



**ENVIRONMENTAL SITE
CLEANUP REPORT**

Property Identification:

**16590 SE 114TH AVENUE
CLACKAMAS, OREGON 97015**

Prepared For:

CLACKAMAS COUNTY HOUSING AND COMMUNITY DEVELOPMENT

&

OREGON DEQ

Prepared By:

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Date Issued: February 6, 2024
Alpha Project Number: 23-52876

TABLE OF CONTENTS

1.0	INTRODUCTION	1
1.1	Site Description	1
1.2	Current and Future Land Use	1
1.3	Site Drainage	1
1.4	Sewer Connections	1
1.5	Geology and Groundwater	1
2.0	SITE OVERVIEW	2
2.1	Site Work.....	2
2.2	Site History	2
2.3	Heavy Metals Evaluation	2
3.0	PURPOSE AND SCOPE	4
3.1	Purpose	4
3.2	Accepted Scope of Services	4
4.0	QUALITY ASSURANCE & QUALITY CONTROL	5
4.1	Field Equipment & Decontamination.....	5
4.3	Sample Collection	5
4.4	Sample Identification.....	5
4.5	Sample Transport.....	5
5.0	SAMPLE ANALYTICAL RESULTS	6
5.1	Sample Results Evaluation	6
5.2	Initial Laboratory Results	7
6.0	FINDINGS, CONCLUSIONS, Risk Evaluation AND RECOMMENDATIONS	12
7.0	LIMITATIONS & USE RELIANCE	13
7.1	Limitations and Exceptions	13
7.2	Use Reliance	13
8.0	SIGNATURES OF ENVIROMENTAL PROFESSIONALS	14
9.0	REFERENCES	15
10.0	ACRONYMS	16

TABLES

Table 1: Previous Soil Sample Analytical Results –Metals 3
Table 2: Soil Sample Analytical Results –PCBs 7
Table 3: Soil Sample Analytical Results – TCLP Metals..... 7
Table 4: Final Soil Sample Analytical Results for Area 1 – Petroleum 8
Table 5: Final Soil Sample Analytical Results for Area 2 – Petroleum 9
Table 6: Final Soil Sample Analytical Results –PCBs 10
Table 7: Final Soil Sample Analytical Results –PAHs..... 11

FIGURES

- Figure 1:** Site Vicinity Map
- Figure 2:** Topographic Map
- Figure 3:** Site Sampling Map

APPENDICES

- Appendix A:** Site Photographs
- Appendix B:** Analytical Laboratory Reports
- Appendix C:** Receipts
- Appendix D:** Kleinfelder Map and Soil Concentrations 2010

1.0 INTRODUCTION

Alpha Environmental Services (Alpha) has conducted site cleanup for the property located at 16590 SE 114th Avenue, Clackamas, Oregon (the Property). The work was conducted for Clackamas County Housing & Community Development (CCHCD). The purpose of the remediation was to remove environmental impacts from previous site uses. This report summarizes the current scope of work, field investigation activities, cleanup activities, laboratory analyses, and provides conclusions and recommendations.

1.1 Site Description

The Property is identified as 16590 SE 114th Avenue, Clackamas, Clackamas County, Oregon. The Property identification number is 22E15A 01200 located in Township 2 South, Range 2 East, Section 15, Willamette Meridian. The Property and vicinity are depicted in Figures 1 and 2. The Property consists of one parcel with a total of 3.85 acres.

The northern part of the Property is relatively flat and is scheduled to be developed into temporary veteran housing. The southern part of the property is sloped and will remain vacant land.

The vicinity of the Property can generally be described as industrial/commercial. Current usage of the adjoining properties includes: north – Pacific Trust and Lumber; south – industrial development; east – industrial development; and west – Clackamas County Veterans Village.

1.2 Current and Future Land Use

The zoning is GI – General Industrial. Currently the property is vacant. The future use of the northern part of the property is anticipated to be used for temporary veteran housing. The southern part is anticipated to remain vacant.

1.3 Site Drainage

Stormwater is expected to naturally infiltrate into the ground.

1.4 Sewer Connections

A sanitary sewer connection is available on SE 114th Avenue.

1.5 Geology and Groundwater

The Property is situated within the Willamette Valley, which is a portion of the Puget Trough physiographic sub province of the Pacific Mountain System geological province of the State of Oregon. This area consists of fluviolacustrine sedimentary deposits. Underlying the area is unconsolidated silt, sand, gravel and clay. Generally, this specific area consists of fine-grained material, but gravel layers may also be found there to some extent. (Walker, et al., 1991).

According to the Water Resources Department (WRD) online database, static groundwater appears to be located approximately 15 to 35 feet below surface grade (bsg). The flow of groundwater typically imitates the surface topography and ordinarily flows from higher to lower elevations. The near surface flow may be influenced by stratigraphy, water bodies, rainfall, underground utilities and other subsurface features. Based on the general topography of the Property and vicinity, groundwater is anticipated to flow to the south.

A minor tributary, Lithgow Creek, is located along the southern border of the Property. The creek appears to begin approximately 500-600 feet to the northeast and discharge to the Clackamas River located approximately 0.21 miles south of the Property.

2.0 SITE OVERVIEW

2.1 Site Work

Phase I Environmental Site Assessment (ESA) was conducted by Alpha for the Property in April 2023. The following is a summary of the applicable findings.

The Clackamas Industrial Area Phase II is the subject Property itself (ECSI 6107). Initially the entirety of tax lots 1200, 1500 and 1700 were included within ECSI 5771; however, in approximately 2014 Clackamas County decided to focus cleanup efforts on the certification area covered in ECSI 5771. Accordingly, it appears the subject Property was not covered in the remediation discussed above in ECSI 5771. Groundwater in the northern section of tax lots 1500 and 1700 (western adjacent sites) have been affected by the neighboring Surgichrome site ECSI 1526 chromium-contaminated groundwater plume.

Surficial soils in tax lot 1200 (DB Trucking, the subject Property) contain elevated TPH concentrations. A Contaminated Media Management Plan prepared for ECSI #5771 is applicable to these tax lots.

No further information is available in the Oregon DEQ's online database. Due to the report of surface soil contamination by TPH, this presents a recognized environmental condition (REC) to the Property.

2.2 Site History

Based on information contained in the August 9, 2013, Contaminated Media Management Plan (CMMP) completed by Kleinfelder, the area in question was a former tractor-trailer maintenance area. The area impacted with petroleum is approximately 40' x 70' and was excavated to a depth of around 1.0 feet, estimated to be approximately 105 tons.

Based on communication with Mark Pugh, the question was raised about the undocumented fill placed in several areas around the Property. On October 10, 2023, Alpha used a mini excavator to explore these areas. A total of 13 test pits were completed ranging in depths from four to eight feet below surface grade. In general, sand, sandy gravel, and cobbles were encountered in the test pits. No evidence was observed of petroleum contamination, metal or trash in the test areas. Based on this, Alpha concludes additional investigation in these areas is not warranted.

A second maintenance area (Hobby Area) appears to have previously existed on the Property, east of the tractor-trailer maintenance area. Based on historic Google Earth images, the area in question appears to be approximately 40' x 40'. Assuming a depth of 1.0 foot of impacts, the area was excavated and estimated to be approximately 60 tons.

2.3 Heavy Metals Evaluation

Soil samples were collected and tested for RCRA metals as part of the Kleinfelder Phase II ESA from 2010.

To evaluate potential risk from heavy metals in the soil, the detected concentrations were compared to the DEQ "Regional Default Background Concentrations for Metals in Soil" dated January 2018. According to the DEQ guidance, if the maximum level detected is less than the background default value, then the metal is not a chemical of potential concern or a potential ecological concern. It should be noted that background levels may exceed the corresponding RBCs. Based on the map provided in the background metals report, the Property is within the Portland Region.

The laboratory results for all samples are below the default background concentrations or the RBCs for a residential receptor. The results are summarized below.

Table 1 - Previous Soil Sample Analytical Results - Metals

Sample No.	Location of Sample	Sample Depth in Feet	RCRA Metals							
			Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
			mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
SS-NP-1	Tractor Trailer Maintenance Area	0.5	1.56	161	ND<1.18	9.74	15.0	ND<0.0945	ND<2.36	ND<1.18
SS-NP-2	Tractor Trailer Maintenance Area	0.5	1.26	69.4	ND<1.13	11.5	33.8	ND<0.0901	ND<2.25	ND<1.13
SS-NP-3	Tractor Trailer Maintenance Area	0.5	1.85	86.7	31.4	12.8	20.6	ND<0.0985	ND<2.46	ND<1.23
SS-NP-4	Tractor Trailer Maintenance Area	0.5	1.57	84.7	ND	9.9	15.9	ND<0.0873	ND<2.18	ND<1.09
SS-NP-5	Hobby Maintenance Area	0.5	ND<2.16	66.7	ND<1.08	9.81	23.9	ND<0.0865	ND<2.16	ND<1.08
SS-NP=6	Hobby Maintenance Area	0.5	2.81	80.9	1.79	14.9	22.8	ND<0.0874	ND<2.18	ND<1.09
SS-NP-7	Hobby Maintenance Area	0.5	ND<2.32	119	ND<1.16	4.84	9.14	ND<0.0929	ND<2.32	ND<1.16
DEQ Background Concentrations and Risk-Based Concentrations										
Background Concentrations			8.8	790	0.63	76	79	0.23	0.71	0.82
Dermal Contact (Residential)			0.43	15,000	78	120,000	400	23	NE	390

ND = Analyte Not Detected at or above laboratory reporting limit. All reporting limits are below the RBCs.
 mg/kg = milligram per kilogram or parts per million (ppm)
 NE = RBC not established for this metal.

3.0 PURPOSE AND SCOPE

3.1 Purpose

The purpose of the remediation was to remove all material (gravel/soil) from the impacted areas with contaminant levels above DEQ risk levels. Alpha relied upon the previous reports and onsite observations to develop the scope of work for this investigation. The general scope of work for this investigation consisted of the following activities:

- Contacting One Call Oregon for public locates to mark utility services entering the Property.
- The removal of soils from the impacted areas using a track-mounted mini-excavator.
- The disposal of impacted material at Hillsboro Landfill.
- The collection of soil samples to confirm completeness of remediation.
- The backfilling of the excavations.
- The submittal of soil sample for laboratory analysis.
- The presentation of results for the investigation including findings, conclusions and recommendations.

3.2 Accepted Scope of Services

The remediation was performed according to the agreed-upon scope of services between Alpha and CCHCD. The work was completed in general accordance with the authorized scope of work listed above and the Work Plan dated October 10, 2023 approved by DEQ.

4.0 QUALITY ASSURANCE & QUALITY CONTROL

For the project, all data used for closure purposes complied with the DEQ's Quality Assurance Project Plan (QAPP) for the Site Investigations, DEQ05-LQ-069-QAPP, Version 2.2, dated August 14, 2012.

4.1 Field Equipment & Decontamination

Disposable field equipment used for this project include nitrile gloves, plastic spoons and soil cutting knife.

Decontamination of Alpha supplied reusable field equipment included manual removal of particles, wash with Alconox solution, rinse with tap water, wash with Alconox solution and rinse with distilled water.

4.3 Sample Collection

Samples from the investigation were collected directly from the freshly exposed excavation surface or retrieved at depth using the excavator bucket.

4.4 Sample Identification

Soil sample containers were labeled with the project name and number, the time of sampling, sampler's initials, sample designation and date. The chain of custody was completed, placed in a Ziplock bag and put to the cooler.

4.5 Sample Transport

The samples were packed in reusable ice with an appropriate temperature blank(s), which consisted of a 100-ml polyethylene bottle filled with clean water.

Samples were handled under chain-of-custody protocol in which the custody form was signed and dated by the Alpha personnel. Upon pickup of the samples, personnel at Apex Laboratories examined and recorded the condition of the sample containers, signed the custody form, and transferred the samples to their coolers. A completed copy of the chain-of-custody form is included at the end of the laboratory analytical report.

5.0 SAMPLE ANALYTICAL RESULTS

5.1 Sample Results Evaluation

In order to evaluate the current and reasonably likely future risk to human health and the environment, Alpha compared the data from the current investigation to the Oregon Department of Environmental Quality (DEQ) risk-based decision making (RBDM) guidelines.

The RBDM process involves investigating potential sources of the contaminants and the environmental media in which they are contained (e.g., soil or groundwater), receptors (who could potentially be exposed to contaminants), and the exposure pathway (how a receptor might come in contact with contaminants [e.g., inhalation, ingestion or dermal contact]). If any of these elements is missing, the pathway is considered incomplete.

Using the parameters listed above, the laboratory detected concentrations and/or the reporting limits were compared to DEQ risk-based concentrations (RBCs). An RBC is the concentration of a hazardous substance in soil, water, air or sediment that is determined to be protective of human health and the environment under specified exposure conditions.

There are no established DEQ RBCs for heavy range oil hydrocarbons. Since PAHs were not detected above their respective RBCs in any of the samples, site screening using diesel range petroleum protocol was considered appropriate method for risk evaluation.

Since contamination was known to exist on the site, the following receptors and pathways are applicable.

Potential Receptors:

- Adults in a residential scenario
- Adults in a construction or excavation worker scenario

Selected Pathways:

- Ingestion, dermal contact, and inhalation

5.2 Initial Laboratory Results

PCBs

The analytical results indicate that no PCBs were detected in the sample collected for Waste Management disposal requirements.

A summary of the results for the soil analysis is presented in Table 2. Laboratory analytical reports are included as Appendix B.

Table 2 - Soil Sample Analytical Results - PCBs

Sample No.	Location of Sample	Sample Depth in Feet	PCBs						
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
			mg/kg						
S1	Tractor Trailer Maintenance Area	0.1	ND<0.0283	ND<0.0327	ND<0.127	ND<0.0381	ND<0.0366	ND<0.0735	ND<0.0473
DEQ Risk-Based Concentrations									
PCB Max. Based on Reporting Limit			0.127						
Dermal Contact (Residential)			0.23						

ND = Analyte Not Detected at or above laboratory reporting limit (See Laboratory Report) All reporting limits are below the RBCs.
 mg/kg = milligram per kilogram or parts per million (ppm)
 >Max = This substance is deemed not to pose risks in this scenario.

TCLP Metals

The TCLP metals analytical results indicate that no leachable metals were detected in the sample collected for Waste Management disposal requirements.

A summary of the results for the soil analysis is presented in Table 3. Laboratory analytical reports are included as Appendix B.

Table 3 - Soil Sample Analytical Results - Metals

Sample No.	Location of Sample	Sample Depth in Feet	RCRA Metals							
			Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
			mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
S1	Tractor Trailer Maintenance Area	0.1	ND	ND	ND	ND	ND	ND	ND	ND

ND = Analyte Not Detected at or above laboratory reporting limit (See Laboratory Report) All reporting limits are below the RBCs.
 mg/kg = milligram per kilogram or parts per million (ppm)
 >Max = This substance is deemed not to pose risks in this scenario.

5.3 Soil Removal and Confirmation Sampling

On December 12 & 13, 2023, Alpha mobilized to the site with excavation equipment and dump trucks. Using a mini excavator, impacted surface soils in the two impacted areas were removed and placed in the waiting trucks. This continued downward to approximately one foot in the tractor trailer maintenance area (Area 1) and approximately one to three feet in the former hobby area (Area 2).

All excavations continued until there were no visual signs of impacts observed. Approximately 134.85 tons of soil were removed in this manner. Nine confirmation soil samples were collected from the bottom of the excavations to ensure completion of the remediation.

Petroleum -Area 1

The analytical results indicate that heavy oil was detected at low concentrations in samples A1-1 (144 ppm), A1-2 (54.7 ppm), A1-3 (53.5 ppm), A1-4 (113 ppm) and A1-5 (74.5 ppm). The detected concentrations were compared to the DEQ Risk levels and all detected concentrations are below the RBCs for applicable receptors.

A summary of the results for the confirmation analysis is presented in Table 4. Laboratory analytical reports are included as Appendix B.

Table 4 – Final Soil Sample Analytical Results for Area 1 - Petroleum

Sample No.	Location of Sample	Sample Depth in Feet	Petroleum	
			Diesel	Heavy Oil
			mg/kg	mg/kg
A1-1	Tractor Trailer Maintenance Area	1.0	ND <24.1	144
A1-2	Tractor Trailer Maintenance Area	1.0	ND <24.8	54.7
A1-3	Tractor Trailer Maintenance Area	1.0	ND <23.8	53.5
A1-4	Tractor Trailer Maintenance Area	1.0	ND <24.9	113
A1-5	Tractor Trailer Maintenance Area	1.0	ND <24.9	74.5
DEQ Risk-Based Concentrations				
Dermal Contact (Residential Use)			1,100	1,100
Dermal Contact (Excavation Worker)			>Max	>Max

ND = Analyte Not Detected at or above laboratory reporting limit (See Laboratory Report) All reporting limits are below the RBCs.
mg/kg = milligram per kilogram or parts per million (ppm)

Petroleum -Area 2

The analytical results indicate that heavy oil was detected at low concentrations in samples A2-2 (146 ppm oil & 58.3 ppm diesel), A2-3 (226) and A2-4 (594 ppm). The detected concentrations were compared to the DEQ Risk levels and all detected concentrations are below the RBCs for applicable receptors.

A summary of the results for the confirmation analysis is presented in Table 5. Laboratory analytical reports are included as Appendix B.

Table 5 – Final Soil Sample Analytical Results for Area 2 - Petroleum

Sample No.	Location of Sample	Sample Depth in Feet	Petroleum	
			Diesel	Heavy Oil
			mg/kg	mg/kg
A2-1	Hobby Maintenance Area	1.0	ND <21.3	ND <42.5
A2-2	Hobby Maintenance Area	1.0	58.3	146
A2-3	Hobby Maintenance Area	1.5	ND <41.0	226
A2-4	Hobby Maintenance Area	3.5	ND <103	594
DEQ Risk-Based Concentrations				
Dermal Contact (Occupational Use)			1,100	1,100
Dermal Contact (Excavation Worker)			>Max	>Max

ND = Analyte Not Detected at or above laboratory reporting limit (See Laboratory Report) All reporting limits are below the RBCs.
 mg/kg = milligram per kilogram or parts per million (ppm)

PCBs

Select samples from each of the areas was selected for PCB testing. The analytical results indicate that neither no PCBs were detected above the laboratory reporting limits in any of the samples. Laboratory analytical reports are included as Appendix B.

Table 6 – Final Soil Sample Analytical Results - PCBs

Sample No.	Location of Sample	Sample Depth in Feet	PCBs						
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
			mg/kg						
A1-2	Tractor Trailer Maintenance Area	1.0	ND<0.0126	ND<0.0124	ND<0.0239	ND<0.0176	ND<0.0242	ND<0.0309	ND<0.0124
A1-4	Tractor Trailer Maintenance Area	1.0	ND<0.0121	ND<0.0121	ND<0.0189	ND<0.0121	ND<0.0134	ND<0.0197	ND<0.0121
A2-1	Hobby Maintenance Area	1.0	ND<0.0110						
A2-3	Hobby Maintenance Area	1.0	ND<0.0174	ND<0.0223	ND<0.0454	ND<0.0234	ND<0.0200	ND<0.103	ND<0.0785
DEQ Risk-Based Concentrations									
PCB Max. Based on Reporting Limit			0.103						
Dermal Contact (Residential)			0.23						

ND = Analyte Not Detected at or above laboratory reporting limit (See Laboratory Report) All reporting limits are below the RBCs.

mg/kg = milligram per kilogram or parts per million (ppm)

>Max = This substance is deemed not to pose risks in this scenario.

PAHs

The analytical results indicate that low levels of PAHs were detected in Samples A1-5, A2-2 and A2-3. The sample results were compared to the RBCs for residential and excavation worker receptors. The detections are below the RBCs for all applicable exposure pathways.

A summary of the results for the soil analysis is presented in Table 7. Laboratory analytical reports are included as Appendix B.

Table 7 – Final Soil Sample Analytical Results - PAHs

	A1-5	A2-2	A2-3	Direct Contact (Residential)	Direct Contact (Excavation Worker)
Analyte	Result mg/kg	Result mg/kg	Result mg/kg	mg/kg	mg/kg
Acenaphthene	ND<0.0122	ND<0.0107	ND<0.0106	4,700	590,000
Acenaphthylene	ND<0.0122	ND<0.0107	ND<0.0106	-	-
Anthracene	ND<0.0122	ND<0.0107	ND<0.0106	23,000	>Max
Benzo(a)anthracene	ND<0.0122	0.0123	0.0126	1.1	>Csat
Benzo(a)pyrene	ND<0.0122	0.0166	0.0260	0.11	490
Benzo(b)fluoranthene	ND<0.0122	0.0250	0.0452	1.1	4,900
Benzo(K)fluoranthene	ND<0.0122	ND<0.0107	0.0135	11	49,000
Benzo(g,h,i)perylene	ND<0.0122	0.0211	0.0522	-	-
Chrysene	ND<0.0122	0.0219	0.0266	110	490,000
Dibenz(a,h)anthracene	ND<0.0144	ND<0.0107	ND<0.0106	0.11	490
Fluoranthene	0.0208	0.0241	0.0151	2,400	280,000
Fluorene	ND<0.0122	ND<0.0107	ND<0.0106	3,100	390,000
Indeno(1,2,3-cd)pyrene	ND<0.0122	0.0162	0.0344	1.1	4,900
Naphthalene	ND<0.0122	ND<0.0107	0.0245	5.3	16,000
Phenanthrene	ND<0.0122	0.0131	ND<0.0106	-	-
Pyrene	0.0252	0.0285	0.0270	1,800	210,000

ND = Analyte Not Detected at or above laboratory reporting limit (See Laboratory Report) All reporting limits are below the RBCs.

>Csat = This soil RBC exceeds the limit of three-phase equilibrium partitioning.

>Max = this substance is deemed not to pose a risk in this scenario.

The Occupational Receptor scenario is not applicable since soils are not located within 3 feet

6.0 FINDINGS, CONCLUSIONS, RISK EVALUATION AND RECOMMENDATIONS

Alpha has completed remediation for the Property located at 16590 SE 114th Avenue, Clackamas, Oregon. The assessment was performed in accordance with the agreed-upon scope of services. Based on the evaluation of the current findings of this assessment, the following findings, conclusions and recommendations have been developed.

6.1 Findings & Cleanup

Summary of Findings

- Site impacts appear to have predominately been restricted to the upper one foot of soils.
- A small section of Area 2 had impacts down to approximately 3.5 feet.
- The highest detected concentrations of oil were in Sample A2-4 (594 ppm) at 3.5 feet.
- Immediately adjacent to the west of Area 1 is an asphalt driveway.
- Impacted soil from both areas was removed and disposed of at Hillsboro Landfill.
- The confirmation soil samples indicate heavy oil concentrations in soils are below residential and excavation worker risk-based levels for dermal contact.
- Very low PAHS detected only in the samples A1-5, A2-2 and A2-3.
- No PCBS detected in any of the select samples from either area.
- Metals concentrations are below background concentrations (Kleinfelder Results 2010)

6.2 Conclusions

The direct contact pathway for a residential receptor is not complete for sample with the highest detected concentrations (Sample A2-4) as it is greater than 3 feet below ground surface.

Site observations and analytical results indicate that petroleum impacted soils on the property have been successfully remediated to below risk levels for applicable receptors and pathways.

There are no established DEQ RBCs for heavy range oil hydrocarbons. Since PAHs and PCBs were not detected above their respective RBCs in any of the samples, site screening using diesel range petroleum protocol was considered appropriate. Based on the findings and discussion above, the risk from the remaining heavy oil in soil is low.

6.3 Risk Evaluation

Based on the findings and conclusions discussed above, no environmental conditions remain at the Property that would pose an adverse risk to future site residents or workers, and the results indicate that onsite soils tested are protective of human health and the environment.

6.4 Recommendations

Alpha does not recommend further remediation or assessment of the Property at this time.

7.0 LIMITATIONS & USE RELIANCE

The investigation and remediation considered the past activities and operations conducted on the Property to identify the potential for releases to have occurred or other reasons to conclude that there is a presence or likely presence of substances relevant to the objectives of the investigation. Alpha makes every attempt to fulfill the user's objectives which dictate the thresholds of concern or confidence desired in the conclusions to be derived from this assessment.

There is a possibility that, even with the proper application of these methodologies, there may exist at the Property conditions that could not be identified within the scope of the assessment, or which were not reasonably identifiable from the available information. The methodologies of this assessment are not intended to produce all-inclusive or comprehensive results, but rather to provide the client and interested parties with an indication of subsurface environmental conditions in specifically targeted areas of the property at this time.

7.1 Limitations and Exceptions

In preparing the remediation sampling plans and reports, Alpha may have relied upon certain information and representations contained in the historical documents provided to Alpha and the verbal statements of other consultants, field data (soil/groundwater) and additional information provided to Alpha. Therefore, this report is limited to the conclusions drawn based on information obtained and assumptions made during the review process and analytical results for this investigation.

Alpha relied upon the information and did not attempt to independently re-verify its accuracy or completeness, except as discussed. Potential inconsistencies or omissions of a nature that might call into question the validity of the information were not detected. To the extent that the conclusions in this report are based in whole or in part on such information, they are contingent on its validity. Alpha assumes no responsibility for any consequence arising from any information or condition that was concealed, withheld, misrepresented, or otherwise not fully disclosed or available to Alpha.

Within the limitations of the agreed-upon scope of services or the time and budgeting restraints imposed by the client, this investigation has been undertaken and performed in a professional manner, in accordance with generally accepted engineering practices, using the degree of skill and care ordinarily exercised by reputable environmental consultants under similar circumstances. No representations or warranties are made concerning the nature or quality of the air, soil, water, building materials, or any other substance on the Property (including the potential for any substance to migrate into a structure), other than the immediate subject sampling areas as stated in this report. The investigation is a screening and is not intended to be a definitive investigation of existing or potential adverse environmental impacts; thus, it is possible that such an impact exists on the Property or adjacent properties, but was not identified during the investigation. The investigation is not intended to satisfy the level of inquiry that may be necessary to support remedial solutions for a site. Conclusions in this report represent professional judgments based upon the information evaluated during the course of the assessment, not scientific certainties.

7.2 Use Reliance

This report has been prepared for the express use of Clackamas County and the Oregon DEQ. The client and/or Users of this report and its legal counsel may release all or parts of this report to third parties; however, in using this report, such third parties agree that they shall have no legal recourse against Alpha or its parent or subsidiaries and shall indemnify and defend Alpha from and against all claims arising out of or in conjunction with such use or reliance. This report does not constitute legal advice. In addition, Alpha makes no determination or recommendations regarding the decision to purchase, sell, or provide financing for this Property.

8.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

Alpha is providing the client with the results of our investigation for the Property located at 16590 SE 114th Avenue, Clackamas, Oregon. Alpha completed the remediation and investigation of the Property in a professional manner according with generally accepted engineering practices, using the degree of skill and care ordinarily exercised by reputable environmental consultants under similar circumstances.

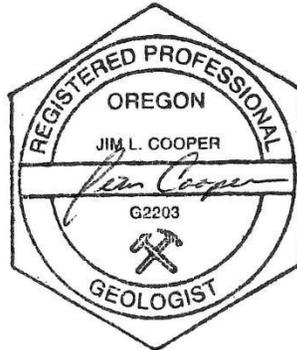
The environmental consultants listed below exercised professional judgment based on knowledge of the manner in which releases commonly occur in connection with commercial or industrial activities and operations similar to those currently or historically conducted on or adjacent to the Property.

The consultants also possess applicable education, professional training, licensing and relevant experience to conduct the environmental investigation and other activities in accordance with the relevant standards and to develop opinions and conclusions regarding target analytes in the environmental media.

Alpha appreciates the opportunity to provide environmental services to you. If you have any questions concerning this report, or if we can assist you in any other matter, please contact our office at 503-292-5346.



Jim Cooper, R.G.
Senior Geologist



Phillip Brewer
Principal

ALPHA ENVIRONMENTAL SERVICES, INC.



9.0 REFERENCES

- Alpha Environmental Services, Inc. *Phase I Environmental Site Assessment, 16590 SE 114th Avenue, Clackamas, Oregon 97015*, Dated April 14, 2023.
- Alpha Environmental Services, Inc. *Work Plan for Site Cleanup and Sampling, 16590 SE 114th Avenue, Clackamas, Oregon 97015*, Completed October 10, 2023.
- American Society for Testing and Materials, *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process*, ASTM Designation: E 1903-19
- Kleinfelder, Contaminated Media Management Plan, *1200 SE Capps Rd, 11436 SE Capps Rd, 16590 SE 115th Avenue, Clackamas, Oregon*, Dated August 9, 2013.
- Kleinfelder, Phase II Environmental Site Assessment, *1200 SE Capps Rd, 11436 SE Capps Rd, 16590 SE 115th Avenue, Clackamas, Oregon*, Dated October 25, 2010.
- Oregon Department of Environmental Quality, *files accessed online, 2023/2024*.
- Oregon Department of Environmental Quality, *ECSI Database, Site ID 6271, 1706 E Burnside Street, Portland. Reference for using diesel RBCs for oil impacts*. Database accessed online, 2024.
- State of Oregon Water Resources Department, Agency Resources, *Online Well Log Search and Groundwater Level Data*, accessed via website.
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- Walker, 1991. *Geological Map of Oregon*, United States Geological Survey, Walker, G.W. and MacLeod, N.S., 1991.

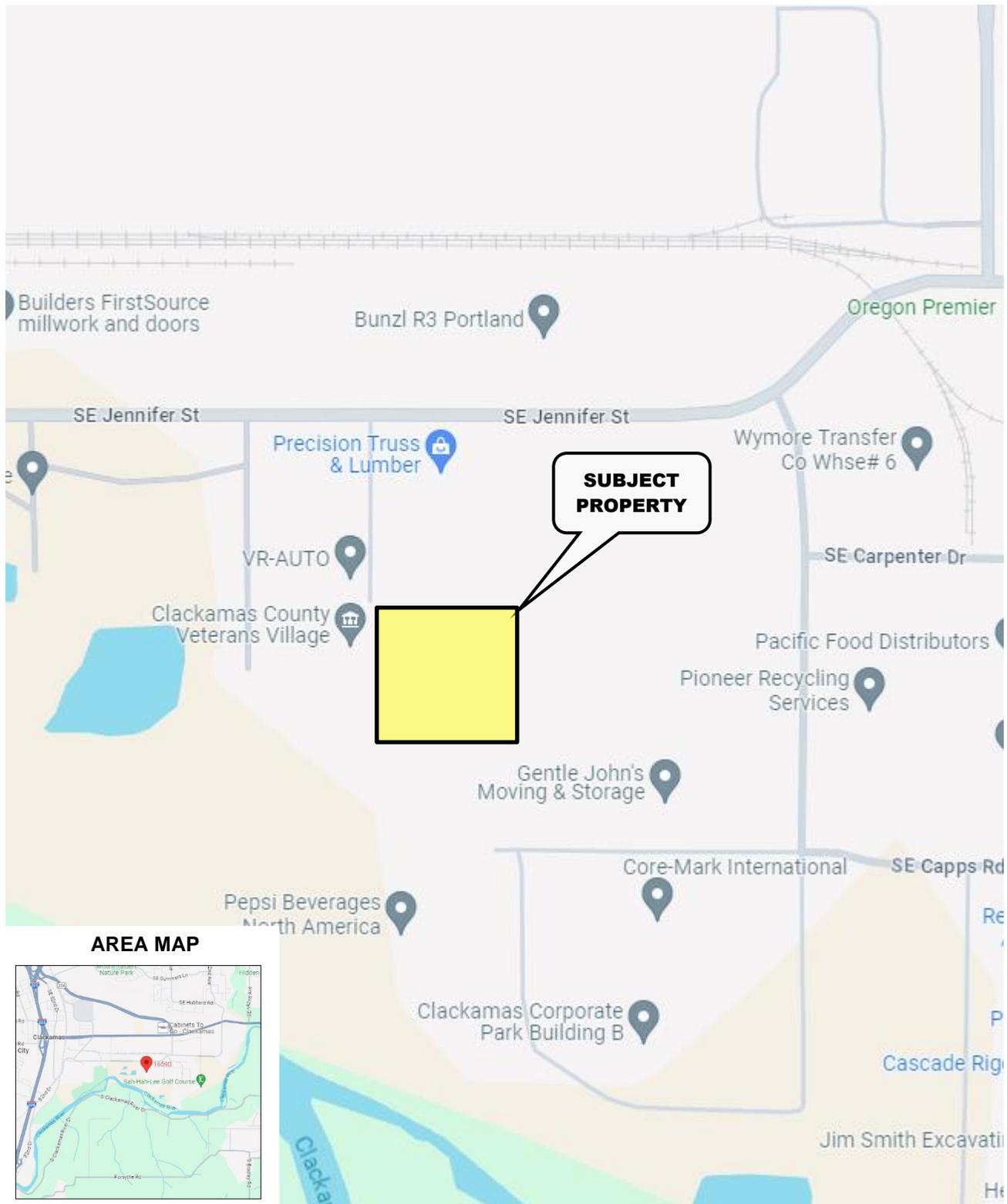
10.0 ACRONYMS

ASTM	American Society for Testing and Materials
bsg	below surface grade
DEQ	Department of Environmental Quality (Oregon)
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
HCID	Hydrocarbon Identification
ND	Not Detected At or Above Laboratory Reporting Limits
PID	Photoionization Detector
PVC	Poly Vinyl Chloride
ppb	parts per billion
ppm	parts per million
RBCs	Risk-based Concentrations
RBDM	Risk-based Decision Making
RCRA	Resource Conservation & Recovery Act
RECs	Recognized Environmental Conditions
TPH	Total Petroleum Hydrocarbons
VOCs	Volatile Organic Compounds
WRD	Water Resources Department (Oregon)

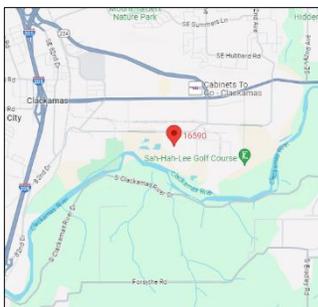


FIGURES:

**VICINITY MAP
TOPOGRAPHIC MAP
SITE SAMPLING MAP**



AREA MAP



SOURCE: Google Maps

DRAWING NOT TO SCALE



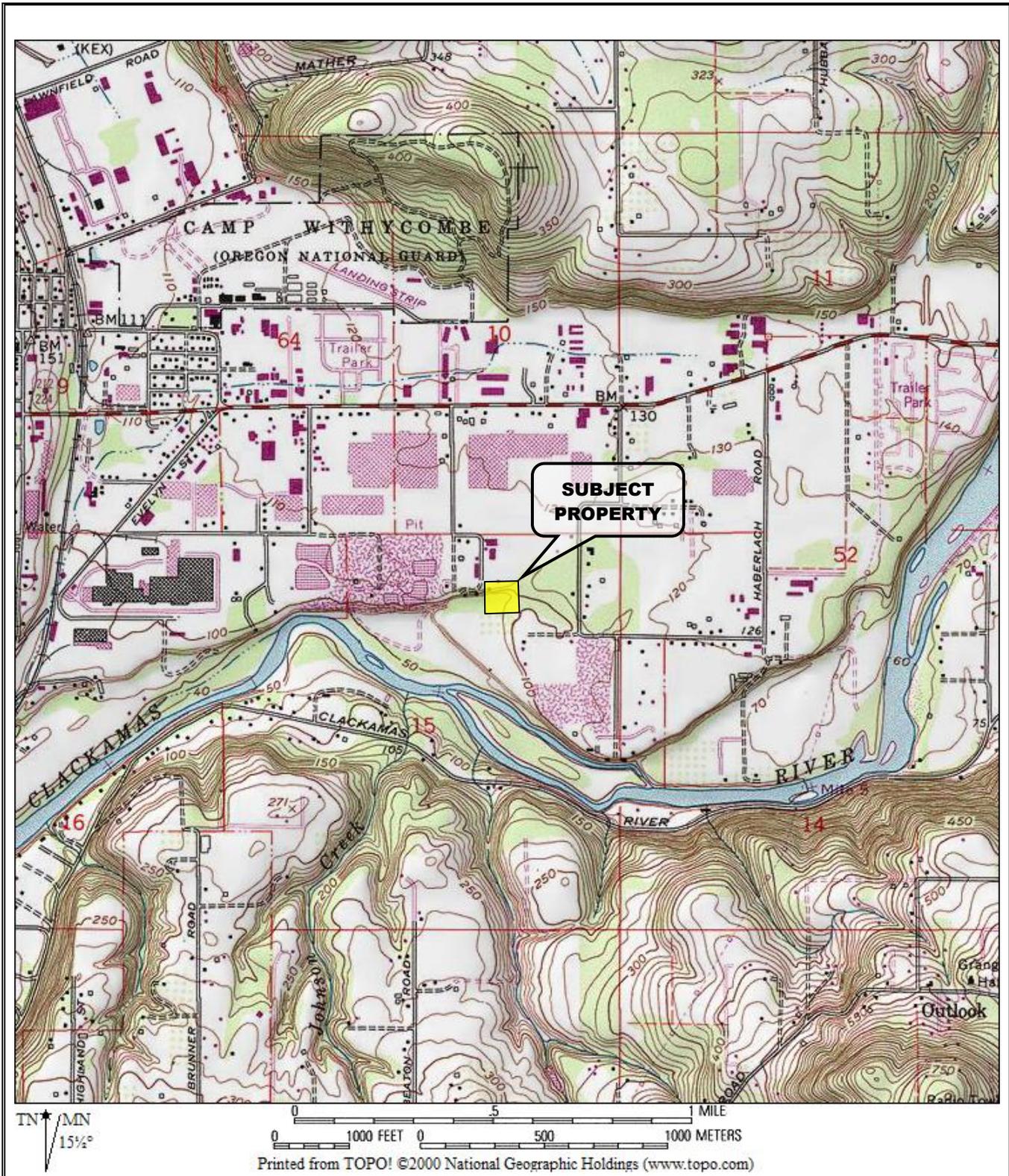
11080 SW ALLEN BLVD, STE 100
BEAVERTON, OREGON 97005
(503) 292-5346

FIGURE 1: SITE VICINITY MAP

16590 SE 114th AVENUE
CLACKAMAS, OREGON 97015

PROJECT NO: 23-52876





SOURCE: USGS 7.5 Minute Topographic Map – Gladstone, OR Quadrangle, 1984



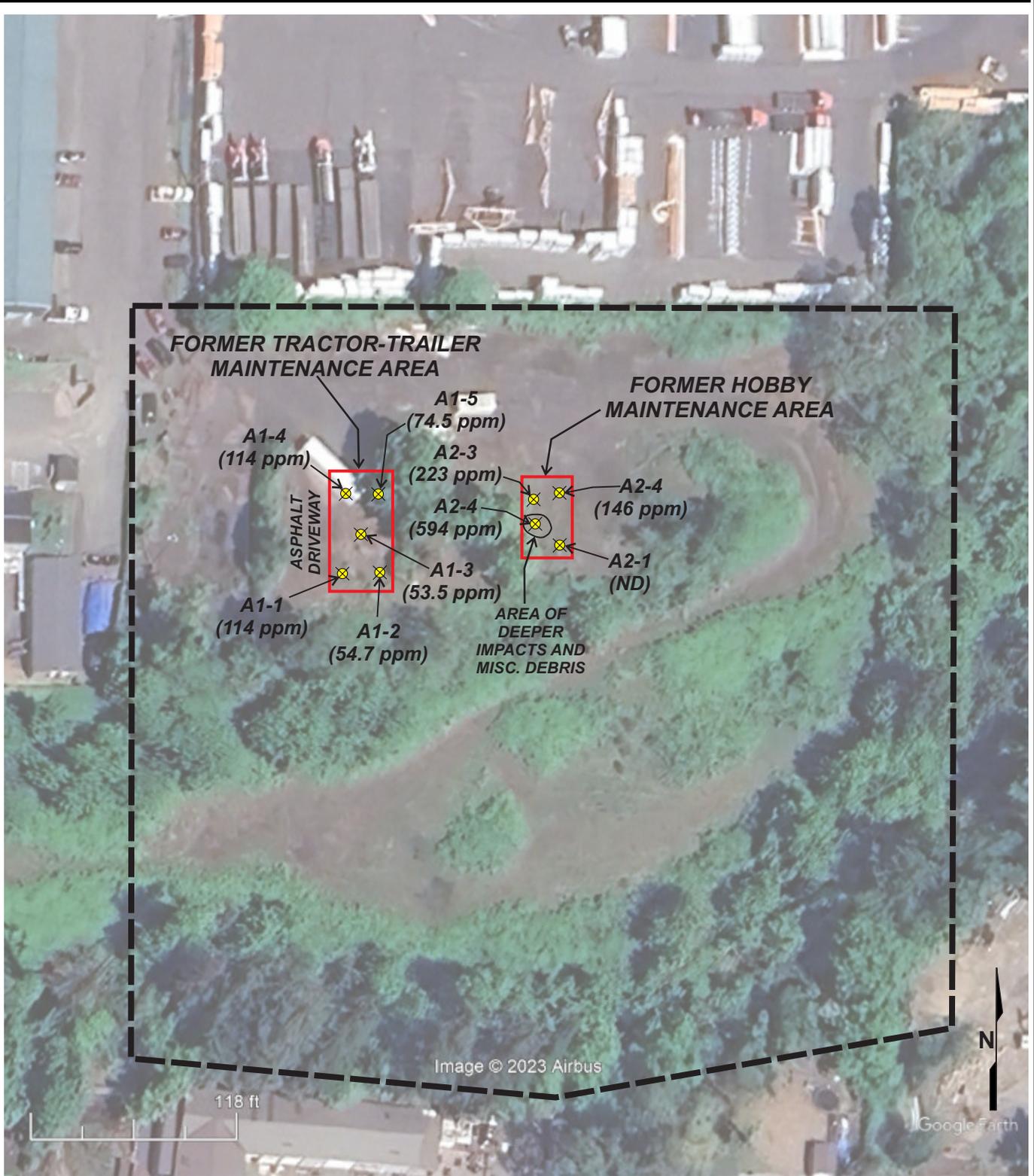
11080 SW ALLEN BLVD, STE 100
 BEAVERTON, OREGON 97005
 (503) 292-5346

FIGURE 2: TOPOGRAPHIC MAP

16590 SE 114th AVENUE
 CLACKAMAS, OREGON 97015

PROJECT NO: 23-52876





LEGEND

- PROPERTY BOUNDARY
- ✕ SOIL SAMPLE LOCATIONS
- FORMERLY IMPACTED AREAS

FIGURE 3: SITE SAMPLING MAP

16590 SE 114TH AVENUE
CLACKAMAS, OREGON 97015

NOTES

MAP SYMBOLS DENOTE LOCATIONS AND MAY NOT BE TO SCALE
GOOGLE MAPS BASE IMAGE MAY BE SKEWED BY SATELLITE POSITION



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BEAVERTON, OREGON 97005
(503) 292-5346

PROJECT NO: 23-52876



APPENDIX A:
SITE PHOTOGRAPHS

SITE PHOTOGRAPHS



PHOTOGRAPH NO. 1 – Area 1 prior to removal.



PHOTOGRAPH NO. 2 – Area 1 initial scraping. Asphalt driveway can be observed in foreground.



PHOTOGRAPH NO. 3 – Area 1 continued excavation.



PHOTOGRAPH NO. 4 – Area 1 continued excavation.



PHOTOGRAPH NO. 5 – Area 1 final excavation.



PHOTOGRAPH NO. 6 – Area 1 completed backfill.

SITE PHOTOGRAPHS



PHOTOGRAPH NO. 1 – Area 2 prior to removal.



PHOTOGRAPH NO. 2 – Area 2 initial scraping.



PHOTOGRAPH NO. 3 – Area 2 stained soils.



PHOTOGRAPH NO. 4 – Area 2 deep removal of impacted soils.



PHOTOGRAPH NO. 5 – Area 2 final excavation.



APPENDIX B:
ANALYTICAL LABORATORY REPORTS



ANALYTICAL REPORT

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

Tuesday, January 16, 2024
Jim Cooper
Alpha Environmental
11080 SW Allen Blvd, Suite 100
Beaverton, OR 97005

RE: A3L1289 - Default- Env Dept. - 16590 SE 114th Ave 23-52876

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 A3L1289, which was received by the laboratory on 12/14/2023 at 4:20:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: cobrien@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		
<u>Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.</u>		
(See Cooler Receipt Form for details)		
Default Cooler	0.8	degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report. All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 16590 SE 114th Ave 23-5287 Project Manager: Jim Cooper	Report ID: A3L1289 - 01 16 24 1836
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
23-52876 A1-1	A3L1289-01	Soil	12/13/23 15:25	12/14/23 16:20
23-52876 A1-2	A3L1289-02	Soil	12/13/23 15:29	12/14/23 16:20
23-52876 A1-3	A3L1289-03	Soil	12/13/23 15:31	12/14/23 16:20
23-52876 A1-4	A3L1289-04	Soil	12/13/23 15:36	12/14/23 16:20
23-52876 A1-5	A3L1289-05	Soil	12/13/23 15:40	12/14/23 16:20
23-52876 A2-1	A3L1289-06	Soil	12/13/23 15:51	12/14/23 16:20
23-52876 A2-2	A3L1289-07	Soil	12/13/23 15:54	12/14/23 16:20
23-52876 A2-3	A3L1289-08	Soil	12/13/23 15:59	12/14/23 16:20
23-52876 A2-4	A3L1289-09	Soil	12/13/23 16:02	12/14/23 16:20

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 16590 SE 114th Ave 23-5287 Project Manager: Jim Cooper	Report ID: A3L1289 - 01 16 24 1836
---	---	---

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-52876 A1-1 (A3L1289-01)				Matrix: Soil		Batch: 23L0863		
Diesel	ND	---	24.1	mg/kg dry	1	12/21/23 21:04	NWTPH-Dx	
Oil	144	---	48.2	mg/kg dry	1	12/21/23 21:04	NWTPH-Dx	F-03
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 81 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>12/21/23 21:04</i>	<i>NWTPH-Dx</i>	
23-52876 A1-2 (A3L1289-02)				Matrix: Soil		Batch: 23L0863		
Diesel	ND	---	24.8	mg/kg dry	1	12/21/23 22:04	NWTPH-Dx	
Oil	54.7	---	49.6	mg/kg dry	1	12/21/23 22:04	NWTPH-Dx	F-03
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 79 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>12/21/23 22:04</i>	<i>NWTPH-Dx</i>	
23-52876 A1-3 (A3L1289-03)				Matrix: Soil		Batch: 23L0863		
Diesel	ND	---	23.8	mg/kg dry	1	12/21/23 22:25	NWTPH-Dx	
Oil	53.5	---	47.6	mg/kg dry	1	12/21/23 22:25	NWTPH-Dx	F-03
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 84 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>12/21/23 22:25</i>	<i>NWTPH-Dx</i>	
23-52876 A1-4 (A3L1289-04)				Matrix: Soil		Batch: 23L0863		
Diesel	ND	---	24.9	mg/kg dry	1	12/21/23 23:05	NWTPH-Dx	
Oil	113	---	49.9	mg/kg dry	1	12/21/23 23:05	NWTPH-Dx	F-03
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 77 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>12/21/23 23:05</i>	<i>NWTPH-Dx</i>	
23-52876 A1-5 (A3L1289-05)				Matrix: Soil		Batch: 23L0863		
Diesel	ND	---	24.9	mg/kg dry	1	12/21/23 23:25	NWTPH-Dx	
Oil	74.5	---	49.7	mg/kg dry	1	12/21/23 23:25	NWTPH-Dx	F-03
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 76 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>12/21/23 23:25</i>	<i>NWTPH-Dx</i>	
23-52876 A2-1 (A3L1289-06)				Matrix: Soil		Batch: 23L0863		
Diesel	ND	---	21.3	mg/kg dry	1	12/22/23 00:06	NWTPH-Dx	
Oil	ND	---	42.5	mg/kg dry	1	12/22/23 00:06	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 80 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>12/22/23 00:06</i>	<i>NWTPH-Dx</i>	
23-52876 A2-2 (A3L1289-07)				Matrix: Soil		Batch: 23L0863		
Diesel	58.3	---	20.9	mg/kg dry	1	12/22/23 00:26	NWTPH-Dx	
Oil	146	---	41.9	mg/kg dry	1	12/22/23 00:26	NWTPH-Dx	F-03
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 79 %</i>	<i>Limits: 50-150 %</i>	<i>1</i>	<i>12/22/23 00:26</i>	<i>NWTPH-Dx</i>	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 16590 SE 114th Ave 23-5287 Project Manager: Jim Cooper	Report ID: A3L1289 - 01 16 24 1836
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ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-52876 A2-3 (A3L1289-08RE1)				Matrix: Soil		Batch: 23L0863		
Diesel	ND	---	41.0	mg/kg dry	2	12/22/23 13:23	NWTPH-Dx	
Oil	226	---	82.0	mg/kg dry	2	12/22/23 13:23	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 88 %</i>	<i>Limits: 50-150 %</i>	2	12/22/23 13:23	NWTPH-Dx	S-05
23-52876 A2-4 (A3L1289-09RE1)				Matrix: Soil		Batch: 23L0863		
Diesel	ND	---	103	mg/kg dry	5	12/22/23 14:04	NWTPH-Dx	
Oil	594	---	207	mg/kg dry	5	12/22/23 14:04	NWTPH-Dx	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 86 %</i>	<i>Limits: 50-150 %</i>	5	12/22/23 14:04	NWTPH-Dx	S-05

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Cameron O'Brien, Project Manager



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ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-52876 A1-2 (A3L1289-02)				Matrix: Soil		Batch: 23L0850		C-07
Aroclor 1016	ND	---	0.0126	mg/kg dry	1	12/21/23 19:28	EPA 8082A	R-02
Aroclor 1221	ND	---	0.0124	mg/kg dry	1	12/21/23 19:28	EPA 8082A	
Aroclor 1232	ND	---	0.0239	mg/kg dry	1	12/21/23 19:28	EPA 8082A	R-02
Aroclor 1242	ND	---	0.0176	mg/kg dry	1	12/21/23 19:28	EPA 8082A	R-02
Aroclor 1248	ND	---	0.0242	mg/kg dry	1	12/21/23 19:28	EPA 8082A	R-02
Aroclor 1254	ND	---	0.0309	mg/kg dry	1	12/21/23 19:28	EPA 8082A	R-02
Aroclor 1260	ND	---	0.0124	mg/kg dry	1	12/21/23 19:28	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>			<i>Recovery: 81 %</i>	<i>Limits: 60-125 %</i>	<i>1</i>	<i>12/21/23 19:28</i>	<i>EPA 8082A</i>	
23-52876 A1-4 (A3L1289-04)				Matrix: Soil		Batch: 23L0850		C-07
Aroclor 1016	ND	---	0.0121	mg/kg dry	1	12/21/23 20:39	EPA 8082A	
Aroclor 1221	ND	---	0.0121	mg/kg dry	1	12/21/23 20:39	EPA 8082A	
Aroclor 1232	ND	---	0.0189	mg/kg dry	1	12/21/23 20:39	EPA 8082A	R-02
Aroclor 1242	ND	---	0.0121	mg/kg dry	1	12/21/23 20:39	EPA 8082A	
Aroclor 1248	ND	---	0.0134	mg/kg dry	1	12/21/23 20:39	EPA 8082A	R-02
Aroclor 1254	ND	---	0.0197	mg/kg dry	1	12/21/23 20:39	EPA 8082A	R-02
Aroclor 1260	ND	---	0.0121	mg/kg dry	1	12/21/23 20:39	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>			<i>Recovery: 81 %</i>	<i>Limits: 60-125 %</i>	<i>1</i>	<i>12/21/23 20:39</i>	<i>EPA 8082A</i>	
23-52876 A2-1 (A3L1289-06)				Matrix: Soil		Batch: 23L0850		C-07
Aroclor 1016	ND	---	0.0110	mg/kg dry	1	12/21/23 18:52	EPA 8082A	
Aroclor 1221	ND	---	0.0110	mg/kg dry	1	12/21/23 18:52	EPA 8082A	
Aroclor 1232	ND	---	0.0110	mg/kg dry	1	12/21/23 18:52	EPA 8082A	
Aroclor 1242	ND	---	0.0110	mg/kg dry	1	12/21/23 18:52	EPA 8082A	
Aroclor 1248	ND	---	0.0110	mg/kg dry	1	12/21/23 18:52	EPA 8082A	
Aroclor 1254	ND	---	0.0110	mg/kg dry	1	12/21/23 18:52	EPA 8082A	
Aroclor 1260	ND	---	0.0110	mg/kg dry	1	12/21/23 18:52	EPA 8082A	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>			<i>Recovery: 91 %</i>	<i>Limits: 60-125 %</i>	<i>1</i>	<i>12/21/23 18:52</i>	<i>EPA 8082A</i>	
23-52876 A2-3 (A3L1289-08)				Matrix: Soil		Batch: 23L0850		C-07
Aroclor 1016	ND	---	0.0174	mg/kg dry	1	12/21/23 19:28	EPA 8082A	R-02
Aroclor 1221	ND	---	0.0223	mg/kg dry	1	12/21/23 19:28	EPA 8082A	R-02
Aroclor 1232	ND	---	0.0454	mg/kg dry	1	12/21/23 19:28	EPA 8082A	R-02
Aroclor 1242	ND	---	0.0234	mg/kg dry	1	12/21/23 19:28	EPA 8082A	R-02
Aroclor 1248	ND	---	0.0200	mg/kg dry	1	12/21/23 19:28	EPA 8082A	R-02
Aroclor 1254	ND	---	0.103	mg/kg dry	1	12/21/23 19:28	EPA 8082A	R-02

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ANALYTICAL REPORT

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503-718-2323
ORELAP ID: OR100062

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 16590 SE 114th Ave 23-5287 Project Manager: Jim Cooper	Report ID: A3L1289 - 01 16 24 1836
---	---	---

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-52876 A2-3 (A3L1289-08)				Matrix: Soil		Batch: 23L0850		C-07
Aroclor 1260	ND	---	0.0785	mg/kg dry	1	12/21/23 19:28	EPA 8082A	R-02
<i>Surrogate: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 90 %</i>		<i>Limits: 60-125 %</i>	<i>1</i>	<i>12/21/23 19:28</i>	<i>EPA 8082A</i>	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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 503-718-2323
 ORELAP ID: OR100062

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 16590 SE 114th Ave 23-5287 Project Manager: Jim Cooper	Report ID: A3L1289 - 01 16 24 1836
---	---	---

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-52876 A1-1 (A3L1289-01)				Matrix: Soil		Batch: 23L0853		
Acenaphthene	ND	---	0.0121	mg/kg dry	1	12/21/23 22:02	EPA 8270E SIM	
Acenaphthylene	ND	---	0.0121	mg/kg dry	1	12/21/23 22:02	EPA 8270E SIM	
Anthracene	ND	---	0.0121	mg/kg dry	1	12/21/23 22:02	EPA 8270E SIM	
Benzo(a)anthracene	ND	---	0.0121	mg/kg dry	1	12/21/23 22:02	EPA 8270E SIM	
Benzo(a)pyrene	ND	---	0.0121	mg/kg dry	1	12/21/23 22:02	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	---	0.0121	mg/kg dry	1	12/21/23 22:02	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	---	0.0121	mg/kg dry	1	12/21/23 22:02	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	---	0.0121	mg/kg dry	1	12/21/23 22:02	EPA 8270E SIM	
Chrysene	ND	---	0.0121	mg/kg dry	1	12/21/23 22:02	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	---	0.0121	mg/kg dry	1	12/21/23 22:02	EPA 8270E SIM	
Fluoranthene	ND	---	0.0121	mg/kg dry	1	12/21/23 22:02	EPA 8270E SIM	
Fluorene	ND	---	0.0121	mg/kg dry	1	12/21/23 22:02	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	---	0.0121	mg/kg dry	1	12/21/23 22:02	EPA 8270E SIM	
Naphthalene	ND	---	0.0121	mg/kg dry	1	12/21/23 22:02	EPA 8270E SIM	
Phenanthrene	ND	---	0.0121	mg/kg dry	1	12/21/23 22:02	EPA 8270E SIM	
Pyrene	ND	---	0.0121	mg/kg dry	1	12/21/23 22:02	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 69 %</i>		<i>Limits: 44-120 %</i>		<i>1</i>	<i>12/21/23 22:02</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>60 %</i>		<i>54-127 %</i>		<i>1</i>	<i>12/21/23 22:02</i>	<i>EPA 8270E SIM</i>

23-52876 A1-2 (A3L1289-02)				Matrix: Soil		Batch: 23L0853		
Acenaphthene	ND	---	0.0127	mg/kg dry	1	12/21/23 22:27	EPA 8270E SIM	
Acenaphthylene	ND	---	0.0127	mg/kg dry	1	12/21/23 22:27	EPA 8270E SIM	
Anthracene	ND	---	0.0127	mg/kg dry	1	12/21/23 22:27	EPA 8270E SIM	
Benzo(a)anthracene	ND	---	0.0127	mg/kg dry	1	12/21/23 22:27	EPA 8270E SIM	
Benzo(a)pyrene	ND	---	0.0127	mg/kg dry	1	12/21/23 22:27	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	---	0.0127	mg/kg dry	1	12/21/23 22:27	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	---	0.0127	mg/kg dry	1	12/21/23 22:27	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	---	0.0127	mg/kg dry	1	12/21/23 22:27	EPA 8270E SIM	
Chrysene	ND	---	0.0127	mg/kg dry	1	12/21/23 22:27	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	---	0.0127	mg/kg dry	1	12/21/23 22:27	EPA 8270E SIM	
Fluoranthene	ND	---	0.0127	mg/kg dry	1	12/21/23 22:27	EPA 8270E SIM	
Fluorene	ND	---	0.0127	mg/kg dry	1	12/21/23 22:27	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	---	0.0127	mg/kg dry	1	12/21/23 22:27	EPA 8270E SIM	
Naphthalene	ND	---	0.0127	mg/kg dry	1	12/21/23 22:27	EPA 8270E SIM	
Phenanthrene	ND	---	0.0127	mg/kg dry	1	12/21/23 22:27	EPA 8270E SIM	
Pyrene	ND	---	0.0127	mg/kg dry	1	12/21/23 22:27	EPA 8270E SIM	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 16590 SE 114th Ave 23-5287 Project Manager: Jim Cooper	Report ID: A3L1289 - 01 16 24 1836
---	---	---

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-52876 A1-2 (A3L1289-02)				Matrix: Soil		Batch: 23L0853		
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 75 %</i>		<i>Limits: 44-120 %</i>		<i>1</i>	<i>12/21/23 22:27</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>66 %</i>		<i>54-127 %</i>		<i>1</i>	<i>12/21/23 22:27</i>	<i>EPA 8270E SIM</i>
23-52876 A1-3 (A3L1289-03)				Matrix: Soil		Batch: 23L0853		
Acenaphthene	ND	---	0.0112	mg/kg dry	1	12/21/23 22:53	EPA 8270E SIM	
Acenaphthylene	ND	---	0.0112	mg/kg dry	1	12/21/23 22:53	EPA 8270E SIM	
Anthracene	ND	---	0.0112	mg/kg dry	1	12/21/23 22:53	EPA 8270E SIM	
Benz(a)anthracene	ND	---	0.0112	mg/kg dry	1	12/21/23 22:53	EPA 8270E SIM	
Benzo(a)pyrene	ND	---	0.0112	mg/kg dry	1	12/21/23 22:53	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	---	0.0112	mg/kg dry	1	12/21/23 22:53	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	---	0.0112	mg/kg dry	1	12/21/23 22:53	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	---	0.0112	mg/kg dry	1	12/21/23 22:53	EPA 8270E SIM	
Chrysene	ND	---	0.0112	mg/kg dry	1	12/21/23 22:53	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	---	0.0112	mg/kg dry	1	12/21/23 22:53	EPA 8270E SIM	
Fluoranthene	ND	---	0.0112	mg/kg dry	1	12/21/23 22:53	EPA 8270E SIM	
Fluorene	ND	---	0.0112	mg/kg dry	1	12/21/23 22:53	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	---	0.0112	mg/kg dry	1	12/21/23 22:53	EPA 8270E SIM	
Naphthalene	ND	---	0.0112	mg/kg dry	1	12/21/23 22:53	EPA 8270E SIM	
Phenanthrene	ND	---	0.0112	mg/kg dry	1	12/21/23 22:53	EPA 8270E SIM	
Pyrene	ND	---	0.0112	mg/kg dry	1	12/21/23 22:53	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 74 %</i>		<i>Limits: 44-120 %</i>		<i>1</i>	<i>12/21/23 22:53</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>65 %</i>		<i>54-127 %</i>		<i>1</i>	<i>12/21/23 22:53</i>	<i>EPA 8270E SIM</i>
23-52876 A1-4 (A3L1289-04)				Matrix: Soil		Batch: 23L0853		
Acenaphthene	ND	---	0.0125	mg/kg dry	1	12/21/23 23:18	EPA 8270E SIM	
Acenaphthylene	ND	---	0.0125	mg/kg dry	1	12/21/23 23:18	EPA 8270E SIM	
Anthracene	ND	---	0.0125	mg/kg dry	1	12/21/23 23:18	EPA 8270E SIM	
Benz(a)anthracene	ND	---	0.0125	mg/kg dry	1	12/21/23 23:18	EPA 8270E SIM	
Benzo(a)pyrene	ND	---	0.0125	mg/kg dry	1	12/21/23 23:18	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	---	0.0125	mg/kg dry	1	12/21/23 23:18	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	---	0.0125	mg/kg dry	1	12/21/23 23:18	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	---	0.0125	mg/kg dry	1	12/21/23 23:18	EPA 8270E SIM	
Chrysene	ND	---	0.0125	mg/kg dry	1	12/21/23 23:18	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	---	0.0125	mg/kg dry	1	12/21/23 23:18	EPA 8270E SIM	
Fluoranthene	ND	---	0.0125	mg/kg dry	1	12/21/23 23:18	EPA 8270E SIM	
Fluorene	ND	---	0.0125	mg/kg dry	1	12/21/23 23:18	EPA 8270E SIM	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 16590 SE 114th Ave 23-5287 Project Manager: Jim Cooper	Report ID: A3L1289 - 01 16 24 1836
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ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-52876 A1-4 (A3L1289-04)				Matrix: Soil		Batch: 23L0853		
Indeno(1,2,3-cd)pyrene	ND	---	0.0125	mg/kg dry	1	12/21/23 23:18	EPA 8270E SIM	
Naphthalene	ND	---	0.0125	mg/kg dry	1	12/21/23 23:18	EPA 8270E SIM	
Phenanthrene	ND	---	0.0125	mg/kg dry	1	12/21/23 23:18	EPA 8270E SIM	
Pyrene	ND	---	0.0125	mg/kg dry	1	12/21/23 23:18	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 77 %</i>		<i>Limits: 44-120 %</i>		<i>1</i>	<i>12/21/23 23:18</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>68 %</i>		<i>54-127 %</i>		<i>1</i>	<i>12/21/23 23:18</i>	<i>EPA 8270E SIM</i>
23-52876 A1-5 (A3L1289-05)				Matrix: Soil		Batch: 23L0853		
Acenaphthene	ND	---	0.0122	mg/kg dry	1	12/21/23 23:43	EPA 8270E SIM	
Acenaphthylene	ND	---	0.0122	mg/kg dry	1	12/21/23 23:43	EPA 8270E SIM	
Anthracene	ND	---	0.0122	mg/kg dry	1	12/21/23 23:43	EPA 8270E SIM	
Benz(a)anthracene	ND	---	0.0122	mg/kg dry	1	12/21/23 23:43	EPA 8270E SIM	
Benzo(a)pyrene	ND	---	0.0122	mg/kg dry	1	12/21/23 23:43	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	---	0.0122	mg/kg dry	1	12/21/23 23:43	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	---	0.0122	mg/kg dry	1	12/21/23 23:43	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	---	0.0122	mg/kg dry	1	12/21/23 23:43	EPA 8270E SIM	
Chrysene	ND	---	0.0122	mg/kg dry	1	12/21/23 23:43	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	---	0.0122	mg/kg dry	1	12/21/23 23:43	EPA 8270E SIM	
Fluoranthene	0.0208	---	0.0122	mg/kg dry	1	12/21/23 23:43	EPA 8270E SIM	
Fluorene	ND	---	0.0122	mg/kg dry	1	12/21/23 23:43	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	---	0.0122	mg/kg dry	1	12/21/23 23:43	EPA 8270E SIM	
Naphthalene	ND	---	0.0122	mg/kg dry	1	12/21/23 23:43	EPA 8270E SIM	
Phenanthrene	ND	---	0.0122	mg/kg dry	1	12/21/23 23:43	EPA 8270E SIM	
Pyrene	0.0252	---	0.0122	mg/kg dry	1	12/21/23 23:43	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 74 %</i>		<i>Limits: 44-120 %</i>		<i>1</i>	<i>12/21/23 23:43</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>67 %</i>		<i>54-127 %</i>		<i>1</i>	<i>12/21/23 23:43</i>	<i>EPA 8270E SIM</i>
23-52876 A2-1 (A3L1289-06)				Matrix: Soil		Batch: 23L0853		
Acenaphthene	ND	---	0.0114	mg/kg dry	1	12/22/23 10:25	EPA 8270E SIM	
Acenaphthylene	ND	---	0.0114	mg/kg dry	1	12/22/23 10:25	EPA 8270E SIM	
Anthracene	ND	---	0.0114	mg/kg dry	1	12/22/23 10:25	EPA 8270E SIM	
Benz(a)anthracene	ND	---	0.0114	mg/kg dry	1	12/22/23 10:25	EPA 8270E SIM	
Benzo(a)pyrene	ND	---	0.0114	mg/kg dry	1	12/22/23 10:25	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	---	0.0114	mg/kg dry	1	12/22/23 10:25	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	---	0.0114	mg/kg dry	1	12/22/23 10:25	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	---	0.0114	mg/kg dry	1	12/22/23 10:25	EPA 8270E SIM	

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 16590 SE 114th Ave 23-5287 Project Manager: Jim Cooper	Report ID: A3L1289 - 01 16 24 1836
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ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-52876 A2-1 (A3L1289-06)				Matrix: Soil		Batch: 23L0853		
Chrysene	ND	---	0.0114	mg/kg dry	1	12/22/23 10:25	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	---	0.0114	mg/kg dry	1	12/22/23 10:25	EPA 8270E SIM	
Fluoranthene	ND	---	0.0114	mg/kg dry	1	12/22/23 10:25	EPA 8270E SIM	
Fluorene	ND	---	0.0114	mg/kg dry	1	12/22/23 10:25	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	---	0.0114	mg/kg dry	1	12/22/23 10:25	EPA 8270E SIM	
Naphthalene	ND	---	0.0114	mg/kg dry	1	12/22/23 10:25	EPA 8270E SIM	
Phenanthrene	ND	---	0.0114	mg/kg dry	1	12/22/23 10:25	EPA 8270E SIM	
Pyrene	ND	---	0.0114	mg/kg dry	1	12/22/23 10:25	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 80 %</i>		<i>Limits: 44-120 %</i>		<i>1</i>	<i>12/22/23 10:25</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>71 %</i>		<i>54-127 %</i>		<i>1</i>	<i>12/22/23 10:25</i>	<i>EPA 8270E SIM</i>

23-52876 A2-2 (A3L1289-07)				Matrix: Soil		Batch: 23L0853		
Acenaphthene	ND	---	0.0107	mg/kg dry	1	12/22/23 10:50	EPA 8270E SIM	
Acenaphthylene	ND	---	0.0107	mg/kg dry	1	12/22/23 10:50	EPA 8270E SIM	
Anthracene	ND	---	0.0107	mg/kg dry	1	12/22/23 10:50	EPA 8270E SIM	
Benz(a)anthracene	0.0123	---	0.0107	mg/kg dry	1	12/22/23 10:50	EPA 8270E SIM	
Benzo(a)pyrene	0.0166	---	0.0107	mg/kg dry	1	12/22/23 10:50	EPA 8270E SIM	
Benzo(b)fluoranthene	0.0250	---	0.0107	mg/kg dry	1	12/22/23 10:50	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	---	0.0107	mg/kg dry	1	12/22/23 10:50	EPA 8270E SIM	
Benzo(g,h,i)perylene	0.0211	---	0.0107	mg/kg dry	1	12/22/23 10:50	EPA 8270E SIM	
Chrysene	0.0219	---	0.0107	mg/kg dry	1	12/22/23 10:50	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	---	0.0107	mg/kg dry	1	12/22/23 10:50	EPA 8270E SIM	
Fluoranthene	0.0241	---	0.0107	mg/kg dry	1	12/22/23 10:50	EPA 8270E SIM	
Fluorene	ND	---	0.0107	mg/kg dry	1	12/22/23 10:50	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	0.0162	---	0.0107	mg/kg dry	1	12/22/23 10:50	EPA 8270E SIM	
Naphthalene	ND	---	0.0107	mg/kg dry	1	12/22/23 10:50	EPA 8270E SIM	
Phenanthrene	0.0131	---	0.0107	mg/kg dry	1	12/22/23 10:50	EPA 8270E SIM	
Pyrene	0.0285	---	0.0107	mg/kg dry	1	12/22/23 10:50	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 85 %</i>		<i>Limits: 44-120 %</i>		<i>1</i>	<i>12/22/23 10:50</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>72 %</i>		<i>54-127 %</i>		<i>1</i>	<i>12/22/23 10:50</i>	<i>EPA 8270E SIM</i>

23-52876 A2-3 (A3L1289-08)				Matrix: Soil		Batch: 23L0853		
Acenaphthene	ND	---	0.0106	mg/kg dry	1	12/22/23 11:15	EPA 8270E SIM	
Acenaphthylene	ND	---	0.0106	mg/kg dry	1	12/22/23 11:15	EPA 8270E SIM	
Anthracene	ND	---	0.0106	mg/kg dry	1	12/22/23 11:15	EPA 8270E SIM	
Benz(a)anthracene	0.0126	---	0.0106	mg/kg dry	1	12/22/23 11:15	EPA 8270E SIM	M-05

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 16590 SE 114th Ave 23-5287 Project Manager: Jim Cooper	Report ID: A3L1289 - 01 16 24 1836
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ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-52876 A2-3 (A3L1289-08)				Matrix: Soil		Batch: 23L0853		
Benzo(a)pyrene	0.0260	---	0.0106	mg/kg dry	1	12/22/23 11:15	EPA 8270E SIM	
Benzo(b)fluoranthene	0.0452	---	0.0106	mg/kg dry	1	12/22/23 11:15	EPA 8270E SIM	
Benzo(k)fluoranthene	0.0135	---	0.0106	mg/kg dry	1	12/22/23 11:15	EPA 8270E SIM	M-05
Benzo(g,h,i)perylene	0.0522	---	0.0106	mg/kg dry	1	12/22/23 11:15	EPA 8270E SIM	
Chrysene	0.0266	---	0.0106	mg/kg dry	1	12/22/23 11:15	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	---	0.0106	mg/kg dry	1	12/22/23 11:15	EPA 8270E SIM	
Fluoranthene	0.0151	---	0.0106	mg/kg dry	1	12/22/23 11:15	EPA 8270E SIM	
Fluorene	ND	---	0.0106	mg/kg dry	1	12/22/23 11:15	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	0.0344	---	0.0106	mg/kg dry	1	12/22/23 11:15	EPA 8270E SIM	
Naphthalene	0.0245	---	0.0106	mg/kg dry	1	12/22/23 11:15	EPA 8270E SIM	
Phenanthrene	ND	---	0.0106	mg/kg dry	1	12/22/23 11:15	EPA 8270E SIM	
Pyrene	0.0270	---	0.0106	mg/kg dry	1	12/22/23 11:15	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 79 %</i>		<i>Limits: 44-120 %</i>		<i>1</i>	<i>12/22/23 11:15</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>69 %</i>		<i>54-127 %</i>		<i>1</i>	<i>12/22/23 11:15</i>	<i>EPA 8270E SIM</i>
23-52876 A2-4 (A3L1289-09)				Matrix: Soil		Batch: 23L0853		
Acenaphthene	ND	---	0.0407	mg/kg dry	4	12/21/23 18:16	EPA 8270E SIM	R-04
Acenaphthylene	ND	---	0.0407	mg/kg dry	4	12/21/23 18:16	EPA 8270E SIM	
Anthracene	ND	---	0.0407	mg/kg dry	4	12/21/23 18:16	EPA 8270E SIM	
Benz(a)anthracene	ND	---	0.0407	mg/kg dry	4	12/21/23 18:16	EPA 8270E SIM	
Benzo(a)pyrene	ND	---	0.0407	mg/kg dry	4	12/21/23 18:16	EPA 8270E SIM	
Benzo(b)fluoranthene	ND	---	0.0407	mg/kg dry	4	12/21/23 18:16	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	---	0.0407	mg/kg dry	4	12/21/23 18:16	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	---	0.0407	mg/kg dry	4	12/21/23 18:16	EPA 8270E SIM	
Chrysene	ND	---	0.0407	mg/kg dry	4	12/21/23 18:16	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	---	0.0407	mg/kg dry	4	12/21/23 18:16	EPA 8270E SIM	
Fluoranthene	ND	---	0.0407	mg/kg dry	4	12/21/23 18:16	EPA 8270E SIM	
Fluorene	ND	---	0.0407	mg/kg dry	4	12/21/23 18:16	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	---	0.0407	mg/kg dry	4	12/21/23 18:16	EPA 8270E SIM	
Naphthalene	ND	---	0.0407	mg/kg dry	4	12/21/23 18:16	EPA 8270E SIM	
Phenanthrene	ND	---	0.0407	mg/kg dry	4	12/21/23 18:16	EPA 8270E SIM	
Pyrene	ND	---	0.0407	mg/kg dry	4	12/21/23 18:16	EPA 8270E SIM	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 79 %</i>		<i>Limits: 44-120 %</i>		<i>4</i>	<i>12/21/23 18:16</i>	<i>EPA 8270E SIM</i>
<i>p-Terphenyl-d14 (Surr)</i>		<i>71 %</i>		<i>54-127 %</i>		<i>4</i>	<i>12/21/23 18:16</i>	<i>EPA 8270E SIM</i>

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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 503-718-2323
 ORELAP ID: OR100062

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 16590 SE 114th Ave 23-5287 Project Manager: Jim Cooper	Report ID: A3L1289 - 01 16 24 1836
---	---	---

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-52876 A1-1 (A3L1289-01)				Matrix: Soil		Batch: 23L0591		
% Solids	75.0	---	1.00	%	1	12/18/23 03:05	EPA 8000D	
23-52876 A1-2 (A3L1289-02)				Matrix: Soil		Batch: 23L0591		
% Solids	70.7	---	1.00	%	1	12/18/23 03:05	EPA 8000D	
23-52876 A1-3 (A3L1289-03)				Matrix: Soil		Batch: 23L0591		
% Solids	76.4	---	1.00	%	1	12/18/23 03:05	EPA 8000D	
23-52876 A1-4 (A3L1289-04)				Matrix: Soil		Batch: 23L0591		
% Solids	71.8	---	1.00	%	1	12/18/23 03:05	EPA 8000D	
23-52876 A1-5 (A3L1289-05)				Matrix: Soil		Batch: 23L0591		
% Solids	72.7	---	1.00	%	1	12/18/23 03:05	EPA 8000D	
23-52876 A2-1 (A3L1289-06)				Matrix: Soil		Batch: 23L0591		
% Solids	79.4	---	1.00	%	1	12/18/23 03:05	EPA 8000D	
23-52876 A2-2 (A3L1289-07)				Matrix: Soil		Batch: 23L0591		
% Solids	83.3	---	1.00	%	1	12/18/23 03:05	EPA 8000D	
23-52876 A2-3 (A3L1289-08)				Matrix: Soil		Batch: 23L0591		
% Solids	84.3	---	1.00	%	1	12/18/23 03:05	EPA 8000D	
23-52876 A2-4 (A3L1289-09)				Matrix: Soil		Batch: 23L0591		
% Solids	87.2	---	1.00	%	1	12/18/23 03:05	EPA 8000D	

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Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 16590 SE 114th Ave 23-5287 Project Manager: Jim Cooper	Report ID: A3L1289 - 01 16 24 1836
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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23L0863 - EPA 3546 (Fuels)						Soil						
Blank (23L0863-BLK1)		Prepared: 12/21/23 12:12 Analyzed: 12/21/23 20:23										
<u>NWTPH-Dx</u>												
Diesel	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	40.0	mg/kg wet	1	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		Recovery: 85 %		Limits: 50-150 %		<i>Dilution: 1x</i>						
LCS (23L0863-BS1)		Prepared: 12/21/23 12:12 Analyzed: 12/21/23 20:43										
<u>NWTPH-Dx</u>												
Diesel	127	---	20.0	mg/kg wet	1	125	---	101	38 - 132%	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		Recovery: 87 %		Limits: 50-150 %		<i>Dilution: 1x</i>						
Duplicate (23L0863-DUP1)		Prepared: 12/21/23 12:12 Analyzed: 12/21/23 21:24										
<u>QC Source Sample: 23-52876 A1-1 (A3L1289-01)</u>												
<u>NWTPH-Dx</u>												
Diesel	ND	---	23.8	mg/kg dry	1	---	ND	---	---	---	30%	
Oil	113	---	47.6	mg/kg dry	1	---	144	---	---	24	30%	F-03
<i>Surr: o-Terphenyl (Surr)</i>		Recovery: 81 %		Limits: 50-150 %		<i>Dilution: 1x</i>						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23L0850 - EPA 3546						Soil						
Blank (23L0850-BLK1)						Prepared: 12/21/23 09:59 Analyzed: 12/21/23 18:52						C-07
<u>EPA 8082A</u>												
Aroclor 1016	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1221	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1232	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1242	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1248	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1254	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	
Aroclor 1260	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	
<i>Surr: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 60-125 %</i>		<i>Dilution: 1x</i>						
LCS (23L0850-BS1)						Prepared: 12/21/23 09:59 Analyzed: 12/21/23 19:10						C-07
<u>EPA 8082A</u>												
Aroclor 1016	0.217	---	0.0100	mg/kg wet	1	0.250	---	87	47 - 134%	---	---	
Aroclor 1260	0.237	---	0.0100	mg/kg wet	1	0.250	---	95	53 - 140%	---	---	
<i>Surr: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 104 %</i>		<i>Limits: 60-125 %</i>		<i>Dilution: 1x</i>						
Duplicate (23L0850-DUP1)						Prepared: 12/21/23 09:59 Analyzed: 12/21/23 20:03						C-07
<u>QC Source Sample: 23-52876 A1-2 (A3L1289-02)</u>												
<u>EPA 8082A</u>												
Aroclor 1016	ND	---	0.0144	mg/kg dry	1	---	ND	---	---	---	30%	R-02
Aroclor 1221	ND	---	0.0123	mg/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1232	ND	---	0.0208	mg/kg dry	1	---	ND	---	---	---	30%	R-02
Aroclor 1242	ND	---	0.0201	mg/kg dry	1	---	ND	---	---	---	30%	R-02
Aroclor 1248	ND	---	0.0281	mg/kg dry	1	---	ND	---	---	---	30%	R-02
Aroclor 1254	ND	---	0.0436	mg/kg dry	1	---	ND	---	---	---	30%	R-02
Aroclor 1260	ND	---	0.0123	mg/kg dry	1	---	ND	---	---	---	30%	
<i>Surr: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 68 %</i>		<i>Limits: 60-125 %</i>		<i>Dilution: 1x</i>						
Matrix Spike (23L0850-MS1)						Prepared: 12/21/23 09:59 Analyzed: 12/21/23 20:03						C-07
<u>QC Source Sample: 23-52876 A2-3 (A3L1289-08)</u>												
<u>EPA 8082A</u>												
Aroclor 1016	0.203	---	0.0173	mg/kg dry	1	0.258	ND	79	47 - 134%	---	---	R-02
Aroclor 1260	0.338	---	0.0781	mg/kg dry	1	0.258	ND	131	53 - 140%	---	---	R-02

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QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23L0850 - EPA 3546						Soil						
Matrix Spike (23L0850-MS1)		Prepared: 12/21/23 09:59 Analyzed: 12/21/23 20:03										
QC Source Sample: 23-52876 A2-3 (A3L1289-08)												
Surr: Decachlorobiphenyl (Surr)		Recovery: 91 %		Limits: 60-125 %		Dilution: 1x						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23L0853 - EPA 3546						Soil						
Blank (23L0853-BLK1)		Prepared: 12/21/23 10:05 Analyzed: 12/21/23 16:35										
EPA 8270E SIM												
Acenaphthene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Acenaphthylene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Anthracene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Benz(a)anthracene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Benzo(a)pyrene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Benzo(b)fluoranthene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Benzo(k)fluoranthene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Benzo(g,h,i)perylene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Chrysene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Dibenz(a,h)anthracene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Fluoranthene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Fluorene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Naphthalene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Phenanthrene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
Pyrene	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---	---
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 77 %</i>		<i>Limits: 44-120 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>75 %</i>		<i>54-127 %</i>		<i>"</i>						

LCS (23L0853-BS1)						Prepared: 12/21/23 10:05 Analyzed: 12/21/23 17:00						
EPA 8270E SIM												
Acenaphthene	0.715	---	0.0100	mg/kg wet	1	0.800	---	89	40 - 123%	---	---	---
Acenaphthylene	0.709	---	0.0100	mg/kg wet	1	0.800	---	89	32 - 132%	---	---	---
Anthracene	0.692	---	0.0100	mg/kg wet	1	0.800	---	86	47 - 123%	---	---	---
Benz(a)anthracene	0.673	---	0.0100	mg/kg wet	1	0.800	---	84	49 - 126%	---	---	---
Benzo(a)pyrene	0.697	---	0.0100	mg/kg wet	1	0.800	---	87	45 - 129%	---	---	---
Benzo(b)fluoranthene	0.690	---	0.0100	mg/kg wet	1	0.800	---	86	45 - 132%	---	---	---
Benzo(k)fluoranthene	0.692	---	0.0100	mg/kg wet	1	0.800	---	86	47 - 132%	---	---	---
Benzo(g,h,i)perylene	0.686	---	0.0100	mg/kg wet	1	0.800	---	86	43 - 134%	---	---	---
Chrysene	0.714	---	0.0100	mg/kg wet	1	0.800	---	89	50 - 124%	---	---	---
Dibenz(a,h)anthracene	0.742	---	0.0100	mg/kg wet	1	0.800	---	93	45 - 134%	---	---	---
Fluoranthene	0.748	---	0.0100	mg/kg wet	1	0.800	---	94	50 - 127%	---	---	---
Fluorene	0.710	---	0.0100	mg/kg wet	1	0.800	---	89	43 - 125%	---	---	---

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QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23L0853 - EPA 3546						Soil						
LCS (23L0853-BS1)			Prepared: 12/21/23 10:05 Analyzed: 12/21/23 17:00									
Indeno(1,2,3-cd)pyrene	0.689	---	0.0100	mg/kg wet	1	0.800	---	86	45 - 133%	---	---	
Naphthalene	0.670	---	0.0100	mg/kg wet	1	0.800	---	84	35 - 123%	---	---	
Phenanthrene	0.686	---	0.0100	mg/kg wet	1	0.800	---	86	50 - 121%	---	---	
Pyrene	0.750	---	0.0100	mg/kg wet	1	0.800	---	94	47 - 127%	---	---	
Surr: 2-Fluorobiphenyl (Surr)		Recovery: 82 %		Limits: 44-120 %		Dilution: 1x						
p-Terphenyl-d14 (Surr)		77 %		54-127 %		"						

Matrix Spike (23L0853-MS1)						Prepared: 12/21/23 10:05 Analyzed: 12/21/23 18:41						
QC Source Sample: 23-52876 A2-4 (A3L1289-09)												
EPA 8270E SIM												
Acenaphthene	0.676	---	0.0385	mg/kg dry	4	0.770	ND	88	40 - 123%	---	---	
Acenaphthylene	0.667	---	0.0385	mg/kg dry	4	0.770	ND	87	32 - 132%	---	---	
Anthracene	0.664	---	0.0385	mg/kg dry	4	0.770	ND	86	47 - 123%	---	---	
Benz(a)anthracene	0.638	---	0.0385	mg/kg dry	4	0.770	ND	83	49 - 126%	---	---	
Benzo(a)pyrene	0.675	---	0.0385	mg/kg dry	4	0.770	ND	88	45 - 129%	---	---	
Benzo(b)fluoranthene	0.681	---	0.0385	mg/kg dry	4	0.770	ND	88	45 - 132%	---	---	
Benzo(k)fluoranthene	0.685	---	0.0385	mg/kg dry	4	0.770	ND	89	47 - 132%	---	---	
Benzo(g,h,i)perylene	0.734	---	0.0385	mg/kg dry	4	0.770	0.0304	91	43 - 134%	---	---	
Chrysene	0.698	---	0.0385	mg/kg dry	4	0.770	ND	91	50 - 124%	---	---	
Dibenz(a,h)anthracene	0.706	---	0.0385	mg/kg dry	4	0.770	ND	92	45 - 134%	---	---	
Fluoranthene	0.732	---	0.0385	mg/kg dry	4	0.770	ND	95	50 - 127%	---	---	
Fluorene	0.661	---	0.0385	mg/kg dry	4	0.770	ND	86	43 - 125%	---	---	
Indeno(1,2,3-cd)pyrene	0.695	---	0.0385	mg/kg dry	4	0.770	ND	90	45 - 133%	---	---	
Naphthalene	0.694	---	0.0385	mg/kg dry	4	0.770	ND	90	35 - 123%	---	---	
Phenanthrene	0.639	---	0.0385	mg/kg dry	4	0.770	ND	83	50 - 121%	---	---	
Pyrene	0.740	---	0.0385	mg/kg dry	4	0.770	ND	96	47 - 127%	---	---	
Surr: 2-Fluorobiphenyl (Surr)		Recovery: 81 %		Limits: 44-120 %		Dilution: 4x						
p-Terphenyl-d14 (Surr)		70 %		54-127 %		"						

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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23L0591 - Total Solids (Dry Weight) - 2022						Soil						

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

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SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23L0863</u>							
A3L1289-01	Soil	NWTPH-Dx	12/13/23 15:25	12/21/23 12:12	11.07g/5mL	10g/5mL	0.90
A3L1289-02	Soil	NWTPH-Dx	12/13/23 15:29	12/21/23 12:12	11.4g/5mL	10g/5mL	0.88
A3L1289-03	Soil	NWTPH-Dx	12/13/23 15:31	12/21/23 12:12	11.01g/5mL	10g/5mL	0.91
A3L1289-04	Soil	NWTPH-Dx	12/13/23 15:36	12/21/23 12:12	11.17g/5mL	10g/5mL	0.90
A3L1289-05	Soil	NWTPH-Dx	12/13/23 15:40	12/21/23 12:12	11.06g/5mL	10g/5mL	0.90
A3L1289-06	Soil	NWTPH-Dx	12/13/23 15:51	12/21/23 12:12	11.84g/5mL	10g/5mL	0.85
A3L1289-07	Soil	NWTPH-Dx	12/13/23 15:54	12/21/23 12:12	11.47g/5mL	10g/5mL	0.87
A3L1289-08RE1	Soil	NWTPH-Dx	12/13/23 15:59	12/21/23 12:12	11.57g/5mL	10g/5mL	0.86
A3L1289-09RE1	Soil	NWTPH-Dx	12/13/23 16:02	12/21/23 12:12	11.1g/5mL	10g/5mL	0.90

Polychlorinated Biphenyls by EPA 8082A

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23L0850</u>							
A3L1289-02	Soil	EPA 8082A	12/13/23 15:29	12/21/23 09:59	11.41g/5mL	10g/5mL	0.88
A3L1289-04	Soil	EPA 8082A	12/13/23 15:36	12/21/23 09:59	11.5g/5mL	10g/5mL	0.87
A3L1289-06	Soil	EPA 8082A	12/13/23 15:51	12/21/23 09:59	11.45g/5mL	10g/5mL	0.87
A3L1289-08	Soil	EPA 8082A	12/13/23 15:59	12/21/23 09:59	11.45g/5mL	10g/5mL	0.87

Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23L0853</u>							
A3L1289-01	Soil	EPA 8270E SIM	12/13/23 15:25	12/21/23 10:05	11.04g/5mL	10g/5mL	0.91
A3L1289-02	Soil	EPA 8270E SIM	12/13/23 15:29	12/21/23 10:05	11.15g/5mL	10g/5mL	0.90
A3L1289-03	Soil	EPA 8270E SIM	12/13/23 15:31	12/21/23 10:05	11.68g/5mL	10g/5mL	0.86
A3L1289-04	Soil	EPA 8270E SIM	12/13/23 15:36	12/21/23 10:05	11.17g/5mL	10g/5mL	0.90
A3L1289-05	Soil	EPA 8270E SIM	12/13/23 15:40	12/21/23 10:05	11.31g/5mL	10g/5mL	0.88
A3L1289-06	Soil	EPA 8270E SIM	12/13/23 15:51	12/21/23 10:05	11.09g/5mL	10g/5mL	0.90
A3L1289-07	Soil	EPA 8270E SIM	12/13/23 15:54	12/21/23 10:05	11.25g/5mL	10g/5mL	0.89
A3L1289-08	Soil	EPA 8270E SIM	12/13/23 15:59	12/21/23 10:05	11.15g/5mL	10g/5mL	0.90
A3L1289-09	Soil	EPA 8270E SIM	12/13/23 16:02	12/21/23 10:05	11.27g/5mL	10g/5mL	0.89

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Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 16590 SE 114th Ave 23-5287 Project Manager: Jim Cooper	Report ID: A3L1289 - 01 16 24 1836
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SAMPLE PREPARATION INFORMATION

Percent Dry Weight

Prep: Total Solids (Dry Weight) - 2022

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23L0591</u>							
A3L1289-01	Soil	EPA 8000D	12/13/23 15:25	12/15/23 09:39			NA
A3L1289-02	Soil	EPA 8000D	12/13/23 15:29	12/15/23 09:39			NA
A3L1289-03	Soil	EPA 8000D	12/13/23 15:31	12/15/23 09:39			NA
A3L1289-04	Soil	EPA 8000D	12/13/23 15:36	12/15/23 09:39			NA
A3L1289-05	Soil	EPA 8000D	12/13/23 15:40	12/15/23 09:39			NA
A3L1289-06	Soil	EPA 8000D	12/13/23 15:51	12/15/23 09:39			NA
A3L1289-07	Soil	EPA 8000D	12/13/23 15:54	12/15/23 09:39			NA
A3L1289-08	Soil	EPA 8000D	12/13/23 15:59	12/15/23 09:39			NA
A3L1289-09	Soil	EPA 8000D	12/13/23 16:02	12/15/23 09:39			NA

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QUALIFIER DEFINITIONS

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

Apex Laboratories

- C-07** Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
- 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.
- M-05** Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- R-04** Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.
- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.

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---	---	---

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

- DET Analyte DETECTED at or above the detection or reporting limit.
- ND Analyte NOT DETECTED at or above the detection or reporting limit.
- NR Result Not Reported.
- RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

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

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

- Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as "dry", "wet", or "" (blank) designation.
- "dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
- "wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
- " " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

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

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

Miscellaneous Notes:

- " --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- " *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to 1/2 the Reporting Limit (RL).
-For Blank hits falling between 1/2 the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

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Cameron O'Brien, Project Manager



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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the 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.

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.

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Cameron O'Brien, Project Manager



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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 exception 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 provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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Beaverton, OR 97005
Project: Default- Env Dept.
Project Number: 16590 SE 114th Ave 23-5287
Project Manager: Jim Cooper
Report ID: A3L1289 - 01 16 24 1836

APEX LABS COOLER RECEIPT FORM

Client: Alpha Element WO#: A3 L1289

Project/Project #: 16590 SE 114th Ave 23-52876

Delivery Info:

Date/time received: 12/14/23 @ 1620 By: EST

Delivered by: Apex X Client ESS FedEx UPS Radio Morgan SDS Evergreen Other

Cooler Inspection Date/time inspected: 12/14/23 @ 1649 By: EST

Chain of Custody included? Yes X No

Signed/dated by client? Yes X No

Table with 7 columns: Cooler #1 to Cooler #7. Rows include Temperature (0.9), Custody seals (N), Received on ice (Y), Temp. blanks (Y), Ice type (Gel), and Condition (In/Out).

Cooler out of temp? (Y/N) 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: 12/14/23 @ 16:52 By: APW

All samples intact? Yes X No Comments:

Bottle labels/COCs agree? Yes X No Comments: No D/T on COCs.

COC/container discrepancies form initiated? Yes No X

Containers/volumes received appropriate for analysis? Yes X No Comments:

Do VOA vials have visible headspace? Yes No NA X

Comments:

Water samples: pH checked: Yes No NA X pH appropriate? Yes No NA X pH ID:

Comments:

Additional information:

Labeled by: APW

Witness: ALK

Cooler Inspected by: EST

Form Y-003 R-01

Apex Laboratories

CABri

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
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503-718-2323
ORELAP ID: OR100062

Wednesday, November 22, 2023

Jim Cooper
Alpha Environmental
11080 SW Allen Blvd, Suite 100
Beaverton, OR 97005

RE: A3K0792 - Default- Env Dept. - 16590 SE 114th Ave 23-52876

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 A3K0792, which was received by the laboratory on 11/1/2023 at 4:27:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: cobrien@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		
<u>Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.</u>		
(See Cooler Receipt Form for details)		
Default Cooler	2.8	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.



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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

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Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 16590 SE 114th Ave 23-5287 Project Manager: Jim Cooper	Report ID: A3K0792 - 11 22 23 1334
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
23-52876 S1	A3K0792-01	Soil	11/01/23 09:40	11/01/23 16:27

Apex Laboratories

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Cameron O'Brien, Project Manager



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ANALYTICAL CASE NARRATIVE

Work Order: A3K0792	Apex Laboratories
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Amended Report Revision 1

This report supersedes all previous reports.

The Final Report has been amended to include 8082 PCBs results for sample 23-52876 S1 (Apex Lab WO A3K0792-01).

Cameron O'Brien
Project Manager
11/15/23

Apex Laboratories

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ANALYTICAL REPORT

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<p>Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005</p>	<p>Project: Default- Env Dept. Project Number: 16590 SE 114th Ave 23-5287 Project Manager: Jim Cooper</p>	<p style="text-align: right;">Report ID: A3K0792 - 11 22 23 1334</p>
--	--	--

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-52876 S1 (A3K0792-01)				Matrix: Soil		Batch: 23K0647		C-07
Aroclor 1016	ND	---	0.0283	mg/kg dry	1	11/16/23 18:31	EPA 8082A	R-02
Aroclor 1221	ND	---	0.0327	mg/kg dry	1	11/16/23 18:31	EPA 8082A	R-02
Aroclor 1232	ND	---	0.127	mg/kg dry	1	11/16/23 18:31	EPA 8082A	R-02
Aroclor 1242	ND	---	0.0381	mg/kg dry	1	11/16/23 18:31	EPA 8082A	R-02
Aroclor 1248	ND	---	0.0366	mg/kg dry	1	11/16/23 18:31	EPA 8082A	R-02
Aroclor 1254	ND	---	0.0735	mg/kg dry	1	11/16/23 18:31	EPA 8082A	R-02
Aroclor 1260	ND	---	0.0473	mg/kg dry	1	11/16/23 18:31	EPA 8082A	R-02
<i>Surrogate: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 95 %</i>		<i>Limits: 60-125 %</i>		<i>1</i>	<i>11/16/23 18:31</i>	<i>EPA 8082A</i>

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Cameron O'Brien, Project Manager



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11080 SW Allen Blvd, Suite 100
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Project: **Default- Env Dept.**
Project Number: **16590 SE 114th Ave 23-5287**
Project Manager: **Jim Cooper**

Report ID:
A3K0792 - 11 22 23 1334

ANALYTICAL SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-52876 S1 (A3K0792-01)				Matrix: Soil				
Batch: 23K0153								
Arsenic	ND	---	0.100	mg/L	10	11/03/23 15:54	1311/6020B	
Barium	ND	---	5.00	mg/L	10	11/03/23 15:54	1311/6020B	
Cadmium	ND	---	0.100	mg/L	10	11/03/23 15:54	1311/6020B	
Chromium	ND	---	0.100	mg/L	10	11/03/23 15:54	1311/6020B	
Lead	ND	---	0.0500	mg/L	10	11/03/23 15:54	1311/6020B	
Mercury	ND	---	0.00700	mg/L	10	11/03/23 15:54	1311/6020B	
Selenium	ND	---	0.100	mg/L	10	11/03/23 15:54	1311/6020B	
Silver	ND	---	0.100	mg/L	10	11/03/23 15:54	1311/6020B	

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Cameron O'Brien, Project Manager



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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-52876 S1 (A3K0792-01)				Matrix: Soil		Batch: 23K0598		
% Solids	92.1	---	1.00	%	1	11/16/23 04:14	EPA 8000D	

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---	---	---

ANALYTICAL SAMPLE RESULTS

TCLP Extraction by EPA 1311

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
23-52876 S1 (A3K0792-01)				Matrix: Soil		Batch: 23K0097		
TCLP Extraction	PREP	---		N/A	1	11/02/23 15:42	EPA 1311	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 23K0647 - EPA 3546						Soil							
Blank (23K0647-BLK1)		Prepared: 11/16/23 06:33 Analyzed: 11/16/23 17:55						C-07					
<u>EPA 8082A</u>													
Aroclor 1016	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---		
Aroclor 1221	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---		
Aroclor 1232	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---		
Aroclor 1242	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---		
Aroclor 1248	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---		
Aroclor 1254	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---		
Aroclor 1260	ND	---	0.0100	mg/kg wet	1	---	---	---	---	---	---		
<i>Surr: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 92 %</i>		<i>Limits: 60-125 %</i>		<i>Dilution: 1x</i>							
LCS (23K0647-BS1)						C-07							
		Prepared: 11/16/23 06:33 Analyzed: 11/16/23 18:13											
<u>EPA 8082A</u>													
Aroclor 1016	0.205	---	0.0100	mg/kg wet	1	0.250	---	82	47 - 134%	---	---		
Aroclor 1260	0.228	---	0.0100	mg/kg wet	1	0.250	---	91	53 - 140%	---	---		
<i>Surr: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 60-125 %</i>		<i>Dilution: 1x</i>							

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

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QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23K0153 - EPA 1311/3015A												
Soil												
Blank (23K0153-BLK1)												
Prepared: 11/03/23 10:07 Analyzed: 11/03/23 15:15												
1311/6020B												
Arsenic	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLP
Barium	ND	---	5.00	mg/L	10	---	---	---	---	---	---	TCLP
Cadmium	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLP
Chromium	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLP
Lead	ND	---	0.0500	mg/L	10	---	---	---	---	---	---	TCLP
Mercury	ND	---	0.00700	mg/L	10	---	---	---	---	---	---	TCLP
Selenium	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLP
Silver	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLP
LCS (23K0153-BS1)												
Prepared: 11/03/23 10:07 Analyzed: 11/03/23 15:20												
1311/6020B												
Arsenic	4.99	---	0.100	mg/L	10	5.00	---	100	80 - 120%	---	---	TCLP
Barium	11.7	---	5.00	mg/L	10	10.0	---	117	80 - 120%	---	---	TCLP,Q-4 1
Cadmium	1.06	---	0.100	mg/L	10	1.00	---	106	80 - 120%	---	---	TCLP
Chromium	4.86	---	0.100	mg/L	10	5.00	---	97	80 - 120%	---	---	TCLP
Lead	5.91	---	0.0500	mg/L	10	5.00	---	118	80 - 120%	---	---	TCLP,Q-4 1
Mercury	0.100	---	0.00700	mg/L	10	0.100	---	100	80 - 120%	---	---	TCLP
Selenium	1.01	---	0.100	mg/L	10	1.00	---	101	80 - 120%	---	---	TCLP
Silver	1.03	---	0.100	mg/L	10	1.00	---	103	80 - 120%	---	---	TCLP
Matrix Spike (23K0153-MS3)												
Prepared: 11/03/23 10:07 Analyzed: 11/03/23 15:59												
QC Source Sample: 23-52876 S1 (A3K0792-01)												
1311/6020B												
Arsenic	5.00	---	0.100	mg/L	10	5.00	ND	100	50 - 150%	---	---	
Barium	12.2	---	5.00	mg/L	10	10.0	ND	122	50 - 150%	---	---	Q-41
Cadmium	1.05	---	0.100	mg/L	10	1.00	ND	105	50 - 150%	---	---	
Chromium	4.83	---	0.100	mg/L	10	5.00	ND	97	50 - 150%	---	---	
Lead	5.99	---	0.0500	mg/L	10	5.00	ND	120	50 - 150%	---	---	Q-41
Mercury	0.102	---	0.00700	mg/L	10	0.100	ND	102	50 - 150%	---	---	
Selenium	1.02	---	0.100	mg/L	10	1.00	ND	102	50 - 150%	---	---	
Silver	1.03	---	0.100	mg/L	10	1.00	ND	103	50 - 150%	---	---	

Apex Laboratories

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 16590 SE 114th Ave 23-5287 Project Manager: Jim Cooper	Report ID: A3K0792 - 11 22 23 1334
---	--	--

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23K0598 - Total Solids (Dry Weight) - 2022						Soil						

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

Apex Laboratories

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Cameron O'Brien, Project Manager



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6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Alpha Environmental

11080 SW Allen Blvd, Suite 100

Beaverton, OR 97005

Project: **Default- Env Dept.**

Project Number: **16590 SE 114th Ave 23-5287**

Project Manager: **Jim Cooper**

Report ID:

A3K0792 - 11 22 23 1334

SAMPLE PREPARATION INFORMATION

Polychlorinated Biphenyls by EPA 8082A

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23K0647							
A3K0792-01	Soil	EPA 8082A	11/01/23 09:40	11/16/23 06:33	10.02g/5mL	10g/5mL	1.00

TCLP Metals by EPA 6020B (ICPMS)

Prep: EPA 1311/3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23K0153							
A3K0792-01	Soil	1311/6020B	11/01/23 09:40	11/03/23 10:07	10mL/50mL	10mL/50mL	1.00

Percent Dry Weight

Prep: Total Solids (Dry Weight) - 2022

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23K0598							
A3K0792-01	Soil	EPA 8000D	11/01/23 09:40	11/15/23 19:20			NA

TCLP Extraction by EPA 1311

Prep: EPA 1311 (TCLP)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23K0097							
A3K0792-01	Soil	EPA 1311	11/01/23 09:40	11/02/23 15:42	100.4g/2000g	100g/2000g	NA

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Cameron O'Brien, Project Manager



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Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 16590 SE 114th Ave 23-5287 Project Manager: Jim Cooper	Report ID: A3K0792 - 11 22 23 1334
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QUALIFIER DEFINITIONS

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

Apex Laboratories

- C-07** Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
- Q-41** Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- R-02** The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- TCLP** This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23K0097.

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---	---	---

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

- DET Analyte DETECTED at or above the detection or reporting limit.
- ND Analyte NOT DETECTED at or above the detection or reporting limit.
- NR Result Not Reported.
- RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

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

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

- Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as "dry", "wet", or "" (blank) designation.
- "dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
- "wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
- "" Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

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

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

Miscellaneous Notes:

- " --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- " *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to 1/2 the Reporting Limit (RL).
-For Blank hits falling between 1/2 the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

Apex Laboratories

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Cameron O'Brien, Project Manager



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

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

Table with 3 columns: Client (Alpha Environmental), Project (Default- Env Dept.), and Report ID (A3K0792 - 11 22 23 1334)

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

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.

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.

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.

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

Cameron O'Brien signature

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ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 16590 SE 114th Ave 23-5287 Project Manager: Jim Cooper	Report ID: A3K0792 - 11 22 23 1334
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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 exception 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 provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

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ANALYTICAL REPORT

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 16590 SE 114th Ave 23-5287 Project Manager: Jim Cooper	Report ID: A3K0792 - 11 22 23 1334
---	---	---

APEX LABS
6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

CHAIN OF CUSTODY

Company: ALPHA Project Mgr: Jim Cooper Project Name: 16590 SE 114th Ave Lab # A3K0792 COC of _____

Address: _____ Project # 23-52876 PO # _____

Phone: _____ Email: _____

Sampled by: SC

Site Location: _____

State: OR

County: CLACK

SAMPLE ID: S1

DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-DX	NWTPH-GX	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pesticides	RCRA Metals (8)	Priority Metals (13) Al, Sb, As, Ba, Be, Bi, Cd, Cr, Cs, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Ti, V, Zn	TOTAL DISS. TCLP	TCLP Metals (8)	Hold Sample	Frozen Archive	
																					ANALYSIS REQUEST
11/123	9:40	S	1																		

Standard Turn Around Time (TAT) = 10 Business Days

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

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature: <u>[Signature]</u> Printed Name: <u>Jim Cooper</u> Company: <u>ALPHA</u>	RECEIVED BY: Signature: <u>[Signature]</u> Printed Name: <u>Eli Ojima</u> Company: <u>APEX LABS</u>
Date: <u>11/123</u>	Date: <u>11/123</u>
Time: <u>2:45</u>	Time: <u>1627</u>

Form Y-002 R-00

Apex Laboratories

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[Signature]

Cameron O'Brien, Project Manager



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

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

Alpha Environmental 11080 SW Allen Blvd, Suite 100 Beaverton, OR 97005	Project: Default- Env Dept. Project Number: 16590 SE 114th Ave 23-5287 Project Manager: Jim Cooper	Report ID: A3K0792 - 11 22 23 1334
---	---	---

APEX LABS COOLER RECEIPT FORM

Client: Alpha Element WO#: A3 K0792

Project/Project #: 16590 SE 114th Ave 23-5287

Delivery Info:

Date/time received: 11/1/23 @ 1627 By: EST

Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Other

Cooler Inspection Date/time inspected: 11/1/23 @ 1652 By: EST

Chain of Custody included? Yes No

Signed/dated by client? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>2.8</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>Y</u>						
Ice type: (Gel/Real/Other)	<u>gel</u>						
Condition (In/Out):	<u>IN</u>						

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

Green dots applied to out of temperature samples? Yes No

Out of temperature samples form initiated? Yes No

Sample Inspection: Date/time inspected: 11-1-23 @ 1710 By: DSJ

All samples intact? Yes No Comments: _____

Bottle labels/COCs agree? Yes No Comments: No Date or Time on Containers

COC/container discrepancies form initiated? Yes No

Containers/volumes received appropriate for analysis? Yes No Comments: _____

Do VOA vials have visible headspace? Yes No NA

Comments: _____

Water samples: pH checked: Yes No NA pH appropriate? Yes No NA pH ID: _____

Comments: _____

Additional information: _____

Labeled by: DSJ Witness: AAW Cooler Inspected by: EST

Form Y-003 R-01

Apex Laboratories

Cameron O'Brien

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Cameron O'Brien, Project Manager



APPENDIX C:

RECEIPTS



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

Reprint
 Ticket# 1705755

Customer Name ALPHAENVSERV ALPHA ENVIRONMEN Carrier DANIEL KOCH 96 SOLO
 Ticket Date 12/12/2023 Vehicle# 96 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver JOEY
 Hauling Ticket# Check#
 Route Billing # 0002041
 State Waste Code Gen EPA ID
 Manifest NA
 Destination Grid
 PO
 Profile 141593OR (PCS)
 Generator 133-CLACKAMAS COUNTY 16590 CLACKAMAS COUNTY HOUSING ABND COM DEV 16590 SE 11

	Time	Scale	Operator	Inbound	Gross	48120 lb
In	12/12/2023 10:50:39	Inbound 2	mmalone2		Tare	23740 lb
Out	12/12/2023 10:50:39		mmalone2		Net	24380 lb
					Tons	12.19

Comments

Consumer Comments? We want to know. Please call.

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ENVCLEANUP RGPCS-	100	12.19	Tons				CLACK-IN
2 ENERGY-Energy Surc	100		%				

Total Tax
 Total Ticket

Driver`s Signature



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

Reprint
 Ticket# 1705768

Customer Name	ALPHAENVSERV ALPHA ENVIRONMEN	Carrier	ODELL RED SOLO	Volume
Ticket Date	12/12/2023	Vehicle#	1-SOLO	
Payment Type	Credit Account	Container		
Manual Ticket#		Driver	PETER	
Hauling Ticket#		Check#		
Route		Billing #	0002041	
State Waste Code		Gen EPA ID		
Manifest	NA			
Destination		Grid		
PO				
Profile	141593OR (PCS)			
Generator	133-CLACKAMAS COUNTY 16590 CLACKAMAS COUNTY HOUSING ABND COM DEV 16590 SE 11			

	Time	Scale	Operator	Inbound	Gross	43000 lb
In	12/12/2023 11:09:02	Inbound 2	mmalone2		Tare	25260 lb
Out	12/12/2023 11:45:17	Outbound	tlong5		Net	17740 lb
					Tons	8.87

Comments

Consumer Comments? We want to know. Please call.

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ENVCLEANUP RGPCS-	100	8.87	Tons			CLACK-IN
2	ENERGY-Energy Surc	100	%				CLACK-IN

Total Tax
 Total Ticket

Driver`s Signature



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

Reprint
 Ticket# 1705775

Customer Name	ALPHAENVSERV ALPHA ENVIRONMEN	Carrier	RJ SELLS	Volume
Ticket Date	12/12/2023	Vehicle#	2-solo	
Payment Type	Credit Account	Container		
Manual Ticket#		Driver	bob	
Hauling Ticket#		Check#		
Route		Billing #	0002041	
State Waste Code		Gen EPA ID		
Manifest	na			
Destination		Grid		
PO				
Profile	141593OR (PCS)			
Generator	133-CLACKAMAS COUNTY 16590 CLACKAMAS COUNTY HOUSING ABND COM DEV 16590 SE 11			

	Time	Scale	Operator	Inbound	Gross	55860 lb
In	12/12/2023 11:59:31	Inbound 1	tlong5		Tare	29180 lb
Out	12/12/2023 11:59:31		tlong5		Net	26680 lb
					Tons	13.34

Comments

Consumer Comments? We want to know. Please call.

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ENVCLEANUP RGPCS-	100	13.34	Tons				CLACK-IN
2 ENERGY-Energy Surc	100		%				

Total Tax
 Total Ticket

Driver`s Signature



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

Reprint
 Ticket# 1705807

Customer Name ALPHAENVSERV ALPHA ENVIRONMEN Carrier DANIEL KOCH 96 SOLO
 Ticket Date 12/12/2023 Vehicle# 96 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver JOEY
 Hauling Ticket# Check#
 Route Billing # 0002041
 State Waste Code Gen EPA ID
 Manifest NA
 Destination Grid
 PO
 Profile 141593OR (PCS)
 Generator 133-CLACKAMAS COUNTY 16590 CLACKAMAS COUNTY HOUSING ABND COM DEV 16590 SE 11

	Time	Scale	Operator	Inbound	Gross	47580 lb
In	12/12/2023 14:00:56	Inbound 1	mmalone2		Tare	23740 lb
Out	12/12/2023 14:00:56		mmalone2		Net	23840 lb
					Tons	11.92

Comments

Consumer Comments? We want to know. Please call.

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ENVCLEANUP RGPCS-	100	11.92	Tons				CLACK-IN
2 ENERGY-Energy Surc	100		%				CLACK-IN

Total Tax
 Total Ticket

Driver`s Signature



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

Reprint
 Ticket# 1705815

Customer Name	ALPHAENVSERV ALPHA ENVIRONMEN	Carrier	ODELL RED SOLO	Volume
Ticket Date	12/12/2023	Vehicle#	1-SOLO	
Payment Type	Credit Account	Container		
Manual Ticket#		Driver	PETER	
Hauling Ticket#		Check#		
Route		Billing #	0002041	
State Waste Code		Gen EPA ID		
Manifest	NA			
Destination		Grid		
PO				
Profile	141593OR (PCS)			
Generator	133-CLACKAMAS COUNTY 16590 CLACKAMAS COUNTY HOUSING ABND COM DEV 16590 SE 11			

	Time	Scale	Operator	Inbound	Gross	48560 lb
In	12/12/2023 14:34:20	Inbound 1	mmalone2		Tare	25260 lb
Out	12/12/2023 14:34:20		mmalone2		Net	23300 lb
					Tons	11.65

Comments

Consumer Comments? We want to know. Please call.

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ENVCLEANUP RGPCS-	100	11.65	Tons				CLACK-IN
2 ENERGY-Energy Surc	100		%				CLACK-IN

Total Tax
 Total Ticket

Driver`s Signature



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

Reprint
 Ticket# 1705820

Customer Name	ALPHAENVSERV ALPHA ENVIRONMEN	Carrier	RJ SELLS	Volume
Ticket Date	12/12/2023	Vehicle#	2-solo	
Payment Type	Credit Account	Container		
Manual Ticket#		Driver	bob	
Hauling Ticket#		Check#		
Route		Billing #	0002041	
State Waste Code		Gen EPA ID		
Manifest	NA			
Destination		Grid		
PO				
Profile	141593OR (PCS)			
Generator	133-CLACKAMAS COUNTY 16590 CLACKAMAS COUNTY HOUSING ABND COM DEV 16590 SE 11			

	Time	Scale	Operator	Inbound	Gross	59060 lb
In	12/12/2023 15:38:00	Inbound 1	mmalone2		Tare	29180 lb
Out	12/12/2023 15:38:00		mmalone2		Net	29880 lb
					Tons	14.94

Comments

Consumer Comments? We want to know. Please call.

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ENVCLEANUP RGPCS-	100	14.94	Tons			CLACK-IN
2	ENERGY-Energy Surc	100	%				

Total Tax
 Total Ticket

Driver`s Signature



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

Reprint
 Ticket# 1705866

Customer Name	ALPHAENVSERV ALPHA ENVIRONMEN	Carrier	ODELL RED SOLO	Volume
Ticket Date	12/13/2023	Vehicle#	1-SOLO	
Payment Type	Credit Account	Container		
Manual Ticket#		Driver	PETER	
Hauling Ticket#		Check#		
Route		Billing #	0002041	
State Waste Code		Gen EPA ID		
Manifest	NA			
Destination		Grid		
PO				
Profile	141593OR (PCS)			
Generator	133-CLACKAMAS COUNTY 16590	CLACKAMAS COUNTY HOUSING ABND COM DEV	16590 SE 11	

	Time	Scale	Operator	Inbound	Gross	47780 lb
In	12/13/2023 09:34:02	Inbound 1	tlong5		Tare	25260 lb
Out	12/13/2023 09:34:02		tlong5		Net	22520 lb
					Tons	11.26

Comments

Consumer Comments? We want to know. Please call.

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ENVCLEANUP RGPCS-	100	11.26	Tons				CLACK-IN
2 ENERGY-Energy Surc	100		%				CLACK-IN

Total Tax
 Total Ticket

Driver`s Signature



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

Reprint
 Ticket# 1705869

Customer Name ALPHAENVSERV ALPHA ENVIRONMEN Carrier DANIEL KOCH 96 SOLO
 Ticket Date 12/13/2023 Vehicle# 96 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver JOEY
 Hauling Ticket# Check#
 Route Billing # 0002041
 State Waste Code Gen EPA ID
 Manifest na
 Destination Grid
 PO
 Profile 141593OR (PCS)
 Generator 133-CLACKAMAS COUNTY 16590 CLACKAMAS COUNTY HOUSING ABND COM DEV 16590 SE 11

	Time	Scale	Operator	Inbound	Gross	47520 lb
In	12/13/2023 09:45:05	Inbound 2	lgillila		Tare	23740 lb
Out	12/13/2023 09:45:05		lgillila		Net	23780 lb
					Tons	11.89

Comments

Consumer Comments? We want to know. Please call.

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ENVCLEANUP RGPCS-	100	11.89	Tons				CLACK-IN
2 ENERGY-Energy Surc	100		%				

Total Tax
 Total Ticket

Driver`s Signature



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

Reprint
 Ticket# 1705876

Customer Name	ALPHAENVSERV ALPHA ENVIRONMEN	Carrier	RJ SELLS	Volume
Ticket Date	12/13/2023	Vehicle#	2-solo	
Payment Type	Credit Account	Container		
Manual Ticket#		Driver	bob	
Hauling Ticket#		Check#		
Route		Billing #	0002041	
State Waste Code		Gen EPA ID		
Manifest	na			
Destination		Grid		
PO				
Profile	141593OR (PCS)			
Generator	133-CLACKAMAS COUNTY 16590 CLACKAMAS COUNTY HOUSING ABND COM DEV 16590 SE 11			

	Time	Scale	Operator	Inbound	Gross	55160 lb
In	12/13/2023 10:05:41	Inbound 1	mmalone2		Tare	29180 lb
Out	12/13/2023 10:05:41		mmalone2		Net	25980 lb
					Tons	12.99

Comments

Consumer Comments? We want to know. Please call.

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ENVCLEANUP RGPCS-	100	12.99	Tons			CLACK-IN
2	ENERGY-Energy Surc	100	%				

Total Tax
 Total Ticket

Driver`s Signature



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

Reprint
 Ticket# 1705902

Customer Name	ALPHAENVSERV ALPHA ENVIRONMEN	Carrier	ODELL RED SOLO	Volume
Ticket Date	12/13/2023	Vehicle#	1-SOLO	
Payment Type	Credit Account	Container		
Manual Ticket#		Driver	PETER	
Hauling Ticket#		Check#		
Route		Billing #	0002041	
State Waste Code		Gen EPA ID		
Manifest	NA			
Destination		Grid		
PO				
Profile	141593OR (PCS)			
Generator	133-CLACKAMAS COUNTY 16590	CLACKAMAS COUNTY HOUSING ABND COM DEV	16590 SE 11	

	Time	Scale	Operator	Inbound	Gross	
In	12/13/2023 12:39:53	Inbound 1	LGILLILA		47280 lb	
Out	12/13/2023 12:39:53		LGILLILA		Tare	25260 lb
					Net	22020 lb
					Tons	11.01

Comments

Consumer Comments? We want to know. Please call.

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ENVCLEANUP RGPCS-	100	11.01	Tons			CLACK-IN
2	ENERGY-Energy Surc	100	%				CLACK-IN

Total Tax
 Total Ticket

Driver`s Signature



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

Reprint
 Ticket# 1705909

Customer Name ALPHAENVSERV ALPHA ENVIRONMEN Carrier DANIEL KOCH 96 SOLO
 Ticket Date 12/13/2023 Vehicle# 96 Volume
 Payment Type Credit Account Container
 Manual Ticket# Driver JOEY
 Hauling Ticket# Check#
 Route Billing # 0002041
 State Waste Code Gen EPA ID
 Manifest na
 Destination Grid
 PO
 Profile 141593OR (PCS)
 Generator 133-CLACKAMAS COUNTY 16590 CLACKAMAS COUNTY HOUSING ABND COM DEV 16590 SE 11

	Time	Scale	Operator	Inbound	Gross	53320 lb
In	12/13/2023 13:10:58	Inbound 2	dkachmar		Tare	23740 lb
Out	12/13/2023 13:10:58		dkachmar		Net	29580 lb
					Tons	14.79

Comments

Consumer Comments? We want to know. Please call.

Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 ENVCLEANUP RGPCS-	100	14.79	Tons				CLACK-IN
2 ENERGY-Energy Surc	100		%				

Total Tax
 Total Ticket

Driver`s Signature



Farmington Aggregate

Ticket No.: 59284883

Date: 12/12/2023 Time: 12:37:18PM

Vehicle: SEL2 RJ SELLS SOLO
Customer: 497974 ALPHA ENVIRONMENTAL SERVICES INC
Order: 5010119824 16590 NW 114TH AVE, CLACKAMAS

P.O.:
Product: 2499340 3/4"- 0 CRUSHED

ALPHA ENVIRONMENTAL SERVICES

TERMS: NET - CASH SALES PAYABLE UPON PICKUP OR DELIVERY. CHARGE SALES DUE AND PAYABLE BY THE 10TH OF MONTH FOLLOWING PURCHASE. A service charge of 1.5% per month, or a minimum of \$1.00, will be made on the unpaid balance at the end of the following month's billing cycle. This is an ANNUAL PERCENTAGE RATE OF 18%. PERSONAL NOTICE: We reserve the right to claim lien for all labor and material furnished on this job according to OREGON REVISED STATUTE 87.021

15.38 Ton

Received: _____

CUSTOMER COPY

Table with 3 columns: Pounds, Tons, Metric. Rows: Gross (60060, 30.03, 27.24), Tare (29300, 14.65, 13.29), Net (30760, 15.38, 13.95)

Table with 2 columns: Item, Value. Rows: Ordered (269.15), Remaining, Today: (42.85 Loads: 3)

Weighmaster: Kimberly Beierle

As the owner or contractor for this job, I hereby save and hold harmless from any and all liability Knife River or their driver as a result of the Knife River Vehicle being driven inside property or curblines. I also accept full responsibility for any property damage or any equipment damage to Knife River which may occur beyond this point. I further agree to pay any towing or stand-by charges



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Coffee Lake Quarry
11911 SW Waldo Way
Sherwood, OR 97140
FOR INFO PLEASE CALL
(503)-944-3570

Ticket No.: **14635493**

Date: 12/12/2023 Time: 8:05:09AM

Vehicle: SEL2 RJ SELLS SOLO
Customer: 497974 ALPHA ENVIRONMENTAL SERVICES INC
Order: 5010119824 16590 SE 114TH AVE CLACKAMAS

P.O.:

Product: 2499340 3/4"- 0 CRUSHED

15.53 Ton

845 NW 114TH AVE, BEAVERTON

TERMS: NET - CASH SALES PAYABLE UPON PICKUP OR DELIVERY. CHARGE SALES DUE AND PAYABLE BY THE 10TH OF MONTH FOLLOWING PURCHASE. A service charge of 1.5% per month, or a minimum of \$1.00, will be made on the unpaid balance at the end of the following month's billing cycle. This is an ANNUAL PERCENTAGE RATE OF 18%. PERSONAL NOTICE: We reserve the right to claim lien for all labor and material furnished on this job according to OREGON REVISED STATUTE 87.021

Received: _____

CUSTOMER COPY

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	60340	30.17	27.37
Tare	29280 *	14.64 *	13.28 *
Net	31060	15.53	14.09

* P. T.

Ordered	271.78		
Remaining			
Today:	15.53	Loads:	1

Weighmaster: Scott Atkinson

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P.O.:

Product: 2499340 3/4"- 0 CRUSHED

15.53 Ton

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15.53 Ton

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Farmington Aggregate

Ticket No.: 59285251

Date: 12/13/2023 Time: 10:24:13AM

Vehicle: DAN96 DAN KOCH
Customer: 497974 ALPHA ENVIRONMENTAL SERVICES INC
Order: 5010119824 16590 NW 114TH AVE, CLACKAMAS

P.O.:
Product: 2499340 3/4"- 0 CRUSHED

ALPHA ENVIRONMENTAL SERVICES

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13.68 Ton

Received: _____

CUSTOMER COPY

Table with 4 columns: Pounds, Tons, Metric, and values for Gross, Tare, Net.

Table with 2 columns: Ordered (239.40), Remaining, Today: 27.09 Loads: 2

Weighmaster: Kimberly Beierle

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Order: 5010119824 16590 NW 114TH AVE, CLACKAMAS

P.O.:
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P.O.:
Product: 2499340 3/4"- 0 CRUSHED

ALPHA ENVIRONMENTAL SERVICES

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Coffee Lake Quarry
11911 SW Waldo Way
Sherwood, OR 97140
FOR INFO PLEASE CALL
(503)-944-3570

Ticket No.: **14635689**

Date: 12/13/2023 Time: 7:03:25AM

Vehicle: DAN96 DAN KOCH
Customer: 497974 ALPHA ENVIRONMENTAL SERVICES INC
Order: 5010119824 16590 SE 114TH CLACKAMAS

P.O.:

Product: 2499340 3/4"- 0 CRUSHED

845 NW 114TH AVE, BEAVERTON

14.30 Ton

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Received: _____

CUSTOMER COPY

	<u>Pounds</u>	<u>Tons</u>	<u>Metric</u>
Gross	52060	26.03	23.61
Tare	23460*	11.73*	10.64*
Net	28600	14.30	12.97

* P. T.

Ordered	250.25		
Remaining			
Today:	14.30	Loads:	1

Weighmaster: Scott Atkinson

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Order: 5010119824 16590 SE 114TH CLACKAMAS

P.O.:

Product: 2499340 3/4"- 0 CRUSHED

845 NW 114TH AVE, BEAVERTON

14.30 Ton

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Ordered	250.25		
Remaining			
Today:	14.30	Loads:	1

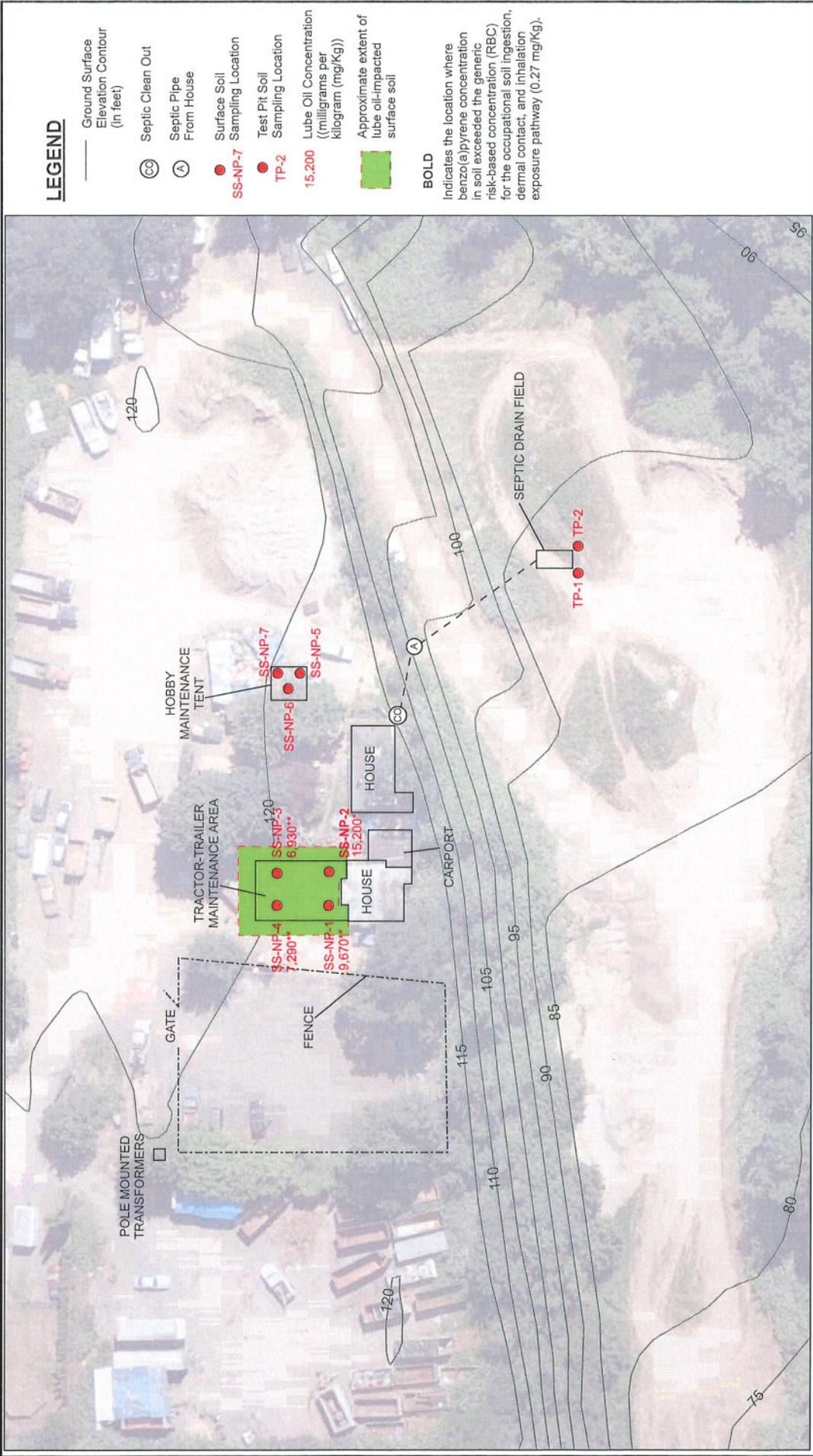
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APPENDIX D:

KLEINFELDER MAP AND SOIL CONCENTRATIONS 2010



LEGEND

- Ground Surface Elevation Contour (in feet)
- Ⓢ Septic Clean Out
- Ⓐ Septic Pipe From House
- SS-NP-7 Surface Soil Sampling Location
- TP-2 Test Pit Soil Sampling Location
- 15,200 Lube Oil Concentration ((micrograms per kilogram (mg/Kg)))
- Approximate extent of lube oil-impacted surface soil
- BOLD** Indicates the location where benzo(a)pyrene concentration in soil exceeded the generic risk-based concentration (RBC) for the occupational soil ingestion, dermal contact, and inhalation exposure pathway (0.27 mg/Kg).

REFERENCE: Metro RLIS Data 2009

KLEINFELDER
 9200 SW Nimbus Ave, Suite A
 Beaverton, Oregon 97008
 (503) 644-9447

SOIL SAMPLING LOCATIONS
 NORTHERN PROPERTIES

EMMERT SITE
 TAX LOT 1200
 CLACKAMAS, OREGON

Project Number: 85001

Date: 08/10

Figure
3A

25 0 25 50 75 100 Feet

Northern Properties: Testing was conducted in the vicinity of the DB Trucking Tractor-Trailer Maintenance Area, DB Trucking Hobby Maintenance Tent, and Septic Drain Field.

Soil samples collected from seven locations in the Northern Properties were tested. In location SS-NP-2, in the DB Trucking Tractor-Trailer Maintenance Area, detected benzo(a)pyrene concentration exceeded the generic RBC for the occupational soil ingestion, dermal contact, and inhalation exposure pathway. Approximately 2,000 square feet are impacted in the DB Trucking Tractor-Trailer Maintenance Area. Detected lube oil concentrations in the DB Trucking Tractor-Trailer Maintenance Area exceeded the calculated site-specific RBC for the residential soil ingestion, dermal contact, and inhalation exposure pathway. Since lube oil and related constituent concentrations exceeded the most stringent residential cleanup levels, the impacted soil cannot be used as clean fill and must be managed appropriately. Management options for these soils include: 1) capping with minimum of 3 feet of clean soil hardscape, or buildings; 2) disposal at a regulated landfill, or 3) treating onsite.

DB TRUCKING TRACTOR-TRAILER MAINTENANCE AREA (TL 1200)

SS-NP-1
 HCID = G⁺, D⁺, LO
 VOCs = ND

Total Arsenic = 1.56 mg/Kg
 Total Barium = 161 mg/Kg
 Total Chromium = 9.74 mg/Kg
 Total Lead = 15 mg/Kg

SS-NP-2
 HCID = G⁺, D⁺, LO
 LO = 15,200 mg/Kg
 D = ND

VOCs = ND
 Acenaphthylene = 0.139 mg/Kg
 Anthracene = 0.117 mg/Kg
 Benz(a)anthracene = 0.306 mg/Kg
Benz(a)pyrene = 0.809 mg/Kg
 Benzo(b+k)fluoranthene = 0.966 mg/Kg
 Benzo(g,h,i)perylene = 1.19 mg/Kg
 Chrysene = 0.537 mg/Kg
 Dibenz(a,h)anthracene = 0.123 mg/Kg
 Fluoranthene = 0.522 mg/Kg
 Indeno(1,2,3-cd)pyrene = 0.857 mg/Kg
 Phenanthrene = 0.163 mg/Kg
 Pyrene = 0.853 mg/Kg
 Total Arsenic = 1.26 mg/Kg
 Total Barium = 69.4 mg/Kg
 Total Chromium = 11.5 mg/Kg
 Total Lead = 33.8 mg/Kg

SS-NP-3
 HCID = G⁺, D⁺, LO
 VOCs = ND

Total Arsenic = 1.85 mg/Kg
 Total Barium = 86.7 mg/Kg
 Total Cadmium = 31.4 mg/Kg
 Total Chromium = 12.8 mg/Kg
 Total Lead = 20.6 mg/Kg

SS-NP-4
 HCID = G⁺, D⁺, LO
 VOCs = ND

Total Arsenic = 1.57 mg/Kg
 Total Barium = 84.7 mg/Kg
 Total Chromium = 9.9 mg/Kg
 Total Lead = 15.9 mg/Kg

DB TRUCKING HOBBY MAINTENANCE TENT (TL 1200)

SS-NP-5
 HCID = G, D⁺, LO
 GA = 41.7 mg/Kg

Naphthalene = 1.92 mg/Kg
 n-Propylbenzene = 0.031 mg/Kg
 1,2,4-Trimethylbenzene = 0.394 mg/Kg
 1,3,5-Trimethylbenzene = 0.392 mg/Kg
 Total Xylenes = 0.382
 Total Barium = 66.7 mg/Kg
 Total Chromium = 9.81 mg/Kg
 Total Lead = 23.9 mg/Kg

SEPTIC DRAIN FIELD (TL 1200)

TP-1

Methylene Chloride^B = 0.528 mg/Kg

TP-2

Methylene Chloride^B = 0.610 mg/Kg

DUP-051310

(Duplicate of soil sample from location TP-1)
 HCID = ND
 G = ND
 VOCs = ND

Total Arsenic = 3.07 mg/Kg
 Total Barium = 70.8 mg/Kg
 Total Chromium = 9.67 mg/Kg
 Total Lead = 2.58 mg/Kg

SS-NP-6
 HCID = D⁺, LO
 LO = 3,310 mg/Kg
 D = ND

Ethylbenzene = 0.0779 mg/Kg
 Total Xylenes = 0.864 mg/Kg
 Chrysene = 0.197 mg/Kg
 Total Arsenic = 2.81 mg/Kg
 Total Barium = 80.9 mg/Kg
 Total Cadmium = 1.79 mg/Kg
 Total Chromium = 14.9 mg/Kg
 Total Lead = 22.8 mg/Kg

SS-NP-7
 HCID = D⁺, LO
 VOCs = ND

Total Barium = 119 mg/Kg
 Total Chromium = 4.84 mg/Kg
 Total Lead = 9.14 mg/Kg

LEGEND

TL

Tax lot

Surface soil sampling location

Test pit soil sampling location

Hydrocarbon identification

Gasoline

Diesel

Lube Oil

Volatile organic compounds

Risk-based concentration

Lube oil concentration determined by NWTPH-Dx method

Lube oil concentration determined by NWTPH-HCID method

Results in the gasoline- and diesel-range organics are "primarily due to overlap from a heavy oil-range product." (Laboratory)

Milligrams per kilogram

Not detected at or above the laboratory method reporting limit.

"The sample chromatographic pattern does not resemble the fuel standard used for quantitation." (Laboratory)

"Result likely due to contamination by a solvent commonly used in the laboratory" (Laboratory).

Indicates the concentration exceeds generic RBC(s).

mg/Kg

ND

A

B

BOLD



Approximate extent of impacted surface soil with lube oil concentrations above the calculated site-specific RBC for the most stringent residential soil ingestion, dermal contact, and inhalation exposure pathway (5,500 mg/Kg). The impacted surface soil also has benzo(a)pyrene concentrations above the generic RBCs for the residential as well as occupational soil ingestion, dermal contact, and inhalation exposure pathway (0.015 mg/Kg and 0.27 mg/Kg, respectively).



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SOIL SAMPLE ANALYTICAL RESULTS
 (SEE FIGURE 3A FOR THE SOIL SAMPLE LOCATIONS)
 NORTHERN PROPERTIES

Figure

EMMERT SITE
 TAX LOT 1200
 CLACKAMAS, OREGON

3B

Date: 08/10

Project Number: 85001