal contact, and Inhalation (RBCss), Volatilization to Outdoor Air (RBCso) and Vapor Intrusion into Buildings (RBCsi)

Occ: Occupational receptor scenario CW: Construction Worker receptor scenario EW: Excavation Worker receptor scenario **Note:** If gasoline-, diesel-, or oil-range TPH were detected in the HCID analysis, TPH concentrations were quantified with the respective analytical method.

Sample ID	Contaminant												
Push Probe - Depth Interval	HCID	Gasoline- range TPH	Diesel- range TPH	Oil-range TPH	Benzene	Toluene	Ethylbenzene	Xylenes					
P1-11'	ND												
P2-8'-9'		27.7	<25.0	141	1.250	0.127	1.130	4.410					
P2-12'-13'		16.9	<25.0	<50.0	0.305	<0.0593	0.260	2.330					
P3-18'-19'		42,400	<25.0	<50.0	96.4	2,090	730	4,610					
P4-7'-8'	DET		<25.0	154									
P5-11'-12'	ND												
P6-11'-12'	ND												
P7-11'-12'	ND												
P8-8'-9'	ND												
P9-14'-15'	DET		<25.0	131									
P10-11'-12'	DET		<25.0	205									
P11-14'-15'	DET		<25.0	675									
P12-7'-8'	DET		<25.0	205									
P13-17-18'	ND												
RBCss - Occ	NS	20,000	14,000	NS	37	88,000 >Csat	150	25,000 >Csat					
RBCss - CW	NS	9,700	4,600	NS	380	28,000 >Csat	1,700 >Csat	20,000 >Csat					
RBCss - EW	NS	>Max	>Max	NS	11,000	770,000 >Csat	49,000 >Csat	560,000 >Csat					
RBCso	NS	69,000	>Max	NS	50	>Csat	160	>Csat					
RBCsi	NS	>Max	>Max	NS	2.1	>Csat	17	>Csat					

Table 2. Groundwater Analytical Results

8100 NE MLK Blvd. Portland, OR

All concentrations in parts per billion (ppb) or micrograms per Liter (ug/L).

NS: No standard

>S: This RBC exceeds the solubility limit.

<0.2: Indicates not detected above method-reporting limit identified.

BOLD: Indicates the contaminant was detected above the method-reporting limit

Highlight: Indicates the contaminant was detected above one or more RBCs.

Shaded where not analyzed.

RBCs = Occupational Risk-Based Concentration (RBC) for applicable exposure pathways including the volatilization to out door air in an occupational scenario (RBCwi), and groundwater in excavation (RBCwe).

GROUNDWATER SAMPLE IDENTIFICATION (Location)	Total Petrole	um Hydrocarbo	ns (TPH)	Gasoline-Related Volatile Organic Compounds (VOCs)					
	Gasoline- Range TPH	Diesel- Range TPH	Oil-Range TPH	Benzene	Toluene	Ethylbenzene	Xylenes		
P8-H2O	<100	550	331	<0.200	<1.00	<0.500	<1.50		
KMW-01-H2O	452	2,810	<162	<0.200	1.12	0.620	2.92		
KMW-02-H2O	<100	130	<178	<0.200	<1.00	<0.500	<1.50		
TMWP9-H2O	291			18.7	3.00	<0.500	1.53		
Risk-Based Concentrations	s (RBCs) from Ap	pendix A of Ore	gon DEQ's R	Risk-Based De	ecision Mak	ing for the Reme	diation of		
RBCwo	>S	>S	NS	14,000	>S	43,000	>S		
RBCwi	>S	>S	NS	280	>S	8,200	>S		
RBCwe	14,000	>S	NS	1,800	220,000	4,500	23,000		

2K()	BH.	LOG	

PAGE<u>1</u> OF<u>2</u>

PROBE NO.:	P3		TOTAL DEPTH:	40'
PROJECT CODE:	T006PH2.21E		SURFACE ELEVATION:	
CADD FILE:	T006PH2.21E		PROBING METHOD:	MACRO CORE
PROJECT:	COMMERCIAL PROPERTY		PROBED BY:	BB&A ENVIRONMENTAL
LOCATION:	8100 NE MARTIN LUTHER KING JR.	BLVD.	LOGGED BY:	MATTHEW LUCZAK
	PORTLAND, OREGON		DATE COMPLETED:	12/02/21

DEPTH (feet) SAMPLE IDENTIFICATION AND LAB RESULTS	MC RECOVERY	PID	H₂0 LEVEL	LITHOLOGIC DESCRIPTION	LITHOLOGY	DEPTH (feet)	PROBE ABANDONMENT
- - -	30%	0.0 0.0 0.0 0.0		_ ASPHALT _GRAVEL (GM): fill _LSAND (SM): brown, coarse—fine grained, gravel _cobbles at bottom		0 -	
	20%	0.0 0.0 0.0 0.0		_ SAND (SM): brown, coarse—fine grained, trace gravel pebbles		5 - - -	
- 10 - - -	%06	0.9 6.2		_ SAND & SILT (SM/ML): brown—gray, fine grained sand ¬LSAND & SILT (SM/ML): brown, fine grained sand _ SAND & SILT (SM/ML): brown—gray, fine grained sand _ SILT (ML): brown, moist		- 10 - - -	
- 15 	%08 %06	76.5 896.1 1624 106.2 100		SILT (ML): brown, moist SAND & SILT (SM/ML): brown-gray, fine grained sand SAND (SM): brown, medium-fine grained SLOUGH SAND & SILT (SM/ML): brown-gray, fine grained sand SAND (SM): brown-gray, medium-fine grained SAND & SILT (SM/ML): brown-gray, fine grained		- 15 - - - 20 - - - -	

<u>LEGEND</u>		
		NOTES:
BLS	Below Land Surface	



Photo Ionization Detector, Units in parts per million (ppm)

PID

PROBE LOG

PAGE_2_ OF_2_

PROBE NO.: P3
PROJECT CODE: T006PH2.21E

CADD FILE: T006PH2.21E

PROJECT: COMMERCIAL PROPERTY

LOCATION: 8100 NE MARTIN LUTHER KING JR. BLVD.

PORTLAND, OREGON

DEPTH (feet)	SAMPLE IDENTIFICATION <u>AND</u> LAB RESULTS	MC RECOVERY	PID	H₂0 LEVEL	LITHOLOGIC DESCRIPTION	LITHOLOGY	DEPTH (feet)	PROBE ABANDONMENT
25 		%09	20		_ SLOUGH _ SAND (SM): brown-gray, medium-fine grained		25 _ _ _ _	
- 30 - - -	P3-32'-33'	%06	10		_ SLOUGH _ SAND (SM): gray, medium—fine grained, moist below 33.5'BLS		- 30 - - -	
— 35 - - -		%0	2				- 35 - - -	
- 40 - - -							- 40 - - -	
- 45 - - -							45 - - -	
50							<u> 50</u>	

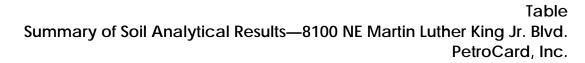
L	E	G	E	Ν	ט
_					_

BLS Below Land Surface

PID Photo Ionization Detector, Units in parts per million (ppm)

NOTES:	







Location:				RBC, Soil, Vapor	T00	6-P2	T006	-P3	T006-P4	T006-P5	T006-P6	T006-P7	T006-P8	T006-P9	T006-P10	
Sample Name:	RBC, Soil Ingestion, Dermal Contact, and Inhalation ⁽¹⁾		Intrusion into Building ⁽¹⁾	T006-P2-8-9	T006-P2-12-13	T006-P3-18-19	T006-P3-32-33	T006-P4-7-8	T006-P5-11-12	T006-P6-11-12	T006-P7-11-12	T006-P8-8-9	T006-P9-14-15	T006-P10-11- 12		
Collection Date:	Ossumational	Construction	Excavation	Occupational	12/02/2021	12/02/2021	12/02/2021	12/02/2021	12/02/2021	12/02/2021	12/02/2021	12/02/2021	12/02/2021	12/02/2021	12/02/2021	
Collection Depth (ft bgs):	Occupational	nal Worker Worker	Occupational Worker Worker Worker		Occupational	8-9	12-13	18-19	32-33	7-8	11-12	11-12	11-12	8-9	14-15	11-12
VOCs (mg/kg)																
Benzene	37	380	11,000	2.1	0.368 J	1.41 J	23.1	0.0129 U	0.0131 U	0.0131 U	0.0616	0.0129 U	0.0116 U	0.0114 U	0.012 U	
Ethylbenzene	150	1,700	49,000	17	0.0592 U	0.262	620	0.0645 U	0.0657 U	0.0656 U	0.059 U	0.0645 U	0.058 U	0.0569 U	0.0599 U	
Toluene	88,000	28,000	770,000	NV	0.20 J	3.32	254	0.0323 U	0.0329 U	0.0328 U	0.0295 U	0.0323 U	0.029 U	0.0285 U	0.030 U	
Xylenes, total ^(a)	25,000	20,000	560,000	NV	0.738 J	31.8	1,620	0.129	0.0986 U	0.0983 U	0.0885 U	0.0968 U	0.0871 U	0.0854 U	0.0899 U	
TPH (mg/kg)	-	-	-	-		-		<u>-</u>	-	-	-	-	-		-	
Gasoline-Range Hydrocarbons	20,000	9,700	NV	NV	5.92 U	228	16,300	6.45 U	6.57 U	6.56 U	5.9 U	6.45 U	5.8 U	5.69 U	5.99 U	
Diesel-Range Hydrocarbons	14,000	4,600	NV	NV	25 U	25 U	116	25 U	25 U	25 U	25 U	25 U	25 U	117 U	25 U	
Oil-Range Hydrocarbons	14,000 ^(b)	4,600 ^(b)	NV	NV	114	50 U	50 U	50 U	50 U	118	125	50 U	93.9	538	221	

M0228.05.002, 1/21/2022, Td_Petrocard_MLK_Dec2021.xlsx



Location:	RBC, Soil Ingestion, Dermal Contact, and Inhalation ⁽¹⁾			RBC, Soil, Vapor Intrusion into Building ⁽¹⁾	T006-P11	T006-P12	T006-P13
Sample Name:					T006-P11-14- 15	T006-P12-7-8	T006-P13-17- 18
Collection Date:	Occupational	Construction	Excavation Occupational	12/02/2021	12/02/2021	12/02/2021	
Collection Depth (ft bgs):		Worker	Worker	Occupational	14-15	7-8	17-18
VOCs (mg/kg)							
Benzene	37	380	11,000	2.1	0.0111 U	0.0115 U	0.0113 U
Ethylbenzene	150	1,700	49,000	17	0.0555 U	0.0577 U	0.0565 U
Toluene	88,000	28,000	770,000	NV	0.0278 U	0.0289 U	0.0283 U
Xylenes, total ^(a)	25,000	20,000	560,000	NV	0.0833 U	0.134	0.0848 U
TPH (mg/kg)							
Gasoline-Range Hydrocarbons	20,000	9,700	NV	NV	5.55 U	5.77 U	5.65 U
Diesel-Range Hydrocarbons	14,000	4,600	NV	NV	47.8 U	25 U	25 U
Oil-Range Hydrocarbons	14,000 ^(b)	4,600 ^(b)	NV	NV	313	162	50 U

M0228.05.002, 1/21/2022, Td_Petrocard_MLK_Dec2021.xlsx



NOTES

Shading (color key below) indicates values that exceed screening criteria; non-detects ("U") were not compared with screening criteria.

RBC, soil ingestion, dermal contact, and inhalation, occupational

RBC, soil ingestion, dermal contact, and inhalation, construction worker

RBC, soil, vapor intrusion into building, occupational

ft bgs = feet below ground surface.

J = result is estimated.

mg/kg = milligrams per kilogram.

NV = no value.

RBC = risk-based concentration.

TPH = total petroleum hydrocarbons.

U = result is non-detect to method reporting limit.

VOC = volatile organic compounds.

^(a)Total xylenes are reported by the laboratory.

(b) Value is for generic diesel/heating oil, since generic residual-range hydrocarbon values are not available.

REFERENCE:

⁽¹⁾Oregon Department of Environmental Quality. Table of risk-based concentrations for individual chemicals. May 2018.

M0228.05.002, 1/21/2022, Td_Petrocard_MLK_Dec2021.xlsx

Attachment B

GeoPotential Report



ENVIRONMENTAL & EXPLORATION GEOPHYSICS



330 Creekside Terrace, Fairview, OR 97024 Phone: (\$03) 912-6441 Fax: (603) 912-6448
WEB http://www.geopotential.biz/ E-MAIL GeoPotential@geopotential.biz

Letter Report

Subsurface Mapping Survey for Underground Storage Tanks and Ancillary Piping

Petrocard Site 8100 NE Martin Luther King Jr. Blvd Portland, Oregon

GeoPotential Project# 1717

Performed for:

Maul Foster Alongi 330 E Mill Plain Boulevard, Suite 405 Vancouver, Washington 98660

Survey Date: April 21, 2025

Report Date: April 21, 2025

Personnel: GeoPotential; Ralph Soule. MFA; David Weatherby

<u>Geophysical Surveys Conducted</u>: Ground Penetrating Radar (GPR) utilizing a Mala Easy Locator with a 425 MHz antenna. Magnetic scan with a Schonstedt GA52B Magnetic Gradiometer. Pipe and cable locating with a Heath Sure Lock and an Aqua-Tronics A6 Tracer.

<u>Procedures:</u> Surveys were conducted over the suspected locations of the suspected former locations of USTS shown on Figure 1. GPR Profiles and locating results were interpreted over the Site and marked on the Site with marking.

<u>Results:</u> Figure 1 shows the BB&A Site map provided by MFA to GeoPotential and shows the areas of interest. Results are shown on Figure 2 and were marked at the site with marking paint.

One Underground Storage Tank was detected by the SMS. It is 4X12 feet (1,000 gallons) at a depth of 2 feet bgs. A fill port, vent pipe and former dispenser island is associated with this UST.

A backfilled excavation 12X25 feet is located adjacent to the UST and is about 8 feet deep.

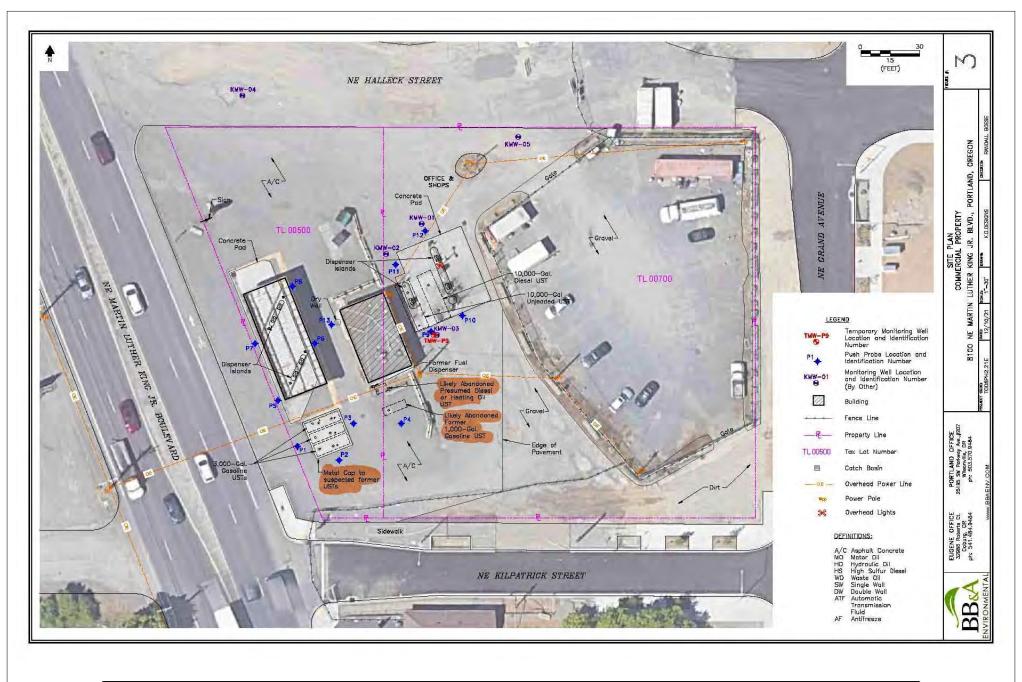
Three vent pipes and electrical lines run from the Station to the Tank nest located as shown on Figure 2.

LIMITATIONS

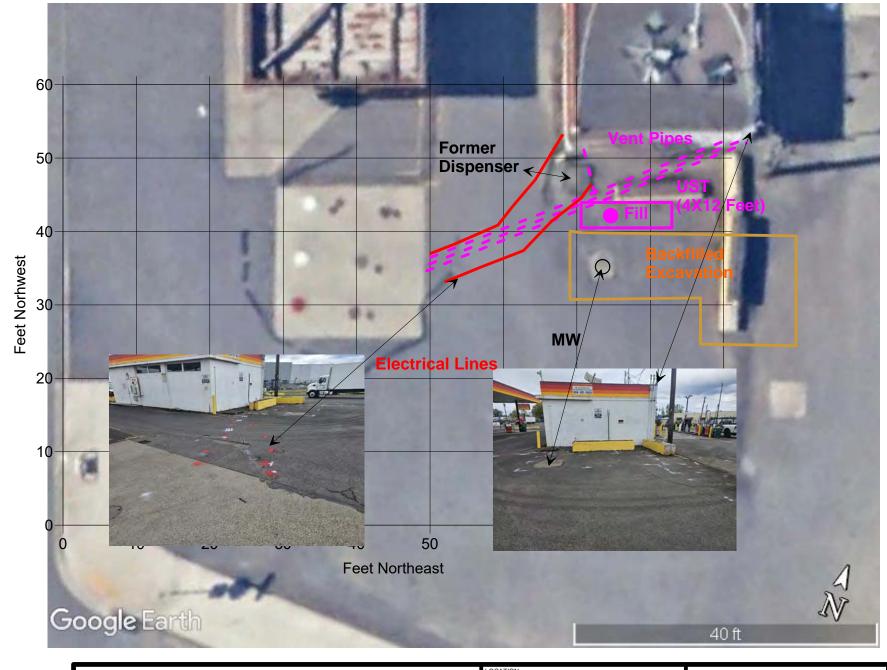
Limitations of GPR surveys can be seen in the Appendix.

Geophysical surveys consist of interpreting geophysical responses from subsurface features. Since a variety of subsurface features can produce identical geophysical responses, it is necessary to confirm the geophysical interpretation with intrusive investigations such as excavating or drilling. In addition, many subsurface features may produce no geophysical response.

Ralph Soule GeoPotential April 21, 2025











ENVIRONMENTAL & EXPLORATION GEOPHYSICS

330 Creekside Terrace, Fairview, OR 97024 Phone: (\$03) 912-6441 Fax: (603) 912-6448
WEB http://www.geopotential.biz/ E-MAIL GeoPotential@geopotential.biz

GROUND PENETRATING RADAR SURVEYS

Ground Penetrating Radar (GPR) can be a valuable tool to accurately locate both metallic and non-metallic UST's and utilities, buried drums and hazardous material at some sites. It may detect objects below reinforced concrete floors and slabs. GPR may delineate trenches and excavations and, under some conditions, it may be used to locate contaminant plumes. It has been used as an archaeological tool to look for buried artifacts. It may accurately profile fresh water lake bottoms either from a boat or from a frozen lake surface. GPR may be used to locate voids below roads and runways. GPR has numerous engineering applications. It can be used in non-destructive testing of engineering material, for example, locating rebar in concrete structures and determining the thickness of concrete and other structural material.

GPR uses short impulses of high frequency radio waves directed into the ground to acquire information about the subsurface. The energy radiated into the ground is reflected back to the antenna by features having different electrical properties to that of the surrounding material. The greater the contrast, the stronger the reflection. Typical reflectors include water table, bedrock, bedding, fractures, voids, contaminant plumes and man-made objects such as UST's and metal and plastic utilities. Materials having little electrical contrast like clay and concrete pipes may not produce strong reflections and may not be seen. Data are digitally recorded or downloaded to a laptop computer for filtering and processing.

The frequency of the radar signal used for a survey is a trade off. Low frequencies ($250 \, \text{MHz} - 50 \, \text{MHz}$) give better penetration but low resolution so that pipes and utilities may not be seen. Pipes and utilities may be seen using higher frequencies ($500 \, \text{MHz}$) but the depth of penetration may be limited to only a few feet especially in the wet, clayey soils found in many areas of the NW USA. The GPR frequency is dependent upon the antenna. Once an antenna is selected, nothing the operator can do can increase the depth of penetration.

Radar data is ambiguous. Many buried objects produce echoes that may be similar to the echo expected from the target object. Boulders and debris produce reflections that are similar to pipes and tanks. Subtle changes in the electrical properties along a traverse caused by changes in soil type, mineralogy, grain size, and moisture content all produce "noise" that can make interpretation difficult. Interpreting radargrams is an art as much as a science.

Under some conditions, although a UST itself may not be clearly visible in a GPR record, the excavation or trench in which the UST is buried is evident. Usually GPR data is used to compliment data from other "tools". For example, a trench-like reflection but no clear UST reflection, combined with a "tank" shaped magnetic anomaly suggests the presence of a UST. Although the UST itself could not be seen using GPR, the radar showed a trench-like reflection. The magnetic data showed a large ferrous object. We would report a possible UST at that location.

GPR is often used in conjunction with magnetometer surveys. Magnetometer Surveys are very fast and large areas can be covered cost effectively. Magnetic anomalies are marked in the field, and then may be further investigated using radar.

GPR, like other geophysical tools, is excellent at detecting changes across a site, but it is poor at actually identifying the cause of the change. **The only definite way to identify buried objects is through excavation.**

ADVANTAGES - General

- When GPR data is properly interpreted subsurface objects can usually be confidently identified.
 This often requires the GPR data be combined with other geophysical data, surface features and historical information.
- GPR provides continuous records along traverses which, depending on the goal of the survey, may be interpreted in the field.
- At flat, open sites, for reconnaissance purposes, the antenna can be towed behind a vehicle at several mph.
- Many GPR antennas are shielded and are unaffected by surface and overhead objects and power lines.
- GPR can be used in conjunction with magnetic or EM surveys to accurately locate buried objects.

ADVANTAGES – Site specific

- With a low frequency antenna, in clean, dry, sandy soil, reflections from targets as deep as 100 feet are possible. Geologic features such as bedrock and cross bedding may be seen at some sites.
- The resolution of data is very high particularly for high frequency antennas.
- Shallow, man-made objects generally can be detected.
- Fiberglass UST's and plastic pipes can be detected using GPR.

LIMITATIONS - General

- To acquire the highest quality data, proper coupling between the antenna and the ground surface is
 necessary. Poor data may be obtained at sites covered with debris, an uneven surface, tall grass
 and brush. Objects located at curbs are difficult to see.
- Acquiring GPR data is slow. The antenna must be over the target. The signal from the antenna is
 cone-shaped. Reflections from objects to the side of the antenna may be seen, but their actual
 location relative to the antenna is not obvious.
- Penetration of the GPR signal is "site specific" and its depth of penetration at a particular site cannot be predicted ahead of time. Near surface conductive material, such as salty or contaminated ground water and wet, clay-rich soil, may attenuate the radar signal, limiting the effective depth of the survey to several feet. Reinforced concrete also can attenuate the signal. Rebar may produce reflections that look like pipes.

 GPR may not be cost-effective for some projects. For a detailed survey mapping underground storage tanks and utilities, it may be necessary to collect data in orthogonal directions at 5-foot line spacing.

LIMITATIONS – Interpretation

- Interpretation can be difficult. Radar data are ambiguous. Subsurface objects can be detected but, in general, they cannot be identified. USTs and utilities have a characteristic reflection, however, large rocks and boulders have a similar reflection.
- The reflection visible in a GPR record is very complex and may be caused by small changes in the electrical properties of the soil. The target in mind may not produce the reflection. Due to "noise", the target may be missed. USTs and deep utilities may be missed if they are under debris and/or other pipes.
- Other methods may be necessary to aid in the interpretation of the data (use a magnetometer to detect a large metallic mass, then GPR to determine if the object is tank-like, or a utility locator to determine if there are feed lines and fill pipes leading to the object).
- Adequate contrast between the ground and the target is required to obtain reflections. UST's may
 be missed if they are badly corroded. Utilities made of "earth" materials like clay and concrete
 may not be detected since their electrical properties are similar to the surrounding soil.
- To determine the depth to an object without "ground truth", assumptions must be made regarding
 soil properties. Even with ground truth at several locations on the same site, changes in material
 across a site (therefore changes in signal velocity) can cause errors in depth measurements at
 other locations.



Attachment C

Photo Log





Photographs

Project Name: Site Investigation at Union MLK Cardlock

Project Number: M0228.05.003

Location: 8100 NE Martin Luther King Jr. Boulevard, Portland,

Oregon

Photo No. 1. Description

Vicinity of abandoned heating oil tank, backfilled excavation, and monitoring well adjacent to south side of building, looking north.



Photo No. 2. Description

Close-up of abandoned heating oil tank and monitoring well locations adjacent to south side of building.





Photographs

Project Name: Site Investigation at Union MLK Cardlock

Project Number: M0228.05.003

Location: 8100 NE Martin Luther King Jr. Boulevard, Portland,

Oregon

Photo No. 3. Description

Close-up of feature labelled as a monitoring well.



Photo No. 4. Description

Close-up of pipe with a cap and internal wire adjacent to the southeast corner of the active gasoline underground storage tanks.





Photographs

Project Name: Site Investigation at Union MLK Cardlock

Project Number: M0228.05.003

Location: 8100 NE Martin Luther King Jr. Boulevard, Portland,

Oregon

Photo No. 5. Description

Heating oil tank removal in progress.



Photo No. 6. Description

Heating oil tank removed and inspected to document it is in good condition with no obvious holes.





Photo No. 7. Description

Close-up of heating oil tank.

Photographs

Project Name: Site Investigation at Union MLK Cardlock

Project Number: M0228.05.003

Location: 8100 NE Martin Luther King Jr. Boulevard, Portland,

Oregon



Photo No. 8. Description

Heating oil tank interior inspected to document it is in good condition with no obvious holes.





Photographs

Project Name: Site Investigation at Union MLK Cardlock

Project Number: M0228.05.003

Location: 8100 NE Martin Luther King Jr. Boulevard, Portland,

Oregon

Photo No. 9. Description

Heating oil tank and monitoring well excavation areas.

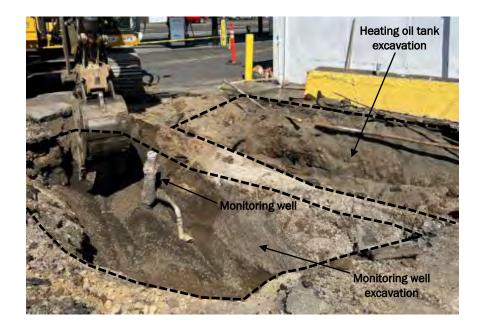


Photo No. 10. Description

Close-up of monitoring well and vapor recovery pipes for the active underground storage tank system.





Photographs

Project Name: Site Investigation at Union MLK Cardlock

Project Number: M0228.05.003

Location: 8100 NE Martin Luther King Jr. Boulevard, Portland,

Oregon

Photo No. 11. Description

Close-up of removed monitoring well, monitoring well sump, and vapor recovery pipes for the active underground storage tank system.



Attachment D

Groundwater Laboratory Report





Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Friday, May 2, 2025 David Weatherby Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232

RE: A5D1647 - Petrocard-MLK - M0228.05.003

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

Enclosed are the results of analyses for work order A5D1647, which was received by the laboratory on 4/21/2025 at 5:20:00PM.

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

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.

(See Cooler Receipt Form for details)

Default Cooler 0.2 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.





Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Petrocard-MLK3140 NE Broadway StreetProject Number:M0228.05.003

Portland, OR 97232 Project Manager: David Weatherby

Report ID: A5D1647 - 05 02 25 1746

ANALYTICAL REPORT FOR SAMPLES

	SAMPLE INFO	RMATION		
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
KMW-01-GW	A5D1647-01	Water	04/21/25 14:10	04/21/25 17:20
KMW-03-GW	A5D1647-02	Water	04/21/25 13:45	04/21/25 17:20

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project: Petrocard-MLK
Project Number: M0228.05.003
Project Manager: David Weatherby

Report ID: A5D1647 - 05 02 25 1746

ANALYTICAL SAMPLE RESULTS

	Die	sel and/or O	il Hydrocar	bons by NWTP	H-Dx		-	
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
KMW-01-GW (A5D1647-01)				Matrix: Wate	ər	Batch:	25D1222	
Diesel	1.68		0.0833	mg/L	1	05/01/25 00:07	NWTPH-Dx LL	
Oil	ND		0.167	mg/L	1	05/01/25 00:07	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Reco	very: 66 %	Limits: 50-150 %	6 I	05/01/25 00:07	NWTPH-Dx LL	
KMW-03-GW (A5D1647-02)				Matrix: Wate	er	Batch:	25D1222	
Diesel	1.07		0.0842	mg/L	1	05/01/25 00:27	NWTPH-Dx LL	F-11
Oil	ND		0.168	mg/L	1	05/01/25 00:27	NWTPH-Dx LL	
Surrogate: o-Terphenyl (Surr)		Reco	very: 74 %	Limits: 50-150 %	6 <i>1</i>	05/01/25 00:27	NWTPH-Dx LL	

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Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project: Petrocard-MLK
Project Number: M0228.05.003
Project Manager: David Weatherby

Report ID: A5D1647 - 05 02 25 1746

ANALYTICAL SAMPLE RESULTS

Gasol	ine Range Hy	/drocarbons	(Benzene t	hrough Naphth	alene) by	NWTPH-Gx		
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
KMW-01-GW (A5D1647-01)				Matrix: Wat	er	Batch:	25D0878	
Gasoline Range Organics	0.816		0.100	mg/L	1	04/22/25 18:54	NWTPH-Gx (MS)	B-02, F-03
Surrogate: 4-Bromofluorobenzene (Sur)		Recov	ery: 105 %	Limits: 50-150 %	6 I	04/22/25 18:54	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			109 %	50-150 %	6 I	04/22/25 18:54	NWTPH-Gx (MS)	
KMW-03-GW (A5D1647-02)				Matrix: Wat	er	Batch:	25D0878	
Gasoline Range Organics	1.36		0.100	mg/L	1	04/22/25 19:16	NWTPH-Gx (MS)	B-02, F-03
Surrogate: 4-Bromofluorobenzene (Sur)		Reco	very: 99 %	Limits: 50-150 %	6 I	04/22/25 19:16	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			106 %	50-150 %	6 I	04/22/25 19:16	NWTPH-Gx (MS)	

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ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project: Petrocard-MLK
Project Number: M0228.05.003
Project Manager: David Weatherby

Report ID: A5D1647 - 05 02 25 1746

ANALYTICAL SAMPLE RESULTS

		BTEX+N C	ompounds	by EPA 8260D				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
KMW-01-GW (A5D1647-01)				Matrix: Wate	er	Batch: 2	25D0878	
Benzene	0.200		0.200	ug/L	1	04/22/25 18:54	EPA 8260D	
Toluene	ND		1.00	ug/L	1	04/22/25 18:54	EPA 8260D	
Ethylbenzene	ND		0.500	ug/L	1	04/22/25 18:54	EPA 8260D	
Xylenes, total	ND		1.50	ug/L	1	04/22/25 18:54	EPA 8260D	
Naphthalene	ND		5.00	ug/L	1	04/22/25 18:54	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 102 %	Limits: 80-120 %	1	04/22/25 18:54	EPA 8260D	
Toluene-d8 (Surr)			100 %	80-120 %	1	04/22/25 18:54	EPA 8260D	
4-Bromofluorobenzene (Surr)			100 %	80-120 %	1	04/22/25 18:54	EPA 8260D	
KMW-03-GW (A5D1647-02)				Matrix: Wate	er	Batch: 2	25D0878	
Benzene	52.3		0.200	ug/L	1	04/22/25 19:16	EPA 8260D	
Toluene	12.0		1.00	ug/L	1	04/22/25 19:16	EPA 8260D	
Ethylbenzene	5.28		0.500	ug/L	1	04/22/25 19:16	EPA 8260D	
Xylenes, total	38.4		1.50	ug/L	1	04/22/25 19:16	EPA 8260D	
Naphthalene	ND		5.00	ug/L	1	04/22/25 19:16	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 100 %	Limits: 80-120 %	I	04/22/25 19:16	EPA 8260D	
Toluene-d8 (Surr)			101 %	80-120 %	1	04/22/25 19:16	EPA 8260D	
4-Bromofluorobenzene (Surr)			99 %	80-120 %	1	04/22/25 19:16	EPA 8260D	

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ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Petrocard-MLK3140 NE Broadway StreetProject Number:M0228.05.003Portland, OR 97232Project Manager:David Weatherby

Report ID: A5D1647 - 05 02 25 1746

QUALITY CONTROL (QC) SAMPLE RESULTS

		D	iesel and/o	r Oil Hyd	rocarbor	s by NW7	PH-Dx					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25D1222 - EPA 3510C (Fuels/Acid	Ext.)					Wa	ter				
Blank (25D1222-BLK1)			Prepared	: 04/30/25	13:06 Ana	lyzed: 04/30	/25 20:00					
NWTPH-Dx LL												
Diesel	ND		0.0800	mg/L	1							
Oil	ND		0.160	mg/L	1							
Surr: o-Terphenyl (Surr)		Rece	overy: 75 %	Limits: 50	-150 %	Dilı	ution: 1x					
LCS (25D1222-BS1)			Prepared	: 04/30/25	13:06 Ana	lyzed: 04/30	/25 20:20					
NWTPH-Dx LL												
Diesel	0.274		0.0800	mg/L	1	0.500		55	36-132%			
Surr: o-Terphenyl (Surr)		Rece	overy: 79 %	Limits: 50	-150 %	Dilı	ution: 1x					
LCS Dup (25D1222-BSD1)			Prepared	: 04/30/25	13:06 Ana	lyzed: 04/30	/25 20:41					Q-1
NWTPH-Dx LL												
Diesel	0.259		0.0800	mg/L	1	0.500		52	36-132%	6	30%	
Surr: o-Terphenyl (Surr)		Rece	overy: 77 %	Limits: 50	150 %	Dilı	ution: 1x					

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ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project Number: Project Manager: David Weatherby

Report ID: A5D1647 - 05 02 25 1746

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolir	ne Range H	ydrocarbo	ons (Benz	zene thro	ugh Naph	thalene)	by NWTP	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25D0878 - EPA 5030C							Wa	ter				
Blank (25D0878-BLK1)			Prepared	1: 04/22/25	09:06 Ana	yzed: 04/22	/25 11:22					
NWTPH-Gx (MS)												
Gasoline Range Organics	ND		0.100	mg/L	1							B-02
Surr: 4-Bromofluorobenzene (Sur)		Recov	ery: 100 %	Limits: 50	0-150 %	Dila	ution: 1x					
1,4-Difluorobenzene (Sur)			108 %	50	0-150 %		"					
LCS (25D0878-BS2)			Prepared	d: 04/22/25	09:06 Ana	yzed: 04/22	2/25 11:00					
NWTPH-Gx (MS)												
Gasoline Range Organics	0.520		0.100	mg/L	1	0.500		104	80-120%			B-02
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 97 %	Limits: 50	0-150 %	Dili	ution: 1x					
1,4-Difluorobenzene (Sur)			103 %	50	0-150 %		"					
Duplicate (25D0878-DUP1)			Prepared	d: 04/22/25	09:06 Ana	yzed: 04/22	/25 12:48					
QC Source Sample: Non-SDG (A5	5D1643-02)											
Gasoline Range Organics	2.24		0.100	mg/L	1		2.37			6	30%	B-02
Surr: 4-Bromofluorobenzene (Sur)		Recov	ery: 103 %	Limits: 50	0-150 %	Dilt	ution: 1x					
1,4-Difluorobenzene (Sur)			103 %	50	0-150 %		"					
Duplicate (25D0878-DUP2)			Prepared	d: 04/22/25	09:06 Ana	lyzed: 04/22	2/25 18:11					
QC Source Sample: Non-SDG (A5	D1593-01)											
Gasoline Range Organics	ND		0.100	mg/L	1		ND				30%	
Surr: 4-Bromofluorobenzene (Sur)		Recov	ery: 103 %	Limits: 50	0-150 %	Dili	ution: 1x					
1,4-Difluorobenzene (Sur)			110 %	50	0-150 %		"					

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ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Petrocard-MLK3140 NE Broadway StreetProject Number:M0228.05.003Portland, OR 97232Project Manager:David Weatherby

Report ID: A5D1647 - 05 02 25 1746

QUALITY CONTROL (QC) SAMPLE RESULTS

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25D0878 - EPA 5030C							Wa	ter				
Blank (25D0878-BLK1)			Prepared	d: 04/22/25	09:06 Anal	yzed: 04/22	/25 11:22					
EPA 8260D												
Benzene	ND		0.200	ug/L	1							
Toluene	ND		1.00	ug/L	1							
Ethylbenzene	ND		0.500	ug/L	1							
Xylenes, total	ND		1.50	ug/L	1							
Naphthalene	ND		5.00	ug/L	1							
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 103 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			101 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			101 %	80	1-120 %		"					
LCS (25D0878-BS1)			Prepared	d: 04/22/25	09:06 Anal	yzed: 04/22	/25 10:29					
EPA 8260D												
Benzene	22.4		0.200	ug/L	1	20.0		112	80-120%			
Toluene	21.5		1.00	ug/L	1	20.0		107	80-120%			
Ethylbenzene	22.7		0.500	ug/L	1	20.0		114	80-120%			
Xylenes, total	62.6		1.50	ug/L	1	60.0		104	80-120%			
Naphthalene	18.0		5.00	ug/L	1	20.0		90	80-120%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 99 %	Limits: 80	0-120 %	Dilı	ıtion: 1x					_
Toluene-d8 (Surr)			100 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			101 %	80	1-120 %		"					
Duplicate (25D0878-DUP1)			Prepared	d: 04/22/25	09:06 Anal	yzed: 04/22	/25 12:48					
QC Source Sample: Non-SDG (A5	D1643-02)											
Benzene	6.43		0.200	ug/L	1		6.77			5	30%	
Toluene	1.57		1.00	ug/L	1		1.65			5	30%	
Ethylbenzene	9.51		0.500	ug/L	1		9.81			3	30%	
Xylenes, total	6.10		1.50	ug/L	1		6.07			0.5	30%	
Naphthalene	6.25		5.00	ug/L	1		6.44			3	30%	
Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 99 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			100 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			101 %	80	-120 %		"					

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ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project: Petrocard-MLK
Project Number: M0228.05.003
Project Manager: David Weatherby

Report ID: A5D1647 - 05 02 25 1746

QUALITY CONTROL (QC) SAMPLE RESULTS

			BTEX+	N Compo	ounds by	EPA 8260	D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25D0878 - EPA 5030C							Wa	ter				
Duplicate (25D0878-DUP2)			Prepared	: 04/22/25	09:06 Ana	lyzed: 04/22	/25 18:11					
QC Source Sample: Non-SDG (A5	D1593-01)											
Benzene	ND		0.200	ug/L	1		ND				30%	
Toluene	ND		1.00	ug/L	1		ND				30%	
Ethylbenzene	ND		0.500	ug/L	1		ND				30%	
Xylenes, total	ND		1.50	ug/L	1		ND				30%	
Naphthalene	ND		5.00	ug/L	1		ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 103 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			101 %	80	0-120 %		"					
4-Bromofluorobenzene (Surr)			99 %	80	0-120 %		"					
Matrix Spike (25D0878-MS1)			Prepared	: 04/22/25	09:06 Ana	lyzed: 04/22	/25 15:19					
QC Source Sample: Non-SDG (A5	D1651-01)											
EPA 8260D												
Benzene	24.4		0.200	ug/L	1	20.0	ND	122	79-120%			Q-0
Toluene	23.4		1.00	ug/L	1	20.0	ND	117	80-121%			
Ethylbenzene	24.8		0.500	ug/L	1	20.0	ND	124	79-121%			Q-0
Xylenes, total	68.2		1.50	ug/L	1	60.0	ND	114	79-121%			
Naphthalene	19.6		5.00	ug/L	1	20.0	ND	98	61-128%			
Surr: 1,4-Difluorobenzene (Surr)		Rec	overy: 98 %	Limits: 80	0-120 %	Dilı	tion: 1x					
Toluene-d8 (Surr)			100 %	80	0-120 %		"					
4-Bromofluorobenzene (Surr)			101 %	80	0-120 %		"					

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ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: M0228.05.003
Project Manager: David Weatherby

Report ID: A5D1647 - 05 02 25 1746

SAMPLE PREPARATION INFORMATION

		Diesel and	d/or Oil Hydrocarbor	ns by NWTPH-Dx			
Prep: EPA 3510C (F	uels/Acid Ext.)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 25D1222							
A5D1647-01	Water	NWTPH-Dx LL	04/21/25 14:10	04/30/25 13:06	960mL/2mL	1000mL/2mL	1.04
A5D1647-02	Water	NWTPH-Dx LL	04/21/25 13:45	04/30/25 13:06	950mL/2mL	1000mL/2mL	1.05

	Gas	oline Range Hydrocart	oons (Benzene thro	ugh Naphthalene) b	y NWTPH-Gx		
Prep: EPA 5030C					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 25D0878							
A5D1647-01	Water	NWTPH-Gx (MS)	04/21/25 14:10	04/22/25 10:40	5mL/5mL	5mL/5mL	1.00
A5D1647-02	Water	NWTPH-Gx (MS)	04/21/25 13:45	04/22/25 10:40	5mL/5mL	5mL/5mL	1.00

		BTE	X+N Compounds by	EPA 8260D			
Prep: EPA 5030C					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 25D0878							
A5D1647-01	Water	EPA 8260D	04/21/25 14:10	04/22/25 10:40	5mL/5mL	5mL/5mL	1.00
A5D1647-02	Water	EPA 8260D	04/21/25 13:45	04/22/25 10:40	5mL/5mL	5mL/5mL	1.00

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<u>Report ID:</u> A5D1647 - 05 02 25 1746

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- B-02 Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
- F-03 The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.
- F-11 The hydrocarbon pattern indicates possible weathered diesel, mineral oil, or a contribution from a related component.
- Q-01 Spike recovery and/or RPD is outside acceptance limits.
- Q-19 Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.

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Report ID: A5D1647 - 05 02 25 1746

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Validated Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ). If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting and Detection Limits: Default Limits

Default Reporting and Detection Limits are based on 100% dry weight with the minimum dilution for the analysis. Reporting and Detection Limits are raised due to moisture content, additional dilutions required for analysis, matrix interferences and in other cases, as necessary.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")

See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

"___" Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

Results for Volatiles analyses on soils and sediments that are reported on a "dry weight" basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an "As Received" basis do not have the WMS correction applied, as dry weight was not performed.

QC Source:

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

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

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

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

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Petrocard-MLK3140 NE Broadway StreetProject Number:M0228.05.003Portland, OR 97232Project Manager:David Weatherby

Report ID: A5D1647 - 05 02 25 1746

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to one half of the Reporting Limit (RL).

Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.

- -For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
- -For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy. For further details, please request a copy of this document.
- -Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.
- 'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

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Philip Nerenberg, Lab Director

Philip Nevenberg



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Decanted Samples:

Soils/Sediments:

Unless TCLP analysis is required or there is notification otherwise for a specific project, all Soil and Sediments containing excess water are decanted prior to analysis in order to provide the most representative sample for analysis.

Water Samples

Water samples containing solids and sediment may need to be decanted in order to eliminate these particulates from the water extractions. In the case of organics extractions, a solvent rinse of the container will not be performed.

Volatiles Soils (5035s)

Samples that are field preserved by 5035 for volatiles are dry weight corrected using the same dry weight corretion as for normal analyses. In the case of decanted samples, the dry weight may be performed on a decanted sample, while the aliquot for 5035 may not have been treated the same way. If this is a concern, please submit separate containers for dry weight analysis for volatiles can be provided.

All samples decanted in the laboratory are noted in this report with the DCNT qualifier indicating the sample was decanted.

Apex Laboratories

Philip Nevenberg

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LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the <u>exception</u> of any analyte(s) listed below:

Apex Laboratories

Matrix Analysis TNI_ID Analyte TNI_ID Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project: Petrocard-MLK
Project Number: M0228.05.003
Project Manager: David Weatherby

Report ID: A5D1647 - 05 02 25 1746

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Project: Petrocard-MLK
Project Number: M0228.05.003
Project Manager: David Weatherby

Report ID: A5D1647 - 05 02 25 1746

APEX LABS COOLER I	
Client: Maul Poster Alangi	Element WO#: A5 Dlay7
Project/Project #: Retyound MLK MUZZ	
Delivery Info:	
Date/time received: 4 1 25 @ 1720 By:	DIN
Delivered by: ApexClient_ESSFedExUPSRadio	Morgan SDS Evergreen Other
From USDA Regulated Origin? Yes No	-
Cooler Inspection Date/time inspected: 4/1/1/25 @	1720 By: DO
Chain of Custody included? Yes No No	the state of the s
Signed/dated by client? Yes No	
	Unsure (email RegSoils)
	3 Cooler #4 Cooler #5 Cooler #6 Cooler #7
Temperature (°C)	
Custody seals? (Y/N)	
Received on ice? (Y/N)	
Temp. blanks? (Y/N)	
Ice type: (Gel/Real/Other)	
TO 100	
Cooler out of temp? (YN))Possible reason why: Green dots applied to out of temperature samples? Yes No Out of temperature samples form initiated? Yes No Sample Inspection: Date/time inspected: 4/21/25 @	-
All samples intact? Yes X No Comments:	
CXAM4/21	
Bottle labels/COCs agree? Yes No Comments:	Time on vogis for KMW_03-6W
COC/container discrepancies form initiated? Yes No _	×
Containers/volumes received appropriate for analysis? Yes	
11 1 3000	
Do VOA vials have visible headspace? Yes No X	NA X agus
Comments	July Samubi
Comments	opriate? Yes V No NAV pH ID: An 27 177
Comments:	1100 410
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· A	
Labeled by: Witness:	Cooler Inspected by:
XXAM	Form Y-003 R-02
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## **Attachment E**

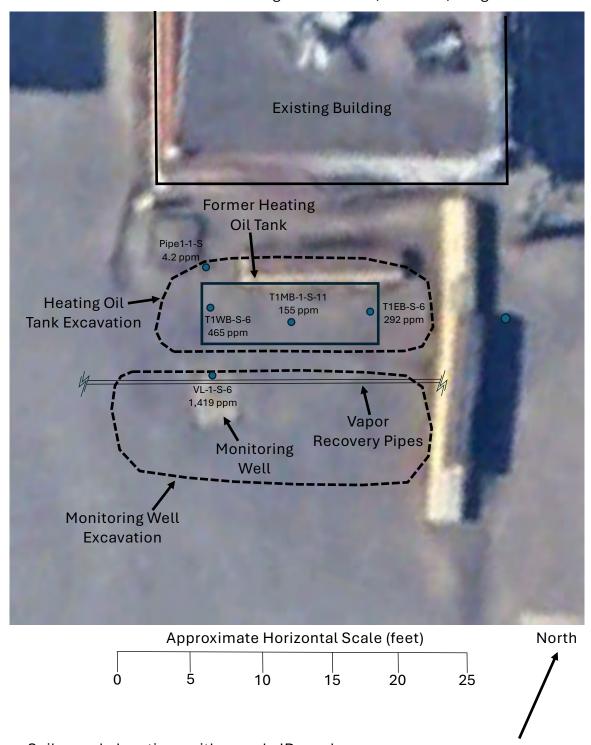
**Soil Sample Location Map** 



## Soil Sample Locations

## Union MLK Cardlock Site Investigation

8100 NE Martin Luther King Jr. Boulevard, Portland, Oregon



Soil sample locations with sample IDs and
 photoionization detector readings in parts per million (ppm)

## **Attachment F**

**Disposal Receipts** 





Hillsboro Landfill, Inc 3205 SE Minter Bridge Hillsboro, OR, 97123 Ph: (503)-640-9427

Original Ticket# 1759799

Customer Name COWLITZCLEAN COWLITZ CLEAN SW Carrier MOORE AND SON TRUCK Vehicle# 101-PUP

Ticket Date 07/08/2025 Payment Type Credit Account

Container

Volume

Manual Ticket# Hauling Ticket# Driver

SCOTT

Route State Waste Code Check#

Billing # 0000 Gen EPA ID N/A 0000068

Grid

Manifest Destination

PO

73547

8925089

145292OR (LF02 : PETROLEUM CONTAMINATED SOILS)

Profile Generator

PETROCARD-8100 PETROCARD 8100 NE' MLK JR BLVD PORTLAND

Time

Scale

Operator

Inbound Gross 69640 lb 38520 lb

07/08/2025 13:18:23 Ιn Out 07/08/2025 13:18:23

Inbound 2

HOREGON HOREGON Tare Net Tons

31120 lb 15.56

Comments

Consumer Comments? We want to know. Please call.

Proc	duct	LID%	Qty	UOM	Rate	Tax	Amount	Orlgin
1 2	Cont Soil Pet-RGC- EVC-Energy Surchar		15.56	Tons	,			MOTA-IN

Total Tax Total Ticket

Driver`s Signature



Hillsboro Landfill, Inc 3205 SE Minter Bridge Hillsboro, OR, 97123 Ph: (503)-640-9427

Original Ticket# 1759760

Volume

Customer Name COWLITZCLEAN COWLITZ CLEAN SW Carrier Vehicle# 101-PUP

Ticket Date 07/08/2025 Payment Type Credit Account

Manual Ticket# Hauling Ticket#

Route

State Waste Code 8925089 Manifest

Destination

73547

Time

Profile Generator

1452920R (LF02 : PETROLEUM CONTAMINATED SOILS)

PETROCARD-8100 PETROCARD 8100 NE MLK JR BLVD PORTLAND

Scale 07/08/2025 10:30:01 Inbound 1 Out 07/08/2025 10:51:05 Outbound

sbodtker JPRIME

Container

Gen EPÁ ID N/A

Driver

Check# Billing #

Grid

Operator

SCOTT

0000068

Inbound

MOORE AND SON TRUCK

Gross Tare Net Tons

104360 lb 38520 lb 65840 lb 32.92

Comments

In

Consumer Comments? We want to know. Please call.

Product LD			Qty	UOM	Rate	Tax	Amount	Origin
1 2	Cont Soil Pet-RGC- EVC-Energy Surchar		32,92	Tons				MULT-IN MULT-IN

Total Tax Total Ticket

Driver's Signature

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OAN)	Scott Moore		Signature				Month		
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ESIGNATED FACILITY					23233				
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ij.	16 Designated Recity Owner on Operator. Certification of receipt of materials o	overed by the manifest e	except as noted in Item 178	3					
-	FTG DESCRIBED RECENT CHIEF OF CHEERING CONTRACTOR OF HOSPIC OF HOREIGNS C								
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- Kenterman	Frinted Typed Name  Sign BOOTKER		Signature Suc	e b	ode		17	165	<u>5</u>
	Frinted Typed Name Sign. BOOTKER			e b		Jela teras	Months 7 MARINE ES		5



**Head Office** 4150 N. Suttle Rd. Portland, OR 97217 1-800-367-8894

## RECEIVING RECORD

R 01-25-0627-005

Received From:

Cowlitz Clean Sweep 55 International Way Longview WA 98632

EPA# WAD988467197

Phone: Customer ID# 711

360-423-6316

Driver:

**JOEY** 

Receiving Location: Plant # 1

FPI

4150 N. Suttle Road Portland, OR 97217

Phone

503-286-8352

EPA#

ORD980975692

	Date			Terms		Written By		Sales Rep.		Page	
	06/2	7/2	5		-0-		Jaymeson		84 <b>1</b> o		f of 1
Line	Qty.		Unit	Item				%H20	Manifest #	B/L#	Net Qty
1		1	Each		A <i>nalysis Tes</i> ator ID# 711	sting Cowlitz Clea	an Sweep		8925089		
				Total	Each	1.					
2		61	Gal.	Copore	<mark>s<i>ified Fuel</i> ator ID# 711 ILE ATTACHE</mark>	Cowlitz Cle D-PETROCAID IN	an Sweep IC CL0106 8100 N		8925089 R BLVD PORTLAND	OREGON 9721	11
				Total	Gal.	61.					

Customer warrents that the waste petroleum products being received do not contain any contaminants including, without limitation, pesticides, chlorinated solvents at total concentrations greater than 1000 PPM, PCB's greater than 2 PPM, or any other material classified as hazardous waste by 40 CFR part 261, Subparts C and D (implementing the Federal Resource Conservation and Recovery Act) or by any other state or local hazardous waste classification program. Should Laboratory tests find this product not in compliance with 40 CFR part 261 customer agrees to pay all disposal costs incurred.

Signed X	DATE:	6/27/2025
SIONED A		

<b>2007</b> P		and the second second					1					
V.	NON-HAZARDOUS	1. Generator ID Number		2. Page 1 of 3.	Emergency Response	Phone	4. Waste Tra	cking Num	ber CST			
	WASTE MANIFEST	<u> (17-6</u> 1			THE STREET, ST. 113		`	<u>,                                    </u>	<u> </u>			
	5. Generator's Name and Mailin	g Address;	12 III AVE - 2 III AVE - 1 UA 78050.	Ge	nerator's Site Address	(if different that	an mailing addre	ss)	1			
	F 72	Le Here	19, 4/19 dur		C 6	- 4 18	~~~ - 1111 - K	$f_{F_{n}}$	1610/ 211 (1951)			
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	Generator's Phone:	KEIT, 1	UH 18005.	<u> (1971 -</u>	POY	11016	<u> 1, (2)</u>	/ /	2-11 11/11			
	6. Transporter 1 Company Nam	ie .	ivision of PNE i				U.S. EPA ID	Number	74944			
		VU3 M U	ive its is a second	inga Basas Bessil to					100. 12 N 200. 2- 10			
	7. Transporter 2 Company Nam	ie					U.S. EPA ID Number					
							<u> </u>					
	8. Designated Facility Name an	d Site Address	Suite Rd. Porti		07347 6		U.S. EPA ID	Number	10975692			
	j OKKGO MC.				Wiaii E	E Prof.						
	/		:: 5									
	Facility's Phone:	280-7078	§						<b></b>			
		Description			10. Conta	iners	11. Total	12. Unit				
	9. Waste Shipping Name	· 1	n 111	Ł	No.	Туре	Quantity	Wt./Vol.				
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GENERATOR	2.											
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	13. Special Handling Instruction	ons and Additional Infor	mation									
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	14. GENERATOR'S CERTIFIC	CATION: I certify the ma	alerials described above on this manife	st are not subject t	o federal regulations fo	r reporting pro	per disposal of l	Hazardous \	Waste.			
	Generator's/Offeror's Printed/1	Typed Name	111/1/2	) / Signa	ture	APPENDING TO THE PROPERTY OF THE PARTY OF TH			Month flav	Year		
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TDANCDORTER #1

Printed in USA by GC Labels

2110722 METRO METALS NORTHWEST, INC. Wells Fargo Bank, N.A. 5611 N.E. Columbia Blvd. Portland, Oregon 97218 (503) 287-8861 PAY TO THE ORDER OF CCS A DIVISION OF PNE CORP. DOLLARS ***97 Dollars and 60 Cents TWO SIGNATURES REQUIRED OVER \$5,000 DOLLARS CCS A DIVISION OF PNE CORP. 9420 NW ST. HELENS RD. PORTLAND, OR 97231 # 2110722# #12100024B# 4941136889# METRO METALS NORTHWEST, INC.: FERROUS 2110722 Vendor: 228658 CCS A DIVISION OF PNE CORP. ~ Ticket#: 1399560

Total Wt: 1,220

Paid To: CCS A DIVISION OF PME CORP.

WHT COMP TRK W/ Descrip:

Tot.Paid: TLB7.60

Truck#

Commodity

Gross-Tare Tare2 Contam Net UM

Price

#2 Steel Unprepared

16,780 15,560 1,220 N

160.00

97.60

Gredit 891508

From: Scott Gilfillan

To: David Weatherby

 Subject:
 FW: Message from "RNP5838799255CE"

 Date:
 Friday, August 29, 2025 12:26:12 PM

**Attachments:** 20250829122737779.pdf

[External Sender - Confirm Sender and Beware of Links and Attachments]

#### David:

Attached you will find the requested doc's for Petrocard MLK site.

Orrco disposal paperwork. 60.5 gallons of the 61 gallons was from the UST and triple rinse.

The remaining .5 gallons was from the vapor tank.

Scrap metal recycling receipt for the steel UST.

Waste Management disposal of PCS receipts. 2 loads of PCS hauled to Hillsboro Landfill.

Thank You Sir,

Scott

----Original Message-----

From: ricohpdx@pnecorp.com <ricohpdx@pnecorp.com>

Sent: Friday, August 29, 2025 12:28 PM To: Scott Gilfillan <scottg@ccs-pneco.com> Subject: Message from "RNP5838799255CE"

This E-mail was sent from "RNP5838799255CE" (IM 3500).

Scan Date: 08.29.2025 12:27:37 (-0700) Queries to: ricohpdx@pnecorp.com

## **Attachment G**

**Soil Laboratory Report and Data Validation Memorandum** 





**Apex Laboratories, LLC** 

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Monday, July 7, 2025
David Weatherby
Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

RE: A5F1504 - Petrocard-MLK - M0228.05.004

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

Enclosed are the results of analyses for work order A5F1504, which was received by the laboratory on 6/19/2025 at 3:50:00PM.

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

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

#### Cooler Receipt Information

Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.

(See Cooler Receipt Form for details)

Default Cooler 2.6 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.





Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director



### **Apex Laboratories, LLC**

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Petrocard-MLK3140 NE Broadway StreetProject Number:M0228.05.004Portland, OR 97232Project Manager:David Weatherby

Report ID: A5F1504 - 07 07 25 1513

### ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION											
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received							
SP1-Comp-S	A5F1504-01	Soil	06/19/25 12:00	06/19/25 15:50							
T1EB-S-6	A5F1504-02	Soil	06/19/25 09:00	06/19/25 15:50							
T1WB-S-6	A5F1504-03	Soil	06/19/25 10:05	06/19/25 15:50							
Pipe1-1-S	A5F1504-04	Soil	06/19/25 08:50	06/19/25 15:50							
VL-1-S-6	A5F1504-05	Soil	06/19/25 11:42	06/19/25 15:50							
T1MB-1-S-11	A5F1504-06	Soil	06/19/25 11:30	06/19/25 15:50							

Apex Laboratories

Philip Marenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.



### **Apex Laboratories, LLC**

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Project Manager: David Weatherby

Report ID: A5F1504 - 07 07 25 1513

### ANALYTICAL SAMPLE RESULTS

	Die	sel and/or O	il Hydrocar	bons by NWTPI	H-Dx			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SP1-Comp-S (A5F1504-01RE1)				Matrix: Soil		Batch:	25F0707	
Diesel	3530		226	mg/kg dry	10	06/23/25 10:53	NWTPH-Dx	
Oil	ND		452	mg/kg dry	10	06/23/25 10:53	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recove	ery: 102 %	Limits: 50-150 %	10	06/23/25 10:53	NWTPH-Dx	S-05
T1EB-S-6 (A5F1504-02)				Matrix: Soil		Batch:		
Diesel	1190		21.5	mg/kg dry	1	06/20/25 23:15	NWTPH-Dx	
Oil	ND		43.0	mg/kg dry	1	06/20/25 23:15	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recove	ery: 105 %	Limits: 50-150 %	1	06/20/25 23:15	NWTPH-Dx	
T1WB-S-6 (A5F1504-03RE1)				Matrix: Soil		Batch:	25F0735	
Diesel	4390		219	mg/kg dry	10	06/23/25 09:06	NWTPH-Dx	
Oil	ND		438	mg/kg dry	10	06/23/25 09:06	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recove	ery: 100 %	Limits: 50-150 %	10	06/23/25 09:06	NWTPH-Dx	S-05
Pipe1-1-S (A5F1504-04)				Matrix: Soil		Batch:	25F0735	
Diesel	1450		21.8	mg/kg dry	1	06/20/25 23:56	NWTPH-Dx	F-11
Oil	ND		43.5	mg/kg dry	1	06/20/25 23:56	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recove	ery: 101 %	Limits: 50-150 %	1	06/20/25 23:56	NWTPH-Dx	
VL-1-S-6 (A5F1504-05)				Matrix: Soil		Batch:	25F0735	
Diesel	459		22.4	mg/kg dry	1	06/21/25 00:36	NWTPH-Dx	F-18
Oil	ND		44.7	mg/kg dry	1	06/21/25 00:36	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recove	ery: 102 %	Limits: 50-150 %	1	06/21/25 00:36	NWTPH-Dx	
T1MB-1-S-11 (A5F1504-06RE1)				Matrix: Soil		Batch:	25F0735	
Diesel	2780		109	mg/kg dry	5	06/23/25 10:25	NWTPH-Dx	
Oil	ND		218	mg/kg dry	5	06/23/25 10:25	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recove	ery: 103 %	Limits: 50-150 %	5	06/23/25 10:25	NWTPH-Dx	S-05

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Philip Nevenberg



### **Apex Laboratories, LLC**

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project Number: Project Manager: David Weatherby

Report ID: A5F1504 - 07 07 25 1513

### ANALYTICAL SAMPLE RESULTS

	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Note
SP1-Comp-S (A5F1504-01)				Matrix: Soil		Batch:	25F0719	V-15
Gasoline Range Organics	1680		99.4	mg/kg dry	1000	06/20/25 22:54	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	): 104 %	Limits: 50-150 %	1	06/20/25 22:54	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			98 %	50-150 %	1	06/20/25 22:54	NWTPH-Gx (MS)	
T1EB-S-6 (A5F1504-02)				Matrix: Soil		Batch:	25F0719	V-15
Gasoline Range Organics	369		7.44	mg/kg dry	50	06/20/25 21:32	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recover	v: 117 %	Limits: 50-150 %	1	06/20/25 21:32	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			98 %	50-150 %	1	06/20/25 21:32	NWTPH-Gx (MS)	
T1WB-S-6 (A5F1504-03)				Matrix: Soil		Batch:	25F0719	V-15
Gasoline Range Organics	1300		77.3	mg/kg dry	500	06/20/25 22:27	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 108 %	Limits: 50-150 %	1	06/20/25 22:27	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			98 %	50-150 %	1	06/20/25 22:27	NWTPH-Gx (MS)	
Pipe1-1-S (A5F1504-04)				Matrix: Soil		Batch:	25F0719	V-15
Gasoline Range Organics	129		7.60	mg/kg dry	50	06/20/25 21:05	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	v: 122 %	Limits: 50-150 %	I	06/20/25 21:05	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			100 %	50-150 %	1	06/20/25 21:05	NWTPH-Gx (MS)	
VL-1-S-6 (A5F1504-05)				Matrix: Soil		Batch:	25F0719	V-15
Gasoline Range Organics	20900		310	mg/kg dry	2000	06/20/25 23:22	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	v: 103 %	Limits: 50-150 %	I	06/20/25 23:22	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			100 %	50-150 %	1	06/20/25 23:22	NWTPH-Gx (MS)	
T1MB-1-S-11 (A5F1504-06)				Matrix: Soil		Batch:	25F0719	V-15
Gasoline Range Organics	773		15.1	mg/kg dry	100	06/20/25 22:00	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	v: 110 %	Limits: 50-150 %	1	06/20/25 22:00	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			100 %	50-150 %	1	06/20/25 22:00	NWTPH-Gx (MS)	

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### **Apex Laboratories, LLC**

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project Number: Project Manager: David Weatherby

Report ID: A5F1504 - 07 07 25 1513

### ANALYTICAL SAMPLE RESULTS

		BTEX+N C	ompounds	by EPA 8260D				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SP1-Comp-S (A5F1504-01)				Matrix: Soil		Batch:	25F0719	V-15
Benzene	3940		199	ug/kg dry	1000	06/20/25 22:54	5035A/8260D	
Toluene	49900		994	ug/kg dry	1000	06/20/25 22:54	5035A/8260D	
Ethylbenzene	18500		497	ug/kg dry	1000	06/20/25 22:54	5035A/8260D	
Xylenes, total	108000		1490	ug/kg dry	1000	06/20/25 22:54	5035A/8260D	
Naphthalene	8720		1990	ug/kg dry	1000	06/20/25 22:54	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Reco	very: 93 %	Limits: 80-120 %	1	06/20/25 22:54	5035A/8260D	
Toluene-d8 (Surr)			97 %	80-120 %	1	06/20/25 22:54	5035A/8260D	
4-Bromofluorobenzene (Surr)			105 %	79-120 %	1	06/20/25 22:54	5035A/8260D	
T1EB-S-6 (A5F1504-02)				Matrix: Soil		Batch: 2	25F0719	V-15
Benzene	ND		14.9	ug/kg dry	50	06/20/25 21:32	5035A/8260D	
Toluene	ND		74.4	ug/kg dry	50	06/20/25 21:32	5035A/8260D	
Ethylbenzene	554		37.2	ug/kg dry	50	06/20/25 21:32	5035A/8260D	
Xylenes, total	ND		112	ug/kg dry	50	06/20/25 21:32	5035A/8260D	
Naphthalene	4060		149	ug/kg dry	50	06/20/25 21:32	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Reco	very: 92 %	Limits: 80-120 %	1	06/20/25 21:32	5035A/8260D	
Toluene-d8 (Surr)			93 %	80-120 %	1	06/20/25 21:32	5035A/8260D	
4-Bromofluorobenzene (Surr)			108 %	79-120 %	1	06/20/25 21:32	5035A/8260D	
T1WB-S-6 (A5F1504-03)				Matrix: Soil		Batch: 2	25F0719	V-15
Benzene	5230		155	ug/kg dry	500	06/20/25 22:27	5035A/8260D	
Toluene	7130		773	ug/kg dry	500	06/20/25 22:27	5035A/8260D	
Ethylbenzene	16000		386	ug/kg dry	500	06/20/25 22:27	5035A/8260D	
Xylenes, total	6670		1160	ug/kg dry	500	06/20/25 22:27	5035A/8260D	
Naphthalene	15300		1550	ug/kg dry	500	06/20/25 22:27	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Reco	very: 95 %	Limits: 80-120 %	1	06/20/25 22:27	5035A/8260D	
Toluene-d8 (Surr)			95 %	80-120 %	1	06/20/25 22:27	5035A/8260D	
4-Bromofluorobenzene (Surr)			105 %	79-120 %	1	06/20/25 22:27	5035A/8260D	
Pipe1-1-S (A5F1504-04)				Matrix: Soil		Batch: 2	25F0719	V-15
Benzene	ND		15.2	ug/kg dry	50	06/20/25 21:05	5035A/8260D	
Toluene	ND		76.0	ug/kg dry	50	06/20/25 21:05	5035A/8260D	
Ethylbenzene	ND		38.0	ug/kg dry	50	06/20/25 21:05	5035A/8260D	
Ethyloenzene								

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Philip Nerenberg, Lab Director

Philip Nevenberg



### **Apex Laboratories, LLC**

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project Number: Project Manager: David Weatherby

Report ID: A5F1504 - 07 07 25 1513

### ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D													
Amelista	Sample	Detection Limit	Reporting Limit	TT*	Dita.	Date	M-41. 1.B. 0	NT .					
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes					
Pipe1-1-S (A5F1504-04)				Matrix: Soil		Batch:	25F0719	V-15					
Naphthalene	ND		334	ug/kg dry	50	06/20/25 21:05	5035A/8260D	R-02					
Surrogate: 1,4-Difluorobenzene (Surr)		Reco	very: 94%	Limits: 80-120 %	1	06/20/25 21:05	5035A/8260D	<u> </u>					
Toluene-d8 (Surr)			94 %	80-120 %	1	06/20/25 21:05	5035A/8260D						
4-Bromofluorobenzene (Surr)			102 %	79-120 %	1	06/20/25 21:05	5035A/8260D						
VL-1-S-6 (A5F1504-05)				Matrix: Soil		Batch:	25F0719	V-15					
Benzene	30700		621	ug/kg dry	2000	06/20/25 23:22	5035A/8260D						
Ethylbenzene	257000		1550	ug/kg dry	2000	06/20/25 23:22	5035A/8260D						
Xylenes, total	1400000		4650	ug/kg dry	2000	06/20/25 23:22	5035A/8260D						
Naphthalene	65900		6210	ug/kg dry	2000	06/20/25 23:22	5035A/8260D						
Surrogate: 1,4-Difluorobenzene (Surr)		Reco	very: 95 %	Limits: 80-120 %	1	06/20/25 23:22	5035A/8260D						
Toluene-d8 (Surr)			98 %	80-120 %	1	06/20/25 23:22	5035A/8260D						
4-Bromofluorobenzene (Surr)			108 %	79-120 %	1	06/20/25 23:22	5035A/8260D						
VL-1-S-6 (A5F1504-05RE1)				Matrix: Soil		Batch:	25F0767	V-15					
Toluene	672000		15500	ug/kg dry	10000	06/23/25 21:40	5035A/8260D						
Surrogate: 1,4-Difluorobenzene (Surr)		Reco	very: 92 %	Limits: 80-120 %	1	06/23/25 21:40	5035A/8260D						
Toluene-d8 (Surr)			97 %	80-120 %	1	06/23/25 21:40	5035A/8260D						
4-Bromofluorobenzene (Surr)			101 %	79-120 %	1	06/23/25 21:40	5035A/8260D						
T1MB-1-S-11 (A5F1504-06)				Matrix: Soil		Batch:	25F0719	V-15					
Benzene	361		30.2	ug/kg dry	100	06/20/25 22:00	5035A/8260D						
Toluene	557		151	ug/kg dry	100	06/20/25 22:00	5035A/8260D						
Ethylbenzene	6290		75.5	ug/kg dry	100	06/20/25 22:00	5035A/8260D						
Xylenes, total	3650		226	ug/kg dry	100	06/20/25 22:00	5035A/8260D						
Naphthalene	6190		302	ug/kg dry	100	06/20/25 22:00	5035A/8260D						
Surrogate: 1,4-Difluorobenzene (Surr)		Reco	very: 95 %	Limits: 80-120 %	I	06/20/25 22:00	5035A/8260D						
Toluene-d8 (Surr)			97 %	80-120 %	1	06/20/25 22:00	5035A/8260D						
4-Bromofluorobenzene (Surr)			107 %	79-120 %	1	06/20/25 22:00	5035A/8260D						

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### **Apex Laboratories, LLC**

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project: Petrocard-MLK
Project Number: M0228.05.004
Project Manager: David Weatherby

Report ID: A5F1504 - 07 07 25 1513

### ANALYTICAL SAMPLE RESULTS

	TCLP Metals by EPA 6020B (ICPMS)													
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes						
SP1-Comp-S (A5F1504-01)				Matrix: So	oil									
Batch: 25F0810														
Lead	ND		0.0500	mg/L	10	06/24/25 11:08	1311/6020B							

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### **Apex Laboratories, LLC**

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project Number: Project Manager: David Weatherby

Report ID: A5F1504 - 07 07 25 1513

### ANALYTICAL SAMPLE RESULTS

	• • • • • • • • • • • • • • • • • • • •	ercent Dry W	eigiit					
Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
			Matrix: So	il	Batch:	25F0722		
77.9		1.00	%	1	06/21/25 15:38	EPA 8000D		
			Matrix: So	il	Batch:	25F0722		
78.5		1.00	%	1	06/21/25 15:38	EPA 8000D		
			Matrix: So	il	Batch:	25F0722		
77.5		1.00	%	1	06/21/25 15:38	EPA 8000D		
			Matrix: So	il	Batch:	25F0722		
78.4		1.00	%	1	06/21/25 15:38	EPA 8000D		
			Matrix: So	il	Batch:	25F0722		
76.5		1.00	%	1	06/21/25 15:38	EPA 8000D		
	-	-	Matrix: So	il	Batch:	25F0722	_	
79.2		1.00	%	1	06/21/25 15:38	EPA 8000D		
	77.9  78.5  77.5  78.4	77.9  78.5  77.5  78.4	Result         Limit         Limit           77.9          1.00           78.5          1.00           77.5          1.00           78.4          1.00           76.5          1.00	Result   Limit   Limit   Units	Result         Limit         Units         Dilution           Matrix: Soil           77.9          1.00         %         1           Matrix: Soil           78.5          1.00         %         1           Matrix: Soil           77.5          1.00         %         1           Matrix: Soil           76.5          1.00         %         1           Matrix: Soil           Matrix: Soil	Result   Limit   Limit   Units   Dilution   Analyzed	Result         Limit         Units         Dilution         Analyzed         Method Ref.           Matrix: Soil         Batch: 25F0722           77.9          1.00         %         1         06/21/25 15:38         EPA 8000D           Matrix: Soil         Batch: 25F0722           77.5          1.00         %         1         06/21/25 15:38         EPA 8000D           Matrix: Soil         Batch: 25F0722           76.5          1.00         %         1         06/21/25 15:38         EPA 8000D           Matrix: Soil         Batch: 25F0722           76.5          1.00         %         1         06/21/25 15:38         EPA 8000D           Matrix: Soil         Batch: 25F0722           76.5          1.00         %         1         06/21/25 15:38         EPA 8000D <th col<="" td=""></th>	

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Philip Nevenberg

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### **Apex Laboratories, LLC**

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Petrocard-MLK3140 NE Broadway StreetProject Number:M0228.05.004Portland, OR 97232Project Manager:David Weatherby

Report ID: A5F1504 - 07 07 25 1513

### QUALITY CONTROL (QC) SAMPLE RESULTS

Analyte  Batch 25F0707 - EPA 3546 (Fue Blank (25F0707-BLK1)  NWTPH-Dx  Diesel Oil	Result  Pls)  ND  ND	Detection Limit	20.0	Units 1: 06/20/25 0	Dilution 06:32 Anal	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes						
Blank (25F0707-BLK1)  NWTPH-Dx  Diesel	ND		20.0	1: 06/20/25 0	6:32 Anal		Soi	i										
NWTPH-Dx Diesel			20.0	1: 06/20/25 0	6:32 Anal	Soil												
Diesel						yzed: 06/20	/25 20:03											
Oil	ND			mg/kg we	et 1													
			40.0	mg/kg we	et 1													
Surr: o-Terphenyl (Surr)		Reco	overy: 82 %	Limits: 50-	-150 %	Dilı	ution: 1x											
LCS (25F0707-BS1)			Prepared	l: 06/20/25 0	6:32 Anal	yzed: 06/20	/25 20:24											
NWTPH-Dx																		
Diesel	109		20.0	mg/kg we	et 1	125		87	38-132%									
Surr: o-Terphenyl (Surr)		Reco	overy: 88 %	Limits: 50-	-150 %	Dilt	ution: 1x											
Duplicate (25F0707-DUP1)			Prepared	1: 06/20/25 0	6:32 Anal	yzed: 06/20	/25 21:05											
QC Source Sample: Non-SDG (A5F	1439-01)																	
Diesel	ND		20.3	mg/kg dr	y 1		ND				30%							
Oil	ND		40.6	mg/kg dr	y 1		ND				30%							
Surr: o-Terphenyl (Surr)		Reco	overy: 86 %	Limits: 50-	-150 %	Dilı	ution: 1x											
Duplicate (25F0707-DUP2)			Prepared	1: 06/20/25 0	6:32 Anal	yzed: 06/21	/25 04:37											
OC Source Sample: Non-SDG (A5F	1505-05)																	
Diesel	ND		21.3	mg/kg dr	y 1		ND				30%							
Oil	ND		42.6	mg/kg dr			ND				30%							
Surr: o-Terphenyl (Surr)		Reco	overy: 85 %	Limits: 50-	-150 %	Dilı	ıtion: 1x											
Batch 25F0735 - EPA 3546 (Fue	els)						Soi	il										
Blank (25F0735-BLK1)			Prepared	1: 06/20/25 1	2:08 Anal	yzed: 06/20	/25 20:12											
NWTPH-Dx																		
Diesel	ND		20.0	mg/kg we	et 1													
Oil	ND		40.0	mg/kg we	et 1													
Mineral Oil	ND		40.0	mg/kg we	et 1													
Surr: o-Terphenyl (Surr)		Reco	overy: 99 %	Limits: 50-	-150 %	Dilı	ution: 1x											
LCS (25F0735-BS1)				1: 06/20/25 1	2.00 : :	1.00/60	/2.5.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2											

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NWTPH-Dx

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### **Apex Laboratories, LLC**

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Petrocard-MLK3140 NE Broadway StreetProject Number:M0228.05.004Portland, OR 97232Project Manager:David Weatherby

Report ID: A5F1504 - 07 07 25 1513

### QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx													
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 25F0735 - EPA 3546 (F	uels)						Soi	I					
LCS (25F0735-BS1)			Prepare	d: 06/20/25	12:08 Ana	lyzed: 06/20	0/25 20:33						
Diesel	127		20.0	mg/kg w	et 1	125		102	38-132%				
Surr: o-Terphenyl (Surr)		Reco	very: 106 %	Limits: 50	0-150 %	Dill	ution: 1x						
Duplicate (25F0735-DUP2)			Prepare	d: 06/20/25	12:08 Ana	lyzed: 06/21	/25 01:57						
QC Source Sample: Non-SDG (AS	5F1531-01)												
Diesel	ND		18.7	mg/kg d	ry 1		ND				30%		
Oil	ND		37.3	mg/kg d	ry 1		ND				30%		
Mineral Oil	ND		37.3	mg/kg d	ry 1		ND				30%		
Surr: o-Terphenyl (Surr)		Reco	overy: 91 %	Limits: 50	0-150 %	Dili	ution: 1x						
Duplicate (25F0735-DUP3)			Prepare	d: 06/20/25	12:08 Ana	lyzed: 06/23	3/25 10:40					PRO	
OC Source Sample: Non-SDG (AS	5F1362-02RI	E <u>1)</u>											
Diesel	ND		179	mg/kg d	ry 10		ND				30%		
Oil	2010		358	mg/kg d	ry 10		1990			1	30%		
Mineral Oil	ND		358	mg/kg d	ry 10		ND				30%		
Surr: o-Terphenyl (Surr)		Rece	overy: 99 %	Limits: 50	0-150 %	Dili	ution: 10x					S-05	

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ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project Number: Project Manager: David Weatherby

Report ID: A5F1504 - 07 07 25 1513

### QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolii	ne Range H	ydrocarbo	ons (Ben	zene throu	ıgh Naph	thalene)	by NWTP	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25F0719 - EPA 5035A							Soi	iI				
Blank (25F0719-BLK1)			Prepared	d: 06/20/25	11:00 Anal	yzed: 06/20	/25 13:47					
NWTPH-Gx (MS)												
Gasoline Range Organics	ND		5.00	mg/kg v	vet 50							
Surr: 4-Bromofluorobenzene (Sur)		Recove	ery: 102 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			101 %	50	0-150 %		"					
LCS (25F0719-BS2)			Prepared	d: 06/20/25	11:00 Anal	yzed: 06/20	/25 13:20					
NWTPH-Gx (MS)												
Gasoline Range Organics	27.3		5.00	mg/kg v	vet 50	25.0		109	80-120%			
Surr: 4-Bromofluorobenzene (Sur)		Recove	ery: 102 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			99 %	50	0-150 %		"					
Duplicate (25F0719-DUP1)			Prepared	d: 06/19/25	14:50 Anal	yzed: 06/20	/25 16:31					
QC Source Sample: Non-SDG (A5	5F1522-02)											
Gasoline Range Organics	324		6.52	mg/kg d	lry 50		328			1	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recove	ery: 131 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			103 %	50	0-150 %		"					
Duplicate (25F0719-DUP2)			Prepared	d: 06/19/25	16:47 Anal	yzed: 06/20	/25 23:49					V-1
QC Source Sample: VL-1-S-6 (A5	5F1504-05)											
NWTPH-Gx (MS)												
Gasoline Range Organics	21100		310	mg/kg d	lry 2000		20900			0.8	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recove	ery: 103 %	Limits: 5	0-150 %	Dilı	ution: 1x					_
1,4-Difluorobenzene (Sur)			100 %	50	0-150 %		"					

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### **Apex Laboratories, LLC**

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Petrocard-MLK3140 NE Broadway StreetProject Number:M0228.05.004Portland, OR 97232Project Manager:David Weatherby

Report ID: A5F1504 - 07 07 25 1513

### QUALITY CONTROL (QC) SAMPLE RESULTS

				N Compo	ao ay					· ·												
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes										
Batch 25F0719 - EPA 5035A							Soi	il														
Blank (25F0719-BLK1)			Prepared	d: 06/20/25 1	1:00 Ana	lyzed: 06/20	/25 13:47															
5035A/8260D																						
Benzene	ND		10.0	ug/kg we	t 50																	
Toluene	ND		50.0	ug/kg we	t 50																	
Ethylbenzene	ND		25.0	ug/kg we	t 50																	
Xylenes, total	ND		75.0	ug/kg we	t 50																	
Naphthalene	ND		100	ug/kg we	t 50																	
Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 94 %	Limits: 80-	-120 %	Dil	ution: 1x					_										
Toluene-d8 (Surr)			98 %	80-	120 %		"															
4-Bromofluorobenzene (Surr)			103 %	79-	120 %		"															
LCS (25F0719-BS1)			Prepared	d: 06/20/25 1	1:00 Ana	lyzed: 06/20	0/25 12:25															
5035A/8260D																						
Benzene	1020		10.0	ug/kg we	t 50	1000		102	80-120%													
Toluene	960		50.0	ug/kg we	t 50	1000		96	80-120%													
Ethylbenzene	1110		25.0	ug/kg we	t 50	1000		111	80-120%													
Xylenes, total	3230		75.0	ug/kg we	t 50	3000		108	80-120%													
Naphthalene	901		100	ug/kg we	t 50	1000		90	80-120%													
Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 94 %	Limits: 80-	-120 %	Dil	ution: 1x															
Toluene-d8 (Surr)			98 %	80-	120 %		"															
4-Bromofluorobenzene (Surr)			99 %	79-	120 %		"															
Duplicate (25F0719-DUP1)			Prepared	d: 06/19/25 1	4:50 Ana	lyzed: 06/20	0/25 16:31															
QC Source Sample: Non-SDG (A5	F1522-02)																					
Benzene	ND		13.0	ug/kg dry	y 50		11.7			***	30%											
Toluene	359		65.2	ug/kg dry	y 50		349			3	30%											
Ethylbenzene	535		32.6	ug/kg dry	y 50		516			4	30%											
Xylenes, total	13100		97.8	ug/kg dry	y 50		13100			0.4	30%											
Naphthalene	2040		130	ug/kg dry	y 50		1980			3	30%											
Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 95 %	Limits: 80-	-120 %	Dil	ution: 1x															
Toluene-d8 (Surr)			93 %	80-	120 %		"															
Totalene do (Barr)			105 %		120 %		"															

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Philip Nerenberg, Lab Director

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### **Apex Laboratories, LLC**

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Petrocard-MLK3140 NE Broadway StreetProject Number:M0228.05.004Portland, OR 97232Project Manager:David Weatherby

Report ID: A5F1504 - 07 07 25 1513

### QUALITY CONTROL (QC) SAMPLE RESULTS

			BTEX+	N Compo	unds by	EPA 8260	D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25F0719 - EPA 5035A							Soi	l				
Duplicate (25F0719-DUP2)			Prepared	1: 06/19/25 1	6:47 Ana	lyzed: 06/20	0/25 23:49					V-15
QC Source Sample: VL-1-S-6 (A5)	F1504-05)											
5035A/8260D												
Benzene	31600		621	ug/kg dr	y 2000		30700			3	30%	
Toluene	687000		3100	ug/kg dr	y 2000		671000			2	30%	I
Ethylbenzene	262000		1550	ug/kg dr	y 2000		257000			2	30%	
Xylenes, total	1430000		4650	ug/kg dr	y 2000		1400000			1	30%	
Naphthalene	63600		6210	ug/kg dr	y 2000		65900			4	30%	
Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 95 %	Limits: 80	-120 %	Dil	ution: 1x					
Toluene-d8 (Surr)			99 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			106 %	79-	120 %		"					
Matrix Spike (25F0719-MS1)			Prepared	1: 06/19/25 1	5:11 Ana	lyzed: 06/20	/25 19:15					
QC Source Sample: Non-SDG (A5)	F1505-05)											
5035A/8260D												
Benzene	1610		15.6	ug/kg dr	y 50	1570	ND	103	77-121%			
Toluene	1550		78.2	ug/kg dr	y 50	1570	ND	99	77-121%			
Ethylbenzene	1770		39.1	ug/kg dr	y 50	1570	ND	113	76-122%			
Xylenes, total	5270		117	ug/kg dr	y 50	4700	ND	112	78-124%			
Naphthalene	1340		156	ug/kg dr	y 50	1570	ND	86	62-129%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 92 %	Limits: 80	-120 %	Dil	ution: 1x					
Toluene-d8 (Surr)			96 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			98 %	79-	120 %		"					

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### **Apex Laboratories, LLC**

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Petrocard-MLK3140 NE Broadway StreetProject Number:M0228.05.004Portland, OR 97232Project Manager:David Weatherby

Report ID: A5F1504 - 07 07 25 1513

### QUALITY CONTROL (QC) SAMPLE RESULTS

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25F0767 - EPA 5035A							So	il				
Blank (25F0767-BLK1)			Prepared	d: 06/23/25 0	9:40 Ana	lyzed: 06/23	3/25 12:33					
5035A/8260D												
Benzene	ND		10.0	ug/kg we	t 50							
Toluene	ND		50.0	ug/kg we	t 50							
Ethylbenzene	ND		25.0	ug/kg we								
Xylenes, total	ND		75.0	ug/kg we	t 50							
Naphthalene	ND		100	ug/kg we	t 50							
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 94 %	Limits: 80-	-120 %	Dill	ution: 1x					
Toluene-d8 (Surr)			97 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			106 %	79-	120 %		"					
LCS (25F0767-BS1)			Prepared	d: 06/23/25 0	9:40 Ana	lyzed: 06/23	3/25 11:10					
5035A/8260D												
Benzene	1050		10.0	ug/kg we	t 50	1000		105	80-120%			
Toluene	1010		50.0	ug/kg we	t 50	1000		101	80-120%			
Ethylbenzene	1150		25.0	ug/kg we	t 50	1000		115	80-120%			
Xylenes, total	3460		75.0	ug/kg we	t 50	3000		115	80-120%			
Naphthalene	1010		100	ug/kg we	t 50	1000		101	80-120%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 95 %	Limits: 80-	-120 %	Dil	ution: 1x					_
Toluene-d8 (Surr)			98 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			101 %	79-	120 %		"					
Duplicate (25F0767-DUP1)			Prepared	d: 06/17/25 0	9:00 Ana	lyzed: 06/23	3/25 13:27					
QC Source Sample: Non-SDG (A5	F1451-02)											
Benzene	ND		37.7	ug/kg dry	y 100		ND				30%	
Toluene	ND		188	ug/kg dry	y 100		ND				30%	
Ethylbenzene	245		94.2	ug/kg dry	y 100		236			4	30%	
Xylenes, total	3780		283	ug/kg dry	y 100		3520			7	30%	
Naphthalene	ND		1770	ug/kg dry	y 100		ND				30%	R-
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 99 %	Limits: 80-	-120 %	Dil	ution: 1x					
Toluene-d8 (Surr)			97 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			106 %	70_	120 %		"					

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Philip Nerenberg, Lab Director

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### **Apex Laboratories, LLC**

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project: Petrocard-MLK
Project Number: M0228.05.004
Project Manager: David Weatherby

Report ID: A5F1504 - 07 07 25 1513

### QUALITY CONTROL (QC) SAMPLE RESULTS

			BTEX+	N Compo	unds by	EPA 8260	D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25F0767 - EPA 5035A							Soi	ı				
Ouplicate (25F0767-DUP2)			Prepared	: 06/19/25	10:45 Ana	lyzed: 06/23	/25 18:28					
QC Source Sample: Non-SDG (A5	F1533-04)											
Benzene	3580		16.2	ug/kg dr	y 50		3640			2	30%	
Toluene	13200		80.9	ug/kg dr	y 50		13100			0.3	30%	
Ethylbenzene	505		40.4	ug/kg dr	y 50		502			0.6	30%	
Xylenes, total	4080		121	ug/kg dr	y 50		4060			0.5	30%	
Naphthalene	ND		162	ug/kg dr	y 50		ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 91 %	Limits: 80	-120 %	Dilı	tion: 1x					
Toluene-d8 (Surr)			97 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			113 %	79	-120 %		"					
Matrix Spike (25F0767-MS1)			Prepared	: 06/19/25	18:21 Ana	lyzed: 06/23	/25 22:07					
QC Source Sample: Non-SDG (A5	F1533-10)											
5035A/8260D												
Benzene	1220		11.9	ug/kg dr	y 50	1190	ND	102	77-121%			
Toluene	1150		59.6	ug/kg dr	y 50	1190	ND	97	77-121%			
Ethylbenzene	1300		29.8	ug/kg dr	y 50	1190	ND	109	76-122%			
Xylenes, total	3940		89.3	ug/kg dr	y 50	3570	54.8	109	78-124%			
Naphthalene	1050		119	ug/kg dr	y 50	1190	ND	89	62-129%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 94 %	Limits: 80	-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			95 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			100 %	79	-120 %		"					

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### **Apex Laboratories, LLC**

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project: Petrocard-MLK
Project Number: M0228.05.004
Project Manager: David Weatherby

Report ID: A5F1504 - 07 07 25 1513

### QUALITY CONTROL (QC) SAMPLE RESULTS

			TCLP N	letals by	EPA 602	0B (ICPM	S)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25F0810 - EPA 1311/301	5A						Soi	il				
Blank (25F0810-BLK1)			Prepared	: 06/24/25	07:35 Ana	lyzed: 06/24	/25 10:57					
1311/6020B Lead	ND		0.0500	mg/L	10							TCL
LCS (25F0810-BS1)			Prepared	: 06/24/25	07:35 Ana	lyzed: 06/24	1/25 11:02					
1311/6020B												
Lead	5.14		0.0500	mg/L	10	5.00		103	80-120%			TCL
Duplicate (25F0810-DUP1)			Prepared	: 06/24/25	07:35 Ana	lyzed: 06/24	1/25 11:13					
QC Source Sample: SP1-Comp-S	(A5F1504-0	1)										
<u>1311/6020B</u> Lead	ND		0.0500	mg/L	10		ND				20%	
Matrix Spike (25F0810-MS1)			Prepared	: 06/24/25	07:35 Ana	lyzed: 06/24	1/25 11:19					
OC Source Sample: SP1-Comp-S 1311/6020B	(A5F1504-0	1)										
Lead	5.28		0.0500	mg/L	10	5.00	ND	106	50-150%			

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project: Petrocard-MLK
Project Number: M0228.05.004
Project Manager: David Weatherby

Report ID: A5F1504 - 07 07 25 1513

### QUALITY CONTROL (QC) SAMPLE RESULTS

				Percen	t Dry Wei	ght						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25F0722 - Dry Weight P	rep (EPA	8000D)					Soil					
Duplicate (25F0722-DUP1)			Prepared	: 06/20/25	10:03 Anal	lyzed: 06/21	/25 15:38					
QC Source Sample: Non-SDG (A5	F1505-01)											
% Solids	81.7		1.00	%	1		81.3			0.5	10%	
Duplicate (25F0722-DUP2)			Prepared	: 06/20/25	10:03 Anal	lyzed: 06/21	/25 15:38					CONT
QC Source Sample: Non-SDG (A5	F1495-01)											
% Solids	84.5		1.00	%	1		84.2			0.3	10%	
Duplicate (25F0722-DUP3)			Prepared	: 06/20/25	13:57 Anal	lyzed: 06/21	/25 15:38					
QC Source Sample: Non-SDG (A5	F1522-01)											
% Solids	78.2		1.00	%	1		78.5			0.4	10%	
Duplicate (25F0722-DUP4)			Prepared	: 06/20/25	14:00 Anal	lyzed: 06/21	/25 15:38					
QC Source Sample: Non-SDG (A5	F1528-15)											
% Solids	75.4		1.00	%	1		75.7			0.5	10%	
Duplicate (25F0722-DUP5)			Prepared	: 06/20/25	19:03 Anal	lyzed: 06/21	/25 15:38					
QC Source Sample: Non-SDG (A5	F1559-02)											
% Solids	91.3		1.00	%	1		90.9			0.4	10%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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Philip Nerenberg, Lab Director

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### **Apex Laboratories, LLC**

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project: Petrocard-MLK
Project Number: M0228.05.004
Project Manager: David Weatherby

Report ID: A5F1504 - 07 07 25 1513

### SAMPLE PREPARATION INFORMATION

		Diesel an	d/or Oil Hydrocarbor	s by NWTPH-Dx			
Prep: EPA 3546 (Fue	els)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 25F0707							
A5F1504-01RE1	Soil	NWTPH-Dx	06/19/25 12:00	06/20/25 06:32	11.35g/5mL	10g/5mL	0.88
Batch: 25F0735							
A5F1504-02	Soil	NWTPH-Dx	06/19/25 09:00	06/20/25 12:08	11.83g/5mL	10g/5mL	0.85
A5F1504-03RE1	Soil	NWTPH-Dx	06/19/25 10:05	06/20/25 12:08	11.78g/5mL	10g/5mL	0.85
A5F1504-04	Soil	NWTPH-Dx	06/19/25 08:50	06/20/25 12:08	11.73g/5mL	10g/5mL	0.85
A5F1504-05	Soil	NWTPH-Dx	06/19/25 11:42	06/20/25 12:08	11.7g/5mL	10g/5mL	0.86
A5F1504-06RE1	Soil	NWTPH-Dx	06/19/25 11:30	06/20/25 12:08	11.6g/5mL	10g/5mL	0.86

	Gas	soline Range Hydrocart	oons (Benzene thro	ugh Naphthalene) b	y NWTPH-Gx		
Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 25F0719							
A5F1504-01	Soil	NWTPH-Gx (MS)	06/19/25 12:00	06/19/25 12:00	45.17g/25mL	5g/5mL	0.55
A5F1504-02	Soil	NWTPH-Gx (MS)	06/19/25 09:00	06/19/25 16:47	5.24g/5mL	5g/5mL	0.95
A5F1504-03	Soil	NWTPH-Gx (MS)	06/19/25 10:05	06/19/25 16:47	5.14g/5mL	5g/5mL	0.97
A5F1504-04	Soil	NWTPH-Gx (MS)	06/19/25 08:50	06/19/25 16:47	5.13g/5mL	5g/5mL	0.98
A5F1504-05	Soil	NWTPH-Gx (MS)	06/19/25 11:42	06/19/25 16:47	5.26g/5mL	5g/5mL	0.95
A5F1504-06	Soil	NWTPH-Gx (MS)	06/19/25 11:30	06/19/25 16:47	5.06g/5mL	5g/5mL	0.99

		ВТЕ	X+N Compounds by	EPA 8260D			
Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 25F0719							
A5F1504-01	Soil	5035A/8260D	06/19/25 12:00	06/19/25 12:00	45.17g/25mL	5g/5mL	0.55
A5F1504-02	Soil	5035A/8260D	06/19/25 09:00	06/19/25 16:47	5.24g/5mL	5g/5mL	0.95
A5F1504-03	Soil	5035A/8260D	06/19/25 10:05	06/19/25 16:47	5.14g/5mL	5g/5mL	0.97
A5F1504-04	Soil	5035A/8260D	06/19/25 08:50	06/19/25 16:47	5.13g/5mL	5g/5mL	0.98
A5F1504-05	Soil	5035A/8260D	06/19/25 11:42	06/19/25 16:47	5.26g/5mL	5g/5mL	0.95
A5F1504-06	Soil	5035A/8260D	06/19/25 11:30	06/19/25 16:47	5.06g/5mL	5g/5mL	0.99
Batch: 25F0767							
A5F1504-05RE1	Soil	5035A/8260D	06/19/25 11:42	06/19/25 16:47	5.26g/5mL	5g/5mL	0.95

# TCLP Metals by EPA 6020B (ICPMS)

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### **Apex Laboratories, LLC**

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project: Petrocard-MLK
Project Number: M0228.05.004
Project Manager: David Weatherby

Report ID: A5F1504 - 07 07 25 1513

### SAMPLE PREPARATION INFORMATION

		TCL	P Metals by EPA 602	OB (ICPMS)			
Prep: EPA 1311/301	<u>5A</u>				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 25F0810							
A5F1504-01	Soil	1311/6020B	06/19/25 12:00	06/24/25 07:35	10 mL / 50 mL	10 mL / 50 mL	1.00

			Percent Dry We	ight			
Prep: Dry Weight Pr	ep (EPA 8000D)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 25F0722							
A5F1504-01	Soil	EPA 8000D	06/19/25 12:00	06/20/25 10:03	1g	1g	1.00
A5F1504-02	Soil	EPA 8000D	06/19/25 09:00	06/20/25 14:00	1g	1g	1.00
A5F1504-03	Soil	EPA 8000D	06/19/25 10:05	06/20/25 14:00	1g	1g	1.00
A5F1504-04	Soil	EPA 8000D	06/19/25 08:50	06/20/25 14:00	1g	1g	1.00
A5F1504-05	Soil	EPA 8000D	06/19/25 11:42	06/20/25 14:00	1g	1g	1.00
A5F1504-06	Soil	EPA 8000D	06/19/25 11:30	06/20/25 14:00	1g	1g	1.00

			TCLP Extraction by E	PA 1311			
Prep: EPA 1311 (To	CLP)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 25F0798							
A5F1504-01	Soil	EPA 1311	06/19/25 12:00	06/23/25 14:28	99.9g/1998g	100g/2000g	NA

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### Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Petrocard-MLK3140 NE Broadway StreetProject Number:M0228.05.004Portland, OR 97232Project Manager:David Weatherby

<u>Report ID:</u> A5F1504 - 07 07 25 1513

#### **QUALIFIER DEFINITIONS**

### Client Sample and Quality Control (QC) Sample Qualifier Definitions:

#### **Apex Laboratories**

**CONT** The Sample Container provided for this analysis was not provided by Apex Laboratories, and has not been verified as part of the Apex Quality System.

E Estimated Value. The result is above the calibration range of the instrument.

F-11 The hydrocarbon pattern indicates possible weathered diesel, mineral oil, or a contribution from a related component.

F-18 Result for Diesel (Diesel Range Organics, C12-C25) is due to overlap from Gasoline or a Gasoline Range product.

**PRO** Sample has undergone sample processing prior to extraction and analysis.

R-02 The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.

S-05 Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.

TCLP This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 25F0798.

V-15 Sample aliquot was subsampled from the sample container in the laboratory. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.

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### Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Petrocard-MLK3140 NE Broadway StreetProject Number:M0228.05.004Portland, OR 97232Project Manager:David Weatherby

Report ID: A5F1504 - 07 07 25 1513

#### REPORTING NOTES AND CONVENTIONS:

#### **Abbreviations:**

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

#### **Detection Limits:** Limit of Detection (LOD)

Validated Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).

If no value is listed ('----'), then the data has not been evaluated below the Reporting Limit.

#### Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

#### Reporting and Detection Limits: Default Limits

Default Reporting and Detection Limits are based on 100% dry weight with the minimum dilution for the analysis. Reporting and Detection Limits are raised due to moisture content, additional dilutions required for analysis, matrix interferences and in other cases, as necessary.

#### **Reporting Conventions:**

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")

See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

"___" Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

Results for Volatiles analyses on soils and sediments that are reported on a "dry weight" basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an "As Received" basis do not have the WMS correction applied, as dry weight was not performed.

### **QC Source:**

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

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

### **Miscellaneous Notes:**

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

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

Apex Laboratories

Philip Newberg

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Philip Nerenberg, Lab Director

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### Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Petrocard-MLK3140 NE Broadway StreetProject Number:M0228.05.004Portland, OR 97232Project Manager:David Weatherby

Report ID: A5F1504 - 07 07 25 1513

### **REPORTING NOTES AND CONVENTIONS (Cont.):**

#### Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to one half of the Reporting Limit (RL).

- Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.
- -For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
- -For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy. For further details, please request a copy of this document.
- -Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.
- 'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

#### **Preparation Notes:**

#### Mixed Matrix Samples:

### Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

#### Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

#### **Sampling and Preservation Notes:**

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

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Philip Nerenberg, Lab Director

Philip Nevenberg

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### Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Petrocard-MLK3140 NE Broadway StreetProject Number:M0228.05.004Portland, OR 97232Project Manager:David Weatherby

Report ID: A5F1504 - 07 07 25 1513

#### **Decanted Samples:**

#### Soils/Sediments:

Unless TCLP analysis is required or there is notification otherwise for a specific project, all Soil and Sediments containing excess water are decanted prior to analysis in order to provide the most representative sample for analysis.

#### Water Samples

Water samples containing solids and sediment may need to be decanted in order to eliminate these particulates from the water extractions. In the case of organics extractions, a solvent rinse of the container will not be performed.

#### Volatiles Soils (5035s)

Samples that are field preserved by 5035 for volatiles are dry weight corrected using the same dry weight corretion as for normal analyses. In the case of decanted samples, the dry weight may be performed on a decanted sample, while the aliquot for 5035 may not have been treated the same way. If this is a concern, please submit separate containers for dry weight analysis for volatiles can be provided.

All samples decanted in the laboratory are noted in this report with the DCNT qualifier indicating the sample was decanted.

Apex Laboratories

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Philip Nerenberg, Lab Director

Philip Nevenberg

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### Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Petrocard-MLK3140 NE Broadway StreetProject Number:M0228.05.004Portland, OR 97232Project Manager:David Weatherby

<u>Report ID:</u> A5F1504 - 07 07 25 1513

#### LABORATORY ACCREDITATION INFORMATION

# ORELAP Certification ID: OR100062 (Primary Accreditation) -EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the <u>exception</u> of any analyte(s) listed below:

### **Apex Laboratories**

Matrix Analysis TNI_ID Analyte TNI_ID Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

### **Secondary Accreditations**

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

#### **Subcontract Laboratory Accreditations**

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

### **Field Testing Parameters**

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Philip Menberg

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Philip Nerenberg, Lab Director

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### **Apex Laboratories, LLC**

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project: Petrocard-MLK
Project Number: M0228.05.004
Project Manager: David Weatherby

Report ID: A5F1504 - 07 07 25 1513

6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323	1777 Phr: 505-71	8-2523																							
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Apex Laboratories

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Philip Nerenberg, Lab Director

Philip Nevenberg

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### **Apex Laboratories, LLC**

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Project Manager: David Weatherby

Report ID: A5F1504 - 07 07 25 1513

	APEX LABS COOLER RECEIPT FORM
Client: _	Maul Foster Alons; Element WO#: AS F 1504
Project/Pr	roject#: PetroCard MLK MOZZ8.05,004
	received: U/9/25@ 1550 By: J5  by: Apex_Client_ESS_FedEx_UPS_Radio_Morgan_SDS_Evergreen_Other
From USD	A Regulated Origin? Yes No
Cooler Ins	ustody included? Yes No
Signed/date	ed by client? Yes No
Contains U	SDA Reg. Soils? Yes No Unsure (email RegSoils)
Temperatur Custody se	
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Temp. blan	ks? (Y/N)
Ice type: (C	Gel/Real/Other) Yea
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Apex Laboratories

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Philip Maenberg

# **Data Validation Memorandum**

Project No. M0228.05.004 | July 15, 2025 | PetroCard, Inc.

Maul Foster & Alongi, Inc. (MFA), conducted an independent Stage 2A review of the quality of analytical results for soil samples collected on June 19, 2025, at 8100 NE Martin Luther King Jr, Boulevard, Portland, Oregon.

Apex Laboratories, LLC (Apex), performed the analyses. MFA reviewed Apex report number A5F1504. The analyses performed and the samples analyzed are listed in the following tables. Not all analyses were performed on all samples.

Analysis	Reference
Diesel- and oil-range hydrocarbons	NWTPH-Dx
Gasoline-range hydrocarbons	NWTPH-Gx
Percent dry weight	EPA 8000D
TCLP lead	EPA 1311/6020B
Volatile organic compounds	EPA 8260D

#### **Notes**

EPA = U.S. Environmental Protection Agency.

NWTPH = Northwest Total Petroleum Hydrocarbons.

TCLP = toxicity characteristic leaching procedure.

Samples Analyzed						
Report A5F1504						
SP1-Comp-S	Pipe1-1-S					
T1EB-S-6	VL-1-S-6					
T1WB-S-6	T1MB-1-S-11					

### **Data Validation Procedures**

Analytical results were evaluated according to applicable sections of U.S. Environmental Protection Agency (EPA) guidelines for data review (EPA 2020a, 2020b) and appropriate laboratory- and method-specific guidelines (Apex 2023, EPA 1986).

Data validation procedures were modified, as appropriate, to accommodate quality control requirements for methods that EPA data review guidelines do not specifically address (e.g., Northwest Total Petroleum Hydrocarbons [NWTPH]-Dx).

EPA Method 8000D percent dry-weight results reported by the laboratory for dry-weight correction were reviewed for completeness but were not included in Stage 2A data validation.

Based on the data quality assurance/quality control review described herein, the data, with the appropriate final data qualifiers assigned, are considered acceptable for their intended use. Final data qualifiers represent qualifiers originating from the laboratory and accepted by the reviewer, and data qualifiers assigned by the reviewer during validation.

Final data qualifiers:

- J+ = result is estimated, but the result may be biased high.
- U = result is non-detect at the method reporting limit (MRL).

# **General Qualifications**

According to report A5F1504, NWTPH-Dx diesel-range hydrocarbons result for sample Pipe1-1-S as flagged by the laboratory due to a chromatographic pattern indicating possible weathered diesel, mineral oil, or a contribution from a related component. Results were reported as diesel-range hydrocarbons instead of specific fuel products; thus, qualification was not required.

According to report A5F1504, NWTPH-Dx diesel-range hydrocarbons result for sample VL-1-S-6 was flagged by the laboratory due to overlap from gasoline-range hydrocarbons. The reviewer qualified associated sample results with J+, as shown in the following table.

Report	Sample	Analyte	Original Result (mg/kg)	Qualified Result (mg/kg)
A5F1504	VL-1-S-6	Diesel-range hydrocarbons	459	459 J+

#### Notes

J+ = result is estimated, but the result may be biased high. mg/kg = milligrams per kilogram.

# **Sample Conditions**

# **Sample Custody**

Sample custody was appropriately documented on the chain-of-custody form accompanying the report.

# **Holding Times**

Extractions and analyses were performed within the recommended holding times.

### **Preservation and Sample Storage**

According to report A5F1504, the NWTPH-Gx and EPA Method 8260D fractions of all samples were prepared in the laboratory from subsampled aliquots taken from the original sample. Apex noted that the aliquots were subsampled and preserved in the laboratory within 48 hours of sampling; thus, qualification by the reviewer was not required.

The samples were preserved and stored appropriately.

# Reporting Limits

The laboratory evaluated results to MRLs. Samples that required dilutions because of high analyte concentrations, matrix interferences, and/or dilutions necessary for preparation and/or analysis were reported with raised MRLs.

Apex noted that the sample Pipe1-1-S EPA Method 8260D naphthalene MRL was raised to account for interference from coeluting organic compounds present in the sample. Qualification by the reviewer was not required.

### **Blank Results**

### **Method Blanks**

Laboratory method blanks are used to evaluate whether laboratory contamination was introduced during sample preparation and analysis. Laboratory method blank analyses were performed at the required frequencies, in accordance with laboratory- and method-specific requirements.

All laboratory method blank results were non-detect to MRLs.

### **Equipment Rinsate Blanks**

Equipment rinsate blanks are used to evaluate the adequacy of the field equipment decontamination process when decontaminated sampling equipment is used to collect samples.

These blanks were not required for this sampling event, as all samples were collected using dedicated or single-use equipment.

# **Trip Blanks**

Trip blanks are used to evaluate whether volatile organic compound contamination was introduced during shipping and field handling procedures.

No trip blank samples were submitted for analysis. The reviewer was unable to evaluate field samples for possible volatile organic compound contamination.

# Laboratory Control Sample and Laboratory Control Sample Duplicate Results

Laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) results are used to evaluate laboratory precision and accuracy. No LCSD were reported; all LCS were prepared and analyzed at the required frequency, in accordance with laboratory- and method-specific requirements.

All LCS results were within acceptance limits for percent recovery.

# **Laboratory Duplicate Results**

Laboratory duplicate results are used to evaluate laboratory precision and sample homogeneity. All laboratory duplicate samples were prepared and analyzed at the required frequency, in accordance with laboratory- and method-specific requirements.

Laboratory duplicate results greater than five times the MRL were evaluated using laboratory relative percent difference control limits. A secondary criterion was used when laboratory duplicate results were non-detect or less than five times the MRL. Results meet the secondary criterion if the absolute difference of the laboratory duplicate sample result and the parent sample result, or the MRL for non-detects, is equal to or less than the MRL value of the parent sample.

All laboratory duplicate results met the acceptance criteria.

# Matrix Spike and Matrix Spike Duplicate Results

Matrix spike (MS) and matrix spike duplicate (MSD) results are used to evaluate laboratory precision, accuracy, and the effect of the sample matrix on sample preparation and target analyte recovery. No MSD results were reported; all MS samples were prepared and analyzed at the required frequency, in accordance with laboratory- and method-specific requirements.

All MS results were within acceptance limits for percent recovery.

# **Surrogate Results**

Surrogate results are used to evaluate laboratory performance of target organic compounds for individual samples.

All surrogate results were within percent recovery acceptance limits.

# **Field Duplicate Results**

Field duplicate results are used to evaluate field precision and sample homogeneity. No field duplicate samples were submitted for analysis.

# **Data Package**

The data package was reviewed for transcription errors, omissions, and anomalies.

The reviewer confirmed that the MFA project manager had the laboratory update the sample names after sample receipt to meet project needs. The "I" as written on the chain-of-custody form for samples T1EB-S-6, T1WB-S-6, and T1MB-1-S-11 was updated to a "1."

No other issues were found.

### References

Apex. 2023. Quality Systems Manual. Rev. 11. Apex Laboratories, LLC: Tigard, OR. June 20.

- EPA. 1986. Test Methods for Evaluating Solid Waste, Physical/Chemical Methods. EPA publication SW-846. 3rd ed. U.S. Environmental Protection Agency. Final updates I (1993), II (1995), IIA (1994), IIB (1995), III (1997), IIIA (1999), IIIB (2005), IV (2008), V (2015), VI phase I (2017), VI phase II (2018), VI phase II (2019), VII phase I (2019), and VII phase II (2020).
- EPA. 2020a. *National Functional Guidelines for Inorganic Superfund Methods Data Review.* EPA 542-R-20-006. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation: Washington, DC. November.
- EPA. 2020b. *National Functional Guidelines for Organic Superfund Methods Data Review.* EPA 540-R-20-005. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation: Washington, DC. November.

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# **Attachment H**

**UST System Testing Records** 



Gas Brand: Unbranded

Status: Software Only

Location: 9 8100 N.E. MLK Jr. Blvd., Portland, OR 97211

Facility Groups: Region OR - State, Region OR - Portland, ATG - Veeder-Root,

State ID: PP T6

Internal ID: 0106

<Global> Site Notes: -

# UST Registered: 5

ATG: -

Last Poll: 9/16/2025 11:06 AM

66 min ago

County: Multnomah County

Phone:

# **ATG Tank Test**

Month/Year September 2025 ✔

# ATG Monthly Results from October 2024 to September 2025

Tank #	Tank Cert #	Capacity	Contents	Release Detection Methods	Result Type	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1 - BIODIESEL B5 (JEAC)	10,310	Diesel Renewable (R99)	ATG Tank Test	ATG	Р	Р	Р	Р	P	Р	Р	Р	Р	P	Р	Р
3	3 - UNLEADED FRT (JEAE)	3,007	Unleaded (E10)	ATG Tank Test	ATG	Р	Р	Р	Р	P	Р	Р	Р	Р	Р	Р	Р
4	4 - UNLEADED FRT (JEAF)	3,007	Unleaded (E10)	ATG Tank Test	ATG	Р	Р	Р	Р	P	Р	Р	Р	Р	P	Р	Р
5	5 - PREMIUM (JEAD)	3,007	Unleaded Premium (E10)	ATG Tank Test	ATG	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
6	6 - UNLEADED REAR (JEAH)	10,310	Unleaded (E10)	ATG Tank Test	ATG	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р

P-Pass, F-Fail, I-Inconclusive, Q-In Queue, R-Received, (-)-No Result Available

- Undate ATG/CSLD Information