

Phase II Environmental Site Assessment Report

110, 158, and 204 Lozier Lane

Medford, Oregon 97501

Map 372W26DB and Taxlots 1200, 1300, 1400, and 1500

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March 5, 2025



ALPINE ENVIRONMENTAL CONSULTANTS, LLC

EXECUTIVE SUMMARY

Alpine Environmental Consultants, LLC (AEC), on behalf of **Lozier Lane Estates, LLC (LLE)**, conducted a Phase II Environmental Site Assessment (ESA) at the property located at 110, 158, and 204 Lozier Lane in Medford, Oregon (the Subject Property). The Subject Property occupies four taxlots (TLs) identified as Map 372W26DB and TLs 1200, 1300, 1400, and 1500. The Subject Property consists of a total of 4.61 acres of undeveloped grassy land located in a multi-family 30 units per acre residential zoning district. The Subject Property is currently owned by LLE.

A Phase I ESA was conducted at the Subject Property by AEC in February 2022. The Phase I ESA identified a recognized environmental condition (REC) in connection with the historical orchard use of the Subject Property prior to the 1930. Based on AEC's experience, historical orchard activities likely involved pesticides use. The Phase I ESA recommended a Phase II ESA be conducted at the Subject Property in order to determine if this initially identified REC was truly an environmental concern or if it could be eliminated from further consideration.

An initial focused Phase II ESA was conducted on February 11, 2022. A total of eight test pits were excavated at the Subject Property to collect data for geotechnical and environmental purposes. AEC collected 19 depth discrete soil samples from the upper 3 feet of soil from four of the eight test pits. In addition, AEC developed 1 composite soil sample from the four discrete soil samples collected from 0.0 to 0.5 feet below ground surface (bgs). The depth discrete and composite soil samples were analyzed for various pesticides and metals. The analytical results reported arsenic at concentrations exceeding Oregon Department of Environmental Quality's (DEQ's) relevant generic risk-based concentrations (RBCs) for urban residential receptors and construction workers and lead at concentrations exceeding relevant generic RBCs for urban residential receptors. Arsenic and lead concentrations also exceeded the naturally occurring background concentrations and Clean Fill Values developed by DEQ. In addition, the analytical results reported select organochlorine pesticides at concentrations exceeding Clean Fill Values. AEC concluded that the results of the February 2022 subsurface investigation confirmed the historical orchard use of the Subject Property is a REC.

Based on the initial focused Phase II ESA and prior to property development for urban residential use, LLE decided to conduct a supplemental Phase II ESA in order to determine whether soil qualifies as Clean Fill for unrestricted use or whether the soil must be disposed of in a special manner and also in order to prepare a Phase II ESA Report supportive of obtaining a commercial construction loan.

AEC conducted the supplemental Phase II ESA in August 2022. The Subject Property was divided into three sections, identified in this report as Decision Units (DUs). Four test pits were excavated within each DU area. Four soil samples were collected from each test pit from the upper 3 feet of soil for a total of 48 discrete soil samples. In addition, five composite soil samples were prepared using Incremental Sampling Methodology (ISM) for each DU area using soil from the four test pits. The composite soil samples were developed from depths of 0.0 to



0.5 feet bgs, 0.5 to 1.0 feet bgs, 1.0 to 1.5 feet bgs, 1.5 to 2.0 feet bgs, and 2.0 to 3.0 feet bgs. A total of 15 composite soil samples were prepared. The depth discrete and composite soil samples were analyzed for various pesticides and metals. The analytical results reported in general a higher concentration of metals and pesticides constituents in the upper 2 feet of soil than in the underlying layer from 2.0 to 3.0 feet bgs. These data demonstrate concentrations of pesticides constituents attenuate fairly rapidly with depth.

Based on an evaluation of the analytical results for the discrete and composite soil samples collected at the Subject Property, several exceedances were reported. These include the following:

- Arsenic, lead, 4,4'-dichlorodiphenyltrichloroethane (4,4'-DDT), and dieldrin constituents were reported at concentrations above their respective generic RBCs for the *ingestion, dermal contact, and inhalation exposure pathway* for urban residential receptors;
- Arsenic was reported at concentrations above its respective generic RBC for the *ingestion, dermal contact, and inhalation exposure pathway* for construction workers;
- Lead, dieldrin, and MCPA constituents were reported at concentrations above their respective generic RBCs for the *leaching to groundwater exposure pathway* for urban residential receptors; and
- Several constituents were reported at concentrations above the Clean Fill Values in soil at depths ranging from 0.0 to 3.0 feet bgs; these included arsenic, lead, 4,4'-dichlorodiphenyldichloroethane (4,4'-DDD), 4,4'-dichlorodiphenyldichloroethene (4,4'-DDE), 4,4'-DDT, dieldrin, endrin ketone, and 2-methyl-4-chlorophenoxyacetic acid (MCPA).

While generic RBCs for urban residential receptors and construction workers were exceeded for the aforementioned constituents and exposure pathways, potential risks to human health associated with these constituents and exposure pathways can be managed, mitigated, and/or eliminated from further concern, as follows:

- The generic residential RBC under the *soil ingestion, dermal contact, and inhalation exposure pathway* assumes urban residential receptors are likely to come into contact with contaminated soils found in the upper 3 feet of soil. The concentrations of arsenic, lead, 4,4'-DDT, and dieldrin within the upper 3 feet of soil exceeded the RBCs for this exposure pathway. The reported concentrations of arsenic and lead also exceeded the naturally occurring background concentration. AEC recommends institutional and/or engineering controls be implemented to address the impacted areas. Institutional and/or engineering control options to protect urban residential receptors include but are not limited to the following: paving; removal of shallow soil and/or covering the property with a 3-foot layer of clean compacted fill material; developing an asphalt cap maintenance plan; developing a Contaminated Media Management Plan (CMMP) approved by DEQ; and/or applying a deed notice (e.g. to ensure the asphalt cap is maintained).
- The generic construction workers RBC for arsenic under the *soil ingestion, dermal contact, and inhalation exposure pathway* assumes construction workers could be exposed over 1 year to arsenic during construction activities involving the disturbance of

impacted-soils. However, it is unlikely construction workers would be working on the Subject Property continuously for 1 year. Furthermore, this risk could be easily mitigated with proper communication to future construction workers requiring dust suppression and/or that they wear appropriate PPE and follow proper decontamination procedures subsequent to working in order to avoid exposure and health risks. The procedures documenting proper communication, appropriate PPE, and proper decontamination could be documented in a CMMP approved by DEQ.

- The generic residential RBC for lead, dieldrin, and MCPA under the *leaching to groundwater exposure pathway* conservatively assumes that a water supply well is being used on the Subject Property and that these constituents could be leached from the shallow soil, impact groundwater, and that urban residential receptors could subsequently be exposed to these constituents in drinking water. Given the future municipal water use, the absence of domestic wells at the Subject Property, and the assumed groundwater flow direction, it is highly unlikely potentially leached lead, dieldrin, and MCPA from the shallow soil into groundwater at the Subject Property will pose an unacceptable risk to urban residential receptors at the Subject Property. Furthermore, dieldrin and MCPA concentrations and most of lead concentrations attenuate to below their respective generic RBCs for the *leaching to ground water exposure pathway* within the upper 2 feet of soil, indicating limited leaching is occurring. To completely eliminate the potential risk that leaching lead to groundwater might pose to urban residential receptors at the Subject Property, a deed notice could be developed and applied that prohibits the installation of wells to supply water to urban residential receptors at the Subject Property.
- The Clean Fill Values were exceeded by arsenic, lead, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, dieldrin, endrin ketone, and MCPA in the investigated upper 3 feet of soil throughout the Subject Property. If soil at this depth throughout the Subject Property is excavated, it can be reused at the Subject Property. However, if this soil is exported off of the Subject Property, it should be managed appropriately to ensure it does not adversely impact ecological receptors. For example, this soil could be properly disposed of at a quarry under a DEQ-approved SWLA.

The available data indicate historical orchard practices at the Subject Property involving pesticides have adversely impacted soil. The available data reflect the adverse impacts are in the soil within the investigated interval of 0.0 to 3.0 feet bgs. Based on these findings and accounting for the inherent uncertainties associated with any subsurface investigation, AEC recommends the following:

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LIST OF ACRONYMS AND ABBREVIATIONS

AEC	Alpine Environmental Consultants, LLC
ALS	ALS Group USA, Corp. dba ALS Environmental
bgs	below ground surface
CMMP	Contaminated Media Management Plan
4,4'-DDD	4,4'-Dichlorodiphenyldichloroethane
4,4'-DDE	4,4'-Dichlorodiphenyldichloroethene
4,4'-DDT	4,4'-Dichlorodiphenyltrichloroethane
DEQ	Department of Environmental Quality
DU	Decision Unit
ESA	Environmental Site Assessment
HASP	Health and Safety Plan
ICPMS	Inductively Coupled Plasma Mass Spectrometry
ISM	Incremental Sampling Methodology
ITRC	Interstate Technology and Regulatory Council
MCPA	2-methyl-4-chlorophenoxyacetic acid
PPE	personal protective equipment
mg/kg	milligrams per kilogram
MRL	method reporting limit
PPE	personal protective equipment
RBCs	risk-based concentrations
RBDM	Risk-Based Decision Making
REC	recognized environmental condition
SWLA	Solid Waste Letter of Authorization
TL	tax lot
USEPA	United States Environmental Protection Agency
WRD	Water Resources Department



1 INTRODUCTION

On behalf of Lozier Lane Estates, LLC (LLE), Alpine Environmental Consultants, LLC (AEC) has prepared this report to present the findings of the Phase II Environmental Site Assessment (ESA) conducted at the property located at 110, 158, and 204 Lozier Lane in Medford, Oregon (the Subject Property). The Focused Phase II ESA involved subsurface soil and groundwater sampling.

1.1 Subject Property Description

The Subject Property is located in Medford, Oregon and occupies four taxlots (TLs) identified as Map 372W26DB and TLs 1200, 1300, 1400, and 1500. TL 1200 is addressed as 110 Lozier Lane, TL 1300 as Lozier Lane, TL 1400 as 158 Lozier Lane, and TL 1500 as 204 Lozier Lane. The Subject Property occupies approximately 4.61 acres and consists of undeveloped grassy land. The Subject Property is currently owned by LLE.

The Subject Property is located in a multi-family 30 units per acre residential zoning district. The adjacent properties are zoned as community commercial, single family residential, urban residential, and rural residential. Griffin Creek is located approximately 1 mile to the west and Bear Creek is located approximately 2 miles to the east of the Subject Property. Griffin Creek and Bear Creek run in an approximately south to north direction. The topography at the Subject Property and its vicinity slopes slightly towards the north and east. It is assumed that groundwater at the Subject Property flows to the northeast, likely towards Bear Creek.

The Subject Property location is illustrated on **Figure 1** and **Figure 2**.

1.2 Subject Property Background

AEC conducted a Phase I ESA at the Subject Property in February 2022. According to the available historical records, the Subject Property had been occupied by orchards until the 1930s, potentially as part of the adjacent Southern Oregon Fruit Products Company. Based on AEC's experience, historical orchard activities likely involved pesticides use. These chemicals can accumulate and build up in shallow soil. Therefore, AEC identified the historical use of the Subject Property as an orchard as a recognized environmental condition (REC).

AEC recommended a Phase II ESA be conducted at the Subject Property to collect an appropriate set of environmental data to determine if this initially identified REC was truly an environmental concern or if it could be eliminated from further consideration. The Phase II ESA investigation was initiated in February 2022. Based on the initial investigation's findings, a supplemental subsurface investigation was conducted in August 2022. The Phase II ESA methods are presented in **Section 2**. Evaluation of the soil data is presented in **Section 3**. The Conclusions and Recommendations are presented in **Section 4**.



2 PHASE II ESA INVESTIGATION

The initial Phase II ESA investigation was conducted in February 2022 and the supplemental Phase II ESA investigation was conducted in August 2022. The subsurface investigations included soil sampling. A summary of the field methods and observations is presented in **Section 2.1** through **Section 2.4**. The analytical results of the soil samples and their interpretation are included in **Section 3**. Conclusions and recommendations are presented in **Section 4**. The photographic documentation is included in **Appendix 1**. The complete laboratory results are included in **Appendix 2**. The location of the Subject Property is shown on **Figure 1** and the sampling locations on the Subject Property are shown on **Figure 2**. The analytical results of the soil samples are summarized in **Tables 1 through 4**.

2.1 Pre-Excavation

Prior to any subsurface disturbances, the underground infrastructure of pipes, mains, and utility lines were located at the Subject Property. AEC contacted the Utility Notification Center in order to locate and trace any potential public underground utilities in the vicinity of the proposed soil boring locations. Test pit locations were also cleared by **Mr. XXXX of XXXX** to ensure no private underground utilities would be impacted.

2.2 Test Pit Excavation

The initial Phase II ESA was conducted on February 11, 2022. AEC supervised the excavation of eight test pits, identified as TP1 through TP8, on the Subject Property. The soil in test pits TP1, TP4, TP6, and TP8 was investigated. These test pits were located as follows: TP1 in the northeast corner of the Subject Property, TP4 in the western area, TP6 in the southern area, and TP8 in the central area.

Based on the reported analytical data for these samples, a supplemental investigation was conducted on August 10, 2022. AEC divided the Subject Property into three investigation areas, referred to in this report as decision units (DUs). The northern portion of the Subject Property was identified as DU1 and included test pits TP9 through TP12. The central portion of the Subject Property was identified as DU2 and included test pits TP13 through TP16. The southern portion of the Subject Property was identified as DU3 and included test pits TP17 through TP20.

No non-native fill was observed in any of the test pits. Therefore, the test pits were excavated to a depth of approximately 3.0 feet below ground surface (bgs).

The test pits were excavated using a small excavator by personnel **from XXX**. Soil samples, lithologic characterization, and field screening were logged by Mr. Toby Shallcross (Project Geologist) and checked by Mr. Jonathan Williams (Oregon Registered Geologist) of AEC.



2.3 Soil Sampling

The sampling objective was to collect five soil subsamples from each investigated test pit from a depth representing the uppermost 0.0 to 3.0 feet of native soil. Five soil subsamples were collected from all investigated test pits with the exception of test pit TP1, from where four subsamples were collected. Why?

Soil subsamples representative of the native soil from five depth intervals were collected at each test pit by scraping an equal and representative volume of soil off of the test pit walls over the desired depth intervals using gloved hands and/or a decontaminated stainless-steel trowel and placed in ziploc bags. The soil in the ziploc bags was then thoroughly homogenized using gloved hands. Larger sized material (i.e., gravel greater than approximately ¼ to ½ inch in diameter) was removed by hand.

The five soil subsamples collected from the investigated test pit were collected from the following depths:

- From 0.0 to 0.5 feet bgs – soil subsamples TP1-0-6, TP4-0-6, TP6-0-6, TP8-0-6, and TP9-0-6 through TP20-0-6;
- From 0.5 to 1.0 feet bgs – soil subsamples TP1-6-12, TP4-6-12, TP6-6-12, TP8-6-12, and TP9-6-12 through TP20-6-12;
- From 1.0 to 1.5 feet bgs – soil subsamples TP1-12-18, TP4-12-18, TP6-12-18, TP8-12-18, and TP9-12-18 through TP20-12-18;
- From 1.5 to 2.0 feet bgs – soil subsamples TP1-18-24, TP4-18-24, TP6-18-24, TP8-18-24, and TP9-18-24 through TP20-18-24; and
- From 2.0 to 3.0 feet bgs – soil subsamples TP1-24-36, TP4-24-36, TP6-24-36, TP8-24-36, and TP9-24-36 through TP20-24-36.

Accordingly, a total of 79 subsamples were collected. Before and between the excavation of each test pit, the small excavator bucket was swept clean with a broom. The stainless-steel trowels were cleansed prior to each use by scrubbing with a brush and an Alconox solution and rinsed with de-ionized water.

The rationale for collecting five soil subsamples at each test pit location was that depth discrete analytical results should help characterize the vertical extent and attenuation with depth of potential impacts by pesticide constituents. The concept of depth discrete subsamples is also documented in the DEQ's *Evaluating Residual Pesticides on Lands Formerly Used for Agricultural Production* Guidance of 2006 that was updated in June 2019 (DEQ, June 2019). The sample depth density of these Phase II ESA investigations is more rigorous than DEQ's guidance.

Once the depth discrete soil subsamples were collected, composite soils samples were created. The composite soil samples were created by homogenized using equal volumes of soil using the Incremental Sampling Methodology (ISM) developed by the Interstate Technology and Regulatory Council (ITRC).



One composite soil sample was created by AEC on February 11, 2022. This sample was identified as COMP1-0.0-0.5 and was created from the subsamples collected from test pits TP1, TP4, TP6, and TP8 from a depth of 0.0 to 0.5 feet bgs.

Fifteen composite soil samples were created by AEC or by ALS Group USA, Corp (ALS) on August 13, 2022. These composite samples included the following:

- Depth discrete soil subsamples collected from the 0.0 to 0.5 feet bgs interval: composite soil sample DU1-0-6 (soil subsamples from test pits TP9 through TP12), DU2-0-6 (soil subsamples from test pits TP13 through TP16), and DU3-0-6 (soil subsamples from test pits TP17 through TP20);
- depth discrete soil subsamples collected from the 0.5 to 1.0 feet bgs interval: composite soil sample DU1-6-12 (soil subsamples from test pits TP9 through TP12), DU2-6-12 (soil subsamples from test pits TP13 through TP16), and DU3-6-12 (soil subsamples from test pits TP17 through TP20);
- Depth discrete soil subsamples collected from the 1.0 to 1.5 feet bgs interval: composite soil sample DU1-12-18 (soil subsamples from test pits TP9 through TP12), DU2-12-18 (soil subsamples from test pits TP13 through TP16), and DU3-12-18 (soil subsamples from test pits TP17 through TP20);
- Depth discrete soil subsamples collected from the 1.5 to 2.0 feet bgs interval: composite soil sample DU1-18-24 (soil subsamples from test pits TP9 through TP12), DU2-18-24 (soil subsamples from test pits TP13 through TP16), and DU3-18-24 (soil subsamples from test pits TP17 through TP20); and
- Depth discrete soil subsamples collected from the 2.0 to 3.0 feet bgs interval: composite soil sample DU1-24-36 (soil subsamples from test pits TP9 through TP12), DU2-24-36 (soil subsamples from test pits TP13 through TP16), and DU3-24-36 (soil subsamples from test pits TP17 through TP20).

After soil sample collection was completed, the test pits were backfilled and compacted using the small excavator as described above.

2.4 Soil Laboratory Analyses

All soil samples were placed in iced coolers and submitted to accredited laboratories under standard chain-of-custody protocol. The discrete and composite soil samples created in February 2022 were submitted to Apex Laboratories, LLC (Apex) of Tigard, Oregon. Apex subcontracted the composite sample for chlorinated herbicides analysis to Weck Laboratories, Inc. (Weck) of City of Industry, California. The discrete and composite soil samples created in August 2022 were submitted to ALS Lab. The temperatures of the coolers recorded by the laboratory upon receipt ranged between 1.8 and 4.3 degree Celsius (°C). These temperatures were within the EPA's recommended limit of less than or equal to 6°C and above freezing point.



The discrete and composite soil samples were submitted for the following analyses:

- Metals by USEPA Methods 6020A, 6020B, and 7471B by inductively coupled plasma and a mass spectrometer (ICPMS); the composite samples COMP1-0.0-0.5, DU1-0-6, DU2-0-6, and DU3-0-6 were analyzed for 17 metals (i.e. antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, mercury, molybdenum, selenium, silver, thallium, vanadium, and zinc) and all discrete samples were analyzed for arsenic and lead;
- Organochlorine pesticides by USEPA Method 8081B: all composite samples;
- Organophosphorus pesticides by USEPA Method 8270E: the composite samples COMP1-0.0-0.5, DU1-0-6, DU2-0-6, and DU3-0-6; and
- Chlorinated herbicides by USEPA Method 8151A: the composite samples COMP1-0.0-0.5, DU1-0-6, DU2-0-6, and DU3-0-6.

Copies of the final analytical laboratory reports are included in **Appendix 2**. The analytical results for soil samples are summarized in **Table 1** through **Table 4**. The metals results are presented in **Table 1**, the organochlorine pesticides in **Table 2**, the organophosphorus pesticides in **Table 3**, and the chlorinated herbicides in **Table 4**. In addition to presenting the analytical results, **Table 1** through **Table 4** also identify relevant DEQ's generic RBCs and Clean Fill Values for soil. The generic RBCs identified in these tables are consistent with the anticipated future land use and zoning and assume urban residential receptors and construction and excavation workers will be present at the Subject Property.



3 SOIL DATA EVALUATION

The soil analytical results are included in **Appendix 2** and summarized in **Tables 1 through 4**. In addition to presenting the analytical results, these tables also identify relevant generic risk-based concentrations (RBCs) for soil generated by DEQ. The generic RBCs are described in DEQ's updated *Risk-Based Decision Making for the Remediation of Contaminated Sites* guidance dated October 2, 2017 (DEQ, 2017).

The generic RBCs applicable to the Subject Property are consistent with the planned multi-unit residential land use and assume urban residential receptors, construction workers, and excavation workers will be present at the Subject Property. The generic RBCs applicable to the Subject Property include the following exposure pathways and receptors: *ingestion, dermal contact, and inhalation exposure pathway* for urban residential receptors, construction workers, and excavation workers; *volatilization to outdoor air exposure pathway* for urban residential receptors; and *leaching to groundwater exposure pathway* for urban residential receptors.

All reported concentrations were also compared to the Clean Fill Values listed in the DEQ's *Clean Fill Determinations* Internal Management Directive (DEQ, 2019).

The Clean Fill Values for metals coincide with the naturally occurring background concentrations of metals in soil. The background concentrations at the Subject Property are the ones developed for the Klamath Mountains province, which includes the Medford area and the Subject Property. The background concentrations are derived from DEQ's Technical Report entitled *Development of Oregon Background Metals Concentrations in Soil* (DEQ, 2013). The background concentrations are a type of average defined as the 95 percent upper predictive limits.

The reported data are summarized in the following paragraphs.

3.1 Total Metals

Based on AEC's experience working on properties in the Rogue Valley used as orchards, arsenic and lead associated with the historical application of pesticide formulations containing lead arsenate is prevalent in shallow soils. The discrete soil samples were analyzed for arsenic and lead and the composite soil samples were analyzed for 17 metals, including arsenic and lead.

Several metals were reported at concentrations that exceeded the laboratory MRLs in the analyzed discrete and composite soil samples. Arsenic and lead were the only metals reported at concentrations above the generic applicable RBCs.



Arsenic

Arsenic was reported in all discrete and composite soil samples at concentrations ranging from 3.13 milligrams per kilogram (mg/kg) to 20.7 mg/kg. The reported concentration of arsenic exceeded several cleanup levels, as follows:

- All reported concentrations exceeded the generic RBC for the *ingestion, dermal contact, and inhalation exposure pathway* for urban residential receptors of 1.0 mg/kg;
- The reported concentrations of arsenic in the discrete soil samples TP8-0-6, TP16-18-24, and TP17-0-6 exceeded the generic RBCs for the *ingestion, dermal contact, and inhalation exposure pathway* for construction workers of 15 mg/kg; and
- The reported concentrations of arsenic in the discrete soil samples TP8-0-6, TP16-18-24, and TP17-0-6 also exceeded the Clean Fill Value and the naturally occurring background concentration of arsenic in the Klamath Mountains province of 12 mg/kg.

While arsenic concentrations exceed the abovementioned RBCs, potential risks to human health associated with this constituent and exposure pathways can be managed, mitigated, and/or eliminated from further concern, as follows:

- The generic residential RBC for total arsenic under the *soil ingestion, dermal contact, and inhalation exposure pathway* assumes urban residential receptors are likely to come into contact with contaminated soils found in the upper 3 feet of soil. The reported concentrations of arsenic exceeded the generic RBC for this exposure pathway in all discrete and composite soil samples, though it exceeded the naturally occurring background concentration in the upper 2.0 feet of soil in only three discrete samples. AEC recommends institutional and/or engineering controls be implemented to address the impacted area. Institutional and/or engineering control options to protect urban residential receptors include but are not limited to the following: paving; removal of shallow soil and/or covering the property with a 3-foot layer of clean compacted fill material; developing an asphalt cap maintenance plan; developing a Contaminated Media Management Plan (CMMP) approved by DEQ; and/or applying a deed notice (e.g. to ensure the asphalt cap is maintained).
- The generic construction workers RBC for total arsenic under the *soil ingestion, dermal contact, and inhalation exposure pathway* assumes construction workers could be exposed over 1 year to arsenic during construction activities involving the disturbance of impacted-soils. However, it is unlikely construction workers would be working at the Subject Property continuously for 1 year. Furthermore, this risk could be easily mitigated with proper communication to future construction workers requiring dust suppression and/or that they wear appropriate personal protective equipment (PPE) and follow proper decontamination procedures subsequent to working in order to avoid exposure and health risks. The procedures documenting proper communication, appropriate PPE, and proper decontamination could be documented in a CMMP approved by DEQ.
- The arsenic in the upper 3.0 feet of soil exceeded the Clean Fill Values throughout the Subject Property. See Section 3.5 for Clean Fill data evaluation.



Lead

Lead was reported in all discrete and composite soil samples at concentrations ranging from 3.32 mg/kg to 456 mg/kg. The reported concentration of lead exceeded several cleanup levels, as follows:

- The reported concentrations of lead in the soil samples TP20-12-18 and TP20-18-24 exceeded the generic RBC for the *ingestion, dermal contact, and inhalation exposure pathway* for urban residential receptors of 400 mg/kg;
- The reported concentrations of lead in several discrete soil samples exceeded the generic RBC for the *leaching to groundwater exposure pathway* for urban residential receptors of 30 mg/kg; the discrete samples included the soil collected from test pits TP1 (0.0-1.0 feet bgs), TP4 (1.5-3.0 feet bgs), TP6 (1.5-2.0 feet bgs), TP8 (0.0 to 1.5 feet bgs), TP12 (0.5-1.5 feet bgs), TP14 (0.0-1.5 feet bgs), TP15 (0.5-1.5 feet bgs), TP16 (1.5-2.0 feet bgs), TP17 (0.0-0.5 feet bgs), TP18 (0.5-1.5 feet bgs), TP19 (0.0-1.0 feet bgs), and TP20 (0.5-2.0 feet bgs); the composite soil samples included COMP1-0.0-0.5 and DU3-0-6; and
- The reported concentrations of lead in several discrete and composite soil samples in the upper 3.0 feet of soil also exceeded the Clean Fill Value and the naturally occurring background concentration of arsenic in the Klamath Mountains province of 36 mg/kg (see Section 3.5 for Clean Fill data evaluation).

While the concentrations of lead exceeded the generic RBCs for urban residential receptors, potential risks to human health can be managed, mitigated, and/or eliminated from further concern, as follows:

- The generic urban residential RBC for total lead under the *soil ingestion, dermal contact, and inhalation exposure pathway* assumes urban residential receptors are likely to come into contact with contaminated soils found in the upper 3 feet of soil. The reported concentrations of lead exceeded the generic RBC for this exposure pathway in two discrete soil samples collected from 1.0 to 2.0 feet bgs. AEC recommends institutional and/or engineering controls be implemented to address the impacted area. Institutional and/or engineering control options to protect urban residential receptors include but are not limited to the following: paving; removal of shallow soil and/or covering the property with a 3-foot layer of clean compacted fill material; developing an asphalt cap maintenance plan; developing a CMMP approved by DEQ; and/or applying a deed notice (e.g. to ensure the asphalt cap is maintained).
- The generic urban residential RBC for total lead under the *leaching to groundwater exposure pathway* conservatively assumes that a water supply well is being used at the Subject Property, and that lead could be leached from the shallow soil, impact groundwater, and that urban residential receptors could subsequently be exposed to lead in drinking water. According to LLE, the Subject Property will be developed for multi-unit residential use and will be serviced with municipal water by the Medford Water. The neighboring properties utilize private well water and/or municipal water and will likely continue to utilize private well water and/or municipal water in the future. A



review of the WRD well records indicates two supply well logs are listed for the Subject Property, specifically for the 204 Lozier Lane property (TL 1500). The first log is for the drilling of an irrigation well to a depth of 100.5 feet bgs in 1950. This well is listed as being located "615' N & 955' W. from SE cor. DLC 76." The second log is for the deepening of an irrigation well to a depth of 42 feet in 1959. This well is listed as being located "607' N & 870' W. from SE cor. DLC 76." It is unknown if these two logs are for the same well or for separate wells. During the Phase I site reconnaissance, one well was identified on 204 Lozier property, near the southern boundary. Nevertheless, these wells are not being use for domestic purposes. Based on professional judgment, groundwater flow direction at the Subject Property is assumed to be to the northeast, likely towards Bear Creek. Therefore, given the future municipal water use, the absence of domestic wells at the Subject Property, and the assumed groundwater flow direction, it is highly unlikely potentially leached lead from the shallow soil into groundwater at the Subject Property will pose an unacceptable risk to urban residential receptors at the Subject Property. Furthermore, lead concentrations attenuate to below their respective generic RBCs for the *leaching to ground water exposure pathway* within the upper 2 feet of soil, indicating limited leaching is occurring. To completely eliminate the potential risk that leaching lead to groundwater might pose to urban residential receptors at the Subject Property, a deed notice could be developed and applied that prohibits the installation of wells to supply water to urban residential receptors at the Subject Property.

Total metals results are summarized in **Table 1**.

3.2 Organochlorine Pesticides

Several organochlorine pesticides were reported at concentrations above the laboratory MRLs in the analyzed composite soil samples. 4,4'-dichlorodiphenyltrichloroethane (4,4'-DDT) and dieldrin were the only organochlorine pesticides reported at concentrations above the generic applicable RBCs.

4,4'-DDT was reported at concentrations ranging from 0.0060 mg/kg to 5.4 mg/kg. The 4,4'-DDT concentration reported in the composite soil sample collected from the DU3 area from a depth of 0.5 to 1.0 feet bgs exceeded the generic RBC for the *ingestion, dermal contact, and inhalation exposure pathway* for urban residential receptors of 4.6 mg/kg.

Dieldrin was reported at concentrations ranging from 0.00086 mg/kg to 0.093 mg/kg. The dieldrin concentration of 0.093 mg/kg reported in composite soil sample collected from the DU3 area from a depth of 0.5 to 1.0 feet bgs exceeded the urban residential generic RBCs for the *ingestion, dermal contact, and inhalation exposure pathway* of 0.085 mg/kg and for the *leaching to ground water exposure pathway* of 0.037 mg/kg.

In addition, several organochlorine pesticides in the upper 3.0 feet of soil exceeded the Clean Fill Values throughout the Subject Property. These included 4,4'-dichlorodiphenyldichloroethane (4,4'-DDD), 4,4'-dichlorodiphenyldichloroethene (4,4'-DDE), 4,4'-DDT, dieldrin, and endrin ketone. See Section 3.5 for Clean Fill data evaluation.



While 4,4'-DDT and dieldrin concentrations exceed the abovementioned RBCs, potential risks to human health associated with these constituents and exposure pathways can be managed, mitigated, and/or eliminated from further concern, as follows:

- The generic urban residential RBC for 4,4'-DDT and dieldrin under the *soil ingestion, dermal contact, and inhalation exposure pathway* assumes urban residential receptors are likely to come into contact with contaminated soils found in the upper 3 feet of soil. The reported concentrations of 4,4'-DDT and dieldrin exceeded the RBC for this exposure pathway in the composite soil sample collected from the DU3 area from a depth of 0.5 to 1.0 feet bgs. AEC recommends institutional and/or engineering controls be implemented to address the impacted area. Institutional and/or engineering control options to protect urban residential receptors include but are not limited to the following: paving; removal of shallow soil and/or covering the property with a 3-foot layer of clean compacted fill material; developing an asphalt cap maintenance plan; developing a CMMP approved by DEQ; and/or applying a deed notice (e.g. to ensure the asphalt cap is maintained).
- The generic urban residential RBC for dieldrin under the *leaching to groundwater exposure pathway* conservatively assumes that a water supply well is being used at the Subject Property, and that dieldrin could be leached from the shallow soil, impact groundwater, and that urban residential receptors could subsequently be exposed to dieldrin in drinking water. As mentioned in Section 3.1, given the future municipal water use, the absence of domestic wells at the Subject Property, and the assumed groundwater flow direction, it is highly unlikely potentially leached dieldrin from the shallow soil into groundwater at the Subject Property will pose an unacceptable risk to urban residential receptors at the Subject Property. Furthermore, dieldrin concentrations attenuate to below their respective generic RBCs for the *leaching to ground water exposure pathway* within the upper 2 feet of soil, indicating limited leaching is occurring. To completely eliminate the potential risk that leaching lead to groundwater might pose to urban residential receptors at the Subject Property, a deed notice could be developed and applied that prohibits the installation of wells to supply water to urban residential receptors at the Subject Property.

The organochlorine pesticides MRLs were below the generic applicable RBCs. The organochlorine pesticides results are summarized in **Table 2**.

3.3 Organophosphorus Pesticides

The analytical results reported no organophosphorus pesticides at concentrations above the laboratory MRLs in the analyzed composite soil samples. There are no established RBCs for organophosphorus pesticides. The organophosphorus pesticides MRLs were below their respective Clean Fill Values with the exception of the MRLs for dichlorvos. The organophosphorus pesticides results are summarized in **Table 3**.



3.4 Chlorinated Herbicides

Several chlorinated herbicides were reported at concentrations above the laboratory MRLs in the analyzed composite soil samples. 2-Methyl-4-chlorophenoxyacetic (MCPA) was the only chlorinated herbicides reported at concentrations above the generic applicable RBCs.

MCPA was reported in the three composite soil samples collected from DU1, DU2, and DU3 areas from 0.0 to 0.5 feet bgs at concentrations ranging from 3.5 mg/kg to 7.7 mg/kg, which exceeded the generic RBC for the *leaching to groundwater exposure pathway* for urban residential receptors of 0.40 mg/kg. MCPA in these three composite soil samples also exceeded the Clean Fill Value of 0.097 mg/kg (see Section 3.5 for Clean Fill data evaluation).

While MCPA concentrations exceed the abovementioned RBCs, potential risks to human health associated with this constituent and exposure pathways can be managed, mitigated, and/or eliminated from further concern, as follows:

- The generic urban residential RBC for MCPA under the *leaching to groundwater exposure pathway* conservatively assumes that a water supply well is being used at the Subject Property, and that MCPA could be leached from the shallow soil, impact groundwater, and that urban residential receptors could subsequently be exposed to dieldrin in drinking water. As mentioned in Section 3.1, given the future municipal water use, the absence of domestic wells at the Subject Property, and the assumed groundwater flow direction, it is highly unlikely potentially leached dieldrin from the shallow soil into groundwater at the Subject Property will pose an unacceptable risk to urban residential receptors at the Subject Property. Furthermore, dieldrin concentrations attenuate to below their respective generic RBCs for the *leaching to ground water exposure pathway* within the upper 2 feet of soil, indicating limited leaching is occurring. To completely eliminate the potential risk that leaching lead to groundwater might pose to urban residential receptors at the Subject Property, a deed notice could be developed and applied that prohibits the installation of wells to supply water to urban residential receptors at the Subject Property.

The chlorinated herbicides MRLs were below the generic applicable RBCs with the exception of the MRLs for MCPA, which exceeded the RBC for the *leaching to groundwater exposure pathway* for urban residential receptors. The chlorinated herbicides results are summarized in **Table 4**.

3.5 Clean Fill Determination

Based on the analytical results of the discrete and composite soil samples collected throughout the Subject Property, which are presented in **Table 1** through **Table 4**, the soil at the Subject Property within at least the upper 3 feet does not qualify as Clean Fill. The constituents reported at concentrations above the Clean Fill Values (which for metals are equivalent with the naturally occurring background concentrations of metals) within the 0.0 to 3.0 feet bgs depth interval include the following: arsenic, lead, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, dieldrin, endrin ketone, and MCPA.



It is concluded that soil within at least the upper 3 feet at the Subject Property should not be exported off of the Subject Property unless it is managed appropriately to ensure it does not adversely impact ecological receptors. For example, this soil could be properly disposed of at a quarry under a DEQ-approved Solid Waste Letter of Authorization (SWLA).

Nevertheless, the soil can be reused at the Subject Property (under a DEQ-approved Soil Removal Action and Soil Repository Management Plan). It should be noted that per the *Clean Fill Determinations* Internal Management Directive (DEQ, 2019), any soil with petroleum-like staining or a petroleum-like odor does not qualify as Clean Fill and should not be exported from the Subject Property unless it is properly managed. If soil at depths below 3 feet bgs is disturbed, it should be assessed for metals, organochlorine pesticides, and chlorinated herbicides prior to being moved off of the Subject Property.



4 CONCLUSIONS AND RECOMMENDATIONS

Subsequent to preliminary Phase I ESA investigations, AEC conducted a Phase II ESA at the Subject Property. Subsurface investigations were conducted in February and August 2022. These investigations included the following:

- The excavation of four test pits, identified as TP1 through TP8;
- The collection of four or five discrete soil samples from test pits TP1, TP4, TP6, and TP8 from depths of 0.0 to 0.5 feet bgs, 0.5 to 1.0 feet bgs, 1.0 to 1.5 feet bgs, 1.5 to 2.0 feet bgs, and 2.0 to 3.0 feet bgs;
- The preparation of one composite soil sample from the soil collected from 0.0 to 0.5 feet bgs from these four test pits;
- The laboratory analyses of 19 discrete soil samples for arsenic and lead by USEPA Method 6020B; the laboratory analysis of one composite soil sample for 17 metals by USEPA Method 6020B, organochlorine pesticides by USEPA Method 8081B, organophosphorus pesticides by USEPA Method 8270E, and chlorinated herbicides by USEPA Method 8151A;
- The partition of the Subject Property into three sampling areas identified as decision units DU1 through DU3;
- The excavation of four test pits in each DU area, for a total of 12 test pits, identified as TP9 through TP20;
- The collection of five subsamples from each test pit from depths of 0.0 to 0.5 feet bgs, 0.5 to 1.0 feet bgs, 1.0 to 1.5 feet bgs, 1.5 to 2.0 feet bgs, and 2.0 to 3.0 feet bgs;
- The preparation of five composite soil samples using ISM for each DU area for a total of 15 composite soil samples;
- The laboratory analyses of the discrete and composite soil samples for the following constituents: the 60 discrete soil samples were analyzed for arsenic and lead and the three composite soil samples collected from 0.0 to 0.5 feet bgs were analyzed for 17 metals by USEPA Method 6020A and 7471B; the 15 composite soil samples were analyzed for organochlorine pesticides by USEPA Method 8081B, organophosphorus pesticides by USEPA Method 8270E, and chlorinated herbicides by USEPA Method 8151A.

The analytical results reported in general a higher concentration of metals and pesticides constituents in the upper 2 feet of soil than in the underlying layer from 2.0 to 3.0 feet bgs. These data demonstrate concentrations of pesticides constituents attenuate fairly rapidly with depth.



Based on an evaluation of the analytical results for the discrete and composite soil samples collected at the Subject Property, several exceedances were reported. These include the following:

- Arsenic, lead, 4,4'-DDT, and dieldrin constituents were reported at concentrations above their respective generic RBCs for the *ingestion, dermal contact, and inhalation exposure pathway* for urban residential receptors;
- Arsenic was reported at concentrations above its respective generic RBC for the *ingestion, dermal contact, and inhalation exposure pathway* for construction workers;
- Lead, dieldrin, and MCPA constituents were reported at concentrations above their respective generic RBCs for the *leaching to groundwater exposure pathway* for urban residential receptors; and
- Several constituents were reported at concentrations above the Clean Fill Values in soil at depths ranging from 0.0 to 3.0 feet bgs; these included arsenic, lead, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, dieldrin, endrin ketone, and MCPA.

While generic RBCs for urban residential receptors and construction workers were exceeded for the aforementioned constituents and exposure pathways, potential risks to human health associated with these constituents and exposure pathways can be managed, mitigated, and/or eliminated from further concern, as follows:

- The generic residential RBC under the *soil ingestion, dermal contact, and inhalation exposure pathway* assumes urban residential receptors are likely to come into contact with contaminated soils found in the upper 3 feet of soil. The concentrations of arsenic, lead, 4,4'-DDT, and dieldrin within the upper 3 feet of soil exceeded the RBCs for this exposure pathway. The reported concentrations of arsenic and lead also exceeded the naturally occurring background concentration. AEC recommends institutional and/or engineering controls be implemented to address the impacted areas. Institutional and/or engineering control options to protect urban residential receptors include but are not limited to the following: paving; removal of shallow soil and/or covering the property with a 3-foot layer of clean compacted fill material; developing an asphalt cap maintenance plan; developing a CMMP approved by DEQ; and/or applying a deed notice (e.g. to ensure the asphalt cap is maintained).
- The generic construction workers RBC for arsenic under the *soil ingestion, dermal contact, and inhalation exposure pathway* assumes construction workers could be exposed over 1 year to arsenic during construction activities involving the disturbance of impacted-soils. However, it is unlikely construction workers would be working on the Subject Property continuously for 1 year. Furthermore, this risk could be easily mitigated with proper communication to future construction workers requiring dust suppression and/or that they wear appropriate PPE and follow proper decontamination procedures subsequent to working in order to avoid exposure and health risks. The procedures documenting proper communication, appropriate PPE, and proper decontamination could be documented in a CMMP approved by DEQ.
- The generic residential RBC for lead, dieldrin, and MCPA under the *leaching to groundwater exposure pathway* conservatively assumes that a water supply well is



being used on the Subject Property and that these constituents could be leached from the shallow soil, impact groundwater, and that urban residential receptors could subsequently be exposed to these constituents in drinking water. According to LLE, the Subject Property will be developed for multi-unit residential use and will be serviced with municipal water by the Medford Water. The neighboring properties utilize private well water and/or municipal water and will likely continue to utilize private well water and/or municipal water in the future. Currently there are no wells used for domestic purposes at the Subject Property. Based on professional judgment, groundwater flow direction at the Subject Property is assumed to be to the northeast, likely towards Bear Creek. Therefore, given the future municipal water use, the absence of domestic wells at the Subject Property, and the assumed groundwater flow direction, it is highly unlikely potentially leached lead, dieldrin, and MCPA from the shallow soil into groundwater at the Subject Property will pose an unacceptable risk to urban residential receptors at the Subject Property. Furthermore, dieldrin and MCPA concentrations and most of lead concentrations attenuate to below their respective generic RBCs for the *leaching to ground water exposure pathway* within the upper 2 feet of soil, indicating limited leaching is occurring. To completely eliminate the potential risk that leaching lead to groundwater might pose to urban residential receptors at the Subject Property, a deed notice could be developed and applied that prohibits the installation of wells to supply water to urban residential receptors at the Subject Property.

- The Clean Fill Values were exceeded by several constituents (arsenic, lead, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, dieldrin, endrin ketone, and MCPA) in the investigated upper 3 feet of soil throughout the Subject Property. If soil at this depth throughout the Subject Property is excavated, it can be reused at the Subject Property. However, if this soil is exported off of the Subject Property, it should be managed appropriately to ensure it does not adversely impact ecological receptors. For example, this soil could be properly disposed of at a quarry under a DEQ-approved SWLA.

The available data indicate historical orchard practices at the Subject Property involving pesticides have adversely impacted soil. The available data reflect the adverse impacts are in the soil within the investigated interval of 0.0 to 3.0 feet bgs. Based on these findings and accounting for the inherent uncertainties associated with any subsurface investigation, AEC recommends the following:

- Consider developing and applying a deed notice that prohibits the installation of wells to supply water to urban residential receptors at the Subject Property unless groundwater investigations are conducted prior to well installation.
- Consider developing a Health and Safety Plan (HASP). The HASP should inform the future construction workers of the contaminants present in shallow soil at the Subject Property, and should require the construction workers to wear appropriate PPE and to follow proper decontamination procedures subsequent to working in order to avoid exposure and health risks. The procedures documenting proper communication, appropriate PPE, and proper decontamination could be also documented in a CMMP approved by DEQ.



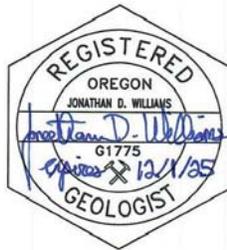
- During development activities, appropriately manage potential risks associated with residual pesticides concentrations in shallow soil that are above generic RBCs and/or Clean Fill values in the upper 3.0 feet throughout the Subject Property. If the upper 3 feet of soil at the Subject Property is to be excavated during development and moved off-site, the soil should be disposed of consistent with DEQ regulations, examples being disposal under a DEQ-approved SWLA or disposal at an approved landfill (e.g. Dry Creek Landfill). If soil below 3 feet bgs is planned to be excavated, it should be assumed Clean Fill Values have been exceeded unless additional characterization has been completed.
- It should be noted that per the *Clean Fill Determinations* Internal Management Directive (DEQ, 2019), any soil with petroleum-like staining or a petroleum-like odor does not qualify as Clean Fill and should not be exported from the Hillcrest Development Site unless it is properly managed.
- XXXXX Other?

Please feel free to contact Jonathan Williams at 541-944-4685 or jwilliams@alpine-env-llc.com if you have any questions about this Phase II ESA report.

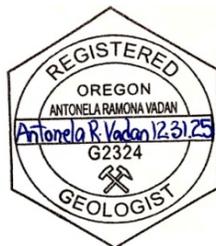
Sincerely,

Alpine Environmental Consultants, LLC

Jonathan D. Williams, R.G.
Senior Hydrogeologist



Antonela Vadan, R.G.
Project Geologist



5 REFERENCES

Oregon DEQ. March 2013. *Development of Oregon Background Metals Concentrations in Soil*, Technical report. Land Quality Division, Cleanup Program. (DEQ, 2013).

Oregon DEQ. October 2, 2017. *Risk-Based Decision Making for the Remediation of Contaminated Sites*. Environmental Cleanup and Tanks Program, Oregon DEQ. (DEQ, 2017).

Oregon DEQ. February 21, 2019. *Clean Fill Determinations*, Internal Management Directive. (DEQ, 2019).



6 LIMITATIONS

The purpose of an environmental assessment is to reasonably evaluate the potential for or actual impact of past practices on a given site area. In performing an environmental assessment, it is understood that a balance must be struck between a reasonable inquiry into the environmental issues and an exhaustive analysis of each conceivable issue of potential concern. This environmental assessment contains professional opinions as to the environmental issues of concern and/or additional actions, which may be addressed to the property. In rendering its professional opinion, we warrant that services provided hereunder were performed, within the limits described, consistent with current generally accepted environmental consulting principles and practices. No other warranty, express or implied, is made. The following paragraphs discuss the assumptions and parameters under which such an opinion is rendered.

No investigation is thorough enough to exclude the presence of hazardous materials at a given site. If hazardous conditions have not been identified during the assessment, such a finding should not therefore be construed as a guarantee of the absence of such materials on the site, but rather as the result of the services performed within the scope, limitations, and cost of the work performed.

Any opinions or recommendations presented apply to site conditions existing when services were performed. We are unable to report on or accurately predict events that may change the site conditions after the described services are performed, whether occurring naturally or caused by external forces. We assume no responsibility for conditions we were not authorized to investigate, or conditions not generally recognized as environmentally unacceptable when services were performed.

Environmental conditions may exist at the site that cannot be identified by visual observation. Where the scope of services was limited to observations made during site reconnaissance, interviews, review of readily available reports and literature or any combination, any conclusions or recommendations or both are necessarily based in part on information supplied by others, the accuracy or sufficiency of which we may not have independently reviewed.

Where subsurface work was performed, our professional opinions are based in part on interpretation of data from discrete sampling locations that may not represent actual conditions at unsampled locations.

Except where there is express concern of our client, or where specific environmental contaminants have been previously reported by others, naturally occurring toxic substances, potential environmental contaminants inside buildings, or contaminant concentrations that are not of current environmental concern may not be reflected in this document.



We are not responsible for any potential impact of changes in applicable environmental standards, practices, or regulations following performance of services, on the conclusions or recommendations, or both, of the study.

Services hereunder were performed consistent with our agreement and understanding with, and solely for the use of, our client. Opinions and recommendations are intended for the client, purpose, site, location, time frame, and project parameters indicated. We are not responsible for subsequent separation, detachment, or partial use of this document. Any reliance on this report by a third party shall be at such party's sole risk.



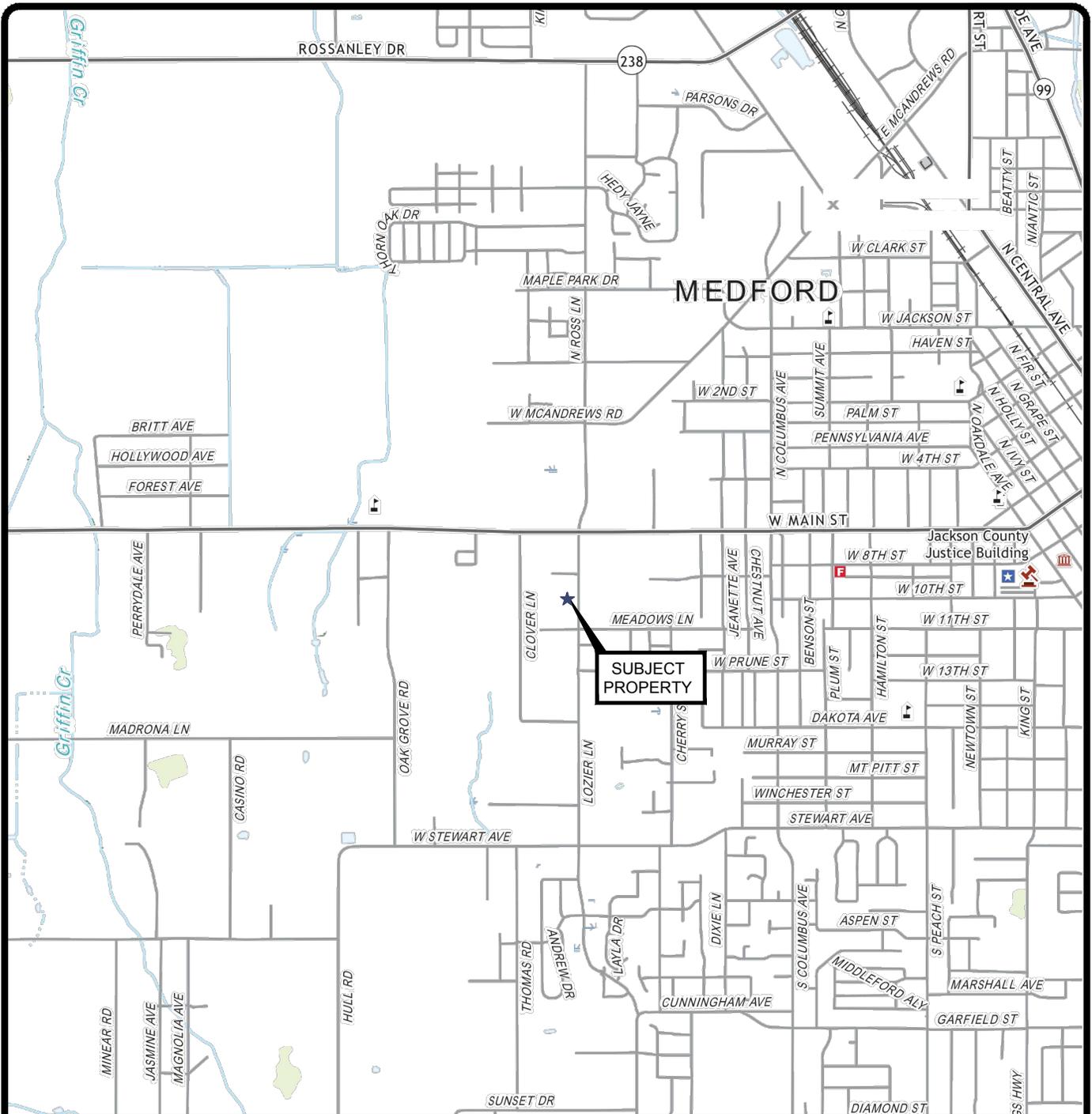
7 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Mr. Jonathan Williams received a Bachelor of Science degree in Geology, with honors, from Duke University in 1987. He has over 31 years experience working with geologic and environmental reports, including Phase I and II ESAs. Mr. Williams has been a Registered Geologist in the State of Oregon since 1996, and has 40-hour HAZWOPER training.

Ms. Antonela Vadan holds a Bachelor of Arts and Science in Earth and Environmental Sciences from the University of Illinois at Chicago. She has over 22 years of experience in both the private and public sector. Ms. Vadan has conducted multiple Phase I and II ESAs. Additional project activities have included risk assessments, remedial investigations/feasibility studies, soil and groundwater investigations, and indoor air quality investigations. Ms. Vadan is a Registered Geologist in the States of Oregon and Washington and has 40-hour HAZWOPER training.



FIGURES



SOURCE: U.S.G.S. 7.5 MINUTE TOPOGRAPHIC QUADRANGLE
 MEDFORD WEST, OR (2020)



ALPINE ENVIRONMENTAL CONSULTANTS, LLC

DATE: 6/20/22

DRAWN BY: SM

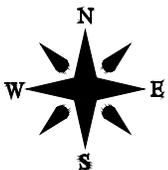
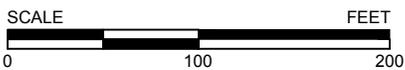
Figure 1
 Subject Property Location Map
 Supplemental Phase II ESA
 111 Lozier Lane, Medford, Oregon



SOURCE: GOOGLE EARTH (2020)

LEGEND

- TP9 ○ Approximate Location of Supplemental Test Pit
- TP1 ● Approximate Location of Sampled Test Pit, February 11, 2022
- DU-1 Approximate Decision Unit Area
- Approximate Subject Property Boundary



ALPINE ENVIRONMENTAL CONSULTANTS, LLC

DATE: 11/14/22 DRAWN BY: SRM

Figure 2
 Test Pit Location Map
 Supplemental Phase II ESA
 111 Lozier Lane, Medford, Oregon

TABLES

Table 1. Soil Samples Analytical Results - Total Metals
Phase II Environmental Site Assessment: 110, 158, and 204 Lozier Lane, Medford, Oregon 97501

Parameter	DEQ Risk-Based Concentrations for Soil (a)					DEQ's Clean Fill screening levels for Klamath Mountains province and background metals in Soil (f), (g)					Test Pit Samples						
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Leaching to Groundwater (d)		TP18-6-12	TP18-12-18	TP19-0-6	TP19-6-12	TP20-0-6	TP20-6-12	TP20-12-18	TP20-18-24	DU3-0-6		
							Discrete samples from test pit TP19 located on the northern portion of TL 1500, on Decision Unit				Discrete samples from test pit TP19 located on the eastern portion of TL 1500, on Decision Unit Area 3				Composite samples from test pits TP17		
	U. R.	C.W.	E.W.	U. R.	U. R.		0.5-1.0 ft bgs	1.0-1.5 ft bgs	0-0.5 ft bgs	0.5-1.0 ft bgs	0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	0-0.5 ft bgs		
									8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	08/13/22
Total Metals (mg/kg)																	
USEPA 6020B (ICP-MS)																	
Antimony	NE	NE	NE	NE	NE	0.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.329	
Arsenic	1.0	15	420	NV	*	12	7.66	8.40	5.43	4.17	6.28	6.10	4.55	4.56	8.07		
Barium	31,000	69,000	>Max	NV	*	630	NA	NA	NA	NA	NA	NA	NA	NA	128		
Beryllium	310	700	19,000	NV	*	1.4	NA	NA	NA	NA	NA	NA	NA	NA	0.407		
Cadmium	160	350	9,700	NV	*	0.52	NA	NA	NA	NA	NA	NA	NA	NA	0.266		
Chromium (III)	230,000	530,000	>Max	NV	*	890	NA	NA	NA	NA	NA	NA	NA	NA	38.6		
Cobalt	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	18.5		
Copper	6,200	14,000	390,000	NV	*	110	NA	NA	NA	NA	NA	NA	NA	NA	55.2		
Lead	400	800	800	NV	30	36	105	117	112	257	57.6	340	456	421	79.7		
Mercury	23	110	2,900	NV	*	0.17	NA	NA	NA	NA	NA	NA	NA	NA	0.135		
Molybdenum	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	0.443		
Nickel	3,100	7,000	190,000	NV	*	630	NA	NA	NA	NA	NA	NA	NA	NA	23.0		
Selenium	NE	NE	NE	NE	NE	0.8	NA	NA	NA	NA	NA	NA	NA	NA	0.13 J		
Silver	780	1,800	49,000	NV	*	0.16	NA	NA	NA	NA	NA	NA	NA	NA	0.167		
Thallium	NE	NE	NE	NE	NE	0.31	NA	NA	NA	NA	NA	NA	NA	NA	0.077		
Vanadium	NE	NE	NE	NE	NE	290	NA	NA	NA	NA	NA	NA	NA	NA	68.1		
Zinc	NE	NE	NE	NE	NE	140	NA	NA	NA	NA	NA	NA	NA	NA	98.7		

See notes on next page.

Table 1. Soil Samples Analytical Results - Total Metals
Phase II Environmental Site Assessment: 110, 158, and 204 Lozier Lane, Medford, Oregon 97501

Parameter	DEQ Risk-Based Concentrations for Soil (a)					DEQ's Clean Fill screening levels for Klamath Mountains province and background metals in Soil (f), (g)	Test Pit Samples									
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Leaching to Groundwater (d)		TP1-0-6	TP1-6-12	TP1-12-18	TP1-18-24	TP4-0-6	TP4-6-12	TP4-12-18	TP4-18-24	TP4-24-36	
	Discrete samples from test pit TP1 located on the northeastern portion of the Subject Property, on TL 1200						Discrete samples from test pit TP4 located on the western portion of the Subject Property, on TL 1300									
	U. R.	C.W.	E.W.	U. R.	U. R.		0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs	
					02/11/22					02/11/22						
Total Metals (mg/kg)																
USEPA 6020A, 6020B, 7471B (ICP-MS)																
Antimony	NE	NE	NE	NE	NE	0.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Arsenic	1.0	15	420	NV	*	12	7.53	7.25	4.78	3.32	3.26	3.28	4.04	6.65	7.72	
Barium	31,000	69,000	>Max	NV	*	630	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Beryllium	310	700	19,000	NV	*	1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	160	350	9,700	NV	*	0.52	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium (III)	230,000	530,000	>Max	NV	*	890	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cobalt	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	6,200	14,000	390,000	NV	*	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	400	800	800	NV	30	36	106	63.8	15.5	9.57	20.2	20.3	15.2	245	47.6	
Mercury	23	110	2,900	NV	*	0.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Molybdenum	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nickel	3,100	7,000	190,000	NV	*	630	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium	NE	NE	NE	NE	NE	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	780	1,800	49,000	NV	*	0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Thallium	NE	NE	NE	NE	NE	0.31	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium	NE	NE	NE	NE	NE	290	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	NE	NE	NE	NE	NE	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	

See notes on next page.

Table 1. Soil Samples Analytical Results - Total Metals
Phase II Environmental Site Assessment: 110, 158, and 204 Lozier Lane, Medford, Oregon 97501

Parameter	DEQ Risk-Based Concentrations for Soil (a)					DEQ's Clean Fill screening levels for Klamath Mountains province and background metals in Soil (f), (g)	Test Pit Samples									
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Leaching to Groundwater (d)		TP6-0-6	TP6-6-12	TP6-12-18	TP6-18-24	TP6-24-36	TP8-0-6	TP8-6-12	TP8-12-18	TP8-18-24	TP8-24-36
	U. R.	C.W.	E.W.	U. R.	U. R.		Discrete samples from test pit TP6 located on the southern portion of the Subject Property, on TL 1500					Discrete samples from test pit TP8 located on the central portion of the Subject Property, on TL 11200				
							0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs	0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs
						02/11/22	02/11/22	02/11/22	02/11/22	02/11/22	02/11/22	02/11/22	02/11/22	02/11/22	02/11/22	
Total Metals (mg/kg)																
USEPA 6020A, 6020B, 7471B (ICP-MS)																
Antimony	NE	NE	NE	NE	NE	0.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Arsenic	1.0	15	420	NV	*	12	3.22	4.28	4.25	4.55	4.06	18.1	6.03	6.12	8.07	4.68
Barium	31,000	69,000	>Max	NV	*	630	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Beryllium	310	700	19,000	NV	*	1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	160	350	9,700	NV	*	0.52	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium (III)	230,000	530,000	>Max	NV	*	890	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cobalt	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	6,200	14,000	390,000	NV	*	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	400	800	800	NV	30	36	12.5	15.7	20.1	205	11.0	98.4	241	175	29.0	3.89
Mercury	23	110	2,900	NV	*	0.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Molybdenum	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nickel	3,100	7,000	190,000	NV	*	630	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium	NE	NE	NE	NE	NE	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	780	1,800	49,000	NV	*	0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Thallium	NE	NE	NE	NE	NE	0.31	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium	NE	NE	NE	NE	NE	290	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	NE	NE	NE	NE	NE	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	

See notes on next page.

Table 1. Soil Samples Analytical Results - Total Metals
Phase II Environmental Site Assessment: 110, 158, and 204 Lozier Lane, Medford, Oregon 97501

Parameter	DEQ Risk-Based Concentrations for Soil (a)					DEQ's Clean Fill screening levels for Klamath Mountains province and background metals in Soil (f), (g)	Test Pit Samples									
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Leaching to Groundwater (d)		COMP1-0.0-0.5	TP9-0-6	TP9-6-12	TP9-12-18	TP9-18-24	TP9-24-36				
	U. R.	C.W.	E.W.				Composite sample from test pits TP1, TP4, TP6, and TP8						Discrete samples from test pit TP9 located on the northwestern portion of TL 1200, on Decision Unit Area 1			
				U. R.	U. R.		0-0.5 ft bgs	0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs				
					2/11/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022						
Total Metals (mg/kg)																
USEPA 6020A, 6020B, 7471B (ICP-MS)																
Antimony	NE	NE	NE	NE	NE	0.59	1.27U	NA	NA	NA	NA	NA				
Arsenic	1.0	15	420	NV	*	12	5.75	4.39	4.35	4.83	4.16	6.47				
Barium	31,000	69,000	>Max	NV	*	630	131	NA	NA	NA	NA	NA				
Beryllium	310	700	19,000	NV	*	1.4	0.531	NA	NA	NA	NA	NA				
Cadmium	160	350	9,700	NV	*	0.52	0.263	NA	NA	NA	NA	NA				
Chromium (III)	230,000	530,000	>Max	NV	*	890	49.6	NA	NA	NA	NA	NA				
Cobalt	NE	NE	NE	NE	NE	NE	13.2	NA	NA	NA	NA	NA				
Copper	6,200	14,000	390,000	NV	*	110	60.3	NA	NA	NA	NA	NA				
Lead	400	800	800	NV	30	36	50.2	6.50	3.76	4.20	3.92	3.99				
Mercury	23	110	2,900	NV	*	0.17	0.102U	NA	NA	NA	NA	NA				
Molybdenum	NE	NE	NE	NE	NE	NE	1.27U	NA	NA	NA	NA	NA				
Nickel	3,100	7,000	190,000	NV	*	630	23.1	NA	NA	NA	NA	NA				
Selenium	NE	NE	NE	NE	NE	0.8	1.27U	NA	NA	NA	NA	NA				
Silver	780	1,800	49,000	NV	*	0.16	0.254U	NA	NA	NA	NA	NA				
Thallium	NE	NE	NE	NE	NE	0.31	0.254U	NA	NA	NA	NA	NA				
Vanadium	NE	NE	NE	NE	NE	290	60.2 Q-42	NA	NA	NA	NA	NA				
Zinc	NE	NE	NE	NE	NE	140	109	NA	NA	NA	NA	NA				

See notes on next page.

Table 1. Soil Samples Analytical Results - Total Metals
Phase II Environmental Site Assessment: 110, 158, and 204 Lozier Lane, Medford, Oregon 97501

Parameter	DEQ Risk-Based Concentrations for Soil (a)					DEQ's Clean Fill screening levels for Klamath Mountains province and background metals in Soil (f), (g)	Test Pit Samples									
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Leaching to Groundwater (d)		TP10-0-6	TP10-6-12	TP10-12-18	TP10-18-24	TP10-24-36	TP11-0-6	TP11-6-12	TP11-12-18	TP11-18-24	TP11-24-36
	U. R.	C.W.	E.W.				Discrete samples from test pit TP10 located on the northern portion of TL 1200, on Decision Unit Area 1					Discrete samples from test pit TP11 located on the northern portion of TL 1200, on Decision Unit Area 1				
				U. R.	U. R.		0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs	0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs
					8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022		
Total Metals (mg/kg)																
USEPA 6020A, 6020B, 7471B (ICP-MS)																
Antimony	NE	NE	NE	NE	NE	0.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Arsenic	1.0	15	420	NV	*	12	6.43	5.71	5.44	6.68	5.96	4.50	4.45	4.19	4.80	5.09
Barium	31,000	69,000	>Max	NV	*	630	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Beryllium	310	700	19,000	NV	*	1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	160	350	9,700	NV	*	0.52	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium (III)	230,000	530,000	>Max	NV	*	890	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cobalt	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	6,200	14,000	390,000	NV	*	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	400	800	800	NV	30	36	28.1	10.7	4.70	3.85	4.14	20.6	22.8	11.9	4.91	4.71
Mercury	23	110	2,900	NV	*	0.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Molybdenum	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Nickel	3,100	7,000	190,000	NV	*	630	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium	NE	NE	NE	NE	NE	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Silver	780	1,800	49,000	NV	*	0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Thallium	NE	NE	NE	NE	NE	0.31	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium	NE	NE	NE	NE	NE	290	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	NE	NE	NE	NE	NE	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	

See notes on next page.

Table 1. Soil Samples Analytical Results - Total Metals
Phase II Environmental Site Assessment: 110, 158, and 204 Lozier Lane, Medford, Oregon 97501

Parameter	DEQ Risk-Based Concentrations for Soil (a)					DEQ's Clean Fill screening levels for Klamath Mountains province and background metals in Soil (f), (g)	Test Pit Samples									
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Leaching to Groundwater (d)		TP12-0-6	TP12-6-12	TP12-12-18	TP12-18-24	TP12-24-36	TP13-0-6	TP13-6-12	TP13-12-18	TP13-18-24	TP13-24-36
	U. R.	C.W.	E.W.				Discrete samples from test pit TP12 located on the northeastern portion of TL 1200, on Decision Unit Area 1					Discrete samples from test pit TP13 located on the western portion of TL 1200, on Decision Unit Area 2				
				U. R.	U. R.		0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs	0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs
					8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022		
Total Metals (mg/kg)																
USEPA 6020A, 6020B, 7471B (ICP-MS)																
Antimony	NE	NE	NE	NE	NE	0.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Arsenic	1.0	15	420	NV	*	12	8.04	10.1	7.12	5.63	5.54	8.53	5.73	7.66	7.86	10.3
Barium	31,000	69,000	>Max	NV	*	630	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	310	700	19,000	NV	*	1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	160	350	9,700	NV	*	0.52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (III)	230,000	530,000	>Max	NV	*	890	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	6,200	14,000	390,000	NV	*	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400	800	800	NV	30	36	15.5	76.2	42.7	6.68	4.44	15.6	7.46	4.36	4.06	3.33
Mercury	23	110	2,900	NV	*	0.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	3,100	7,000	190,000	NV	*	630	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NE	NE	NE	NE	NE	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	780	1,800	49,000	NV	*	0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NE	NE	NE	NE	NE	0.31	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NE	NE	NE	290	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NE	NE	NE	NE	NE	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See notes on next page.

Table 1. Soil Samples Analytical Results - Total Metals
Phase II Environmental Site Assessment: 110, 158, and 204 Lozier Lane, Medford, Oregon 97501

Parameter	DEQ Risk-Based Concentrations for Soil (a)					DEQ's Clean Fill screening levels for Klamath Mountains province and background metals in Soil (f), (g)	Test Pit Samples									
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Leaching to Groundwater (d)		TP14-0-6	TP14-6-12	TP14-12-18	TP14-18-24	TP14-24-36	TP15-0-6	TP15-6-12	TP15-12-18	TP15-18-24	TP15-24-36
	U. R.	C.W.	E.W.				Discrete samples from test pit TP14 located on the north central area of TL 1300, on Decision Unit Area 2					Discrete samples from test pit TP15 located on the southeastern portion of TL 1200, on Decision Unit Area 2				
	U. R.	C.W.	E.W.	U. R.	U. R.		0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs	0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs
						8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	
Total Metals (mg/kg)																
USEPA 6020A, 6020B, 7471B (ICP-MS)																
Antimony	NE	NE	NE	NE	NE	0.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	1.0	15	420	NV	*	12	5.36	4.06	4.84	5.43	5.69	5.04	6.36	5.95	4.23	4.69
Barium	31,000	69,000	>Max	NV	*	630	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	310	700	19,000	NV	*	1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	160	350	9,700	NV	*	0.52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (III)	230,000	530,000	>Max	NV	*	890	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	6,200	14,000	390,000	NV	*	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400	800	800	NV	30	36	35.2	195	177	29.2	12.1	20.9	33.8	51.9	6.38	4.98
Mercury	23	110	2,900	NV	*	0.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	3,100	7,000	190,000	NV	*	630	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NE	NE	NE	NE	NE	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	780	1,800	49,000	NV	*	0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NE	NE	NE	NE	NE	0.31	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NE	NE	NE	290	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NE	NE	NE	NE	NE	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See notes on next page.

Table 1. Soil Samples Analytical Results - Total Metals
Phase II Environmental Site Assessment: 110, 158, and 204 Lozier Lane, Medford, Oregon 97501

Parameter	DEQ Risk-Based Concentrations for Soil (a)					DEQ's Clean Fill screening levels for Klamath Mountains province and background metals in Soil (f), (g)	Test Pit Samples									
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Leaching to Groundwater (d)		TP16-0-6	TP16-6-12	TP16-12-18	TP16-18-24	TP16-24-36	TP17-0-6	TP17-6-12	TP17-12-18	TP17-18-24	TP17-24-36
	U. R.	C.W.	E.W.				Discrete samples from test pit TP16 located on the northeastern area of TL 1400, on Decision Unit Area 2					Discrete samples from test pit TP17 located on the western portion of TL 1500, on Decision Unit Area 3				
							0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs	0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs
					8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	
Total Metals (mg/kg)																
USEPA 6020A, 6020B, 7471B (ICP-MS)																
Antimony	NE	NE	NE	NE	NE	0.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	1.0	15	420	NV	*	12	3.13	5.48	7.74	20.7	5.59	16.0	11.2	6.03	7.09	5.73
Barium	31,000	69,000	>Max	NV	*	630	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	310	700	19,000	NV	*	1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	160	350	9,700	NV	*	0.52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (III)	230,000	530,000	>Max	NV	*	890	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	6,200	14,000	390,000	NV	*	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400	800	800	NV	30	36	13.0	21.1	26.5	63.2	9.83	104	29.7	9.02	5.70	3.32
Mercury	23	110	2,900	NV	*	0.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	3,100	7,000	190,000	NV	*	630	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NE	NE	NE	NE	NE	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	780	1,800	49,000	NV	*	0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NE	NE	NE	NE	NE	0.31	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NE	NE	NE	290	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NE	NE	NE	NE	NE	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See notes on next page.

Table 1. Soil Samples Analytical Results - Total Metals
Phase II Environmental Site Assessment: 110, 158, and 204 Lozier Lane, Medford, Oregon 97501

Parameter	DEQ Risk-Based Concentrations for Soil (a)					DEQ's Clean Fill screening levels for Klamath Mountains province and background metals in Soil (f), (g)	Test Pit Samples									
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Leaching to Groundwater (d)		TP18-0-6	TP18-6-12	TP18-12-18	TP18-18-24	TP18-24-36	TP19-0-6	TP19-6-12	TP19-12-18	TP19-18-24	TP19-24-36
	U. R.	C.W.	E.W.				Discrete samples from test pit TP18 located on the southern portion of TL 1500, on Decision Unit Area 3					Discrete samples from test pit TP19 located on the northern portion of TL 1500, on Decision Unit Area 3				
				U. R.	U. R.		0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs	0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs
						8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	
Total Metals (mg/kg)																
USEPA 6020A, 6020B, 7471B (ICP-MS)																
Antimony	NE	NE	NE	NE	NE	0.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	1.0	15	420	NV	*	12	5.81	7.66	8.40	4.74	6.37	5.43	4.17	4.42	4.13	4.80
Barium	31,000	69,000	>Max	NV	*	630	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	310	700	19,000	NV	*	1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	160	350	9,700	NV	*	0.52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (III)	230,000	530,000	>Max	NV	*	890	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	6,200	14,000	390,000	NV	*	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400	800	800	NV	30	36	3.63	105	117	5.65	4.82	112	257	15.5	5.36	10.7
Mercury	23	110	2,900	NV	*	0.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	3,100	7,000	190,000	NV	*	630	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NE	NE	NE	NE	NE	0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	780	1,800	49,000	NV	*	0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NE	NE	NE	NE	NE	0.31	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NE	NE	NE	NE	290	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NE	NE	NE	NE	NE	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See notes on next page.

Table 1. Soil Samples Analytical Results - Total Metals
Phase II Environmental Site Assessment: 110, 158, and 204 Lozier Lane, Medford, Oregon 97501

Parameter	DEQ Risk-Based Concentrations for Soil (a)					DEQ's Clean Fill screening levels for Klamath Mountains province and background metals in Soil (f), (g)	Test Pit Samples									
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Leaching to Groundwater (d)		TP20-0-6	TP20-6-12	TP20-12-18	TP20-18-24	TP20-24-36	DU1-0-6	DU1-6-12	DU1-12-18	DU1-18-24	DU1-24-26
	U. R.	C.W.	E.W.				Discrete samples from test pit TP19 located on the eastern portion of TL 1500, on Decision Unit Area 3					Composite samples from test pits TP9 through TP12 located on Decision Unit Area 1 on the northern portion of TL 1200				
				U. R.	U. R.		0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs	0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs
						8/10/2022	8/10/2022	8/10/2022	8/10/2022	8/10/2022	08/13/22	08/13/22	08/13/22	08/13/22	08/13/22	
Total Metals (mg/kg)																
USEPA 6020A, 6020B, 7471B (ICP-MS)																
Antimony	NE	NE	NE	NE	NE	0.59	NA	NA	NA	NA	NA	0.206	NA	NA	NA	NA
Arsenic	1.0	15	420	NV	*	12	6.28	6.10	4.55	4.56	5.05	6.44	NA	NA	NA	NA
Barium	31,000	69,000	>Max	NV	*	630	NA	NA	NA	NA	NA	169	NA	NA	NA	NA
Beryllium	310	700	19,000	NV	*	1.4	NA	NA	NA	NA	NA	0.474	NA	NA	NA	NA
Cadmium	160	350	9,700	NV	*	0.52	NA	NA	NA	NA	NA	0.148	NA	NA	NA	NA
Chromium (III)	230,000	530,000	>Max	NV	*	890	NA	NA	NA	NA	NA	44.1	NA	NA	NA	NA
Cobalt	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	27.9	NA	NA	NA	NA
Copper	6,200	14,000	390,000	NV	*	110	NA	NA	NA	NA	NA	53.7	NA	NA	NA	NA
Lead	400	800	800	NV	30	36	57.6	340	456	421	14.0	22.5	NA	NA	NA	NA
Mercury	23	110	2,900	NV	*	0.17	NA	NA	NA	NA	NA	0.036	NA	NA	NA	NA
Molybdenum	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	0.407	NA	NA	NA	NA
Nickel	3,100	7,000	190,000	NV	*	630	NA	NA	NA	NA	NA	29.7	NA	NA	NA	NA
Selenium	NE	NE	NE	NE	NE	0.8	NA	NA	NA	NA	NA	0.1 J	NA	NA	NA	NA
Silver	780	1,800	49,000	NV	*	0.16	NA	NA	NA	NA	NA	0.045	NA	NA	NA	NA
Thallium	NE	NE	NE	NE	NE	0.31	NA	NA	NA	NA	NA	0.094	NA	NA	NA	NA
Vanadium	NE	NE	NE	NE	NE	290	NA	NA	NA	NA	NA	74.6	NA	NA	NA	NA
Zinc	NE	NE	NE	NE	NE	140	NA	NA	NA	NA	NA	82.7	NA	NA	NA	NA

See notes on next page.

Table 1. Soil Samples Analytical Results - Total Metals
Phase II Environmental Site Assessment: 110, 158, and 204 Lozier Lane, Medford, Oregon 97501

Parameter	DEQ Risk-Based Concentrations for Soil (a)					DEQ's Clean Fill screening levels for Klamath Mountains province and background metals in Soil (f), (g)	Test Pit Samples									
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Leaching to Groundwater (d)		DU2-0-6	DU2-6-12	DU2-12-18	DU2-18-24	DU2-24-26	DU3-0-6	DU3-6-12	DU3-12-18	DU3-18-24	DU3-24-26
	U. R.	C.W.	E.W.				Composite samples from test pits TP13 through TP16 located on Decision Unit Area 2 on the southern portion of TL 1200 and on TL 1300 and TL 1400					Composite samples from test pits TP17 through TP20 located on Decision Unit Area 3 on TL 1500				
	U. R.	C.W.	E.W.	U. R.	U. R.		0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs	0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs
U. R.	C.W.	E.W.	U. R.	U. R.	08/13/22	08/13/22	08/13/22	08/13/22	08/13/22	08/13/22	08/13/22	08/13/22	08/13/22	08/13/22	08/13/22	
Total Metals (mg/kg)																
USEPA 6020A, 6020B, 7471B (ICP-MS)																
Antimony	NE	NE	NE	NE	NE	0.59	0.222	NA	NA	NA	NA	0.329	NA	NA	NA	NA
Arsenic	1.0	15	420	NV	*	12	7.13	NA	NA	NA	NA	8.07	NA	NA	NA	NA
Barium	31,000	69,000	>Max	NV	*	630	219	NA	NA	NA	NA	128	NA	NA	NA	NA
Beryllium	310	700	19,000	NV	*	1.4	0.470	NA	NA	NA	NA	0.407	NA	NA	NA	NA
Cadmium	160	350	9,700	NV	*	0.52	0.197	NA	NA	NA	NA	0.266	NA	NA	NA	NA
Chromium (III)	230,000	530,000	>Max	NV	*	890	37.4	NA	NA	NA	NA	38.6	NA	NA	NA	NA
Cobalt	NE	NE	NE	NE	NE	NE	30.9	NA	NA	NA	NA	18.5	NA	NA	NA	NA
Copper	6,200	14,000	390,000	NV	*	110	54.1	NA	NA	NA	NA	55.2	NA	NA	NA	NA
Lead	400	800	800	NV	30	36	26.2	NA	NA	NA	NA	79.7	NA	NA	NA	NA
Mercury	23	110	2,900	NV	*	0.17	0.088	NA	NA	NA	NA	0.135	NA	NA	NA	NA
Molybdenum	NE	NE	NE	NE	NE	NE	0.491	NA	NA	NA	NA	0.443	NA	NA	NA	NA
Nickel	3,100	7,000	190,000	NV	*	630	27.8	NA	NA	NA	NA	23.0	NA	NA	NA	NA
Selenium	NE	NE	NE	NE	NE	0.8	0.1 J	NA	NA	NA	NA	0.13 J	NA	NA	NA	NA
Silver	780	1,800	49,000	NV	*	0.16	0.043	NA	NA	NA	NA	0.167	NA	NA	NA	NA
Thallium	NE	NE	NE	NE	NE	0.31	0.152	NA	NA	NA	NA	0.077	NA	NA	NA	NA
Vanadium	NE	NE	NE	NE	NE	290	83.8	NA	NA	NA	NA	68.1	NA	NA	NA	NA
Zinc	NE	NE	NE	NE	NE	140	98.3	NA	NA	NA	NA	98.7	NA	NA	NA	NA

See notes on next page.

Table 1. Soil Samples Analytical Results - Total Metals
Phase II Environmental Site Assessment: 110, 158, and 204 Lozier Lane, Medford, Oregon 97501

Notes:

Analytical data in bold font indicates that the value exceeds the laboratory method reporting limit.

Analytical data highlighted in yellow indicates the value exceeded a generic RBC.

Analytical data highlighted in blue indicates the value exceeded the Clean Fill Value.

Analytical data highlighted in both yellow and blue indicates the value exceeded one or more generic RBCs and the Clean Fill Value.

* - Leaching to groundwater RBCs are not provided for inorganic chemicals. If this pathway is of concern, then site-specific leaching tests must be performed.

Data Qualifiers:

Q-42 - Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)

U - The analyte was analyzed for, but was not detected ("Non-detect") at or above the Method Reporting Limit (MRL)/Method Detection Limit (MDL).

Footnotes:

(a) Risk-Based Concentrations are referenced from the June 2023 update to the DEQ's Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites guidance document dated September 2003.

(b) This pathway is applicable anytime someone is likely to come into contact with contaminated soil. For the occupational scenario, exposure to contaminated soils should be considered for all contaminants found in the top three feet of soil.

(c) This pathway is applicable whenever vadose zone soils are contaminated with volatile compounds.

(d) This pathway is applicable whenever vadose zone soils contaminated with volatile compounds are located beneath or within 10 feet of a commercial building or beneath or within 50 feet of a residential building.

(e) This pathway is applicable whenever vadose zone contamination is found overlying an aquifer that is currently used or is reasonably likely to be used in the future for drinking water.

(f) DEQ's Background Concentrations in Soil are referenced from the DEQ's Development of Oregon Background Metals Concentrations in Soil technical report dated March 2013. The background concentrations included in this table are 95% Upper Prediction Limit (UPL) for the Klamath Mountains region, which includes the Medford area and the Site.

(g) Clean Fill Values are referenced from the DEQ's Clean Fill Determinations guidance document dated February 2019.

Symbols/Acronyms:

bgs - below ground surface

C.W. - construction worker receptor

DEQ - Department of Environmental Quality

E.W. - excavation worker receptor

ft - feet

ICP-MS - Inductively coupled plasma mass spectrometry (ICP-MS)

>Max - The constituent RBC for this pathway is greater than 1,000,000 mg/Kg or 1,000,000 mg/L. Therefore, these substances are not expected to pose risks in the scenario shown.

mg/kg - milligrams per kilogram

NA - Sample was not analyzed for this analyte.

NE - No RBC levels are established for this chemical.

NV - The chemical is considered "nonvolatile" for the purposes of the exposure calculations.

RBC - risk-based concentration

U.R. - urban residential receptors

USEPA - United States Environmental Protection Agency

Table 2. Soil Samples Analytical Results - Organochlorine Pesticides
Phase II Environmental Site Assessment: 110, 158, and 204 Lozier Lane, Medford, Oregon 97501

Parameter	DEQ Risk-Based Concentrations for Soil (a)						DEQ's Clean Fill screening levels (f)	Test Pit Samples					
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		COMP1-0.0-0.5	DU1-0-6	DU1-6-12	DU1-12-18	DU1-18-24	DU1-24-26
	U. R.	C.W.	E.W.					U. R.	U. R.	U. R.	Composite samples from test pits TP9 through TP12 located on Decision Unit Area 1 on the northern portion of TL 1200		
								0-0.5 ft bgs	0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs
						2/11/2022	08/13/22	08/13/22	08/13/22	08/13/22	08/13/22		
Organochlorine Pesticides (mg/kg)													
USEPA 8081B													
Aldrin	0.078	1.1	30	>Csat	>Csat	0.1	0.023	0.00229U, C-05	0.0020U*	0.0020U*	0.0020U*	0.0020U*	0.0020U*
alpha-Hexachlorocyclohexane	0.21	3.0	83	NV	NV	0.024	0.0063	0.00229U, C-05	0.0010U*	0.0010U*	0.0010U*	0.0010U*	0.0010U*
beta-BHC	NE	NE	NE	NE	NE	NE	0.009	0.00229U, C-05	0.0010U*	0.0018Uj*	0.0010U*	0.00074 JP*	0.0010U*
delta-BHC	NE	NE	NE	NE	NE	NE	NE	0.00229U, C-05	0.0010U*	0.0010U*	0.0010U*	0.0010U*	0.0010U*
gamma-BHC (Lindane)	1.2	17	470	NV	NV	0.13	0.0095	0.00229U, C-05	0.0010U*	0.0010U*	0.0010U*	0.0010U*	0.0010U*
Chlordane	4.2	61	1,700	>Csat	>Csat	2.1	0.91	0.0687U, C-05	0.010U	0.017	0.010U	0.010U	0.010U
cis-Chlordane (Chlordane RBCs)	4.2	61	1,700	>Csat	>Csat	2.1	0.91	0.00229U, C-05, P-11	0.0010U*	0.0013*	0.0010U*	0.0010U*	0.0010U*
trans-Chlordane (Chlordane RBCs)	4.2	61	1,700	>Csat	>Csat	2.1	0.91	0.00229U, C-05	0.00046 JP*	0.0015*	0.0010U*	0.0010U*	0.0010U*
4,4'-Dichlorodiphenyldichloroethane (4,4'-DDD)	4.4	9.7	270	NV	NV	3.7	0.0063	0.00852 C-05	0.0020U	0.0025	0.0020U	0.0020U	0.0020U
4,4'-Dichlorodipenyldichloroethene (4,4'-DDE)	4.5	66	1,800	>Csat	>Csat	7.4	0.01	0.0522 C-05	0.0048*	0.012*	0.0014*	0.0010U*	0.0010U*
4,4'-Dichlorodiphenyltrichloroethane (4,4'-DDT)	4.6	66	1,800	NV	NV	46	0.01	0.0783 C-05, Q-42	0.0020U*	0.0067 P*	0.0020U*	0.0020U*	0.0020U*
Dieldrin	0.085	1.2	33	NV	NV	0.037	0.0045	0.00229U, C-05	0.0015*	0.0028*	0.00084U*	0.00091U*	0.00078U*
Endosulfan I (Endosulfan alpha-beta RBC)	760	1,600	45,000	>Max	>Max	>Csat	0.64	0.00229U, C-05	0.0010U*	0.0010U*	0.0010U*	0.0010U*	0.0010U*
Endosulfan II (Endosulfan alpha-beta RBC)	760	1,600	45,000	>Max	>Max	>Csat	0.64	0.00229U, C-05	0.0020U*	0.0020U*	0.0020U*	0.0020U*	0.0020U*
Endosulfan Sulfate (Endosulfan alpha-beta RBC)	760	1,600	45,000	>Max	>Max	>Csat	0.64	0.00229U, C-05	0.0020U*	0.0020U*	0.0020U*	0.0020U*	0.0020U*
Endrin	38	80	2,200	NV	NV	>Csat	0.0014	0.00229U, C-05	0.0010U*	0.0016Uj*	0.0010U*	0.0010U*	0.0010U*
Endrin Aldehyde (Endrin RBC)	38	80	2,200	NV	NV	>Csat	0.0014	0.00229U, C-05	0.0020U*	0.0020U*	0.0020U*	0.0020U*	0.0020U*
Endrin Ketone (Endrin RBC)	38	80	2,200	NV	NV	>Csat	0.0014	0.00229U, C-05	0.0010U*	0.0010U*	0.0010U*	0.0010U*	0.0010U*
Heptachlor	0.28	4.0	110	230	230	0.063	0.017	0.00229U, C-05	0.0010U*	0.0010U*	0.0010U*	0.0010U*	0.0010U*
Heptachlor expoxide	0.055	2.0	56	>Csat	>Csat	0.018	0.0042	0.00229U, C-05	0.0020U*	0.0020U*	0.0020U*	0.0020U*	0.0020U*
Methoxychlor	NE	NE	NE	NE	NE	NE	5.1	0.00687U, C-05	0.0020U*	0.027*	0.0020U*	0.0020U*	0.0020U*
Toxaphene (Total)	1.2	17	470	NV	NV	1.2	0.36	0.0687U, C-05	0.100U	0.100U	0.100U	0.100U	0.100U

See notes on next page.

Table 2. Soil Samples Analytical Results - Organochlorine Pesticides
Phase II Environmental Site Assessment: 110, 158, and 204 Lozier Lane, Medford, Oregon 97501

Parameter	DEQ Risk-Based Concentrations for Soil (a)						DEQ's Clean Fill screening levels (f)	Test Pit Samples				
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		DU2-0-6	DU2-6-12	DU2-12-18	DU2-18-24	DU2-24-26
	U. R.	C.W.	E.W.	U. R.	U. R.	U. R.		Composite samples from test pits TP13 through TP16 located on Decision Unit Area 2 on the southern portion of TL 1200 and on TL 1300 and TL 1400				
								0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs
							08/13/22	08/13/22	08/13/22	08/13/22	08/13/22	
Organochlorine Pesticides (mg/kg)												
USEPA 8081B												
Aldrin	0.078	1.1	30	>Csat	>Csat	0.1	0.023	0.0020U*	0.0020U*	0.0020U*	0.0020U*	0.0020U*
alpha-Hexachlorocyclohexane	0.21	3.0	83	NV	NV	0.024	0.0063	0.0010U*	0.0010U*	0.00036 J*	0.0010U*	0.0010U*
beta-BHC	NE	NE	NE	NE	NE	NE	0.009	0.0010U*	0.0013 P*	0.0010U*	0.0010U*	0.0010U*
delta-BHC	NE	NE	NE	NE	NE	NE	NE	0.0010U*	0.0010U*	0.0010U*	0.0010U*	0.0010U*
gamma-BHC (Lindane)	1.2	17	470	NV	NV	0.13	0.0095	0.0010U*	0.0010U*	0.0010U*	0.0010U*	0.0010U*
Chlordane	4.2	61	1,700	>Csat	>Csat	2.1	0.91	0.010U	0.039	0.035	0.010U	0.010U
cis-Chlordane (Chlordane RBCs)	4.2	61	1,700	>Csat	>Csat	2.1	0.91	0.00059 JP*	0.0031*	0.0020*	0.0010U*	0.0010U*
trans-Chlordane (Chlordane RBCs)	4.2	61	1,700	>Csat	>Csat	2.1	0.91	0.00045 J*	0.0027*	0.0025*	0.0010U*	0.0010U*
4,4'-Dichlorodiphenyldichloroethane (4,4'-DDD)	4.4	9.7	270	NV	NV	3.7	0.0063	0.0020Ui	0.0054 P	0.0082	0.0036Ui	0.0020U
4,4'-Dichlorodiphenyldichloroethene (4,4'-DDE)	4.5	66	1,800	>Csat	>Csat	7.4	0.01	0.0028 P*	0.021*	0.073*	0.0047*	0.0019*
4,4'-Dichlorodiphenyltrichloroethane (4,4'-DDT)	4.6	66	1,800	NV	NV	46	0.01	0.0060 P*	0.064*	0.190 P*	0.0016Ui*	0.0047Ui*
Dieldrin	0.085	1.2	33	NV	NV	0.037	0.0045	0.0018Ui*	0.0027*	0.0043 P*	0.00088U*	0.00086U*
Endosulfan I (Endosulfan alpha-beta RBC)	760	1,600	45,000	>Max	>Max	>Csat	0.64	0.0010Ui*	0.0010Ui*	0.0010Ui*	0.0010U*	0.0010U*
Endosulfan II (Endosulfan alpha-beta RBC)	760	1,600	45,000	>Max	>Max	>Csat	0.64	0.0020U*	0.0020U*	0.0020U*	0.0020U*	0.0020U*
Endosulfan Sulfate (Endosulfan alpha-beta RBC)	760	1,600	45,000	>Max	>Max	>Csat	0.64	0.0020U*	0.0020U*	0.0020U*	0.0020U*	0.0020U*
Endrin	38	80	2,200	NV	NV	>Csat	0.0014	0.0010U*	0.0010U*	0.0010U*	0.0010U*	0.0010U*
Endrin Aldehyde (Endrin RBC)	38	80	2,200	NV	NV	>Csat	0.0014	0.0020U*	0.0020U*	0.0020U*	0.0020U*	0.0020U*
Endrin Ketone (Endrin RBC)	38	80	2,200	NV	NV	>Csat	0.0014	0.0010U*	0.0010U*	0.0010U*	0.0010U*	0.0010U*
Heptachlor	0.28	4.0	110	230	230	0.063	0.017	0.0010U*	0.0010U*	0.0010U*	0.0010U*	0.0010U*
Heptachlor expoxide	0.055	2.0	56	>Csat	>Csat	0.018	0.0042	0.0020U*	0.0020U*	0.0020U*	0.0020U*	0.0020U*
Methoxychlor	NE	NE	NE	NE	NE	NE	5.1	0.0020U*	0.0030Ui*	0.0034Ui*	0.0020U*	0.0020U*
Toxaphene (Total)	1.2	17	470	NV	NV	1.2	0.36	0.100U	0.100U	0.100U	0.100U	0.100U

See notes on next page.

Table 2. Soil Samples Analytical Results - Organochlorine Pesticides
Phase II Environmental Site Assessment: 110, 158, and 204 Lozier Lane, Medford, Oregon 97501

Parameter	DEQ Risk-Based Concentrations for Soil (a)						DEQ's Clean Fill screening levels (f)	Test Pit Samples					
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		DU3-0-6	DU3-6-12	DU3-12-18	DU3-18-24	DU3-24-26	
	U. R.	C.W.	E.W.	U. R.	U. R.	U. R.		Composite samples from test pits TP17 through TP20 located on Decision Unit Area 3 on TL 1500					
								0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs	
							08/13/22	08/13/22	08/13/22	08/13/22	08/13/22		
Organochlorine Pesticides (mg/kg)													
USEPA 8081B													
Aldrin	0.078	1.1	30	>Csat	>Csat	0.1	0.023	0.0020U*	0.0021Ui*	0.0020U*	0.0020U*	0.0020U*	
alpha-Hexachlorocyclohexane	0.21	3.0	83	NV	NV	0.024	0.0063	0.0010Uj*	0.0010U*	0.0010U*	0.0010U*	0.0010U*	
beta-BHC	NE	NE	NE	NE	NE	NE	0.009	0.0010U*	0.0010U*	0.0010U*	0.0010U*	0.0010U*	
delta-BHC	NE	NE	NE	NE	NE	NE	NE	0.0010U*	0.0010U*	0.0010U*	0.0010U*	0.0010U*	
gamma-BHC (Lindane)	1.2	17	470	NV	NV	0.13	0.0095	0.0010U*	0.0010U*	0.0010Uj*	0.0010U*	0.0010U*	
Chlordane	4.2	61	1,700	>Csat	>Csat	2.1	0.91	0.180	0.093 P	0.014 P	0.012	0.010U	
cis-Chlordane (Chlordane RBCs)	4.2	61	1,700	>Csat	>Csat	2.1	0.91	0.022*	0.013*	0.0018*	0.00058 J*	0.0010U*	
trans-Chlordane (Chlordane RBCs)	4.2	61	1,700	>Csat	>Csat	2.1	0.91	0.019*	0.010*	0.0022*	0.00076 J*	0.0010U*	
4,4'-Dichlorodiphenyldichloroethane (4,4'-DDD)	4.4	9.7	270	NV	NV	3.7	0.0063	0.033	0.190 JP	0.019	0.008	0.0032 P	
4,4'-Dichlorodiphenyldichloroethene (4,4'-DDE)	4.5	66	1,800	>Csat	>Csat	7.4	0.01	0.140*	0.300*	0.017*	0.016*	0.0061*	
4,4'-Dichlorodiphenyltrichloroethane (4,4'-DDT)	4.6	66	1,800	NV	NV	46	0.01	0.130*	5.4*	0.075*	0.088 P*	0.069 P*	
Dieldrin	0.085	1.2	33	NV	NV	0.037	0.0045	0.027*	0.093 J*	0.0025 P*	0.00053Uj*	0.00086 J*	
Endosulfan I (Endosulfan alpha-beta RBC)	760	1,600	45,000	>Max	>Max	>Csat	0.64	0.0026Ui*	0.0031Ui*	0.0010U*	0.0010U*	0.0010U*	
Endosulfan II (Endosulfan alpha-beta RBC)	760	1,600	45,000	>Max	>Max	>Csat	0.64	0.0029Uj*	0.0021U*	0.0020Uj*	0.0020U*	0.0020Uj*	
Endosulfan Sulfate (Endosulfan alpha-beta RBC)	760	1,600	45,000	>Max	>Max	>Csat	0.64	0.0020Uj*	0.0021U*	0.0020U*	0.0020U*	0.0020U*	
Endrin	38	80	2,200	NV	NV	>Csat	0.0014	0.0010U*	0.0010U*	0.0010U*	0.0010U*	0.0010U*	
Endrin Aldehyde (Endrin RBC)	38	80	2,200	NV	NV	>Csat	0.0014	0.0025Uj*	0.0021U*	0.0020U*	0.0020U*	0.0020U*	
Endrin Ketone (Endrin RBC)	38	80	2,200	NV	NV	>Csat	0.0014	0.00066 JP*	0.0018*	0.0010Uj*	0.0010U*	0.0010U*	
Heptachlor	0.28	4.0	110	230	230	0.063	0.017	0.0010U*	0.0010U*	0.0010Uj*	0.0010U*	0.0010U*	
Heptachlor expoxide	0.055	2.0	56	>Csat	>Csat	0.018	0.0042	0.0015 J*	0.0013 JP*	0.0020U*	0.0020U*	0.0020Uj*	
Methoxychlor	NE	NE	NE	NE	NE	NE	5.1	0.0020Uj*	0.0064Uj*	0.0021Uj*	0.0020U*	0.0020U*	
Toxaphene (Total)	1.2	17	470	NV	NV	1.2	0.36	0.100U	0.100U	0.100U	0.100U	0.100U	

See notes on next page.

Table 2. Soil Samples Analytical Results - Organochlorine Pesticides
Phase II Environmental Site Assessment: 110, 158, and 204 Lozier Lane, Medford, Oregon 97501

Notes:

Analytical data in bold font indicates that the value exceeds the laboratory method reporting limit.

Analytical data highlighted in blue indicates the value exceeded the Clean Fill Value.

Analytical data highlighted in both yellow and blue indicates the value exceeded one or more generic RBCs and the Clean Fill Value.

Data Qualifiers:

C-05 - Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.

i - The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.

J -The result is an estimated value.

P - The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.

P-11 - Result estimated. Secondary column confirmation does not meet method criteria due to matrix interference.

Q-42 - Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)

U - The analyte was analyzed for, but was not detected ("Non-detect") at or above the Method Reporting Limit (MRL)/Method Detection Limit (MDL).

* - The result is an outlier. See case narrative.

Footnotes:

(a) Risk-Based Concentrations are referenced from the June 2023 update to the DEQ's Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites guidance document dated September 2003.

(b) This pathway is applicable anytime someone is likely to come into contact with contaminated soil. For the occupational scenario, exposure to contaminated soils should be considered for all

(c) This pathway is applicable whenever vadose zone soils are contaminated with volatile compounds.

(d) This pathway is applicable whenever vadose zone soils contaminated with volatile compounds are located beneath or within 10 feet of a commercial building or beneath or within 50 feet of a residential building.

(e) This pathway is applicable whenever vadose zone contamination is found overlying an aquifer that is currently used or is reasonably likely to be used in the future.

(f) Clean Fill Values are referenced from the DEQ's Clean Fill Determinations guidance document dated February 2019.

Symbols/Acronyms:

bgs - below ground surface

C.W. - construction worker receptor

>Csat - The soil RBC exceeds the limit of three-phase equilibrium partitioning. Soil concentrations in excess of this value indicate free product might be present.

DEQ - Department of Environmental Quality

E.W. - excavation worker receptor

ft - feet

LOD -Limit of Detection

LOQ - Limit of Quantitation

>Max - The constituent RBC for this pathway is greater than 1,000,000 mg/Kg or 1,000,000 mg/L. Therefore, these substances are not expected to pose risks in the scenario shown.

MDL - Method Detection Limit

mg/kg - milligrams per kilogram

MRL - Method Reporting Limit

NA - Sample was not analyzed for this analyte.

NE - No RBC levels are established for this chemical.

RBC - risk-based concentration

U.R. - urban residential receptors

USEPA - United States Environmental Protection Agency

Table 3. Soil Samples Analytical Results - Organophosphorus Herbicides
Phase II Environmental Site Assessment: 110, 158, and 204 Lozier Lane, Medford, Oregon 97501

Parameter	DEQ Risk-Based Concentrations for Soil (a)						DEQ's Clean Fill screening levels (f)	Test Pit Samples					
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		COMP1-0.0-0.5	DU1-0-6	DU1-6-12	DU1-12-18	DU1-18-24	DU1-24-26
	U. R.	C.W.	E.W.	U. R.	U. R.	U. R.		Composite sample from test pits TP1, TP4, TP6, and TP8	Composite samples from test pits TP9 through TP12 located on Decision Unit Area 1 on the northern portion of TL 1200				
								0-0.5 ft bgs	0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs
								2/11/2022	08/13/22	08/13/22	08/13/22	08/13/22	08/13/22
Organophosphorus Pesticides (mg/kg)													
ALS SOP													
Azinphos methyl (Guthion)	NE	NE	NE	NE	NE	NE	1	0.0554U, H-02	0.010U	NA	NA	NA	NA
Bolstar (Sulprofos)	NE	NE	NE	NE	NE	NE	NE	0.0554U, H-02	0.0052U	NA	NA	NA	NA
Chlorpyrifos	NE	NE	NE	NE	NE	NE	7.2	0.0554U, H-02	0.0052U	NA	NA	NA	NA
Coumaphos	NE	NE	NE	NE	NE	NE	NE	0.0554U, H-02	0.010U	NA	NA	NA	NA
Demeton-O,S	NE	NE	NE	NE	NE	NE	2.5	0.0554U, H-02	0.0052U	NA	NA	NA	NA
Diazinon	NE	NE	NE	NE	NE	NE	3.9	0.0554U, H-02	0.0052U	NA	NA	NA	NA
Dichlorvos	NE	NE	NE	NE	NE	NE	0.0049	0.0554U, H-02	0.010U	NA	NA	NA	NA
Dimethoate	NE	NE	NE	NE	NE	NE	0.59	0.0554U, H-02	0.0052U*	NA	NA	NA	NA
Disulfoton	NE	NE	NE	NE	NE	NE	0.056	0.0554U, H-02	0.0052U	NA	NA	NA	NA
EPN	NE	NE	NE	NE	NE	NE	NE	0.0554U, H-02	0.010U	NA	NA	NA	NA
Ethoprop (Prophos)	NE	NE	NE	NE	NE	NE	NE	0.0554U, H-02	0.0052U*	NA	NA	NA	NA
Ethyl Parathion	NE	NE	NE	NE	NE	NE	NE	0.0554U, H-02	0.0052U	NA	NA	NA	NA
Fensulfothion	NE	NE	NE	NE	NE	NE	NE	0.0554U, H-02	0.010U	NA	NA	NA	NA
Fenthion	NE	NE	NE	NE	NE	NE	NE	0.0554U, H-02	0.0052U	NA	NA	NA	NA
Malathion	NE	NE	NE	NE	NE	NE	6	0.0554U, H-02	0.0052U	NA	NA	NA	NA
Merphos, Total	NE	NE	NE	NE	NE	NE	2.3	0.0554U, H-02	0.010U*	NA	NA	NA	NA
Methyl parathion	NE	NE	NE	NE	NE	NE	0.44	0.0554U, H-02	0.0052U	NA	NA	NA	NA
Mevinphos (Phosdrin)	NE	NE	NE	NE	NE	NE	NE	0.0554U, H-02	0.010U	NA	NA	NA	NA
Monocrotophos	NE	NE	NE	NE	NE	NE	NE	0.0554U, H-02	0.021U*	NA	NA	NA	NA
Naled (Dibrom)	NE	NE	NE	NE	NE	NE	1.1	0.0554U, H-02	0.0052U*	NA	NA	NA	NA
Phorate	NE	NE	NE	NE	NE	NE	0.2	0.0554U, H-02	0.0052U*	NA	NA	NA	NA
Ronnel (Fenchlorphos)	NE	NE	NE	NE	NE	NE	220	0.0554U, H-02	0.0018 J	NA	NA	NA	NA
Stirophos	NE	NE	NE	NE	NE	NE	NE	NA	0.0052U	NA	NA	NA	NA
Sulfotep	NE	NE	NE	NE	NE	NE	NE	0.0554U, H-02	0.0052U*	NA	NA	NA	NA
TEPP	NE	NE	NE	NE	NE	NE	NE	0.221U, H-02	NA	NA	NA	NA	NA
Tetrachlorvinphos (Rabon)	NE	NE	NE	NE	NE	NE	NE	0.0554U, H-02	NA	NA	NA	NA	NA
Tokuthion (Prothiofos)	NE	NE	NE	NE	NE	NE	NE	0.0554U, H-02	0.0052U	NA	NA	NA	NA
Trichloronate	NE	NE	NE	NE	NE	NE	NE	0.0554U, H-02	0.0021 J	NA	NA	NA	NA

See notes on next page.

Table 3. Soil Samples Analytical Results - Organophosphorus Herbicides
Phase II Environmental Site Assessment: 110, 158, and 204 Lozier Lane, Medford, Oregon 97501

Parameter	DEQ Risk-Based Concentrations for Soil (a)						DEQ's Clean Fill screening levels (f)	Test Pit Samples							
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		DU2-0-6	DU2-6-12	DU2-12-18	DU2-18-24	DU2-24-26			
	U. R.	C.W.	E.W.	U. R.	U. R.	U. R.		Composite samples from test pits TP13 through TP16 located on Decision Unit Area 2 on the southern portion of TL 1200 and on TL 1300 and TL 1400							
	0-0.5 ft bgs			0.5-1.0 ft bgs		1.0-1.5 ft bgs		1.5-2.0 ft bgs		2.0-3.0 ft bgs					
08/13/22			08/13/22		08/13/22		08/13/22		08/13/22						
Organophosphorus Pesticides (mg/kg)															
ALS SOP															
Azinphos methyl (Guthion)	NE	NE	NE	NE	NE	NE	1	0.010U	NA	NA	NA	NA	NA	NA	
Bolstar (Sulprofos)	NE	NE	NE	NE	NE	NE	NE	0.0051U	NA	NA	NA	NA	NA	NA	
Chlorpyrifos	NE	NE	NE	NE	NE	NE	7.2	0.0051U	NA	NA	NA	NA	NA	NA	
Coumaphos	NE	NE	NE	NE	NE	NE	NE	0.010U	NA	NA	NA	NA	NA	NA	
Demeton-O,S	NE	NE	NE	NE	NE	NE	2.5	0.0051U	NA	NA	NA	NA	NA	NA	
Diazinon	NE	NE	NE	NE	NE	NE	3.9	0.0051U	NA	NA	NA	NA	NA	NA	
Dichlorvos	NE	NE	NE	NE	NE	NE	0.0049	0.010U	NA	NA	NA	NA	NA	NA	
Dimethoate	NE	NE	NE	NE	NE	NE	0.59	0.0051U*	NA	NA	NA	NA	NA	NA	
Disulfoton	NE	NE	NE	NE	NE	NE	0.056	0.0051U	NA	NA	NA	NA	NA	NA	
EPN	NE	NE	NE	NE	NE	NE	NE	0.010U	NA	NA	NA	NA	NA	NA	
Ethoprop (Prophos)	NE	NE	NE	NE	NE	NE	NE	0.0051U*	NA	NA	NA	NA	NA	NA	
Ethyl Parathion	NE	NE	NE	NE	NE	NE	NE	0.0051U	NA	NA	NA	NA	NA	NA	
Fensulfothion	NE	NE	NE	NE	NE	NE	NE	0.010U	NA	NA	NA	NA	NA	NA	
Fenthion	NE	NE	NE	NE	NE	NE	NE	0.0051U	NA	NA	NA	NA	NA	NA	
Malathion	NE	NE	NE	NE	NE	NE	6	0.0051U	NA	NA	NA	NA	NA	NA	
Merphos, Total	NE	NE	NE	NE	NE	NE	2.3	0.010U*	NA	NA	NA	NA	NA	NA	
Methyl parathion	NE	NE	NE	NE	NE	NE	0.44	0.0051U	NA	NA	NA	NA	NA	NA	
Mevinphos (Phosdrin)	NE	NE	NE	NE	NE	NE	NE	0.010U	NA	NA	NA	NA	NA	NA	
Monocrotophos	NE	NE	NE	NE	NE	NE	NE	0.021U*	NA	NA	NA	NA	NA	NA	
Naled (Dibrom)	NE	NE	NE	NE	NE	NE	1.1	0.0051U*	NA	NA	NA	NA	NA	NA	
Phorate	NE	NE	NE	NE	NE	NE	0.2	0.0051U*	NA	NA	NA	NA	NA	NA	
Ronnel (Fenchlorphos)	NE	NE	NE	NE	NE	NE	220	0.0051U	NA	NA	NA	NA	NA	NA	
Stirophos	NE	NE	NE	NE	NE	NE	NE	0.0051U	NA	NA	NA	NA	NA	NA	
Sulfotep	NE	NE	NE	NE	NE	NE	NE	0.0051U*	NA	NA	NA	NA	NA	NA	
TEPP	NE	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	
Tetrachlorvinphos (Rabon)	NE	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	NA	NA	
Tokuthion (Prothiofos)	NE	NE	NE	NE	NE	NE	NE	0.0051U	NA	NA	NA	NA	NA	NA	
Trichloronate	NE	NE	NE	NE	NE	NE	NE	0.0051U	NA	NA	NA	NA	NA	NA	

See notes on next page.

Table 3. Soil Samples Analytical Results - Organophosphorus Herbicides
Phase II Environmental Site Assessment: 110, 158, and 204 Lozier Lane, Medford, Oregon 97501

Parameter	DEQ Risk-Based Concentrations for Soil (a)						DEQ's Clean Fill screening levels (f)	Test Pit Samples					
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)		DU3-0-6	DU3-6-12	DU3-12-18	DU3-18-24	DU3-24-26	
	U. R.	C.W.	E.W.	U. R.	U. R.	U. R.		Composite samples from test pits TP17 through TP20 located on Decision Unit Area 3 on TL 1500					
	U. R.	C.W.	E.W.	U. R.	U. R.	U. R.		0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs	
							08/13/22	08/13/22	08/13/22	08/13/22	08/13/22		
Organophosphorus Pesticides (mg/kg)													
ALS SOP													
Azinphos methyl (Guthion)	NE	NE	NE	NE	NE	NE	1	0.010U	NA	NA	NA	NA	
Bolstar (Sulprofos)	NE	NE	NE	NE	NE	NE	NE	0.0052U	NA	NA	NA	NA	
Chlorpyrifos	NE	NE	NE	NE	NE	NE	7.2	0.0052U	NA	NA	NA	NA	
Coumaphos	NE	NE	NE	NE	NE	NE	NE	0.010U	NA	NA	NA	NA	
Demeton-O,S	NE	NE	NE	NE	NE	NE	2.5	0.0052U	NA	NA	NA	NA	
Diazinon	NE	NE	NE	NE	NE	NE	3.9	0.0052U	NA	NA	NA	NA	
Dichlorvos	NE	NE	NE	NE	NE	NE	0.0049	0.010U	NA	NA	NA	NA	
Dimethoate	NE	NE	NE	NE	NE	NE	0.59	0.0052U*	NA	NA	NA	NA	
Disulfoton	NE	NE	NE	NE	NE	NE	0.056	0.0052U	NA	NA	NA	NA	
EPN	NE	NE	NE	NE	NE	NE	NE	0.010U	NA	NA	NA	NA	
Ethoprop (Prophos)	NE	NE	NE	NE	NE	NE	NE	0.0052U*	NA	NA	NA	NA	
Ethyl Parathion	NE	NE	NE	NE	NE	NE	NE	0.0052U	NA	NA	NA	NA	
Fensulfothion	NE	NE	NE	NE	NE	NE	NE	0.010U	NA	NA	NA	NA	
Fenthion	NE	NE	NE	NE	NE	NE	NE	0.0052U	NA	NA	NA	NA	
Malathion	NE	NE	NE	NE	NE	NE	6	0.0052U	NA	NA	NA	NA	
Merphos, Total	NE	NE	NE	NE	NE	NE	2.3	0.010U*	NA	NA	NA	NA	
Methyl parathion	NE	NE	NE	NE	NE	NE	0.44	0.0052U	NA	NA	NA	NA	
Mevinphos (Phosdrin)	NE	NE	NE	NE	NE	NE	NE	0.010U	NA	NA	NA	NA	
Monocrotophos	NE	NE	NE	NE	NE	NE	NE	0.021U*	NA	NA	NA	NA	
Naled (Dibrom)	NE	NE	NE	NE	NE	NE	1.1	0.0052U*	NA	NA	NA	NA	
Phorate	NE	NE	NE	NE	NE	NE	0.2	0.0052U*	NA	NA	NA	NA	
Ronnel (Fenchlorphos)	NE	NE	NE	NE	NE	NE	220	0.0052U	NA	NA	NA	NA	
Stirophos	NE	NE	NE	NE	NE	NE	NE	0.0052U	NA	NA	NA	NA	
Sulfotep	NE	NE	NE	NE	NE	NE	NE	0.0052U*	NA	NA	NA	NA	
TEPP	NE	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	
Tetrachlorvinphos (Rabon)	NE	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	
Tokuthion (Prothiofos)	NE	NE	NE	NE	NE	NE	NE	0.0052U	NA	NA	NA	NA	
Trichloronate	NE	NE	NE	NE	NE	NE	NE	0.0052U	NA	NA	NA	NA	

See notes on next page.

Table 3. Soil Samples Analytical Results - Organophosphorus Pesticides
Phase II Environmental Site Assessment: 110, 158, and 204 Lozier Lane, Medford, Oregon 97501

Notes:

The laboratory MRL that exceeds the Clean Fill screening level is indicated with bold blue font.

Analytical data in bold font indicates that the value exceeds the laboratory method reporting limit.

Data Qualifiers:

H-02 - This sample was extracted outside of the recommended holding time.

J - The result is an estimated value.

U - The analyte was analyzed for, but was not detected ("Non-detect") at or above the Method Reporting Limit (MRL)/Method Detection Limit (MDL).

* - The result is an outlier. See case narrative.

Footnotes:

(a) Risk-Based Concentrations are referenced from the June 2023 update to the DEQ's Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites guidance document dated September 2003.

(b) This pathway is applicable anytime someone is likely to come into contact with contaminated soil. For the occupational scenario, exposure to contaminated soils should be considered for all contaminants found in the top three feet of soil.

(c) This pathway is applicable whenever vadose zone soils are contaminated with volatile compounds.

(d) This pathway is applicable whenever vadose zone soils contaminated with volatile compounds are located beneath or within 10 feet of a commercial building or beneath or within 50 feet of a residential building.

(e) This pathway is applicable whenever vadose zone contamination is found overlying an aquifer that is currently used or is reasonably likely to be used in the future.

(f) Clean Fill Values are referenced from the DEQ's Clean Fill Determinations guidance document dated February 2019.

Symbols/Acronyms:

bgs - below ground surface

C.W. - construction worker receptor

>Csat - The soil RBC exceeds the limit of three-phase equilibrium partitioning. Soil concentrations in excess of this value indicate free product might be present.

DEQ - Department of Environmental Quality

E.W. - excavation worker receptor

ft - feet

>Max - The constituent RBC for this pathway is greater than 1,000,000 mg/Kg or 1,000,000 mg/L. Therefore, these substances are not expected to pose risks in the scenario shown.

NA - Sample was not analyzed for this analyte.

NE - No RBC levels are established for this chemical.

mg/kg - milligrams per kilogram

RBC - risk-based concentration

U.R. - urban residential receptors

USEPA - United States Environmental Protection Agency

Table 4. Soil Samples Analytical Results - Chlorinated Herbicides
Phase II Environmental Site Assessment: 110, 158, and 204 Lozier Lane, Medford, Oregon 97501

Parameter	DEQ Risk-Based Concentrations for Soil (a)							DEQ's Clean Fill screening levels (f)	Test Pit Samples						
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)			COMP1-0.0-0.5	DU1-0-6	DU1-6-12	DU1-12-18	DU1-18-24	DU1-24-26	
	U. R.	C.W.	E.W.	U. R.	U. R.	U. R.			Composite sample from test pits TP1, TP4, TP6, and TP8	Composite samples from test pits TP9 through TP12 located on Decision Unit Area 1 on the northern portion of TL 1200					
	U. R.	C.W.	E.W.	U. R.	U. R.	U. R.			0-0.5 ft bgs	0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs	
Chlorinated Herbicides (mg/kg)															
USEPA 8151A															
2,4,5-Trichlorophenoxyacetic acid (2,4,5-T)	NE	NE	NE	NE	NE	NE	4.1	0.17U, M-02, M-04	0.0042 JP*	NA	NA	NA	NA		
2,4,5-Trichlorophenoxypropionic acid (2,4,5-TP) (Silvex)	NE	NE	NE	NE	NE	NE	3.7	0.17U, M-02, M-04	0.0066 JP	NA	NA	NA	NA		
2,4-Dichlorophenoxyacetic acid (2,4-D)	1,300	2,700	74,000	NV	NV	8.8	2.3	0.33U, M-02, M-04	0.018 J	NA	NA	NA	NA		
4-(2,4-dichlorophenoxy)butyric acid (2,4-DB)	NE	NE	NE	NE	NE	NE	25	0.66U, M-02, M-04	0.052U*	NA	NA	NA	NA		
Dalapon	NE	NE	NE	NE	NE	NE	7.2	0.33U, M-02, M-04	0.052U	NA	NA	NA	NA		
Dicamba	NE	NE	NE	NE	NE	NE	9	0.33U, M-02, M-04	0.052U	NA	NA	NA	NA		
Dichloroprop	NE	NE	NE	NE	NE	NE	NE	0.33U, M-02, M-04	0.052U	NA	NA	NA	NA		
Dinoseb	NE	NE	NE	NE	NE	NE	7.8	0.17U, M-02, M-04	0.052U	NA	NA	NA	NA		
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	63	130	3,700	NV	NV	0.40	0.097	33U, M-02, M-04	7.7	NA	NA	NA	NA		
Methylchlorophenoxypropionic acid (MCPP)	NE	NE	NE	NE	NE	NE	NE	33U, M-02, M-04	5.2U	NA	NA	NA	NA		
Pentachlorophenol	2.6	34	960	NV	NV	0.23	0.066	0.17U, M-02, M-04	NA	NA	NA	NA	NA		
Picloram	NE	NE	NE	NE	NE	NE	NE	0.17U, M-02, M-04	NA	NA	NA	NA	NA		

See notes on next page.

Table 4. Soil Samples Analytical Results - Chlorinated Herbicides
Phase II Environmental Site Assessment: 110, 158, and 204 Lozier Lane, Medford, Oregon 97501

Parameter	DEQ Risk-Based Concentrations for Soil (a)							DEQ's Clean Fill screening levels (f)	Test Pit Samples				
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)			DU2-0-6	DU2-6-12	DU2-12-18	DU2-18-24	DU2-24-26
	U. R.	C.W.	E.W.	U. R.	U. R.	U. R.			Composite samples from test pits TP13 through TP16 located on Decision Unit Area 2 on the southern portion of TL 1200 and on TL 1300 and TL 1400				
	0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs		08/13/22		08/13/22	08/13/22	08/13/22	08/13/22	
Chlorinated Herbicides (mg/kg)													
USEPA 8151A													
2,4,5-Trichlorophenoxyacetic acid (2,4,5-T)	NE	NE	NE	NE	NE	NE	4.1	0.0043 JP*	NA	NA	NA	NA	
2,4,5-Trichlorophenoxypropionic acid (2,4,5-TP) (Silvex)	NE	NE	NE	NE	NE	NE	3.7	0.0063 J	NA	NA	NA	NA	
2,4-Dichlorophenoxyacetic acid (2,4-D)	1,300	2,700	74,000	NV	NV	8.8	2.3	0.015 J	NA	NA	NA	NA	
4-(2,4-dichlorophenoxy)butyric acid (2,4-DB)	NE	NE	NE	NE	NE	NE	25	0.052U*	NA	NA	NA	NA	
Dalapon	NE	NE	NE	NE	NE	NE	7.2	0.052U	NA	NA	NA	NA	
Dicamba	NE	NE	NE	NE	NE	NE	9	0.052U	NA	NA	NA	NA	
Dichloroprop	NE	NE	NE	NE	NE	NE	NE	0.052U	NA	NA	NA	NA	
Dinoseb	NE	NE	NE	NE	NE	NE	7.8	0.052U	NA	NA	NA	NA	
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	63	130	3,700	NV	NV	0.40	0.097	4.3 JP	NA	NA	NA	NA	
Methylchlorophenoxypropionic acid (MCPP)	NE	NE	NE	NE	NE	NE	NE	5.2U	NA	NA	NA	NA	
Pentachlorophenol	2.6	34	960	NV	NV	0.23	0.066	NA	NA	NA	NA	NA	
Picloram	NE	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	

See notes on next page.

Table 4. Soil Samples Analytical Results - Chlorinated Herbicides
Phase II Environmental Site Assessment: 110, 158, and 204 Lozier Lane, Medford, Oregon 97501

Parameter	DEQ Risk-Based Concentrations for Soil (a)							DEQ's Clean Fill screening levels (f)	Test Pit Samples				
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Vapor Intrusion into Buildings (d)	Leaching to Groundwater (e)			DU3-0-6	DU3-6-12	DU3-12-18	DU3-18-24	DU3-24-26
	U. R.	C.W.	E.W.	U. R.	U. R.	U. R.			Composite samples from test pits TP17 through TP20 located on Decision Unit Area 3 on TL 1500				
	0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs		08/13/22		08/13/22	08/13/22	08/13/22	08/13/22	
Chlorinated Herbicides (mg/kg)													
USEPA 8151A													
2,4,5-Trichlorophenoxyacetic acid (2,4,5-T)	NE	NE	NE	NE	NE	NE	4.1	0.052U*	NA	NA	NA	NA	
2,4,5-Trichlorophenoxypropionic acid (2,4,5-TP) (Silvex)	NE	NE	NE	NE	NE	NE	3.7	0.0055 J	NA	NA	NA	NA	
2,4-Dichlorophenoxyacetic acid (2,4-D)	1,300	2,700	74,000	NV	NV	8.8	2.3	0.0052Ui	NA	NA	NA	NA	
4-(2,4-dichlorophenoxy)butyric acid (2,4-DB)	NE	NE	NE	NE	NE	NE	25	0.0052U*	NA	NA	NA	NA	
Dalapon	NE	NE	NE	NE	NE	NE	7.2	0.052U	NA	NA	NA	NA	
Dicamba	NE	NE	NE	NE	NE	NE	9	0.052U	NA	NA	NA	NA	
Dichloroprop	NE	NE	NE	NE	NE	NE	NE	0.052U	NA	NA	NA	NA	
Dinoseb	NE	NE	NE	NE	NE	NE	7.8	0.052iU	NA	NA	NA	NA	
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	63	130	3,700	NV	NV	0.40	0.097	3.5 JP	NA	NA	NA	NA	
Methylchlorophenoxypropionic acid (MCPP)	NE	NE	NE	NE	NE	NE	NE	5.2U	NA	NA	NA	NA	
Pentachlorophenol	2.6	34	960	NV	NV	0.23	0.066	NA	NA	NA	NA	NA	
Picloram	NE	NE	NE	NE	NE	NE	NE	NA	NA	NA	NA	NA	

See notes on next page.

Table 4. Soil Samples Analytical Results - Chlorinated Herbicides
Phase II Environmental Site Assessment: 110, 158, and 204 Lozier Lane, Medford, Oregon 97501

Notes:

The laboratory MRL that exceeds one or more RBCs is indicated with bold blue font.

Analytical data in bold font indicates that the value exceeds the laboratory method reporting limit.

Analytical data highlighted in both yellow and blue indicates the value exceeded one or more generic RBCs and the Clean Fill Value.

The laboratory method reporting limit that exceeds one or more RBCs are indicated with bold blue font.

Data Qualifiers:

i - The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.

J - The result is an estimated value.

M-02 - Due to the nature of matrix interferences, sample was diluted prior to preparation. The MDL and MRL were raised due to the dilution.

M-04 - Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution.

P - The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.

U - The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL.

* - The result is an outlier. See case narrative.

Footnotes:

(a) Risk-Based Concentrations are referenced from the June 2023 update to the DEQ's Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites guidance document dated September 2003.

(b) This pathway is applicable anytime someone is likely to come into contact with contaminated soil. For the occupational scenario, exposure to contaminated soils should be considered for all contaminants found in the top three feet of soil.

(c) This pathway is applicable whenever vadose zone soils are contaminated with volatile compounds.

(d) This pathway is applicable whenever vadose zone soils contaminated with volatile compounds are located beneath or within 10 feet of a commercial building or beneath or within 50 feet of a residential building.

(e) This pathway is applicable whenever vadose zone contamination is found overlying an aquifer that is currently used or is reasonably likely to be used in the future for drinking water.

(f) Clean Fill Values are referenced from the DEQ's Clean Fill Determinations guidance document dated February 2019.

Symbols/Acronyms:

bgs - below ground surface

C.W. - construction worker receptor

>Csat - The soil RBC exceeds the limit of three-phase equilibrium partitioning. Soil concentrations in excess of this value indicate free product might be present.

DEQ - Department of Environmental Quality

E.W. - excavation worker receptor

ft - feet

LOD -Limit of Detection

LOQ - Limit of Quantitation

MDL - Method Detection Limit

mg/kg - milligrams per kilogram

MRL - Method Reporting Limit

NA - Sample was not analyzed for this analyte.

NE - No RBC levels are established for this chemical.

RBC - risk-based concentration

U.R. - urban residential receptors

USEPA - United States Environmental Protection Agency

APPENDIX 1

Subject Property Photographs



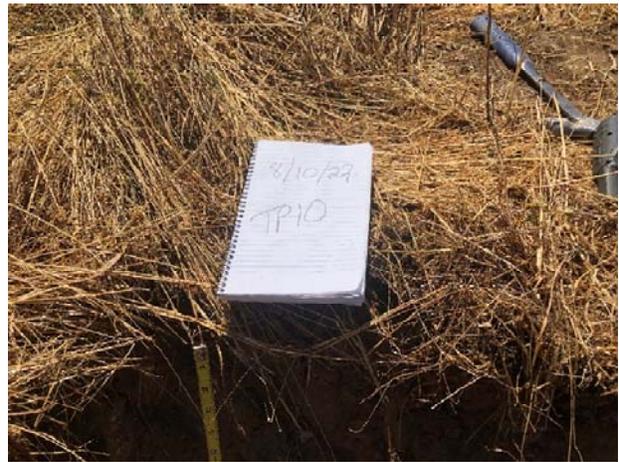
1. Test Pit TP9.



4. Test Pit TP9, west sidewall.



2. Test Pit TP9, east sidewall.



5. Test Pit TP10.



3. Test Pit TP9, east sidewall and bottom.



6. Test Pit TP10, south sidewall.



7. Test Pit TP10, north sidewall.



10. Test Pit TP11, south sidewall.



8. Test Pit TP10, back sidewall.



11. Test Pit TP11, north sidewall.



9. Test Pit TP11.



12. Test Pit TP12.



13. Test Pit TP12, north sidewall.



16. Test Pit TP13, north sidewall.



14. Test Pit TP12, south sidewall.



17. Test Pit TP13 location, facing west.



15. Test Pit TP13, south sidewall.



18. Test Pit TP14.



19. Test Pit TP14, west sidewall.



22. Test Pit TP15.



20. Test Pit TP14, east sidewall.



23. Test Pit TP15, south sidewall.



21. Test Pit TP14 location, facing south.



24. Test Pit TP15, north sidewall.



25. Test Pit TP15, facing east.



28. Test Pit TP16, south sidewall.



26. Test Pit TP16.



29. Test Pit TP17.



27. Test Pit TP16, north sidewall.



30. Test Pit TP17, south sidewall.



31. Test Pit TP17, north sidewall.



34. Test Pit TP18, north sidewall.



32. Test Pit TP17.



35. Test Pit TP18, south sidewall.



33. Test Pit TP18.



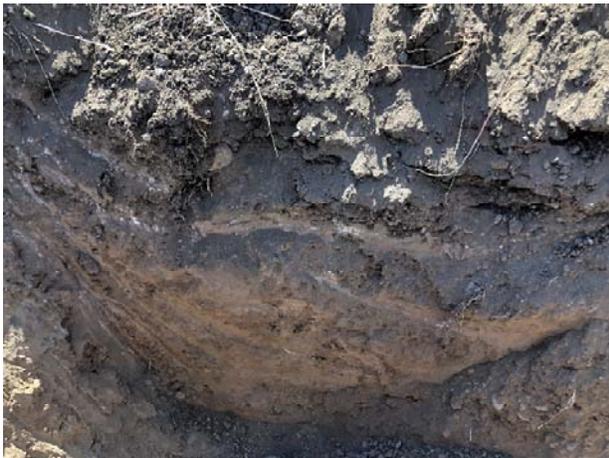
36. Test Pit TP19.



37. Test Pit TP19, west sidewall.



40. Test Pit TP20, west sidewall.



38. Test Pit TP19, east sidewall.



41. Test Pit TP20 location, facing southwest.



39. Test Pit TP20, east sidewall.



42. Test Pit TP20 location, facing north.

APPENDIX 2

Complete Laboratory Result



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Tuesday, March 15, 2022

Jonathan Williams
Alpine Environmental Consultants
12208 Antioch Road
White City, OR 97503

RE: A2B0559 - Lozier Phase II - AEC2022-04

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 A2B0559, which was received by the laboratory on 2/16/2022 at 10:42:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@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

(See Cooler Receipt Form for details)

Cooler #1	3.8 degC
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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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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpine Environmental Consultants 12208 Antioch Road White City, OR 97503	Project: Lozier Phase II Project Number: AEC2022-04 Project Manager: Jonathan Williams	Report ID: A2B0559 - 03 15 22 0522
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ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP1-0-6	A2B0559-01	Soil	02/11/22 08:10	02/16/22 10:42
TP1-6-12	A2B0559-02	Soil	02/11/22 08:12	02/16/22 10:42
TP1-12-18	A2B0559-03	Soil	02/11/22 08:14	02/16/22 10:42
TP1-18-24	A2B0559-04	Soil	02/11/22 08:16	02/16/22 10:42
TP8-0-6	A2B0559-05	Soil	02/11/22 09:50	02/16/22 10:42
TP8-6-12	A2B0559-06	Soil	02/11/22 09:52	02/16/22 10:42
TP8-12-18	A2B0559-07	Soil	02/11/22 09:54	02/16/22 10:42
TP8-18-24	A2B0559-08	Soil	02/11/22 09:56	02/16/22 10:42
TP8-24-36	A2B0559-09	Soil	02/11/22 09:58	02/16/22 10:42
TP4-0-6	A2B0559-10	Soil	02/11/22 09:20	02/16/22 10:42
TP4-6-12	A2B0559-11	Soil	02/11/22 09:22	02/16/22 10:42
TP4-12-18	A2B0559-12	Soil	02/11/22 09:24	02/16/22 10:42
TP4-18-24	A2B0559-13	Soil	02/11/22 09:26	02/16/22 10:42
TP4-24-36	A2B0559-14	Soil	02/11/22 09:28	02/16/22 10:42
TP6-0-6	A2B0559-15	Soil	02/11/22 08:40	02/16/22 10:42
TP6-6-12	A2B0559-16	Soil	02/11/22 08:42	02/16/22 10:42
TP6-12-18	A2B0559-17	Soil	02/11/22 08:44	02/16/22 10:42
TP6-18-24	A2B0559-18	Soil	02/11/22 08:46	02/16/22 10:42
TP6-24-36	A2B0559-19	Soil	02/11/22 08:48	02/16/22 10:42
COMP1-0-6	A2B0559-20	Soil	02/11/22 10:30	02/16/22 10:42

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Alpine Environmental Consultants 12208 Antioch Road White City, OR 97503	Project: Lozier Phase II Project Number: AEC2022-04 Project Manager: Jonathan Williams	Report ID: A2B0559 - 03 15 22 0522
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ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
COMP1-0-6 (A2B0559-20RE1)				Matrix: Soil		Batch: 22B0965		C-05
Aldrin	ND	---	0.00229	mg/kg dry	1	02/28/22 15:53	EPA 8081B	
alpha-BHC	ND	---	0.00229	mg/kg dry	1	02/28/22 15:53	EPA 8081B	
beta-BHC	ND	---	0.00229	mg/kg dry	1	02/28/22 15:53	EPA 8081B	
delta-BHC	ND	---	0.00229	mg/kg dry	1	02/28/22 15:53	EPA 8081B	
gamma-BHC (Lindane)	ND	---	0.00229	mg/kg dry	1	02/28/22 15:53	EPA 8081B	
cis-Chlordane	ND	---	0.00229	mg/kg dry	1	02/28/22 15:53	EPA 8081B	P-11
trans-Chlordane	ND	---	0.00229	mg/kg dry	1	02/28/22 15:53	EPA 8081B	
4,4'-DDD	0.00852	---	0.00229	mg/kg dry	1	02/28/22 15:53	EPA 8081B	
4,4'-DDE	0.0522	---	0.00229	mg/kg dry	1	02/28/22 15:53	EPA 8081B	
4,4'-DDT	0.0783	---	0.00229	mg/kg dry	1	02/28/22 15:53	EPA 8081B	Q-42
Dieldrin	ND	---	0.00229	mg/kg dry	1	02/28/22 15:53	EPA 8081B	
Endosulfan I	ND	---	0.00229	mg/kg dry	1	02/28/22 15:53	EPA 8081B	
Endosulfan II	ND	---	0.00229	mg/kg dry	1	02/28/22 15:53	EPA 8081B	
Endosulfan sulfate	ND	---	0.00229	mg/kg dry	1	02/28/22 15:53	EPA 8081B	
Endrin	ND	---	0.00229	mg/kg dry	1	02/28/22 15:53	EPA 8081B	
Endrin Aldehyde	ND	---	0.00229	mg/kg dry	1	02/28/22 15:53	EPA 8081B	
Endrin ketone	ND	---	0.00229	mg/kg dry	1	02/28/22 15:53	EPA 8081B	
Heptachlor	ND	---	0.00229	mg/kg dry	1	02/28/22 15:53	EPA 8081B	
Heptachlor epoxide	ND	---	0.00229	mg/kg dry	1	02/28/22 15:53	EPA 8081B	
Methoxychlor	ND	---	0.00687	mg/kg dry	1	02/28/22 15:53	EPA 8081B	
Chlordane (Technical)	ND	---	0.0687	mg/kg dry	1	02/28/22 15:53	EPA 8081B	
Toxaphene (Total)	ND	---	0.0687	mg/kg dry	1	02/28/22 15:53	EPA 8081B	
<i>Surrogate: 2,4,5,6-TCMX (Surr)</i>			<i>Recovery: 56 %</i>	<i>Limits: 42-129 %</i>	<i>1</i>	<i>02/28/22 15:53</i>	<i>EPA 8081B</i>	
<i>Decachlorobiphenyl (Surr)</i>			<i>91 %</i>	<i>55-130 %</i>	<i>1</i>	<i>02/28/22 15:53</i>	<i>EPA 8081B</i>	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpine Environmental Consultants 12208 Antioch Road White City, OR 97503	Project: Lozier Phase II Project Number: AEC2022-04 Project Manager: Jonathan Williams	Report ID: A2B0559 - 03 15 22 0522
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ANALYTICAL SAMPLE RESULTS

Organophosphorous Pesticides (OPPs) by EPA 8270E (GC/MS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
COMP1-0-6 (A2B0559-20RE1)				Matrix: Soil		Batch: 22B0972		H-02
Azinphos methyl (Guthion)	ND	---	0.0554	mg/kg dry	1	03/01/22 00:38	EPA 8270E OPPs	
Chlorpyrifos	ND	---	0.0554	mg/kg dry	1	03/01/22 00:38	EPA 8270E OPPs	
Coumaphos	ND	---	0.0554	mg/kg dry	1	03/01/22 00:38	EPA 8270E OPPs	
Demeton O	ND	---	0.0554	mg/kg dry	1	03/01/22 00:38	EPA 8270E OPPs	
Demeton S	ND	---	0.0554	mg/kg dry	1	03/01/22 00:38	EPA 8270E OPPs	
Diazinon	ND	---	0.0554	mg/kg dry	1	03/01/22 00:38	EPA 8270E OPPs	
Dichlorvos	ND	---	0.0554	mg/kg dry	1	03/01/22 00:38	EPA 8270E OPPs	
Dimethoate	ND	---	0.0554	mg/kg dry	1	03/01/22 00:38	EPA 8270E OPPs	
Disulfoton	ND	---	0.0554	mg/kg dry	1	03/01/22 00:38	EPA 8270E OPPs	
EPN	ND	---	0.0554	mg/kg dry	1	03/01/22 00:38	EPA 8270E OPPs	
Ethoprop	ND	---	0.0554	mg/kg dry	1	03/01/22 00:38	EPA 8270E OPPs	
Fensulfothion	ND	---	0.0554	mg/kg dry	1	03/01/22 00:38	EPA 8270E OPPs	
Fenthion	ND	---	0.0554	mg/kg dry	1	03/01/22 00:38	EPA 8270E OPPs	
Malathion	ND	---	0.0554	mg/kg dry	1	03/01/22 00:38	EPA 8270E OPPs	
Merphos	ND	---	0.0554	mg/kg dry	1	03/01/22 00:38	EPA 8270E OPPs	
Methyl parathion	ND	---	0.0554	mg/kg dry	1	03/01/22 00:38	EPA 8270E OPPs	
Mevinphos (Phosdrin)	ND	---	0.0554	mg/kg dry	1	03/01/22 00:38	EPA 8270E OPPs	
Monocrotophos	ND	---	0.0554	mg/kg dry	1	03/01/22 00:38	EPA 8270E OPPs	
Naled (Dibrom)	ND	---	0.0554	mg/kg dry	1	03/01/22 00:38	EPA 8270E OPPs	
Parathion, ethyl	ND	---	0.0554	mg/kg dry	1	03/01/22 00:38	EPA 8270E OPPs	
Phorate	ND	---	0.0554	mg/kg dry	1	03/01/22 00:38	EPA 8270E OPPs	
Ronnel (Fenclorophos)	ND	---	0.0554	mg/kg dry	1	03/01/22 00:38	EPA 8270E OPPs	
Sulfotep	ND	---	0.0554	mg/kg dry	1	03/01/22 00:38	EPA 8270E OPPs	
Sulprofos (Bolstar)	ND	---	0.0554	mg/kg dry	1	03/01/22 00:38	EPA 8270E OPPs	
TEPP	ND	---	0.221	mg/kg dry	1	03/01/22 00:38	EPA 8270E OPPs	
Tetrachlorvinphos (Rabon)	ND	---	0.0554	mg/kg dry	1	03/01/22 00:38	EPA 8270E OPPs	
Tokuthion (Prothiofos)	ND	---	0.0554	mg/kg dry	1	03/01/22 00:38	EPA 8270E OPPs	
Trichloronate	ND	---	0.0554	mg/kg dry	1	03/01/22 00:38	EPA 8270E OPPs	
<i>Surrogate: Tributyl phosphate (Surr)</i>			<i>Recovery: 94 %</i>	<i>Limits: 10-136 %</i>	<i>1</i>	<i>03/01/22 00:38</i>	<i>EPA 8270E OPPs</i>	
<i>Triphenyl phosphate (Surr)</i>			<i>94 %</i>	<i>34-121 %</i>	<i>1</i>	<i>03/01/22 00:38</i>	<i>EPA 8270E OPPs</i>	

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpine Environmental Consultants 12208 Antioch Road White City, OR 97503	Project: Lozier Phase II Project Number: AEC2022-04 Project Manager: Jonathan Williams	Report ID: A2B0559 - 03 15 22 0522
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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TP1-0-6 (A2B0559-01) Matrix: Soil								
Batch: 22B1002								
Arsenic	7.53	---	1.30	mg/kg dry	10	03/02/22 00:03	EPA 6020B	
Lead	106	---	0.259	mg/kg dry	10	03/02/22 00:03	EPA 6020B	
TP1-6-12 (A2B0559-02) Matrix: Soil								
Batch: 22B1002								
Arsenic	7.25	---	1.26	mg/kg dry	10	03/02/22 00:08	EPA 6020B	
Lead	63.8	---	0.252	mg/kg dry	10	03/02/22 00:08	EPA 6020B	
TP1-12-18 (A2B0559-03) Matrix: Soil								
Batch: 22B1002								
Arsenic	4.78	---	1.18	mg/kg dry	10	03/02/22 00:13	EPA 6020B	
Lead	15.5	---	0.236	mg/kg dry	10	03/02/22 00:13	EPA 6020B	
TP1-18-24 (A2B0559-04) Matrix: Soil								
Batch: 22B1002								
Arsenic	3.32	---	1.13	mg/kg dry	10	03/02/22 00:17	EPA 6020B	
Lead	9.57	---	0.225	mg/kg dry	10	03/02/22 00:17	EPA 6020B	
TP8-0-6 (A2B0559-05) Matrix: Soil								
Batch: 22B1002								
Arsenic	3.26	---	1.05	mg/kg dry	10	03/02/22 00:22	EPA 6020B	
Lead	20.2	---	0.211	mg/kg dry	10	03/02/22 00:22	EPA 6020B	
TP8-6-12 (A2B0559-06) Matrix: Soil								
Batch: 22B1002								
Arsenic	3.28	---	1.15	mg/kg dry	10	03/02/22 00:27	EPA 6020B	
Lead	20.3	---	0.230	mg/kg dry	10	03/02/22 00:27	EPA 6020B	
TP8-12-18 (A2B0559-07) Matrix: Soil								
Batch: 22B1002								
Arsenic	4.04	---	1.26	mg/kg dry	10	03/02/22 00:32	EPA 6020B	
Lead	15.2	---	0.252	mg/kg dry	10	03/02/22 00:32	EPA 6020B	
TP8-18-24 (A2B0559-08) Matrix: Soil								
Batch: 22B1002								

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Alpine Environmental Consultants 12208 Antioch Road White City, OR 97503	Project: Lozier Phase II Project Number: AEC2022-04 Project Manager: Jonathan Williams	Report ID: A2B0559 - 03 15 22 0522
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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TP8-18-24 (A2B0559-08)				Matrix: Soil				
Arsenic	6.65	---	1.30	mg/kg dry	10	03/02/22 00:46	EPA 6020B	
Lead	245	---	0.260	mg/kg dry	10	03/02/22 00:46	EPA 6020B	
TP8-24-36 (A2B0559-09)				Matrix: Soil				
Batch: 22B1002								
Arsenic	7.72	---	1.25	mg/kg dry	10	03/02/22 00:51	EPA 6020B	
Lead	47.6	---	0.250	mg/kg dry	10	03/02/22 00:51	EPA 6020B	
TP4-0-6 (A2B0559-10)				Matrix: Soil				
Batch: 22B1002								
Arsenic	3.22	---	1.23	mg/kg dry	10	03/02/22 00:56	EPA 6020B	
Lead	12.5	---	0.245	mg/kg dry	10	03/02/22 00:56	EPA 6020B	
TP4-6-12 (A2B0559-11)				Matrix: Soil				
Batch: 22B1002								
Arsenic	4.28	---	1.24	mg/kg dry	10	03/02/22 01:00	EPA 6020B	
Lead	15.7	---	0.247	mg/kg dry	10	03/02/22 01:00	EPA 6020B	
TP4-12-18 (A2B0559-12)				Matrix: Soil				
Batch: 22B1002								
Arsenic	4.25	---	1.24	mg/kg dry	10	03/02/22 01:05	EPA 6020B	
Lead	20.1	---	0.248	mg/kg dry	10	03/02/22 01:05	EPA 6020B	
TP4-18-24 (A2B0559-13)				Matrix: Soil				
Batch: 22B1002								
Arsenic	4.55	---	1.33	mg/kg dry	10	03/02/22 01:10	EPA 6020B	
Lead	205	---	0.266	mg/kg dry	10	03/02/22 01:10	EPA 6020B	
TP4-24-36 (A2B0559-14)				Matrix: Soil				
Batch: 22B1002								
Arsenic	4.06	---	1.23	mg/kg dry	10	03/02/22 01:14	EPA 6020B	
Lead	11.0	---	0.247	mg/kg dry	10	03/02/22 01:14	EPA 6020B	
TP6-0-6 (A2B0559-15)				Matrix: Soil				
Batch: 22B1002								
Arsenic	18.1	---	1.22	mg/kg dry	10	03/02/22 01:19	EPA 6020B	

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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TP6-0-6 (A2B0559-15) Matrix: Soil								
Lead	98.4	---	0.245	mg/kg dry	10	03/02/22 01:19	EPA 6020B	
TP6-6-12 (A2B0559-16) Matrix: Soil								
Batch: 22B1002								
Arsenic	6.03	---	1.25	mg/kg dry	10	03/02/22 01:24	EPA 6020B	
Lead	241	---	0.249	mg/kg dry	10	03/02/22 01:24	EPA 6020B	
TP6-12-18 (A2B0559-17) Matrix: Soil								
Batch: 22B1002								
Arsenic	6.12	---	1.20	mg/kg dry	10	03/02/22 01:29	EPA 6020B	
Lead	175	---	0.240	mg/kg dry	10	03/02/22 01:29	EPA 6020B	
TP6-18-24 (A2B0559-18) Matrix: Soil								
Batch: 22B1002								
Arsenic	8.07	---	1.16	mg/kg dry	10	03/02/22 01:43	EPA 6020B	
Lead	29.0	---	0.232	mg/kg dry	10	03/02/22 01:43	EPA 6020B	
TP6-24-36 (A2B0559-19) Matrix: Soil								
Batch: 22C0035								
Arsenic	4.68	---	1.33	mg/kg dry	10	03/02/22 02:02	EPA 6020B	
Lead	3.89	---	0.267	mg/kg dry	10	03/02/22 02:02	EPA 6020B	
COMP1-0-6 (A2B0559-20) Matrix: Soil								
Batch: 22C0035								
Antimony	ND	---	1.27	mg/kg dry	10	03/02/22 02:07	EPA 6020B	
Arsenic	5.75	---	1.27	mg/kg dry	10	03/02/22 02:07	EPA 6020B	
Barium	131	---	1.27	mg/kg dry	10	03/02/22 02:07	EPA 6020B	
Beryllium	0.531	---	0.254	mg/kg dry	10	03/02/22 02:07	EPA 6020B	
Cadmium	0.263	---	0.254	mg/kg dry	10	03/02/22 02:07	EPA 6020B	
Chromium	49.6	---	1.27	mg/kg dry	10	03/02/22 02:07	EPA 6020B	
Cobalt	13.2	---	1.27	mg/kg dry	10	03/02/22 02:07	EPA 6020B	
Copper	60.3	---	2.54	mg/kg dry	10	03/02/22 02:07	EPA 6020B	
Lead	50.2	---	0.254	mg/kg dry	10	03/02/22 02:07	EPA 6020B	
Mercury	ND	---	0.102	mg/kg dry	10	03/02/22 02:07	EPA 6020B	
Molybdenum	ND	---	1.27	mg/kg dry	10	03/02/22 02:07	EPA 6020B	

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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
COMP1-0-6 (A2B0559-20)				Matrix: Soil				
Nickel	23.1	---	2.54	mg/kg dry	10	03/02/22 02:07	EPA 6020B	
Selenium	ND	---	1.27	mg/kg dry	10	03/02/22 02:07	EPA 6020B	
Silver	ND	---	0.254	mg/kg dry	10	03/02/22 02:07	EPA 6020B	
Thallium	ND	---	0.254	mg/kg dry	10	03/02/22 02:07	EPA 6020B	
Vanadium	60.2	---	2.54	mg/kg dry	10	03/02/22 02:07	EPA 6020B	Q-42
Zinc	109	---	5.09	mg/kg dry	10	03/02/22 02:07	EPA 6020B	

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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight									
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
TP1-0-6 (A2B0559-01)				Matrix: Soil		Batch: 22B0713			
% Solids	80.6	---	1.00	%	1	02/21/22 10:24	EPA 8000D		
TP1-6-12 (A2B0559-02)				Matrix: Soil		Batch: 22B0713			
% Solids	83.0	---	1.00	%	1	02/21/22 10:24	EPA 8000D		
TP1-12-18 (A2B0559-03)				Matrix: Soil		Batch: 22B0713			
% Solids	86.3	---	1.00	%	1	02/21/22 10:24	EPA 8000D		
TP1-18-24 (A2B0559-04)				Matrix: Soil		Batch: 22B0713			
% Solids	87.3	---	1.00	%	1	02/21/22 10:24	EPA 8000D		
TP8-0-6 (A2B0559-05)				Matrix: Soil		Batch: 22B0713			
% Solids	91.5	---	1.00	%	1	02/21/22 10:24	EPA 8000D		
TP8-6-12 (A2B0559-06)				Matrix: Soil		Batch: 22B0713			
% Solids	86.6	---	1.00	%	1	02/21/22 10:24	EPA 8000D		
TP8-12-18 (A2B0559-07)				Matrix: Soil		Batch: 22B0713			
% Solids	84.6	---	1.00	%	1	02/21/22 10:24	EPA 8000D		
TP8-18-24 (A2B0559-08)				Matrix: Soil		Batch: 22B0713			
% Solids	78.7	---	1.00	%	1	02/21/22 10:24	EPA 8000D		
TP8-24-36 (A2B0559-09)				Matrix: Soil		Batch: 22B0713			
% Solids	83.5	---	1.00	%	1	02/21/22 10:24	EPA 8000D		
TP4-0-6 (A2B0559-10)				Matrix: Soil		Batch: 22B0713			
% Solids	80.0	---	1.00	%	1	02/21/22 10:24	EPA 8000D		
TP4-6-12 (A2B0559-11)				Matrix: Soil		Batch: 22B0713			
% Solids	78.7	---	1.00	%	1	02/21/22 10:24	EPA 8000D		
TP4-12-18 (A2B0559-12)				Matrix: Soil		Batch: 22B0713			
% Solids	78.6	---	1.00	%	1	02/21/22 10:24	EPA 8000D		
TP4-18-24 (A2B0559-13)				Matrix: Soil		Batch: 22B0713			

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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TP4-18-24 (A2B0559-13)				Matrix: Soil		Batch: 22B0713		
% Solids	79.4	---	1.00	%	1	02/21/22 10:24	EPA 8000D	
TP4-24-36 (A2B0559-14)				Matrix: Soil		Batch: 22B0713		
% Solids	84.0	---	1.00	%	1	02/21/22 10:24	EPA 8000D	
TP6-0-6 (A2B0559-15)				Matrix: Soil		Batch: 22B0713		
% Solids	82.5	---	1.00	%	1	02/21/22 10:24	EPA 8000D	
TP6-6-12 (A2B0559-16)				Matrix: Soil		Batch: 22B0713		
% Solids	77.6	---	1.00	%	1	02/21/22 10:24	EPA 8000D	
TP6-12-18 (A2B0559-17)				Matrix: Soil		Batch: 22B0713		
% Solids	83.5	---	1.00	%	1	02/21/22 10:24	EPA 8000D	
TP6-18-24 (A2B0559-18)				Matrix: Soil		Batch: 22B0713		
% Solids	85.5	---	1.00	%	1	02/21/22 10:24	EPA 8000D	
TP6-24-36 (A2B0559-19)				Matrix: Soil		Batch: 22B0713		
% Solids	80.8	---	1.00	%	1	02/21/22 10:24	EPA 8000D	
COMP1-0-6 (A2B0559-20)				Matrix: Soil		Batch: 22B0713		
% Solids	82.8	---	1.00	%	1	02/21/22 10:24	EPA 8000D	

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Weck Laboratories, Inc.

ANALYTICAL SAMPLE RESULTS (Subcontracted)

Chlorinated Herbicides by GC/ECD

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
COMP1-0-6 (A2B0559-20)			Matrix: Soil		Batch: W2B1416			
<i>Batch: W2B1416</i>								
2,4-D	ND	---	0.33	mg/kg dry	2	03/09/22 03:39	EPA 8151A	M-02, M-04
2,4-DB	ND	---	0.66	mg/kg dry	2	03/09/22 03:39	EPA 8151A	M-02, M-04
2,4,5-T	ND	---	0.17	mg/kg dry	2	03/09/22 03:39	EPA 8151A	M-02, M-04
2,4,5-TP (Silvex)	ND	---	0.17	mg/kg dry	2	03/09/22 03:39	EPA 8151A	M-02, M-04
Dalapon	ND	---	0.33	mg/kg dry	2	03/09/22 03:39	EPA 8151A	M-02, M-04
Dicamba	ND	---	0.33	mg/kg dry	2	03/09/22 03:39	EPA 8151A	M-02, M-04
Dichloroprop	ND	---	0.33	mg/kg dry	2	03/09/22 03:39	EPA 8151A	M-02, M-04
Dinoseb	ND	---	0.17	mg/kg dry	2	03/09/22 03:39	EPA 8151A	M-02, M-04
MCPA	ND	---	33	mg/kg dry	2	03/09/22 03:39	EPA 8151A	M-02, M-04
MCPP	ND	---	33	mg/kg dry	2	03/09/22 03:39	EPA 8151A	M-02, M-04
Pentachlorophenol	ND	---	0.17	mg/kg dry	2	03/09/22 03:39	EPA 8151A	M-02, M-04
Picloram	ND	---	0.17	mg/kg dry	2	03/09/22 03:39	EPA 8151A	M-02, M-04
<i>Batch: W2B1416</i>								
<i>Surrogate: 2,4-DCAA</i>		<i>Recovery: 64 %</i>		<i>Limits: 13-119 %</i>		<i>2</i>	<i>03/09/22 03:39</i>	<i>EPA 8151A</i>

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Weck Laboratories, Inc.

ANALYTICAL SAMPLE RESULTS (Subcontracted)

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
COMP1-0-6 (A2B0559-20)				Matrix: Soil		Batch: W2B1440		
Batch: W2B1440								
% Solids	83.1	---	0.100	% by Weight	1	02/23/22 11:53	EPA 160.3M	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 22B0965 - EPA 3546/3640A (GPC)						Soil							
Blank (22B0965-BLK1)			Prepared: 02/18/22 15:22 Analyzed: 02/28/22 14:09						C-05				
<u>EPA 8081B</u>													
Aldrin	ND	---	0.00182	mg/kg wet	1	---	---	---	---	---	---		
alpha-BHC	ND	---	0.00182	mg/kg wet	1	---	---	---	---	---	---		
beta-BHC	ND	---	0.00182	mg/kg wet	1	---	---	---	---	---	---		
delta-BHC	ND	---	0.00182	mg/kg wet	1	---	---	---	---	---	---		
gamma-BHC (Lindane)	ND	---	0.00182	mg/kg wet	1	---	---	---	---	---	---		
cis-Chlordane	ND	---	0.00182	mg/kg wet	1	---	---	---	---	---	---		
trans-Chlordane	ND	---	0.00182	mg/kg wet	1	---	---	---	---	---	---		
4,4'-DDD	ND	---	0.00182	mg/kg wet	1	---	---	---	---	---	---		
4,4'-DDE	ND	---	0.00182	mg/kg wet	1	---	---	---	---	---	---		
4,4'-DDT	ND	---	0.00182	mg/kg wet	1	---	---	---	---	---	---		
Dieldrin	ND	---	0.00182	mg/kg wet	1	---	---	---	---	---	---		
Endosulfan I	ND	---	0.00182	mg/kg wet	1	---	---	---	---	---	---		
Endosulfan II	ND	---	0.00182	mg/kg wet	1	---	---	---	---	---	---		
Endosulfan sulfate	ND	---	0.00182	mg/kg wet	1	---	---	---	---	---	---		
Endrin	ND	---	0.00182	mg/kg wet	1	---	---	---	---	---	---		
Endrin Aldehyde	ND	---	0.00182	mg/kg wet	1	---	---	---	---	---	---		
Endrin ketone	ND	---	0.00182	mg/kg wet	1	---	---	---	---	---	---		
Heptachlor	ND	---	0.00182	mg/kg wet	1	---	---	---	---	---	---		
Heptachlor epoxide	ND	---	0.00182	mg/kg wet	1	---	---	---	---	---	---		
Methoxychlor	ND	---	0.00545	mg/kg wet	1	---	---	---	---	---	---		
Chlordane (Technical)	ND	---	0.0545	mg/kg wet	1	---	---	---	---	---	---		
Toxaphene (Total)	ND	---	0.0545	mg/kg wet	1	---	---	---	---	---	---		
<i>Surr: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 62 %</i>		<i>Limits: 42-129 %</i>		<i>Dilution: 1x</i>							
<i>Decachlorobiphenyl (Surr)</i>		<i>98 %</i>		<i>55-130 %</i>		"							

LCS (22B0965-BS1)						Prepared: 02/18/22 15:22 Analyzed: 02/28/22 14:27						C-05
<u>EPA 8081B</u>												
Aldrin	0.0323	---	0.00200	mg/kg wet	1	0.0500	---	65	45-136%	---	---	
alpha-BHC	0.0372	---	0.00200	mg/kg wet	1	0.0500	---	74	45-137%	---	---	
beta-BHC	0.0349	---	0.00200	mg/kg wet	1	0.0500	---	70	50-136%	---	---	
delta-BHC	0.0388	---	0.00200	mg/kg wet	1	0.0500	---	78	47-139%	---	---	
gamma-BHC (Lindane)	0.0381	---	0.00200	mg/kg wet	1	0.0500	---	76	49-135%	---	---	
cis-Chlordane	0.0379	---	0.00200	mg/kg wet	1	0.0500	---	76	54-133%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22B0965 - EPA 3546/3640A (GPC)						Soil						
LCS (22B0965-BS1)						Prepared: 02/18/22 15:22 Analyzed: 02/28/22 14:27						C-05
trans-Chlordane	0.0393	---	0.00200	mg/kg wet	1	0.0500	---	79	53-135%	---	---	
4,4'-DDD	0.0464	---	0.00200	mg/kg wet	1	0.0500	---	93	56-139%	---	---	
4,4'-DDE	0.0400	---	0.00200	mg/kg wet	1	0.0500	---	80	56-134%	---	---	
4,4'-DDT	0.0526	---	0.00200	mg/kg wet	1	0.0500	---	105	50-141%	---	---	
Dieldrin	0.0454	---	0.00200	mg/kg wet	1	0.0500	---	91	56-136%	---	---	
Endosulfan I	0.0412	---	0.00200	mg/kg wet	1	0.0500	---	82	53-132%	---	---	
Endosulfan II	0.0475	---	0.00200	mg/kg wet	1	0.0500	---	95	53-134%	---	---	
Endosulfan sulfate	0.0470	---	0.00200	mg/kg wet	1	0.0500	---	94	55-136%	---	---	
Endrin	0.0495	---	0.00200	mg/kg wet	1	0.0500	---	99	57-140%	---	---	
Endrin Aldehyde	0.0419	---	0.00200	mg/kg wet	1	0.0500	---	84	35-137%	---	---	
Endrin ketone	0.0500	---	0.00200	mg/kg wet	1	0.0500	---	100	55-136%	---	---	
Heptachlor	0.0406	---	0.00200	mg/kg wet	1	0.0500	---	81	47-136%	---	---	
Heptachlor epoxide	0.0396	---	0.00200	mg/kg wet	1	0.0500	---	79	52-136%	---	---	
Methoxychlor	0.0532	---	0.00600	mg/kg wet	1	0.0500	---	106	52-143%	---	---	Q-31
<i>Surr: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 70 %</i>		<i>Limits: 42-129 %</i>		<i>Dilution: 1x</i>						
<i>Decachlorobiphenyl (Surr)</i>		<i>96 %</i>		<i>55-130 %</i>		"						

Duplicate (22B0965-DUP1)						Prepared: 02/18/22 15:22 Analyzed: 02/28/22 15:01						C-05, PRO
QC Source Sample: Non-SDG (A2B0242-02RE1)												
Aldrin	ND	---	0.00200	mg/kg dry	1	---	ND	---	---	---	30%	
alpha-BHC	ND	---	0.00200	mg/kg dry	1	---	ND	---	---	---	30%	
beta-BHC	ND	---	0.00200	mg/kg dry	1	---	ND	---	---	---	30%	
delta-BHC	ND	---	0.00200	mg/kg dry	1	---	ND	---	---	---	30%	
gamma-BHC (Lindane)	ND	---	0.00200	mg/kg dry	1	---	ND	---	---	---	30%	
cis-Chlordane	ND	---	0.00200	mg/kg dry	1	---	ND	---	---	---	30%	
trans-Chlordane	ND	---	0.00200	mg/kg dry	1	---	ND	---	---	---	30%	
4,4'-DDD	ND	---	0.00200	mg/kg dry	1	---	ND	---	---	---	30%	
4,4'-DDE	0.0193	---	0.00200	mg/kg dry	1	---	0.0139	---	---	33	30%	Q-17
4,4'-DDT	0.0131	---	0.00200	mg/kg dry	1	---	0.00962	---	---	30	30%	
Dieldrin	0.00214	---	0.00200	mg/kg dry	1	---	0.00151	---	---	35	30%	Q-05
Endosulfan I	ND	---	0.00200	mg/kg dry	1	---	ND	---	---	---	30%	
Endosulfan II	ND	---	0.00200	mg/kg dry	1	---	ND	---	---	---	30%	
Endosulfan sulfate	ND	---	0.00200	mg/kg dry	1	---	ND	---	---	---	30%	
Endrin	ND	---	0.00200	mg/kg dry	1	---	ND	---	---	---	30%	

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Alpine Environmental Consultants 12208 Antioch Road White City, OR 97503	Project: Lozier Phase II Project Number: AEC2022-04 Project Manager: Jonathan Williams	Report ID: A2B0559 - 03 15 22 0522
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 22B0965 - EPA 3546/3640A (GPC)						Soil							
Duplicate (22B0965-DUP1)			Prepared: 02/18/22 15:22 Analyzed: 02/28/22 15:01						C-05, PRO				
QC Source Sample: Non-SDG (A2B0242-02RE1)													
Endrin Aldehyde	ND	---	0.00200	mg/kg dry	1	---	ND	---	---	---	30%		
Endrin ketone	ND	---	0.00200	mg/kg dry	1	---	ND	---	---	---	30%		
Heptachlor	ND	---	0.00200	mg/kg dry	1	---	ND	---	---	---	30%		
Heptachlor epoxide	ND	---	0.00200	mg/kg dry	1	---	ND	---	---	---	30%		
Methoxychlor	ND	---	0.00599	mg/kg dry	1	---	ND	---	---	---	30%		
Chlordane (Technical)	ND	---	0.0599	mg/kg dry	1	---	ND	---	---	---	30%		
Toxaphene (Total)	ND	---	0.0599	mg/kg dry	1	---	ND	---	---	---	30%		
<i>Surr: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 50 %</i>		<i>Limits: 42-129 %</i>		<i>Dilution: 1x</i>							
<i>Decachlorobiphenyl (Surr)</i>		<i>84 %</i>		<i>55-130 %</i>		<i>"</i>							

Matrix Spike (22B0965-MS1)						Prepared: 02/18/22 15:22 Analyzed: 02/28/22 16:10						C-05
QC Source Sample: COMP1-0-6 (A2B0559-20RE1)												
EPA 8081B												
Aldrin	0.0298	---	0.00231	mg/kg dry	1	0.0577	ND	52	45-136%	---	---	
alpha-BHC	0.0343	---	0.00231	mg/kg dry	1	0.0577	ND	59	45-137%	---	---	
beta-BHC	0.0528	---	0.00231	mg/kg dry	1	0.0577	ND	92	50-136%	---	---	
delta-BHC	0.0487	---	0.00231	mg/kg dry	1	0.0577	ND	84	47-139%	---	---	
gamma-BHC (Lindane)	0.0385	---	0.00231	mg/kg dry	1	0.0577	ND	67	49-135%	---	---	
cis-Chlordane	0.0544	---	0.00231	mg/kg dry	1	0.0577	0.00221	91	54-133%	---	---	
trans-Chlordane	0.0486	---	0.00231	mg/kg dry	1	0.0577	ND	84	53-135%	---	---	
4,4'-DDD	0.0699	---	0.00231	mg/kg dry	1	0.0577	0.00852	106	56-139%	---	---	
4,4'-DDE	0.114	---	0.00231	mg/kg dry	1	0.0577	0.0522	107	56-134%	---	---	
4,4'-DDT	0.161	---	0.00231	mg/kg dry	1	0.0577	0.0783	143	50-141%	---	---	Q-01
Dieldrin	0.0532	---	0.00231	mg/kg dry	1	0.0577	ND	92	56-136%	---	---	
Endosulfan I	0.0460	---	0.00231	mg/kg dry	1	0.0577	ND	80	53-132%	---	---	
Endosulfan II	0.0553	---	0.00231	mg/kg dry	1	0.0577	ND	96	53-134%	---	---	
Endosulfan sulfate	0.0575	---	0.00231	mg/kg dry	1	0.0577	ND	100	55-136%	---	---	
Endrin	0.0567	---	0.00231	mg/kg dry	1	0.0577	ND	98	57-140%	---	---	
Endrin Aldehyde	0.0489	---	0.00231	mg/kg dry	1	0.0577	ND	85	35-137%	---	---	
Endrin ketone	0.0607	---	0.00231	mg/kg dry	1	0.0577	ND	105	55-136%	---	---	
Heptachlor	0.0411	---	0.00231	mg/kg dry	1	0.0577	ND	71	47-136%	---	---	
Heptachlor epoxide	0.0502	---	0.00231	mg/kg dry	1	0.0577	0.00133	85	52-136%	---	---	
Methoxychlor	0.0810	---	0.00692	mg/kg dry	1	0.0577	ND	140	52-143%	---	---	

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Darwin Thomas, Business Development Director



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ORELAP ID: OR100062

Alpine Environmental Consultants 12208 Antioch Road White City, OR 97503	Project: Lozier Phase II Project Number: AEC2022-04 Project Manager: Jonathan Williams	Report ID: A2B0559 - 03 15 22 0522
---	---	--

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22B0965 - EPA 3546/3640A (GPC)						Soil						
Matrix Spike (22B0965-MS1)						Prepared: 02/18/22 15:22 Analyzed: 02/28/22 16:10						C-05
QC Source Sample: COMP1-0-6 (A2B0559-20RE1)												
<i>Surr: 2,4,5,6-TCMX (Surr)</i>		<i>Recovery: 46 %</i>		<i>Limits: 42-129 %</i>		<i>Dilution: 1x</i>						
<i>Decachlorobiphenyl (Surr)</i>		<i>89 %</i>		<i>55-130 %</i>		<i>"</i>						

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ORELAP ID: OR100062

Alpine Environmental Consultants	Project: Lozier Phase II	
12208 Antioch Road	Project Number: AEC2022-04	Report ID:
White City, OR 97503	Project Manager: Jonathan Williams	A2B0559 - 03 15 22 0522

QUALITY CONTROL (QC) SAMPLE RESULTS

Organophosphorous Pesticides (OPPs) by EPA 8270E (GC/MS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22B0972 - EPA 3546						Soil						
Blank (22B0972-BLK2)			Prepared: 02/28/22 07:30 Analyzed: 02/28/22 15:07									
EPA 8270E OPPs												
Azinphos methyl (Guthion)	ND	---	0.0455	mg/kg wet	1	---	---	---	---	---	---	
Chlorpyrifos	ND	---	0.0455	mg/kg wet	1	---	---	---	---	---	---	
Coumaphos	ND	---	0.0455	mg/kg wet	1	---	---	---	---	---	---	
Demeton O	ND	---	0.0455	mg/kg wet	1	---	---	---	---	---	---	
Demeton S	ND	---	0.0455	mg/kg wet	1	---	---	---	---	---	---	
Diazinon	ND	---	0.0455	mg/kg wet	1	---	---	---	---	---	---	
Dichlorvos	ND	---	0.0455	mg/kg wet	1	---	---	---	---	---	---	
Dimethoate	ND	---	0.0455	mg/kg wet	1	---	---	---	---	---	---	
Disulfoton	ND	---	0.0455	mg/kg wet	1	---	---	---	---	---	---	
EPN	ND	---	0.0455	mg/kg wet	1	---	---	---	---	---	---	
Ethoprop	ND	---	0.0455	mg/kg wet	1	---	---	---	---	---	---	
Fensulfothion	ND	---	0.0455	mg/kg wet	1	---	---	---	---	---	---	
Fenthion	ND	---	0.0455	mg/kg wet	1	---	---	---	---	---	---	
Malathion	ND	---	0.0455	mg/kg wet	1	---	---	---	---	---	---	
Merphos	ND	---	0.0455	mg/kg wet	1	---	---	---	---	---	---	
Methyl parathion	ND	---	0.0455	mg/kg wet	1	---	---	---	---	---	---	
Mevinphos (Phosdrin)	ND	---	0.0455	mg/kg wet	1	---	---	---	---	---	---	
Monocrotophos	ND	---	0.0455	mg/kg wet	1	---	---	---	---	---	---	
Naled (Dibrom)	ND	---	0.0455	mg/kg wet	1	---	---	---	---	---	---	
Parathion, ethyl	ND	---	0.0455	mg/kg wet	1	---	---	---	---	---	---	
Phorate	ND	---	0.0455	mg/kg wet	1	---	---	---	---	---	---	
Ronnel (Fenchlorphos)	ND	---	0.0455	mg/kg wet	1	---	---	---	---	---	---	
Sulfotep	ND	---	0.0455	mg/kg wet	1	---	---	---	---	---	---	
Sulprofos (Bolstar)	ND	---	0.0455	mg/kg wet	1	---	---	---	---	---	---	
TEPP	ND	---	0.182	mg/kg wet	1	---	---	---	---	---	---	
Tetrachlorvinphos (Rabon)	ND	---	0.0455	mg/kg wet	1	---	---	---	---	---	---	
Tokuthion (Prothiofos)	ND	---	0.0455	mg/kg wet	1	---	---	---	---	---	---	
Trichloronate	ND	---	0.0455	mg/kg wet	1	---	---	---	---	---	---	
<i>Surr: Tributyl phosphate (Surr)</i>		<i>Recovery: 74 %</i>		<i>Limits: 10-136 %</i>		<i>Dilution: 1x</i>						
<i>Triphenyl phosphate (Surr)</i>		<i>87 %</i>		<i>34-121 %</i>		<i>"</i>						

LCS (22B0972-BS1)	Prepared: 02/28/22 07:30 Analyzed: 02/28/22 14:28
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EPA 8270E OPPs

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503-718-2323
ORELAP ID: OR100062

Alpine Environmental Consultants 12208 Antioch Road White City, OR 97503	Project: Lozier Phase II Project Number: AEC2022-04 Project Manager: Jonathan Williams	Report ID: A2B0559 - 03 15 22 0522
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Organophosphorous Pesticides (OPPs) by EPA 8270E (GC/MS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22B0972 - EPA 3546						Soil						
LCS (22B0972-BS1)			Prepared: 02/28/22 07:30 Analyzed: 02/28/22 14:28									
Azinphos methyl (Guthion)	0.352	---	0.0500	mg/kg wet	1	0.400	---	88	38-156%	---	---	
Chlorpyrifos	0.411	---	0.0500	mg/kg wet	1	0.400	---	103	47-140%	---	---	
Coumaphos	0.374	---	0.0500	mg/kg wet	1	0.400	---	93	37-160%	---	---	
Demeton O	0.0886	---	0.0500	mg/kg wet	1	0.0976	---	91	66-127%	---	---	
Demeton S	0.261	---	0.0500	mg/kg wet	1	0.268	---	97	70-121%	---	---	
Diazinon	0.409	---	0.0500	mg/kg wet	1	0.400	---	102	42-134%	---	---	
Dichlorvos	0.365	---	0.0500	mg/kg wet	1	0.400	---	91	39-142%	---	---	
Dimethoate	0.419	---	0.0500	mg/kg wet	1	0.400	---	105	16-139%	---	---	
Disulfoton	0.400	---	0.0500	mg/kg wet	1	0.400	---	100	28-145%	---	---	
EPN	0.373	---	0.0500	mg/kg wet	1	0.400	---	93	44-137%	---	---	
Ethoprop	0.393	---	0.0500	mg/kg wet	1	0.400	---	98	47-128%	---	---	
Fensulfothion	0.342	---	0.0500	mg/kg wet	1	0.400	---	86	27-147%	---	---	
Fenthion	0.412	---	0.0500	mg/kg wet	1	0.400	---	103	44-134%	---	---	
Malathion	0.397	---	0.0500	mg/kg wet	1	0.400	---	99	46-137%	---	---	
Merphos	0.373	---	0.0500	mg/kg wet	1	0.400	---	93	66-131%	---	---	
Methyl parathion	0.374	---	0.0500	mg/kg wet	1	0.400	---	94	49-138%	---	---	
Mevinphos (Phosdrin)	0.375	---	0.0500	mg/kg wet	1	0.400	---	94	12-176%	---	---	
Monocrotophos	0.447	---	0.0500	mg/kg wet	1	0.400	---	112	10-153%	---	---	
Naled (Dibrom)	0.349	---	0.0500	mg/kg wet	1	0.400	---	87	10-174%	---	---	
Parathion, ethyl	0.364	---	0.0500	mg/kg wet	1	0.400	---	91	50-139%	---	---	
Phorate	0.419	---	0.0500	mg/kg wet	1	0.400	---	105	23-142%	---	---	
Ronnel (Fenclorphos)	0.405	---	0.0500	mg/kg wet	1	0.400	---	101	45-138%	---	---	
Sulfotep	0.391	---	0.0500	mg/kg wet	1	0.400	---	98	52-126%	---	---	
Sulprofos (Bolstar)	0.385	---	0.0500	mg/kg wet	1	0.400	---	96	48-139%	---	---	
TEPP	0.349	---	0.200	mg/kg wet	1	0.400	---	87	16-126%	---	---	
Tetrachlorvinphos (Rabon)	0.378	---	0.0500	mg/kg wet	1	0.400	---	94	54-129%	---	---	
Tokuthion (Prothiofos)	0.394	---	0.0500	mg/kg wet	1	0.400	---	98	45-136%	---	---	
Trichloronate	0.415	---	0.0500	mg/kg wet	1	0.400	---	104	37-140%	---	---	
<i>Surr: Tributyl phosphate (Surr)</i>		<i>Recovery: 90 %</i>		<i>Limits: 10-136 %</i>		<i>Dilution: 1x</i>						
<i>Triphenyl phosphate (Surr)</i>		<i>94 %</i>		<i>34-121 %</i>		<i>"</i>						

Duplicate (22B0972-DUP1)						Prepared: 02/28/22 07:30 Analyzed: 02/28/22 18:41						
QC Source Sample: Non-SDG (A2B0557-61RE1)												
Azinphos methyl (Guthion)	ND	---	0.0499	mg/kg wet	1	---	ND	---	---	---	30%	

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Alpine Environmental Consultants 12208 Antioch Road White City, OR 97503	Project: Lozier Phase II Project Number: AEC2022-04 Project Manager: Jonathan Williams	Report ID: A2B0559 - 03 15 22 0522
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Organophosphorous Pesticides (OPPs) by EPA 8270E (GC/MS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22B0972 - EPA 3546						Soil						
Duplicate (22B0972-DUP1)			Prepared: 02/28/22 07:30 Analyzed: 02/28/22 18:41									
QC Source Sample: Non-SDG (A2B0557-61RE1)												
Chlorpyrifos	ND	---	0.0499	mg/kg wet	1	---	ND	---	---	---	30%	
Coumaphos	ND	---	0.0499	mg/kg wet	1	---	ND	---	---	---	30%	
Demeton O	ND	---	0.0499	mg/kg wet	1	---	ND	---	---	---	30%	
Demeton S	ND	---	0.0499	mg/kg wet	1	---	ND	---	---	---	30%	
Diazinon	ND	---	0.0499	mg/kg wet	1	---	ND	---	---	---	30%	
Dichlorvos	ND	---	0.0499	mg/kg wet	1	---	ND	---	---	---	30%	
Dimethoate	ND	---	0.0499	mg/kg wet	1	---	ND	---	---	---	30%	
Disulfoton	ND	---	0.0499	mg/kg wet	1	---	ND	---	---	---	30%	
EPN	ND	---	0.0499	mg/kg wet	1	---	ND	---	---	---	30%	
Ethoprop	ND	---	0.0499	mg/kg wet	1	---	ND	---	---	---	30%	
Fensulfothion	ND	---	0.0499	mg/kg wet	1	---	ND	---	---	---	30%	
Fenthion	ND	---	0.0499	mg/kg wet	1	---	ND	---	---	---	30%	
Malathion	ND	---	0.0499	mg/kg wet	1	---	ND	---	---	---	30%	
Merphos	ND	---	0.0499	mg/kg wet	1	---	ND	---	---	---	30%	
Methyl parathion	ND	---	0.0499	mg/kg wet	1	---	ND	---	---	---	30%	
Mevinphos (Phosdrin)	ND	---	0.0499	mg/kg wet	1	---	ND	---	---	---	30%	
Monocrotophos	ND	---	0.0499	mg/kg wet	1	---	ND	---	---	---	30%	
Naled (Dibrom)	ND	---	0.0499	mg/kg wet	1	---	ND	---	---	---	30%	
Parathion, ethyl	ND	---	0.0499	mg/kg wet	1	---	ND	---	---	---	30%	
Phorate	ND	---	0.0499	mg/kg wet	1	---	ND	---	---	---	30%	
Ronnel (Fenclorphos)	ND	---	0.0499	mg/kg wet	1	---	ND	---	---	---	30%	
Sulfotep	ND	---	0.0499	mg/kg wet	1	---	ND	---	---	---	30%	
Sulprofos (Bolstar)	ND	---	0.0499	mg/kg wet	1	---	ND	---	---	---	30%	
TEPP	ND	---	0.199	mg/kg wet	1	---	ND	---	---	---	30%	
Tetrachlorvinphos (Rabon)	ND	---	0.0499	mg/kg wet	1	---	ND	---	---	---	30%	
Tokuthion (Prothiofos)	ND	---	0.0499	mg/kg wet	1	---	ND	---	---	---	30%	
Trichloronate	ND	---	0.0499	mg/kg wet	1	---	ND	---	---	---	30%	
<i>Surr: Tributyl phosphate (Surr)</i>		<i>Recovery: 96 %</i>		<i>Limits: 10-136 %</i>		<i>Dilution: 1x</i>						
<i>Triphenyl phosphate (Surr)</i>		<i>92 %</i>		<i>34-121 %</i>		<i>"</i>						

Matrix Spike (22B0972-MS1) Prepared: 02/28/22 07:30 Analyzed: 02/28/22 19:53

QC Source Sample: Non-SDG (A2B0557-69RE1)

EPA 8270E OPPs

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Darwin Thomas, Business Development Director



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Alpine Environmental Consultants 12208 Antioch Road White City, OR 97503	Project: Lozier Phase II Project Number: AEC2022-04 Project Manager: Jonathan Williams	Report ID: A2B0559 - 03 15 22 0522
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Organophosphorous Pesticides (OPPs) by EPA 8270E (GC/MS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22B0972 - EPA 3546						Soil						
Matrix Spike (22B0972-MS1)			Prepared: 02/28/22 07:30 Analyzed: 02/28/22 19:53									
QC Source Sample: Non-SDG (A2B0557-69RE1)												
Azinphos methyl (Guthion)	0.349	---	0.0475	mg/kg wet	1	0.380	ND	92	38-156%	---	---	
Chlorpyrifos	0.320	---	0.0475	mg/kg wet	1	0.380	ND	84	47-140%	---	---	
Coumaphos	0.384	---	0.0475	mg/kg wet	1	0.380	ND	101	37-160%	---	---	
Demeton O	0.0788	---	0.0475	mg/kg wet	1	0.0928	ND	85	66-127%	---	---	
Demeton S	0.220	---	0.0475	mg/kg wet	1	0.255	ND	86	70-121%	---	---	
Diazinon	0.312	---	0.0475	mg/kg wet	1	0.380	ND	82	42-134%	---	---	
Dichlorvos	0.359	---	0.0475	mg/kg wet	1	0.380	ND	94	39-142%	---	---	
Dimethoate	0.336	---	0.0475	mg/kg wet	1	0.380	ND	88	16-139%	---	---	
Disulfoton	0.321	---	0.0475	mg/kg wet	1	0.380	ND	84	28-145%	---	---	
EPN	0.392	---	0.0475	mg/kg wet	1	0.380	ND	103	44-137%	---	---	
Ethoprop	0.335	---	0.0475	mg/kg wet	1	0.380	ND	88	47-128%	---	---	
Fensulfothion	0.440	---	0.0475	mg/kg wet	1	0.380	ND	116	27-147%	---	---	
Fenthion	0.310	---	0.0475	mg/kg wet	1	0.380	ND	81	44-134%	---	---	
Malathion	0.327	---	0.0475	mg/kg wet	1	0.380	ND	86	46-137%	---	---	
Merphos	0.377	---	0.0475	mg/kg wet	1	0.380	ND	99	66-131%	---	---	
Methyl parathion	0.325	---	0.0475	mg/kg wet	1	0.380	ND	85	49-138%	---	---	
Mevinphos (Phosdrin)	0.347	---	0.0475	mg/kg wet	1	0.380	ND	91	12-176%	---	---	
Monocrotophos	0.353	---	0.0475	mg/kg wet	1	0.380	ND	93	10-153%	---	---	
Naled (Dibrom)	0.187	---	0.0475	mg/kg wet	1	0.380	ND	49	10-174%	---	---	
Parathion, ethyl	0.333	---	0.0475	mg/kg wet	1	0.380	ND	88	50-139%	---	---	
Phorate	0.363	---	0.0475	mg/kg wet	1	0.380	ND	95	23-142%	---	---	
Ronnel (Fenclorphos)	0.309	---	0.0475	mg/kg wet	1	0.380	ND	81	45-138%	---	---	
Sulfotep	0.337	---	0.0475	mg/kg wet	1	0.380	ND	89	52-126%	---	---	
Sulprofos (Bolstar)	0.327	---	0.0475	mg/kg wet	1	0.380	ND	86	48-139%	---	---	
TEPP	ND	---	0.190	mg/kg wet	1	0.380	ND	50	16-126%	---	---	
Tetrachlorvinphos (Rabon)	0.325	---	0.0475	mg/kg wet	1	0.380	ND	85	54-129%	---	---	
Tokuthion (Prothiofos)	0.342	---	0.0475	mg/kg wet	1	0.380	ND	90	45-136%	---	---	
Trichloronate	0.329	---	0.0475	mg/kg wet	1	0.380	ND	86	37-140%	---	---	
<i>Surr: Tributyl phosphate (Surr)</i>		<i>Recovery: 88 %</i>		<i>Limits: 10-136 %</i>		<i>Dilution: 1x</i>						
<i>Triphenyl phosphate (Surr)</i>		<i>83 %</i>		<i>34-121 %</i>		"						

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ANALYTICAL REPORT

Apex Laboratories, LLC

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503-718-2323
ORELAP ID: OR100062

Alpine Environmental Consultants 12208 Antioch Road White City, OR 97503	Project: Lozier Phase II Project Number: AEC2022-04 Project Manager: Jonathan Williams	Report ID: A2B0559 - 03 15 22 0522
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Total 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 22B1002 - EPA 3051A						Soil						
Blank (22B1002-BLK1)			Prepared: 02/28/22 14:51 Analyzed: 03/01/22 23:25									
<u>EPA 6020B</u>												
Arsenic	ND	---	0.980	mg/kg wet	10	---	---	---	---	---	---	
Lead	ND	---	0.196	mg/kg wet	10	---	---	---	---	---	---	
LCS (22B1002-BS1)			Prepared: 02/28/22 14:51 Analyzed: 03/01/22 23:30									
<u>EPA 6020B</u>												
Arsenic	49.4	---	1.00	mg/kg wet	10	50.0	---	99	80-120%	---	---	
Lead	47.9	---	0.200	mg/kg wet	10	50.0	---	96	80-120%	---	---	
Duplicate (22B1002-DUP1)			Prepared: 02/28/22 14:51 Analyzed: 03/01/22 23:49									
<u>QC Source Sample: Non-SDG (A2B0557-68)</u>												
Arsenic	6.68	---	1.19	mg/kg dry	10	---	8.86	---	---	28	20%	Q-04
Lead	10.8	---	0.237	mg/kg dry	10	---	14.5	---	---	29	20%	Q-04
Matrix Spike (22B1002-MS1)			Prepared: 02/28/22 14:51 Analyzed: 03/01/22 23:54									
<u>QC Source Sample: Non-SDG (A2B0557-68)</u>												
<u>EPA 6020B</u>												
Arsenic	73.2	---	1.28	mg/kg dry	10	64.1	8.86	100	75-125%	---	---	
Lead	75.6	---	0.256	mg/kg dry	10	64.1	14.5	95	75-125%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total 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 22C0035 - EPA 3051A												
Soil												
Blank (22C0035-BLK1)												
						Prepared: 03/01/22 13:02 Analyzed: 03/02/22 01:52						
<u>EPA 6020B</u>												
Antimony	ND	---	0.967	mg/kg wet	10	---	---	---	---	---	---	
Arsenic	ND	---	0.967	mg/kg wet	10	---	---	---	---	---	---	
Barium	ND	---	0.967	mg/kg wet	10	---	---	---	---	---	---	
Beryllium	ND	---	0.193	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	0.193	mg/kg wet	10	---	---	---	---	---	---	
Chromium	ND	---	0.967	mg/kg wet	10	---	---	---	---	---	---	
Cobalt	ND	---	0.967	mg/kg wet	10	---	---	---	---	---	---	
Copper	ND	---	1.93	mg/kg wet	10	---	---	---	---	---	---	
Lead	ND	---	0.193	mg/kg wet	10	---	---	---	---	---	---	
Mercury	ND	---	0.0774	mg/kg wet	10	---	---	---	---	---	---	
Molybdenum	ND	---	0.967	mg/kg wet	10	---	---	---	---	---	---	
Nickel	ND	---	1.93	mg/kg wet	10	---	---	---	---	---	---	
Selenium	ND	---	0.967	mg/kg wet	10	---	---	---	---	---	---	
Silver	ND	---	0.193	mg/kg wet	10	---	---	---	---	---	---	
Thallium	ND	---	0.193	mg/kg wet	10	---	---	---	---	---	---	
Vanadium	ND	---	1.93	mg/kg wet	10	---	---	---	---	---	---	
Zinc	ND	---	3.87	mg/kg wet	10	---	---	---	---	---	---	

LCS (22C0035-BS1)												
						Prepared: 03/01/22 13:02 Analyzed: 03/02/22 01:57						
<u>EPA 6020B</u>												
Antimony	26.0	---	1.00	mg/kg wet	10	25.0	---	104	80-120%	---	---	
Arsenic	51.1	---	1.00	mg/kg wet	10	50.0	---	102	80-120%	---	---	
Barium	50.1	---	1.00	mg/kg wet	10	50.0	---	100	80-120%	---	---	
Beryllium	26.2	---	0.200	mg/kg wet	10	25.0	---	105	80-120%	---	---	
Cadmium	48.1	---	0.200	mg/kg wet	10	50.0	---	96	80-120%	---	---	
Chromium	50.5	---	1.00	mg/kg wet	10	50.0	---	101	80-120%	---	---	
Cobalt	51.6	---	1.00	mg/kg wet	10	50.0	---	103	80-120%	---	---	
Copper	54.0	---	2.00	mg/kg wet	10	50.0	---	108	80-120%	---	---	
Lead	50.2	---	0.200	mg/kg wet	10	50.0	---	100	80-120%	---	---	
Mercury	0.971	---	0.0800	mg/kg wet	10	1.00	---	97	80-120%	---	---	
Molybdenum	25.6	---	1.00	mg/kg wet	10	25.0	---	102	80-120%	---	---	
Nickel	51.4	---	2.00	mg/kg wet	10	50.0	---	103	80-120%	---	---	
Selenium	25.0	---	1.00	mg/kg wet	10	25.0	---	100	80-120%	---	---	

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Alpine Environmental Consultants 12208 Antioch Road White City, OR 97503	Project: Lozier Phase II Project Number: AEC2022-04 Project Manager: Jonathan Williams	Report ID: A2B0559 - 03 15 22 0522
---	---	---

QUALITY CONTROL (QC) SAMPLE RESULTS

Total 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 22C0035 - EPA 3051A						Soil						
LCS (22C0035-BS1)						Prepared: 03/01/22 13:02 Analyzed: 03/02/22 01:57						
Silver	25.1	---	0.200	mg/kg wet	10	25.0	---	100	80-120%	---	---	
Thallium	23.9	---	0.200	mg/kg wet	10	25.0	---	96	80-120%	---	---	
Vanadium	51.2	---	2.00	mg/kg wet	10	50.0	---	102	80-120%	---	---	
Zinc	50.8	---	4.00	mg/kg wet	10	50.0	---	102	80-120%	---	---	

Duplicate (22C0035-DUP1) Prepared: 03/01/22 13:02 Analyzed: 03/02/22 02:12

QC Source Sample: COMP1-0-6 (A2B0559-20)

EPA 6020B

Antimony	ND	---	1.18	mg/kg dry	10	---	ND	---	---	---	20%	
Arsenic	6.38	---	1.18	mg/kg dry	10	---	5.75	---	---	10	20%	
Barium	130	---	1.18	mg/kg dry	10	---	131	---	---	0.2	20%	
Beryllium	0.462	---	0.237	mg/kg dry	10	---	0.531	---	---	14	20%	
Cadmium	0.247	---	0.237	mg/kg dry	10	---	0.263	---	---	6	20%	
Chromium	40.4	---	1.18	mg/kg dry	10	---	49.6	---	---	20	20%	
Cobalt	15.3	---	1.18	mg/kg dry	10	---	13.2	---	---	15	20%	
Copper	50.8	---	2.37	mg/kg dry	10	---	60.3	---	---	17	20%	
Lead	50.7	---	0.237	mg/kg dry	10	---	50.2	---	---	1	20%	
Mercury	ND	---	0.0948	mg/kg dry	10	---	0.0872	---	---	***	20%	
Molybdenum	ND	---	1.18	mg/kg dry	10	---	ND	---	---	---	20%	
Nickel	23.2	---	2.37	mg/kg dry	10	---	23.1	---	---	0.3	20%	
Selenium	ND	---	1.18	mg/kg dry	10	---	ND	---	---	---	20%	
Silver	ND	---	0.237	mg/kg dry	10	---	ND	---	---	---	20%	
Thallium	ND	---	0.237	mg/kg dry	10	---	ND	---	---	---	20%	
Vanadium	58.3	---	2.37	mg/kg dry	10	---	60.2	---	---	3	20%	
Zinc	113	---	4.74	mg/kg dry	10	---	109	---	---	3	20%	

Matrix Spike (22C0035-MS1) Prepared: 03/01/22 13:02 Analyzed: 03/02/22 02:16

QC Source Sample: COMP1-0-6 (A2B0559-20)

EPA 6020B

Antimony	25.7	---	1.19	mg/kg dry	10	29.8	ND	86	75-125%	---	---	
Arsenic	63.7	---	1.19	mg/kg dry	10	59.7	5.75	97	75-125%	---	---	
Barium	191	---	1.19	mg/kg dry	10	59.7	131	101	75-125%	---	---	
Beryllium	30.3	---	0.239	mg/kg dry	10	29.8	0.531	100	75-125%	---	---	
Cadmium	54.9	---	0.239	mg/kg dry	10	59.7	0.263	91	75-125%	---	---	

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Darwin Thomas, Business Development Director



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QUALITY CONTROL (QC) SAMPLE RESULTS

Total 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 22C0035 - EPA 3051A						Soil						
Matrix Spike (22C0035-MS1)						Prepared: 03/01/22 13:02 Analyzed: 03/02/22 02:16						
QC Source Sample: COMP1-0-6 (A2B0559-20)												
Chromium	107	---	1.19	mg/kg dry	10	59.7	49.6	96	75-125%	---	---	
Cobalt	71.4	---	1.19	mg/kg dry	10	59.7	13.2	98	75-125%	---	---	
Copper	117	---	2.39	mg/kg dry	10	59.7	60.3	96	75-125%	---	---	
Lead	105	---	0.239	mg/kg dry	10	59.7	50.2	92	75-125%	---	---	
Mercury	1.10	---	0.0955	mg/kg dry	10	1.19	0.0872	84	75-125%	---	---	
Molybdenum	29.4	---	1.19	mg/kg dry	10	29.8	ND	98	75-125%	---	---	
Nickel	86.0	---	2.39	mg/kg dry	10	59.7	23.1	105	75-125%	---	---	
Selenium	29.3	---	1.19	mg/kg dry	10	29.8	ND	98	75-125%	---	---	
Silver	27.8	---	0.239	mg/kg dry	10	29.8	ND	93	75-125%	---	---	
Thallium	26.1	---	0.239	mg/kg dry	10	29.8	ND	88	75-125%	---	---	
Vanadium	149	---	2.39	mg/kg dry	10	59.7	60.2	149	75-125%	---	---	A-01, Q-01
Zinc	179	---	4.78	mg/kg dry	10	59.7	109	116	75-125%	---	---	

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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 22B0713 - Total Solids (Dry Weight)							Soil					
Duplicate (22B0713-DUP1)			Prepared: 02/18/22 10:52 Analyzed: 02/21/22 10:24									
<u>QC Source Sample: Non-SDG (A2B0557-01)</u>												
% Solids	80.6	---	1.00	%	1	---	80.4	---	---	0.3	10%	
Duplicate (22B0713-DUP2)			Prepared: 02/18/22 10:52 Analyzed: 02/21/22 10:24									
<u>QC Source Sample: Non-SDG (A2B0557-02)</u>												
% Solids	80.9	---	1.00	%	1	---	80.6	---	---	0.4	10%	
Duplicate (22B0713-DUP3)			Prepared: 02/18/22 10:52 Analyzed: 02/21/22 10:24									
<u>QC Source Sample: Non-SDG (A2B0557-03)</u>												
% Solids	77.5	---	1.00	%	1	---	77.6	---	---	0.06	10%	
Duplicate (22B0713-DUP4)			Prepared: 02/18/22 10:52 Analyzed: 02/21/22 10:24									
<u>QC Source Sample: Non-SDG (A2B0557-04)</u>												
% Solids	77.9	---	1.00	%	1	---	77.6	---	---	0.4	10%	
Duplicate (22B0713-DUP5)			Prepared: 02/18/22 10:52 Analyzed: 02/21/22 10:24									
<u>QC Source Sample: Non-SDG (A2B0557-05)</u>												
% Solids	78.6	---	1.00	%	1	---	79.0	---	---	0.5	10%	
Duplicate (22B0713-DUP6)			Prepared: 02/18/22 10:52 Analyzed: 02/21/22 10:24									
<u>QC Source Sample: Non-SDG (A2B0557-06)</u>												
% Solids	81.5	---	1.00	%	1	---	81.1	---	---	0.5	10%	
Duplicate (22B0713-DUP7)			Prepared: 02/18/22 10:52 Analyzed: 02/21/22 10:24									
<u>QC Source Sample: Non-SDG (A2B0557-07)</u>												
% Solids	80.4	---	1.00	%	1	---	79.7	---	---	0.8	10%	
Duplicate (22B0713-DUP8)			Prepared: 02/18/22 10:52 Analyzed: 02/21/22 10:24									
<u>QC Source Sample: Non-SDG (A2B0557-08)</u>												
% Solids	77.2	---	1.00	%	1	---	76.5	---	---	0.9	10%	

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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 22B0713 - Total Solids (Dry Weight)							Soil					
Duplicate (22B0713-DUP9)			Prepared: 02/18/22 10:52 Analyzed: 02/21/22 10:24									
<u>QC Source Sample: Non-SDG (A2B0557-09)</u>												
% Solids	77.2	---	1.00	%	1	---	77.4	---	---	0.3	10%	
Duplicate (22B0713-DUPA)			Prepared: 02/18/22 10:52 Analyzed: 02/21/22 10:24									
<u>QC Source Sample: Non-SDG (A2B0557-10)</u>												
% Solids	76.8	---	1.00	%	1	---	76.7	---	---	0.2	10%	
Duplicate (22B0713-DUPB)			Prepared: 02/18/22 10:52 Analyzed: 02/21/22 10:24									
<u>QC Source Sample: Non-SDG (A2B0557-11)</u>												
% Solids	79.0	---	1.00	%	1	---	78.9	---	---	0.1	10%	
Duplicate (22B0713-DUPC)			Prepared: 02/18/22 10:52 Analyzed: 02/21/22 10:24									
<u>QC Source Sample: Non-SDG (A2B0557-12)</u>												
% Solids	78.5	---	1.00	%	1	---	77.7	---	---	1	10%	
Duplicate (22B0713-DUPD)			Prepared: 02/18/22 19:10 Analyzed: 02/21/22 10:24									
<u>QC Source Sample: Non-SDG (A2B0665-03)</u>												
% Solids	93.3	---	1.00	%	1	---	93.7	---	---	0.4	10%	
Duplicate (22B0713-DUPE)			Prepared: 02/18/22 19:10 Analyzed: 02/21/22 10:24									
<u>QC Source Sample: Non-SDG (A2B0665-04)</u>												
% Solids	93.4	---	1.00	%	1	---	93.6	---	---	0.2	10%	
Duplicate (22B0713-DUPF)			Prepared: 02/18/22 19:10 Analyzed: 02/21/22 10:24									
<u>QC Source Sample: Non-SDG (A2B0665-05)</u>												
% Solids	93.7	---	1.00	%	1	---	93.9	---	---	0.2	10%	

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

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Weck Laboratories, Inc.

QUALITY CONTROL (QC) SAMPLE RESULTS

Chlorinated Herbicides by GC/ECD

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch W2B1416 - EPA 3550/Sonication						Solid						
Blank (W2B1416-BLK1)						Prepared: 02/22/22 09:22 Analyzed: 03/08/22 20:50						
EPA 8151A												
2,4-D	ND	---	0.040	mg/kg wet	1	---	---	---	---	---	---	
2,4-DB	ND	---	0.080	mg/kg wet	1	---	---	---	---	---	---	
2,4,5-T	ND	---	0.020	mg/kg wet	1	---	---	---	---	---	---	
2,4,5-TP (Silvex)	ND	---	0.020	mg/kg wet	1	---	---	---	---	---	---	
Dalapon	ND	---	0.040	mg/kg wet	1	---	---	---	---	---	---	
Dicamba	ND	---	0.040	mg/kg wet	1	---	---	---	---	---	---	
Dichloroprop	ND	---	0.040	mg/kg wet	1	---	---	---	---	---	---	
Dinoseb	ND	---	0.020	mg/kg wet	1	---	---	---	---	---	---	
MCPA	ND	---	4.0	mg/kg wet	1	---	---	---	---	---	---	
MCPP	ND	---	4.0	mg/kg wet	1	---	---	---	---	---	---	
Pentachlorophenol	ND	---	0.020	mg/kg wet	1	---	---	---	---	---	---	
Picloram	ND	---	0.020	mg/kg wet	1	---	---	---	---	---	---	
<i>Surr: 2,4-DCAA</i>		<i>Recovery: 65 %</i>		<i>Limits: 13-119 %</i>		<i>Dilution: 1x</i>						

LCS (W2B1416-BS1)						Prepared: 02/22/22 09:22 Analyzed: 03/08/22 21:21						
EPA 8151A												
2,4-D	0.0599	---	0.040	mg/kg wet	1	0.100	---	60	53-130%	---	---	
2,4-DB	0.104	---	0.080	mg/kg wet	1	0.200	---	52	28-119%	---	---	
2,4,5-T	0.0308	---	0.020	mg/kg wet	1	0.0500	---	62	40-108%	---	---	
2,4,5-TP (Silvex)	0.0339	---	0.020	mg/kg wet	1	0.0500	---	68	38-108%	---	---	
Dalapon	0.0544	---	0.040	mg/kg wet	1	0.100	---	54	17-122%	---	---	
Dicamba	0.0675	---	0.040	mg/kg wet	1	0.100	---	68	48-107%	---	---	
Dichloroprop	0.0638	---	0.040	mg/kg wet	1	0.100	---	64	45-117%	---	---	
Dinoseb	ND	---	0.020	mg/kg wet	1	0.0500	---	17	0.1-83%	---	---	
MCPA	5.29	---	4.0	mg/kg wet	1	10.0	---	53	33-107%	---	---	
MCPP	5.90	---	4.0	mg/kg wet	1	10.0	---	59	34-117%	---	---	
Pentachlorophenol	0.0258	---	0.020	mg/kg wet	1	0.0500	---	52	40-102%	---	---	
Picloram	0.0343	---	0.020	mg/kg wet	1	0.0500	---	69	22-139%	---	---	
<i>Surr: 2,4-DCAA</i>		<i>Recovery: 78 %</i>		<i>Limits: 13-119 %</i>		<i>Dilution: 1x</i>						

Matrix Spike (W2B1416-MS1)						Prepared: 02/22/22 09:22 Analyzed: 03/08/22 21:53						
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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpine Environmental Consultants 12208 Antioch Road White City, OR 97503	Project: Lozier Phase II Project Number: AEC2022-04 Project Manager: Jonathan Williams	Report ID: A2B0559 - 03 15 22 0522
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Weck Laboratories, Inc.

QUALITY CONTROL (QC) SAMPLE RESULTS

Chlorinated Herbicides by GC/ECD

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch W2B1416 - EPA 3550/Sonication						Solid						
Matrix Spike (W2B1416-MS1)						Prepared: 02/22/22 09:22 Analyzed: 03/08/22 21:53						
QC Source Sample: Non-SDG (2B18049-01)												
EPA 8151A												
2,4-D	ND	---	0.34	mg/kg dry	2	0.429	ND	65	21-126%	---	---	M-02, M-04
2,4-DB	0.829	---	0.69	mg/kg dry	2	0.859	ND	97	13-133%	---	---	M-02, M-04
2,4,5-T	ND	---	0.17	mg/kg dry	2	0.215	ND	59	17-123%	---	---	M-02, M-04
2,4,5-TP (Silvex)	ND	---	0.17	mg/kg dry	2	0.215	ND	65	15-126%	---	---	M-02, M-04
Dalapon	ND	---	0.34	mg/kg dry	2	0.429	ND	49	9.6-101%	---	---	M-02, M-04
Dicamba	ND	---	0.34	mg/kg dry	2	0.429	ND	59	11-107%	---	---	M-02, M-04
Dichloroprop	ND	---	0.34	mg/kg dry	2	0.429	ND	64	44-133%	---	---	M-02, M-04
Dinoseb	ND	---	0.17	mg/kg dry	2	0.215	ND	54	0.1-72%	---	---	M-02, M-04
MCPA	ND	---	34	mg/kg dry	2	42.9	ND	34	23-123%	---	---	M-02, M-04
MCPP	ND	---	34	mg/kg dry	2	42.9	ND	47	24-120%	---	---	M-02, M-04
Pentachlorophenol	ND	---	0.17	mg/kg dry	2	0.215	ND	51	10-103%	---	---	M-02, M-04
Picloram	ND	---	0.17	mg/kg dry	2	0.215	ND	64	17-155%	---	---	M-02, M-04
<i>Surr: 2,4-DCAA</i>		<i>Recovery: 84 %</i>		<i>Limits: 13-119 %</i>		<i>Dilution: 2x</i>						

Matrix Spike Dup (W2B1416-MSD1)						Prepared: 02/22/22 09:22 Analyzed: 03/08/22 22:24						
QC Source Sample: Non-SDG (2B18049-01)												
2,4-D	ND	---	0.35	mg/kg dry	2	0.431	ND	68	21-126%	5	25%	M-02, M-04
2,4-DB	0.971	---	0.69	mg/kg dry	2	0.863	ND	113	13-133%	16	25%	M-02, M-04
2,4,5-T	ND	---	0.17	mg/kg dry	2	0.216	ND	59	17-123%	0.9	25%	M-02, M-04
2,4,5-TP (Silvex)	ND	---	0.17	mg/kg dry	2	0.216	ND	63	15-126%	1	25%	M-02, M-04
Dalapon	ND	---	0.35	mg/kg dry	2	0.431	ND	52	9.6-101%	8	25%	M-02, M-04
Dicamba	ND	---	0.35	mg/kg dry	2	0.431	ND	64	11-107%	8	25%	M-02, M-04
Dichloroprop	ND	---	0.35	mg/kg dry	2	0.431	ND	65	44-133%	1	25%	M-02, M-04
Dinoseb	ND	---	0.17	mg/kg dry	2	0.216	ND	59	0.1-72%	9	25%	M-02, M-04
MCPA	ND	---	35	mg/kg dry	2	43.1	ND	32	23-123%	8	25%	M-02, M-04
MCPP	ND	---	35	mg/kg dry	2	43.1	ND	52	24-120%	11	25%	M-02, M-04
Pentachlorophenol	ND	---	0.17	mg/kg dry	2	0.216	ND	49	10-103%	5	25%	M-02, M-04
Picloram	ND	---	0.17	mg/kg dry	2	0.216	ND	69	17-155%	7	25%	M-02, M-04
<i>Surr: 2,4-DCAA</i>		<i>Recovery: 86 %</i>		<i>Limits: 13-119 %</i>		<i>Dilution: 2x</i>						

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

Alpine Environmental Consultants 12208 Antioch Road White City, OR 97503	Project: Lozier Phase II Project Number: AEC2022-04 Project Manager: Jonathan Williams	Report ID: A2B0559 - 03 15 22 0522
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Weck Laboratories, Inc.

QUALITY CONTROL (QC) SAMPLE RESULTS

Chlorinated Herbicides by GC/ECD

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch W2B1416 - EPA 3550/Sonication							Solid					

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Weck Laboratories, Inc.

QUALITY CONTROL (QC) SAMPLE RESULTS

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch W2B1440 - _NONE (METALS)						Solid						
Duplicate (W2B1440-DUP1)						Prepared: 02/22/22 13:00 Analyzed: 02/23/22 11:53						
QC Source Sample: Non-SDG (2B22042-02)												
% Solids	97.8	---	0.100	% by Weight	1	---	97.7	---	---	0.1	20%	

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Alpine Environmental Consultants 12208 Antioch Road White City, OR 97503	Project: Lozier Phase II Project Number: AEC2022-04 Project Manager: Jonathan Williams	Report ID: A2B0559 - 03 15 22 0522
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SAMPLE PREPARATION INFORMATION

Organochlorine Pesticides by EPA 8081B

Prep: EPA 3546/3640A (GPC)					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22B0965</u>							
A2B0559-20RE1	Soil	EPA 8081B	02/11/22 10:30	02/18/22 15:22	10.55g/10mL	10g/5mL	1.90

Organophosphorous Pesticides (OPPs) by EPA 8270E (GC/MS)

Prep: EPA 3546					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22B0972</u>							
A2B0559-20RE1	Soil	EPA 8270E OPPs	02/11/22 10:30	02/28/22 07:30	10.91g/5mL	10g/5mL	0.92

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3051A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
<u>Batch: 22B1002</u>							
A2B0559-01	Soil	EPA 6020B	02/11/22 08:10	02/28/22 14:51	0.478g/50mL	0.5g/50mL	1.05
A2B0559-02	Soil	EPA 6020B	02/11/22 08:12	02/28/22 14:51	0.477g/50mL	0.5g/50mL	1.05
A2B0559-03	Soil	EPA 6020B	02/11/22 08:14	02/28/22 14:51	0.49g/50mL	0.5g/50mL	1.02
A2B0559-04	Soil	EPA 6020B	02/11/22 08:16	02/28/22 14:51	0.508g/50mL	0.5g/50mL	0.98
A2B0559-05	Soil	EPA 6020B	02/11/22 09:50	02/28/22 14:51	0.519g/50mL	0.5g/50mL	0.96
A2B0559-06	Soil	EPA 6020B	02/11/22 09:52	02/28/22 14:51	0.503g/50mL	0.5g/50mL	0.99
A2B0559-07	Soil	EPA 6020B	02/11/22 09:54	02/28/22 14:51	0.469g/50mL	0.5g/50mL	1.07
A2B0559-08	Soil	EPA 6020B	02/11/22 09:56	02/28/22 14:51	0.488g/50mL	0.5g/50mL	1.02
A2B0559-09	Soil	EPA 6020B	02/11/22 09:58	02/28/22 14:51	0.48g/50mL	0.5g/50mL	1.04
A2B0559-10	Soil	EPA 6020B	02/11/22 09:20	02/28/22 14:51	0.51g/50mL	0.5g/50mL	0.98
A2B0559-11	Soil	EPA 6020B	02/11/22 09:22	02/28/22 14:51	0.514g/50mL	0.5g/50mL	0.97
A2B0559-12	Soil	EPA 6020B	02/11/22 09:24	02/28/22 14:51	0.514g/50mL	0.5g/50mL	0.97
A2B0559-13	Soil	EPA 6020B	02/11/22 09:26	02/28/22 14:51	0.474g/50mL	0.5g/50mL	1.05
A2B0559-14	Soil	EPA 6020B	02/11/22 09:28	02/28/22 14:51	0.482g/50mL	0.5g/50mL	1.04
A2B0559-15	Soil	EPA 6020B	02/11/22 08:40	02/28/22 14:51	0.495g/50mL	0.5g/50mL	1.01
A2B0559-16	Soil	EPA 6020B	02/11/22 08:42	02/28/22 14:51	0.517g/50mL	0.5g/50mL	0.97
A2B0559-17	Soil	EPA 6020B	02/11/22 08:44	02/28/22 14:51	0.499g/50mL	0.5g/50mL	1.00
A2B0559-18	Soil	EPA 6020B	02/11/22 08:46	02/28/22 14:51	0.503g/50mL	0.5g/50mL	0.99
<u>Batch: 22C0035</u>							
A2B0559-19	Soil	EPA 6020B	02/11/22 08:48	03/01/22 13:02	0.464g/50mL	0.5g/50mL	1.08
A2B0559-20	Soil	EPA 6020B	02/11/22 10:30	03/01/22 13:02	0.475g/50mL	0.5g/50mL	1.05

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ANALYTICAL REPORT

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

Alpine Environmental Consultants
12208 Antioch Road
White City, OR 97503
Project: Lozier Phase II
Project Number: AEC2022-04
Project Manager: Jonathan Williams
Report ID: A2B0559 - 03 15 22 0522

SAMPLE PREPARATION INFORMATION

Percent Dry Weight

Table with columns: Lab Number, Matrix, Method, Sampled, Prepared, Sample Initial/Final, Default Initial/Final, RL Prep Factor. Includes a header row and 20 data rows for samples A2B0559-01 to A2B0559-20.

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Alpine Environmental Consultants 12208 Antioch Road White City, OR 97503	Project: Lozier Phase II Project Number: AEC2022-04 Project Manager: Jonathan Williams	Report ID: A2B0559 - 03 15 22 0522
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SAMPLE PREPARATION INFORMATION

Chlorinated Herbicides by GC/ECD

<u>Prep: EPA 3550/Sonication</u>						Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor	
<u>Batch: W2B1416</u>								
A2B0559-20	Soil	EPA 8151A	02/11/22 10:30	02/22/22 09:22	8.69g/10ml	30g/10ml	3.45	

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

<u>Prep: NONE (METALS)</u>						Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor	
<u>Batch: W2B1440</u>								
A2B0559-20	Soil	EPA 160.3M	02/11/22 10:30	02/22/22 13:00	1g/1ml	1g/1ml	NA	

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QUALIFIER DEFINITIONS

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

Apex Laboratories

- A-01** Serial dilution was performed and passes acceptance criteria. Data are acceptable.
- C-05** Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.
- H-02** This sample was extracted outside of the recommended holding time.
- P-11** Result estimated. Secondary column confirmation does not meet method criteria due to matrix interference.
- PRO** Sample has undergone sample processing prior to extraction and analysis.
- Q-01** Spike recovery and/or RPD is outside acceptance limits.
- Q-04** Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-05** Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- Q-17** RPD between original and duplicate sample is outside of established control limits.
- Q-31** Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
- Q-42** Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)

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- M-02** Due to the nature of matrix interferences, sample was diluted prior to preparation. The MDL and MRL were raised due to the dilution.
- M-04** Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution.

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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) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

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

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

Table with 3 columns: Client (Alpine Environmental Consultants), Project (Lozier Phase II), and Report ID (A2B0559 - 03 15 22 0522).

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.

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ANALYTICAL REPORT

Apex Laboratories, LLC

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

Table with 3 columns: Alpine Environmental Consultants (12208 Antioch Road, White City, OR 97503), Project: Lozier Phase II (Project Number: AEC2022-04, Project Manager: Jonathan Williams), Report ID: A2B0559 - 03 15 22 0522

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:

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Table with 6 columns: 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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Alpine Environmental Consultants 12208 Antioch Road White City, OR 97503	Project: Lozier Phase II Project Number: AEC2022-04 Project Manager: Jonathan Williams	Report ID: A2B0559 - 03 15 22 0522
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APEX LABS COOLER RECEIPT FORM

Client: AEC, LLC Element WO#: A2 B0559

Project/Project #: Lozier Phase II / AEC2022-04

Delivery Info:
 Date/time received: 2/16/22 @ 1042 By: [Signature]
 Delivered by: Apex Client ESS FedEx UPS Swift Senvoy SDS Other

Cooler Inspection Date/time inspected: 2/16/22 @ 1042 By: [Signature]
 Chain of Custody included? Yes No Custody seals? Yes No
 Signed/dated by client? Yes No
 Signed/dated by Apex? Yes No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>38</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>Y</u>						
Ice type: (Gel/Real/Other)	<u>real</u>						
Condition:	<u>good</u>						

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: 2/16/22 @ 1322 By: HAS
 All samples intact? Yes No Comments: _____

 Bottle labels/COCs agree? Yes No Comments: _____

 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
 Comments: _____

Additional information:

 Tracking # 2895 7659 8043
 Labeled by: HAS Witness: [Signature] Cooler Inspected by: HAS

Apex Laboratories

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

Darwin Thomas

Darwin Thomas, Business Development Director

Work Orders: 2B18053

Report Date: 3/11/2022

Project: A2B0559

Received Date: 2/18/2022

Turnaround Time: 6 workdays

Phones: (503) 718-2323

Fax: (503) 718-0333

P.O. #:

Billing Code:

Attn: Darwin Thomas

Client: Apex Laboratories
6700 SW Sandburg St.
Tigard, OR 97223

Dear Darwin Thomas,

Enclosed are the results of analyses for samples received 2/18/22 with the Chain-of-Custody document. The samples were received in good condition, at 4.3 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Sample Results

Sample: A2B0559-20
2B18053-01 (Solid)

Sampled: 02/11/22 10:30 by Client

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 160.3M		Instr: BAL04				
Batch ID: W2B1440	Preparation: _NONE (METALS)	Prepared: 02/22/22 13:00				Analyst: ibs
% Solids	83.1	0.100	% by Weight	1	02/23/22	
Method: EPA 8151A		Instr: GC08				
Batch ID: W2B1416	Preparation: EPA 3550/Sonication	Prepared: 02/22/22 09:22				Analyst: rjg
2,4,5-T	ND	0.17	mg/kg dry	2	03/09/22	M-02, M-04
2,4,5-TP (Silvex)	ND	0.17	mg/kg dry	2	03/09/22	M-02, M-04
2,4-D	ND	0.33	mg/kg dry	2	03/09/22	M-02, M-04
2,4-DB	ND	0.66	mg/kg dry	2	03/09/22	M-02, M-04
Dalapon	ND	0.33	mg/kg dry	2	03/09/22	M-02, M-04
Dicamba	ND	0.33	mg/kg dry	2	03/09/22	M-02, M-04
Dichloroprop	ND	0.33	mg/kg dry	2	03/09/22	M-02, M-04
Dinoseb	ND	0.17	mg/kg dry	2	03/09/22	M-02, M-04
MCPA	ND	33	mg/kg dry	2	03/09/22	M-02, M-04
MCPP	ND	33	mg/kg dry	2	03/09/22	M-02, M-04
Pentachlorophenol	ND	0.17	mg/kg dry	2	03/09/22	M-02, M-04
Picloram	ND	0.17	mg/kg dry	2	03/09/22	M-02, M-04

Surrogate(s)

Sample Results

(Continued)

Sample: A2B0559-20
2B18053-01 (Solid)

Sampled: 02/11/22 10:30 by Client
(Continued)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 8151A		Instr: GC08				
Batch ID: W2B1416	Preparation: EPA 3550/Sonication	Prepared: 02/22/22 09:22		Analyst: rjg		
2,4-DCAA	64%	13-119	Conc: 1.76	03/09/22		

Quality Control Results

Chlorinated Herbicides by GC/ECD

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Qualifier
Batch: W2B1416 - EPA 3550/Sonication										
Blank (W2B1416-BLK1)			Prepared: 02/22/22 Analyzed: 03/08/22							
2,4,5-T	ND	0.020	mg/kg wet							
2,4,5-TP (Silvex)	ND	0.020	mg/kg wet							
2,4-D	ND	0.040	mg/kg wet							
2,4-DB	ND	0.080	mg/kg wet							
Dalapon	ND	0.040	mg/kg wet							
Dicamba	ND	0.040	mg/kg wet							
Dichloroprop	ND	0.040	mg/kg wet							
Dinoseb	ND	0.020	mg/kg wet							
MCPA	ND	4.0	mg/kg wet							
MCPP	ND	4.0	mg/kg wet							
Pentachlorophenol	ND	0.020	mg/kg wet							
Picloram	ND	0.020	mg/kg wet							
<i>Surrogate(s)</i>										
2,4-DCAA	0.435		mg/kg wet	0.667		65	13-119			
LCS (W2B1416-BS1)			Prepared: 02/22/22 Analyzed: 03/08/22							
2,4,5-T	0.0308	0.020	mg/kg wet	0.0500		62	40-108			
2,4,5-TP (Silvex)	0.0339	0.020	mg/kg wet	0.0500		68	38-108			
2,4-D	0.0599	0.040	mg/kg wet	0.100		60	53-130			
2,4-DB	0.104	0.080	mg/kg wet	0.200		52	28-119			
Dalapon	0.0544	0.040	mg/kg wet	0.100		54	17-122			
Dicamba	0.0675	0.040	mg/kg wet	0.100		68	48-107			
Dichloroprop	0.0638	0.040	mg/kg wet	0.100		64	45-117			
Dinoseb	0.00863	0.020	mg/kg wet	0.0500		17	0.1-83			
MCPA	5.29	4.0	mg/kg wet	10.0		53	33-107			
MCPP	5.90	4.0	mg/kg wet	10.0		59	34-117			
Pentachlorophenol	0.0258	0.020	mg/kg wet	0.0500		52	40-102			
Picloram	0.0343	0.020	mg/kg wet	0.0500		69	22-139			
<i>Surrogate(s)</i>										
2,4-DCAA	0.521		mg/kg wet	0.667		78	13-119			
Matrix Spike (W2B1416-MS1)			Source: 2B18049-01		Prepared: 02/22/22 Analyzed: 03/08/22					
2,4,5-T	0.126	0.17	mg/kg dry	0.215	ND	59	17-123			M-02, M-04
2,4,5-TP (Silvex)	0.139	0.17	mg/kg dry	0.215	ND	65	15-126			M-02, M-04
2,4-D	0.279	0.34	mg/kg dry	0.429	ND	65	21-126			M-02, M-04
2,4-DB	0.829	0.69	mg/kg dry	0.859	ND	97	13-133			M-02, M-04
Dalapon	0.209	0.34	mg/kg dry	0.429	ND	49	9.6-101			M-02, M-04
Dicamba	0.255	0.34	mg/kg dry	0.429	ND	59	11-107			M-02, M-04
Dichloroprop	0.277	0.34	mg/kg dry	0.429	ND	64	44-133			M-02, M-04
Dinoseb	0.116	0.17	mg/kg dry	0.215	ND	54	0.1-72			M-02, M-04
MCPA	14.7	34	mg/kg dry	42.9	ND	34	23-123			M-02, M-04
MCPP	20.2	34	mg/kg dry	42.9	ND	47	24-120			M-02, M-04
Pentachlorophenol	0.111	0.17	mg/kg dry	0.215	ND	51	10-103			M-02, M-04
Picloram	0.138	0.17	mg/kg dry	0.215	ND	64	17-155			M-02, M-04
<i>Surrogate(s)</i>										

Quality Control Results

(Continued)

Chlorinated Herbicides by GC/ECD (Continued)

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2B1416 - EPA 3550/Sonication (Continued)										
Matrix Spike (W2B1416-MS1)		Source: 2B18049-01			Prepared: 02/22/22 Analyzed: 03/08/22					
<i>Surrogate(s)</i>										
2,4-DCAA	2.41		mg/kg dry	2.86		84	13-119			
Matrix Spike Dup (W2B1416-MSD1)		Source: 2B18049-01			Prepared: 02/22/22 Analyzed: 03/08/22					
2,4,5-T	0.127	0.17	mg/kg dry	0.216	ND	59	17-123	0.9	25	M-02, M-04
2,4,5-TP (Silvex)	0.137	0.17	mg/kg dry	0.216	ND	63	15-126	1	25	M-02, M-04
2,4-D	0.293	0.35	mg/kg dry	0.431	ND	68	21-126	5	25	M-02, M-04
2,4-DB	0.971	0.69	mg/kg dry	0.863	ND	113	13-133	16	25	M-02, M-04
Dalapon	0.226	0.35	mg/kg dry	0.431	ND	52	9.6-101	8	25	M-02, M-04
Dicamba	0.276	0.35	mg/kg dry	0.431	ND	64	11-107	8	25	M-02, M-04
Dichloroprop	0.280	0.35	mg/kg dry	0.431	ND	65	44-133	1	25	M-02, M-04
Dinoseb	0.128	0.17	mg/kg dry	0.216	ND	59	0.1-72	9	25	M-02, M-04
MCPA	13.6	35	mg/kg dry	43.1	ND	32	23-123	8	25	M-02, M-04
MCPP	22.4	35	mg/kg dry	43.1	ND	52	24-120	11	25	M-02, M-04
Pentachlorophenol	0.106	0.17	mg/kg dry	0.216	ND	49	10-103	5	25	M-02, M-04
Picloram	0.148	0.17	mg/kg dry	0.216	ND	69	17-155	7	25	M-02, M-04
<i>Surrogate(s)</i>										
2,4-DCAA	2.47		mg/kg dry	2.88		86	13-119			

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: W2B1440 - _NONE (METALS)										
Duplicate (W2B1440-DUP1)		Source: 2B22042-02			Prepared: 02/22/22 Analyzed: 02/23/22					
% Solids	97.8	0.100	% by Weight		97.7			0.1	20	

Notes and Definitions

Item	Definition
M-02	Due to the nature of matrix interferences, sample was diluted prior to preparation. The MDL and MRL were raised due to the dilution.
M-04	Due to the nature of matrix interferences, sample extract was diluted prior to analysis. The MDL and MRL were raised due to the dilution.
%REC	Percent Recovery
Dil	Dilution
dry	Sample results reported on a dry weight basis
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Analyses Accreditation Summary

Analyte	CAS #	Not By NELAP	ANAB ISO 17025
EPA 160.3M in Solid % Solids		✓	

Reviewed by:



Erika C. Alvarenga
PM Assistant



ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • LACSD #10143 • NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.



August 31, 2022

Service Request No:K2209383

Jonathan Williams
Alpine Environmental Consultants, LLC
12210 Antioch Road
White City, OR 97503

Laboratory Results for: Lozier Lane Supplemental Phase II

Dear Jonathan,

Enclosed are the results of the sample(s) submitted to our laboratory August 16, 2022
For your reference, these analyses have been assigned our service request number **K2209383**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3364. You may also contact me via email at howard.holmes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Howard Holmes
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
PHONE +1 360 577 7222 | FAX +1 360 636 1068
ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com



Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209383
Date Received: 08/16/2022

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Twenty soil samples were received for analysis at ALS Environmental on 08/16/2022. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

Approved by 

Date 08/31/2022



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: TP9-0-6	Lab ID: K2209383-001
---------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	4.39		0.05	0.38	mg/Kg	6020A
Lead	6.50		0.015	0.038	mg/Kg	6020A
Solids, Total	96.3				Percent	160.3 Modified

CLIENT ID: TP9-6-12	Lab ID: K2209383-002
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	4.35		0.05	0.42	mg/Kg	6020A
Lead	3.76		0.017	0.042	mg/Kg	6020A
Solids, Total	95.4				Percent	160.3 Modified

CLIENT ID: TP9-12-18	Lab ID: K2209383-003
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	4.83		0.06	0.47	mg/Kg	6020A
Lead	4.20		0.019	0.047	mg/Kg	6020A
Solids, Total	95.6				Percent	160.3 Modified

CLIENT ID: TP9-18-24	Lab ID: K2209383-004
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	4.16		0.05	0.44	mg/Kg	6020A
Lead	3.92		0.018	0.044	mg/Kg	6020A
Solids, Total	95.0				Percent	160.3 Modified

CLIENT ID: TP9-24-36	Lab ID: K2209383-005
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	6.47		0.06	0.49	mg/Kg	6020A
Lead	3.99		0.020	0.049	mg/Kg	6020A
Solids, Total	94.9				Percent	160.3 Modified

CLIENT ID: TP10-0-6	Lab ID: K2209383-006
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	6.43		0.04	0.36	mg/Kg	6020A
Lead	28.1		0.014	0.036	mg/Kg	6020A
Solids, Total	96.2				Percent	160.3 Modified

CLIENT ID: TP10-6-12	Lab ID: K2209383-007
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	5.71		0.06	0.47	mg/Kg	6020A
Lead	10.7		0.019	0.047	mg/Kg	6020A
Solids, Total	97.2				Percent	160.3 Modified

CLIENT ID: TP10-12-18	Lab ID: K2209383-008
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	5.44		0.05	0.41	mg/Kg	6020A
Lead	4.70		0.016	0.041	mg/Kg	6020A



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: TP10-12-18	Lab ID: K2209383-008
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Analyte	Results	Flag	MDL	MRL	Units	Method
Solids, Total	96.9				Percent	160.3 Modified

CLIENT ID: TP10-18-24	Lab ID: K2209383-009
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	6.68		0.04	0.36	mg/Kg	6020A
Lead	3.85		0.014	0.036	mg/Kg	6020A
Solids, Total	96.0				Percent	160.3 Modified

CLIENT ID: TP10-24-36	Lab ID: K2209383-010
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	5.96		0.06	0.51	mg/Kg	6020A
Lead	4.14		0.020	0.051	mg/Kg	6020A
Solids, Total	96.4				Percent	160.3 Modified

CLIENT ID: TP11-0-6	Lab ID: K2209383-011
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	4.50		0.06	0.50	mg/Kg	6020A
Lead	20.6		0.020	0.050	mg/Kg	6020A
Solids, Total	93.3				Percent	160.3 Modified

CLIENT ID: TP11-6-12	Lab ID: K2209383-012
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	4.45		0.05	0.45	mg/Kg	6020A
Lead	22.8		0.018	0.045	mg/Kg	6020A
Solids, Total	93.8				Percent	160.3 Modified

CLIENT ID: TP11-12-18	Lab ID: K2209383-013
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	4.19		0.05	0.40	mg/Kg	6020A
Lead	11.9		0.016	0.040	mg/Kg	6020A
Solids, Total	94.2				Percent	160.3 Modified

CLIENT ID: TP11-18-24	Lab ID: K2209383-014
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	4.80		0.06	0.50	mg/Kg	6020A
Lead	4.91		0.020	0.050	mg/Kg	6020A
Solids, Total	93.8				Percent	160.3 Modified

CLIENT ID: TP11-24-36	Lab ID: K2209383-015
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	5.09		0.06	0.50	mg/Kg	6020A
Lead	4.71		0.020	0.050	mg/Kg	6020A
Solids, Total	92.8				Percent	160.3 Modified



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: TP12-0-6	Lab ID: K2209383-016
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	8.04		0.04	0.35	mg/Kg	6020A
Lead	15.5		0.014	0.035	mg/Kg	6020A
Solids, Total	94.8				Percent	160.3 Modified

CLIENT ID: TP12-6-12	Lab ID: K2209383-017
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	10.1		0.06	0.46	mg/Kg	6020A
Lead	76.2		0.019	0.046	mg/Kg	6020A
Solids, Total	95.1				Percent	160.3 Modified

CLIENT ID: TP12-12-18	Lab ID: K2209383-018
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	7.12		0.05	0.45	mg/Kg	6020A
Lead	42.7		0.018	0.045	mg/Kg	6020A
Solids, Total	92.5				Percent	160.3 Modified

CLIENT ID: TP12-18-24	Lab ID: K2209383-019
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	5.63		0.06	0.51	mg/Kg	6020A
Lead	6.68		0.020	0.051	mg/Kg	6020A
Solids, Total	91.9				Percent	160.3 Modified

CLIENT ID: TP12-24-36	Lab ID: K2209383-020
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	5.54		0.05	0.44	mg/Kg	6020A
Lead	4.44		0.018	0.044	mg/Kg	6020A
Solids, Total	92.1				Percent	160.3 Modified



Sample Receipt Information

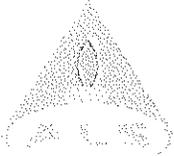
ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II

Service Request:K2209383

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2209383-001	TP9-0-6	8/10/2022	0934
K2209383-002	TP9-6-12	8/10/2022	0933
K2209383-003	TP9-12-18	8/10/2022	0932
K2209383-004	TP9-18-24	8/10/2022	0931
K2209383-005	TP9-24-36	8/10/2022	0930
K2209383-006	TP10-0-6	8/10/2022	1329
K2209383-007	TP10-6-12	8/10/2022	1328
K2209383-008	TP10-12-18	8/10/2022	1327
K2209383-009	TP10-18-24	8/10/2022	1326
K2209383-010	TP10-24-36	8/10/2022	1325
K2209383-011	TP11-0-6	8/10/2022	1354
K2209383-012	TP11-6-12	8/10/2022	1353
K2209383-013	TP11-12-18	8/10/2022	1352
K2209383-014	TP11-18-24	8/10/2022	1351
K2209383-015	TP11-24-36	8/10/2022	1350
K2209383-016	TP12-0-6	8/10/2022	1414
K2209383-017	TP12-6-12	8/10/2022	1413
K2209383-018	TP12-12-18	8/10/2022	1412
K2209383-019	TP12-18-24	8/10/2022	1411
K2209383-020	TP12-24-36	8/10/2022	1410



ALS Environmental
 1317 South 13th Ave
 Kelso, WA 98626
 (Tel) 360.577.7222
 (Fax) 360.636.1068

Chain of Custody Form

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12209383

ALS Project Manager: _____ ALS Work Order #: _____

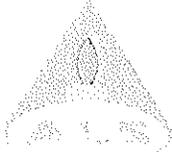
Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order		Project Name	Lozier Lane Supplemental Phase II	A	As and Pb										
Work Order		Project Number		B	Metals (17) - Ag 17										
Company Name	Alpine Env. Consultants, LLC	Bill To Company	Alpine Env. Consultants, LLC	C	Low level Organochlorine Pesticides by USEPA Method 8081B										
Send Report To	Jonathan Williams	Invoice Attn.		D	Organophosphorus pesticides by GC/MS ALS SOP										
Address	12210 Antioch Road	Address		E	Chlorinated herbicides by GC USEPA Method 8151A										
				F											
City/State/Zip	White City, Oregon, 97503	City/State/Zip		G											
Phone	541.944.4685	Phone		H											
Fax		Fax		I											
e-Mail Address	williamsj@alpine-env-llc.com			J											

No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	TP9-0-6	8/10/2022	934	S		1	x										
2	TP9-6-12	8/10/2022	933	S		1	x										
3	TP9-12-18	8/10/2022	932	S		1	x										
4	TP9-18-24	8/10/2022	931	S		1	x										
5	TP9-24-36	8/10/2022	930	S		1	x										
6	TP10-0-6	8/10/2022	1329	S		1	x										
7	TP10-6-12	8/10/2022	1328	S		1	x										
8	TP10-12-18	8/10/2022	1327	S		1	x										
9	TP10-18-24	8/10/2022	1326	S		1	x										
10	TP10-24-36	8/10/2022	1325	S		1	x										

Sampler(s): Please Print & Sign **Toby Shallcross**
 Shipment Method: **FEDEX**
 Required Turnaround Time: (Check Box) 10 Wk Days 5 Wk Days 3 Wk Days 2 Wk Days 24 Hour Other _____
 Results Due Date: _____

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Notes:			
Toby Shallcross			<i>[Signature]</i>	8/10/2022	9:35				
Relinquished by:	Date:	Time:	Received by (Laboratory):	Date:	Time:	ALS Cooler ID	Cooler Temp	QC Package: (Check Box Below)	
<i>[Signature]</i>	8/15/22	1500						<input checked="" type="checkbox"/> Level II: Standard QC	<input type="checkbox"/> Level III: Raw Data
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):					<input type="checkbox"/> TRRP LRC	<input type="checkbox"/> TRRP Level IV
								<input type="checkbox"/> Level IV: SW846 Methods/CLP like	
								<input type="checkbox"/> Other: _____	

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C
 Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS.



ALS Environmental
 1317 South 13th Ave
 Kelso, WA 98626
 (Tel) 360.577.7222
 (Fax) 360.636.1068

Chain of Custody Form

Page 4 of 8

K2209383

Customer Information		Project Information		ALS Project Manager:		ALS Work Order #:	
Purchase Order		Project Name	Lozler Lane Supplemental Phase II	A	As and Pb		
Work Order		Project Number		B	Metals (17) - Ag 17		
Company Name	Alpine Env. Consultants, LLC	Bill To Company	Alpine Env. Consultants, LLC	C	Low level Organochlorine Pesticides by USEPA Method 8081B		
Send Report To	Jonathan Williams	Invoice Attn.		D	Organophosphorus pesticides by GC/MS ALS SOP		
Address	12210 Antioch Road	Address		E	Chlorinated herbicides by GC USEPA Method 8151A		
				F			
City/State/Zip	White City, Oregon, 97503	City/State/Zip		G			
Phone	541.944.4685	Phone		H			
Fax		Fax		I			
e-Mail Address	jwilliams@alpine-env-llc.com			J			

No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	TP11-0-6	8/10/2022	1354	S		1	x										
2	TP11-6-12	8/10/2022	1353	S		1	x										
3	TP11-12-18	8/10/2022	1352	S		1	x										
4	TP11-18-24	8/10/2022	1351	S		1	x										
5	TP11-24-36	8/10/2022	1350	S		1	x										
6	TP12-0-6	8/10/2022	1414	S		1	x										
7	TP12-6-12	8/10/2022	1413	S		1	x										
8	TP12-12-18	8/10/2022	1412	S		1	x										
9	TP12-18-24	8/10/2022	1411	S		1	x										
10	TP12-24-36	8/10/2022	1410	S		1	x										

Sampler(s): Please Print & Sign **Toby Shallcross** Shipment Method: **FEDEX** Required Turnaround Time: (Check Box) 10 Wk Days 5 Wk Days 3 Wk Days 2 Wk Days 24 Hour Other _____ Results Due Date: _____

Relinquished by: Toby Shallcross	Date:	Time:	Received by: <i>[Signature]</i>	Date:	Time:	Notes:
Relinquished by: <i>[Signature]</i>	Date: 8/15/22	Time: 1500	Received by (Laboratory):	Date:	Time:	ALS Cooler ID
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	Date:	Time:	Cooler Temp
						QC Package: (Check Box Below)
						<input checked="" type="checkbox"/> Level II: Standard QC <input type="checkbox"/> Level III: Raw Data
						<input type="checkbox"/> TRRP LRC <input type="checkbox"/> TRRP Level IV
						<input type="checkbox"/> Level IV: SW846 Methods/CLP like
						<input type="checkbox"/> Other: _____

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS.

PM HH

Cooler Receipt and Preservation Form

Client Alpine env. consultants, LLC Service Request K22 09383
Received: 8/16/22 Opened: 8/16/22 By: LM Unloaded: 8/16/22 By: LM

- 1. Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered
- 2. Samples were received in: (circle) Cooler Box Envelope Other _____ NA
- 3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with 'X'	PM Notified If out of temp	Tracking Number NA	Filed
2.5	—	1R02	—	—	—	276814411496	
1.8	—	1R02	—	—	—	2768 1441 1500	

- 4. Was a Temperature Blank present in cooler? NA Y N If yes, note the temperature in the appropriate column above:
If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
- 5. Were samples received within the method specified temperature ranges? NA Y N
If no, were they received on ice and same day as collected? If not, notate the cooler # below and notify the PM. NA Y N

If applicable, tissue samples were received: Frozen Partially Thawed Thawed

- 6. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves _____
- 7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
- 8. Were samples received in good condition (unbroken) NA Y N
- 9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
- 10. Did all sample labels and tags agree with custody papers? NA Y N
- 11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
- 12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N
- 13. Were VOA vials received without headspace? Indicate in the table below. NA Y N
- 14. Was C12/Res negative? NA Y N
- 15. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA Y N Under filled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:
<u>TPH-6-12</u>	<u>TPH-6-12</u>	<u>process of elimination</u>

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: _____



Miscellaneous Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
 - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjllabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II/

Service Request: K2209383

Sample Name: TP9-0-6
Lab Code: K2209383-001
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP9-6-12
Lab Code: K2209383-002
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP9-12-18
Lab Code: K2209383-003
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP9-18-24
Lab Code: K2209383-004
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II/

Service Request: K2209383

Sample Name: TP9-24-36
Lab Code: K2209383-005
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP10-0-6
Lab Code: K2209383-006
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP10-6-12
Lab Code: K2209383-007
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP10-12-18
Lab Code: K2209383-008
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II/

Service Request: K2209383

Sample Name: TP10-18-24
Lab Code: K2209383-009
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP10-24-36
Lab Code: K2209383-010
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP11-0-6
Lab Code: K2209383-011
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP11-6-12
Lab Code: K2209383-012
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II/

Service Request: K2209383

Sample Name: TP11-12-18
Lab Code: K2209383-013
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP11-18-24
Lab Code: K2209383-014
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP11-24-36
Lab Code: K2209383-015
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP12-0-6
Lab Code: K2209383-016
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II/

Service Request: K2209383

Sample Name: TP12-6-12
Lab Code: K2209383-017
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP12-12-18
Lab Code: K2209383-018
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP12-18-24
Lab Code: K2209383-019
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP12-24-36
Lab Code: K2209383-020
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN



Sample Results

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com



Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP9-0-6
Lab Code: K2209383-001

Service Request: K2209383
Date Collected: 08/10/22 09:34
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	4.39	mg/Kg	0.38	0.05	5	08/30/22 13:56	08/23/22	
Lead	6020A	6.50	mg/Kg	0.038	0.015	5	08/30/22 13:56	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP9-6-12
Lab Code: K2209383-002

Service Request: K2209383
Date Collected: 08/10/22 09:33
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	4.35	mg/Kg	0.42	0.05	5	08/30/22 14:03	08/23/22	
Lead	6020A	3.76	mg/Kg	0.042	0.017	5	08/30/22 14:03	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP9-12-18
Lab Code: K2209383-003

Service Request: K2209383
Date Collected: 08/10/22 09:32
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	4.83	mg/Kg	0.47	0.06	5	08/30/22 14:04	08/23/22	
Lead	6020A	4.20	mg/Kg	0.047	0.019	5	08/30/22 14:04	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP9-18-24
Lab Code: K2209383-004

Service Request: K2209383
Date Collected: 08/10/22 09:31
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	4.16	mg/Kg	0.44	0.05	5	08/30/22 14:05	08/23/22	
Lead	6020A	3.92	mg/Kg	0.044	0.018	5	08/30/22 14:05	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP9-24-36
Lab Code: K2209383-005

Service Request: K2209383
Date Collected: 08/10/22 09:30
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	6.47	mg/Kg	0.49	0.06	5	08/30/22 14:09	08/23/22	
Lead	6020A	3.99	mg/Kg	0.049	0.020	5	08/30/22 14:09	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP10-0-6
Lab Code: K2209383-006

Service Request: K2209383
Date Collected: 08/10/22 13:29
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	6.43	mg/Kg	0.36	0.04	5	08/30/22 14:10	08/23/22	
Lead	6020A	28.1	mg/Kg	0.036	0.014	5	08/30/22 14:10	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP10-6-12
Lab Code: K2209383-007

Service Request: K2209383
Date Collected: 08/10/22 13:28
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	5.71	mg/Kg	0.47	0.06	5	08/30/22 14:11	08/23/22	
Lead	6020A	10.7	mg/Kg	0.047	0.019	5	08/30/22 14:11	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP10-12-18
Lab Code: K2209383-008

Service Request: K2209383
Date Collected: 08/10/22 13:27
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	5.44	mg/Kg	0.41	0.05	5	08/30/22 14:13	08/23/22	
Lead	6020A	4.70	mg/Kg	0.041	0.016	5	08/30/22 14:13	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP10-18-24
Lab Code: K2209383-009

Service Request: K2209383
Date Collected: 08/10/22 13:26
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	6.68	mg/Kg	0.36	0.04	5	08/30/22 14:14	08/23/22	
Lead	6020A	3.85	mg/Kg	0.036	0.014	5	08/30/22 14:14	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP10-24-36
Lab Code: K2209383-010

Service Request: K2209383
Date Collected: 08/10/22 13:25
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	5.96	mg/Kg	0.51	0.06	5	08/30/22 14:15	08/23/22	
Lead	6020A	4.14	mg/Kg	0.051	0.020	5	08/30/22 14:15	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP11-0-6
Lab Code: K2209383-011

Service Request: K2209383
Date Collected: 08/10/22 13:54
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	4.50	mg/Kg	0.50	0.06	5	08/30/22 14:16	08/23/22	
Lead	6020A	20.6	mg/Kg	0.050	0.020	5	08/30/22 14:16	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP11-6-12
Lab Code: K2209383-012

Service Request: K2209383
Date Collected: 08/10/22 13:53
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	4.45	mg/Kg	0.45	0.05	5	08/30/22 14:18	08/23/22	
Lead	6020A	22.8	mg/Kg	0.045	0.018	5	08/30/22 14:18	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP11-12-18
Lab Code: K2209383-013

Service Request: K2209383
Date Collected: 08/10/22 13:52
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	4.19	mg/Kg	0.40	0.05	5	08/30/22 14:19	08/23/22	
Lead	6020A	11.9	mg/Kg	0.040	0.016	5	08/30/22 14:19	08/23/22	

ALS Group USA, Corp.
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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP11-18-24
Lab Code: K2209383-014

Service Request: K2209383
Date Collected: 08/10/22 13:51
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	4.80	mg/Kg	0.50	0.06	5	08/30/22 14:20	08/23/22	
Lead	6020A	4.91	mg/Kg	0.050	0.020	5	08/30/22 14:20	08/23/22	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP11-24-36
Lab Code: K2209383-015

Service Request: K2209383
Date Collected: 08/10/22 13:50
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	5.09	mg/Kg	0.50	0.06	5	08/30/22 14:24	08/23/22	
Lead	6020A	4.71	mg/Kg	0.050	0.020	5	08/30/22 14:24	08/23/22	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP12-0-6
Lab Code: K2209383-016

Service Request: K2209383
Date Collected: 08/10/22 14:14
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	8.04	mg/Kg	0.35	0.04	5	08/30/22 14:25	08/23/22	
Lead	6020A	15.5	mg/Kg	0.035	0.014	5	08/30/22 14:25	08/23/22	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP12-6-12
Lab Code: K2209383-017

Service Request: K2209383
Date Collected: 08/10/22 14:13
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	10.1	mg/Kg	0.46	0.06	5	08/30/22 14:26	08/23/22	
Lead	6020A	76.2	mg/Kg	0.046	0.019	5	08/30/22 14:26	08/23/22	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP12-12-18
Lab Code: K2209383-018

Service Request: K2209383
Date Collected: 08/10/22 14:12
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	7.12	mg/Kg	0.45	0.05	5	08/30/22 14:28	08/23/22	
Lead	6020A	42.7	mg/Kg	0.045	0.018	5	08/30/22 14:28	08/23/22	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP12-18-24
Lab Code: K2209383-019

Service Request: K2209383
Date Collected: 08/10/22 14:11
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	5.63	mg/Kg	0.51	0.06	5	08/30/22 14:29	08/23/22	
Lead	6020A	6.68	mg/Kg	0.051	0.020	5	08/30/22 14:29	08/23/22	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP12-24-36
Lab Code: K2209383-020

Service Request: K2209383
Date Collected: 08/10/22 14:10
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	5.54	mg/Kg	0.44	0.05	5	08/30/22 14:30	08/23/22	
Lead	6020A	4.44	mg/Kg	0.044	0.018	5	08/30/22 14:30	08/23/22	



General Chemistry

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP9-0-6
Lab Code: K2209383-001

Service Request: K2209383
Date Collected: 08/10/22 09:34
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	96.3	Percent	-	-	1	08/18/22 14:40	

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dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP9-6-12
Lab Code: K2209383-002

Service Request: K2209383
Date Collected: 08/10/22 09:33
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	95.4	Percent	-	-	1	08/18/22 14:40	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP9-12-18
Lab Code: K2209383-003

Service Request: K2209383
Date Collected: 08/10/22 09:32
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	95.6	Percent	-	-	1	08/18/22 14:40	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP9-18-24
Lab Code: K2209383-004

Service Request: K2209383
Date Collected: 08/10/22 09:31
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	95.0	Percent	-	-	1	08/18/22 14:40	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP9-24-36
Lab Code: K2209383-005

Service Request: K2209383
Date Collected: 08/10/22 09:30
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Solids, Total	160.3 Modified	94.9	Percent	-	-	1	08/18/22 14:40	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP10-0-6
Lab Code: K2209383-006

Service Request: K2209383
Date Collected: 08/10/22 13:29
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	96.2	Percent	-	-	1	08/18/22 14:40	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP10-6-12
Lab Code: K2209383-007

Service Request: K2209383
Date Collected: 08/10/22 13:28
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	97.2	Percent	-	-	1	08/18/22 14:40	

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dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP10-12-18
Lab Code: K2209383-008

Service Request: K2209383
Date Collected: 08/10/22 13:27
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	96.9	Percent	-	-	1	08/18/22 14:40	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP10-18-24
Lab Code: K2209383-009

Service Request: K2209383
Date Collected: 08/10/22 13:26
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	96.0	Percent	-	-	1	08/18/22 14:40	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP10-24-36
Lab Code: K2209383-010

Service Request: K2209383
Date Collected: 08/10/22 13:25
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	96.4	Percent	-	-	1	08/18/22 14:40	

ALS Group USA, Corp.
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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP11-0-6
Lab Code: K2209383-011

Service Request: K2209383
Date Collected: 08/10/22 13:54
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	93.3	Percent	-	-	1	08/18/22 14:40	

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dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP11-6-12
Lab Code: K2209383-012

Service Request: K2209383
Date Collected: 08/10/22 13:53
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	93.8	Percent	-	-	1	08/18/22 14:40	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP11-12-18
Lab Code: K2209383-013

Service Request: K2209383
Date Collected: 08/10/22 13:52
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	94.2	Percent	-	-	1	08/18/22 14:40	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP11-18-24
Lab Code: K2209383-014

Service Request: K2209383
Date Collected: 08/10/22 13:51
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	93.8	Percent	-	-	1	08/18/22 14:40	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP11-24-36
Lab Code: K2209383-015

Service Request: K2209383
Date Collected: 08/10/22 13:50
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Solids, Total	160.3 Modified	92.8	Percent	-	-	1	08/18/22 14:40	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP12-0-6
Lab Code: K2209383-016

Service Request: K2209383
Date Collected: 08/10/22 14:14
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	94.8	Percent	-	-	1	08/18/22 14:40	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP12-6-12
Lab Code: K2209383-017

Service Request: K2209383
Date Collected: 08/10/22 14:13
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	95.1	Percent	-	-	1	08/18/22 14:40	

ALS Group USA, Corp.
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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP12-12-18
Lab Code: K2209383-018

Service Request: K2209383
Date Collected: 08/10/22 14:12
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	92.5	Percent	-	-	1	08/18/22 14:40	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP12-18-24
Lab Code: K2209383-019

Service Request: K2209383
Date Collected: 08/10/22 14:11
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	91.9	Percent	-	-	1	08/18/22 14:40	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP12-24-36
Lab Code: K2209383-020

Service Request: K2209383
Date Collected: 08/10/22 14:10
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	92.1	Percent	-	-	1	08/18/22 14:40	



QC Summary Forms

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Metals

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: Method Blank
Lab Code: KQ2213930-03

Service Request: K2209383
Date Collected: NA
Date Received: NA
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	ND U	mg/Kg	0.5	0.06	5	08/30/22 13:54	08/23/22	
Lead	6020A	ND U	mg/Kg	0.05	0.020	5	08/30/22 13:54	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209383
Date Collected: 08/10/22
Date Received: 08/16/22
Date Analyzed: 08/30/22
Date Extracted: 08/23/22

Matrix Spike Summary
Total Metals

Sample Name: TP9-0-6
Lab Code: K2209383-001
Analysis Method: 6020A
Prep Method: EPA 3050B

Units: mg/Kg
Basis: Dry

Matrix Spike
KQ2213930-02

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	4.39	108	102	102	75-125
Lead	6.50	119	102	111	75-125

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209383
Date Collected: 08/10/22
Date Received: 08/16/22
Date Analyzed: 08/30/22

Replicate Sample Summary
Total Metals

Sample Name: TP9-0-6
Lab Code: K2209383-001

Units: mg/Kg
Basis: Dry

Table with 9 columns: Analyte Name, Analysis Method, MRL, MDL, Sample Result, Duplicate Sample KQ2213930-01 Result, Average, RPD, RPD Limit. Rows include Arsenic and Lead.

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209383
Date Analyzed: 08/30/22

Lab Control Sample Summary
Total Metals

Units:mg/Kg
Basis:Dry

Lab Control Sample
KQ2213930-04

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	6020A	94.9	100	95	80-120
Lead	6020A	102	100	102	80-120



General Chemistry

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209383
Date Collected: 08/10/22
Date Received: 08/16/22
Date Analyzed: 08/18/22

Replicate Sample Summary
Inorganic Parameters

Sample Name: TP9-0-6
Lab Code: K2209383-001

Units: Percent
Basis: As Received

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K2209383-001DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Solids, Total	160.3 Modified	-	96.3	96.1	96.2	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209383
Date Collected: 08/10/22
Date Received: 08/16/22
Date Analyzed: 08/18/22

Replicate Sample Summary

Inorganic Parameters

Sample Name: TP10-24-36
Lab Code: K2209383-010

Units: Percent
Basis: As Received

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K2209383-010DUP Result	Average	RPD	RPD Limit
Solids, Total	160.3 Modified	-	96.4	96.2	96.3	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



August 31, 2022

Service Request No:K2209384

Jonathan Williams
Alpine Environmental Consultants, LLC
12210 Antioch Road
White City, OR 97503

Laboratory Results for: Lozier Lane Supplemental Phase II

Dear Jonathan,

Enclosed are the results of the sample(s) submitted to our laboratory August 16, 2022
For your reference, these analyses have been assigned our service request number **K2209384**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3364. You may also contact me via email at howard.holmes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Howard Holmes
Project Manager

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
PHONE +1 360 577 7222 | FAX +1 360 636 1068
ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com



Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209384
Date Received: 08/16/2022

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Twenty soil samples were received for analysis at ALS Environmental on 08/16/2022. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

Method 6020A, 08/30/2022: The Relative Percent Difference (RPD) for the replicate analysis of Lead in sample TP13-0-6 was outside the normal ALS control limits. The variability in the results was attributed to the heterogeneous character of the sample. Standard mixing techniques were used, but were not sufficient for complete homogenization of this sample.

Approved by 

Date 08/31/2022



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: TP13-0-6	Lab ID: K2209384-001
----------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	8.53		0.06	0.48	mg/Kg	6020A
Lead	15.6		0.019	0.048	mg/Kg	6020A
Solids, Total	95.5				Percent	160.3 Modified

CLIENT ID: TP13-6-12	Lab ID: K2209384-002
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	5.73		0.05	0.40	mg/Kg	6020A
Lead	7.46		0.016	0.040	mg/Kg	6020A
Solids, Total	94.5				Percent	160.3 Modified

CLIENT ID: TP13-12-18	Lab ID: K2209384-003
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Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	7.66		0.04	0.37	mg/Kg	6020A
Lead	4.36		0.015	0.037	mg/Kg	6020A
Solids, Total	91.7				Percent	160.3 Modified

CLIENT ID: TP13-18-24	Lab ID: K2209384-004
------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	7.86		0.06	0.48	mg/Kg	6020A
Lead	4.06		0.019	0.048	mg/Kg	6020A
Solids, Total	90.4				Percent	160.3 Modified

CLIENT ID: TP13-24-36	Lab ID: K2209384-005
------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	10.3		0.06	0.54	mg/Kg	6020A
Lead	3.33		0.021	0.054	mg/Kg	6020A
Solids, Total	91.1				Percent	160.3 Modified

CLIENT ID: TP14-0-6	Lab ID: K2209384-006
----------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	5.36		0.06	0.47	mg/Kg	6020A
Lead	35.2		0.019	0.047	mg/Kg	6020A
Solids, Total	91.1				Percent	160.3 Modified

CLIENT ID: TP14-6-12	Lab ID: K2209384-007
-----------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	4.06		0.06	0.49	mg/Kg	6020A
Lead	195		0.020	0.049	mg/Kg	6020A
Solids, Total	93.7				Percent	160.3 Modified

CLIENT ID: TP14-12-18	Lab ID: K2209384-008
------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	4.84		0.06	0.46	mg/Kg	6020A
Lead	177		0.018	0.046	mg/Kg	6020A



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: TP14-12-18	Lab ID: K2209384-008
------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Solids, Total	94.8				Percent	160.3 Modified

CLIENT ID: TP14-18-24	Lab ID: K2209384-009
------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	5.43		0.06	0.50	mg/Kg	6020A
Lead	29.2		0.020	0.050	mg/Kg	6020A
Solids, Total	94.9				Percent	160.3 Modified

CLIENT ID: TP14-24-36	Lab ID: K2209384-010
------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	5.69		0.05	0.38	mg/Kg	6020A
Lead	12.1		0.015	0.038	mg/Kg	6020A
Solids, Total	94.8				Percent	160.3 Modified

CLIENT ID: TP15-0-6	Lab ID: K2209384-011
----------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	5.04		0.05	0.43	mg/Kg	6020A
Lead	20.9		0.017	0.043	mg/Kg	6020A
Solids, Total	97.4				Percent	160.3 Modified

CLIENT ID: TP15-6-12	Lab ID: K2209384-012
-----------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	6.36		0.05	0.40	mg/Kg	6020A
Lead	33.8		0.016	0.040	mg/Kg	6020A
Solids, Total	91.9				Percent	160.3 Modified

CLIENT ID: TP15-12-18	Lab ID: K2209384-013
------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	5.95		0.05	0.44	mg/Kg	6020A
Lead	51.9		0.018	0.044	mg/Kg	6020A
Solids, Total	94.8				Percent	160.3 Modified

CLIENT ID: TP15-18-24	Lab ID: K2209384-014
------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	4.23		0.05	0.43	mg/Kg	6020A
Lead	6.38		0.017	0.043	mg/Kg	6020A
Solids, Total	95.2				Percent	160.3 Modified

CLIENT ID: TP15-24-36	Lab ID: K2209384-015
------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	4.69		0.05	0.40	mg/Kg	6020A
Lead	4.98		0.016	0.040	mg/Kg	6020A
Solids, Total	94.2				Percent	160.3 Modified



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: TP16-0-6 **Lab ID: K2209384-016**

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	3.13		0.06	0.51	mg/Kg	6020A
Lead	13.0		0.020	0.051	mg/Kg	6020A
Solids, Total	96.1				Percent	160.3 Modified

CLIENT ID: TP16-6-12 **Lab ID: K2209384-017**

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	5.48		0.05	0.43	mg/Kg	6020A
Lead	21.1		0.017	0.043	mg/Kg	6020A
Solids, Total	89.1				Percent	160.3 Modified

CLIENT ID: TP16-12-18 **Lab ID: K2209384-018**

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	7.74		0.05	0.38	mg/Kg	6020A
Lead	26.5		0.015	0.038	mg/Kg	6020A
Solids, Total	88.6				Percent	160.3 Modified

CLIENT ID: TP16-18-24 **Lab ID: K2209384-019**

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	20.7		0.06	0.50	mg/Kg	6020A
Lead	63.2		0.020	0.050	mg/Kg	6020A
Solids, Total	90.3				Percent	160.3 Modified

CLIENT ID: TP16-24-36 **Lab ID: K2209384-020**

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	5.59		0.06	0.52	mg/Kg	6020A
Lead	9.83		0.021	0.052	mg/Kg	6020A
Solids, Total	90.2				Percent	160.3 Modified



Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II

Service Request:K2209384

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2209384-001	TP13-0-6	8/10/2022	0914
K2209384-002	TP13-6-12	8/10/2022	0913
K2209384-003	TP13-12-18	8/10/2022	0912
K2209384-004	TP13-18-24	8/10/2022	0911
K2209384-005	TP13-24-36	8/10/2022	0910
K2209384-006	TP14-0-6	8/10/2022	1004
K2209384-007	TP14-6-12	8/10/2022	1003
K2209384-008	TP14-12-18	8/10/2022	1002
K2209384-009	TP14-18-24	8/10/2022	1001
K2209384-010	TP14-24-36	8/10/2022	1000
K2209384-011	TP15-0-6	8/10/2022	1254
K2209384-012	TP15-6-12	8/10/2022	1253
K2209384-013	TP15-12-18	8/10/2022	1252
K2209384-014	TP15-18-24	8/10/2022	1251
K2209384-015	TP15-24-36	8/10/2022	1250
K2209384-016	TP16-0-6	8/10/2022	1219
K2209384-017	TP16-6-12	8/10/2022	1218
K2209384-018	TP16-12-18	8/10/2022	1217
K2209384-019	TP16-18-24	8/10/2022	1216
K2209384-020	TP16-24-36	8/10/2022	1215



ALS Environmental
 1317 South 13th Ave
 Kelso, WA 98626
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 (Fax) 360.636.1068

Chain of Custody Form

Page 5 of 8

K2200384

ALS Project Manager: _____ ALS Work Order #: _____

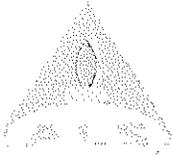
Customer Information		Project Information		Parameter/Method Request for Analysis												
Purchase Order		Project Name	Lozier Lane Supplemental Phase II	A	As and Pb											
Work Order		Project Number		B	Metals (17) - Ag 17											
Company Name	Alpine Env. Consultants, LLC	Bill To Company	Alpine Env. Consultants, LLC	C	Low level Organochlorine Pesticides by USEPA Method 8081B											
Send Report To	Jonathan Williams	Invoice Attn.		D	Organophosphorus pesticides by GC/MS ALS SOP											
Address	12210 Antioch Road	Address		E	Chlorinated herbicides by GC USEPA Method 8151A											
				F												
City/State/Zip	White City, Oregon, 97503	City/State/Zip		G												
Phone	541.944.4685	Phone		H												
Fax		Fax		I												
e-Mail Address	williams@alpine-env-llc.com			J												

No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	TP13-0-6	8/10/2022	914	S		1	x										
2	TP13-6-12	8/10/2022	913	S		1	x										
3	TP13-12-18	8/10/2022	912	S		1	x										
4	TP13-18-24	8/10/2022	911	S		1	x										
5	TP13-24-36	8/10/2022	910	S		1	x										
6	TP14-0-6	8/10/2022	1004	S		1	x										
7	TP14-6-12	8/10/2022	1003	S		1	x										
8	TP14-12-18	8/10/2022	1002	S		1	x										
9	TP14-18-24	8/10/2022	1001	S		1	x										
10	TP14-24-36	8/10/2022	1000	S		1	x										

Sampler(s): Please Print & Sign **Toby Shallcross**
 Shipment Method: **FEDEX**
 Required Turnaround Time: (Check Box) 10 Wk Days 5 Wk Days 3 Wk Days 2 Wk Days 24 Hour Other _____
 Results Due Date: _____

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Notes:			
Toby Shallcross			<i>[Signature]</i>	8/10/22	0935				
Relinquished by:	Date:	Time:	Received by (Laboratory):	Date:	Time:	ALS Cooler ID	Cooler Temp	QC Package: (Check Box Below)	
<i>[Signature]</i>	8/15/22	1500						<input checked="" type="checkbox"/> Level II: Standard QC	<input type="checkbox"/> Level III: Raw Data
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):					<input type="checkbox"/> TRRP LRC	<input type="checkbox"/> TRRP Level IV
								<input type="checkbox"/> Level IV: SW846 Methods/CLP like	
								<input type="checkbox"/> Other: _____	

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C
 Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS.



ALS Environmental
 1317 South 13th Ave
 Kelso, WA 98626
 (Tel) 360.577.7222
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Chain of Custody Form

Page 6 of 8

K2209384

ALS Project Manager:						ALS Work Order #:													
Customer Information			Project Information				Parameter/Method Request for Analysis												
Purchase Order	Project Name		Lozier Lane Supplemental Phase II			A	As and Pb												
Work Order	Project Number					B	Metals (17) - Ag 17												
Company Name	Alpine Env. Consultants, LLC		Bill To Company			Alpine Env. Consultants, LLC			C	Low level Organochlorine Pesticides by USEPA Method 8081B									
Send Report To	Jonathan Williams		Invoice Attn.						D	Organophosphorus pesticides by GC/MS ALS SOP									
Address	12210 Antioch Road		Address						E	Chlorinated herbicides by GC USEPA Method 8151A									
City/State/Zip	White City, Oregon, 97503		City/State/Zip						F										
Phone	541.944.4685		Phone						G										
Fax			Fax						H										
e-Mail Address	jwilliams@alpine-env-llc.com								I										
									J										
No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	TP15-0-6	8/10/2022	1254	S		1	x												
2	TP15-6-12	8/10/2022	1253	S		1	x												
3	TP15-12-18	8/10/2022	1252	S		1	x												
4	TP15-18-24	8/10/2022	1251	S		1	x												
5	TP15-24-36	8/10/2022	1250	S		1	x												
6	TP16-0-6	8/10/2022	1219	S		1	x												
7	TP16-6-12	8/10/2022	1218	S		1	x												
8	TP16-12-18	8/10/2022	1217	S		1	x												
9	TP16-18-24	8/10/2022	1216	S		1	x												
10	TP16-24-36	8/10/2022	1215	S		1	x												
Sampler(s): Please Print & Sign Toby Shallcross			Shipment Method: FEDEX		Required Turnaround Time: (Check Box) <input type="checkbox"/> Other _____						Results Due Date:								
					<input checked="" type="checkbox"/> 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 3 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour														
Relinquished by: Toby Shallcross		Date:	Time:	Received by: <i>[Signature]</i>		Date:	Time:	Notes: 8/10/22 09:35											
Relinquished by: <i>[Signature]</i>		Date:	Time:	Received by (Laboratory):		Date:	Time:	ALS Cooler ID	Cooler Temp	QC Package: (Check Box Below)									
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):						<input checked="" type="checkbox"/> Level II: Standard QC <input type="checkbox"/> Level III: Raw Data									
										<input type="checkbox"/> TRRP LRC <input type="checkbox"/> TRRP Level IV									
										<input type="checkbox"/> Level IV: SW846 Methods/CLP like									
										<input type="checkbox"/> Other: _____									
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C																			

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS.

Cooler Receipt and Preservation Form

Client Alpine Env. Consultants, LLC Service Request K22 09384
 Received: 8/16/22 Opened: 8/16/22 By: LM Unloaded: 8/16/22 By: LM

1. Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered
2. Samples were received in: (circle) Cooler Box Envelope Other NA
3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
 If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified if out of temp	Tracking Number NA	Filed
<u>2.5</u>	<u>—</u>	<u>1R02</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>276814411496</u>	
<u>1.8</u>	<u>—</u>	<u>1R02</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>276814411500</u>	

4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column above:
 If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
5. Were samples received within the method specified temperature ranges? NA Y N
 If no, were they received on ice and same day as collected? If not, notate the cooler # below and notify the PM. NA Y N

If applicable, tissue samples were received: Frozen Partially Thawed Thawed

6. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves _____
7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
8. Were samples received in good condition (unbroken) NA Y N
9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
10. Did all sample labels and tags agree with custody papers? NA Y N
11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N
13. Were VOA vials received without headspace? Indicate in the table below. NA Y N
14. Was C12/Res negative? NA Y N
15. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA Y N Under filled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:
<u>TP4-6-12</u>	<u>TP4-6-12</u>	<u>process of elimination</u>

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: _____



Miscellaneous Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
 - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjllabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II/

Service Request: K2209384

Sample Name: TP13-0-6
Lab Code: K2209384-001
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By

SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP13-6-12
Lab Code: K2209384-002
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By

SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP13-12-18
Lab Code: K2209384-003
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By

SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP13-18-24
Lab Code: K2209384-004
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By

SSOLADEY

Analyzed By
DHIDDEN
JCHAN

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II/

Service Request: K2209384

Sample Name: TP13-24-36
Lab Code: K2209384-005
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By

SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP14-0-6
Lab Code: K2209384-006
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By

SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP14-6-12
Lab Code: K2209384-007
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By

SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP14-12-18
Lab Code: K2209384-008
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By

SSOLADEY

Analyzed By
DHIDDEN
JCHAN

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II/

Service Request: K2209384

Sample Name: TP14-18-24
Lab Code: K2209384-009
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP14-24-36
Lab Code: K2209384-010
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP15-0-6
Lab Code: K2209384-011
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP15-6-12
Lab Code: K2209384-012
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

ALS Group USA, Corp.
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Analyst Summary report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II/

Service Request: K2209384

Sample Name: TP15-12-18
Lab Code: K2209384-013
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By

SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP15-18-24
Lab Code: K2209384-014
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By

SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP15-24-36
Lab Code: K2209384-015
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By

SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP16-0-6
Lab Code: K2209384-016
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By

SSOLADEY

Analyzed By
DHIDDEN
JCHAN

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Analyst Summary report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II/

Service Request: K2209384

Sample Name: TP16-6-12
Lab Code: K2209384-017
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP16-12-18
Lab Code: K2209384-018
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP16-18-24
Lab Code: K2209384-019
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP16-24-36
Lab Code: K2209384-020
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN



Sample Results

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com



Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP13-0-6
Lab Code: K2209384-001

Service Request: K2209384
Date Collected: 08/10/22 09:14
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	8.53	mg/Kg	0.48	0.06	5	08/30/22 14:37	08/23/22	
Lead	6020A	15.6	mg/Kg	0.048	0.019	5	08/30/22 14:37	08/23/22	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP13-6-12
Lab Code: K2209384-002

Service Request: K2209384
Date Collected: 08/10/22 09:13
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	5.73	mg/Kg	0.40	0.05	5	08/30/22 14:43	08/23/22	
Lead	6020A	7.46	mg/Kg	0.040	0.016	5	08/30/22 14:43	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP13-12-18
Lab Code: K2209384-003

Service Request: K2209384
Date Collected: 08/10/22 09:12
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	7.66	mg/Kg	0.37	0.04	5	08/30/22 14:44	08/23/22	
Lead	6020A	4.36	mg/Kg	0.037	0.015	5	08/30/22 14:44	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP13-18-24
Lab Code: K2209384-004

Service Request: K2209384
Date Collected: 08/10/22 09:11
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	7.86	mg/Kg	0.48	0.06	5	08/30/22 14:45	08/23/22	
Lead	6020A	4.06	mg/Kg	0.048	0.019	5	08/30/22 14:45	08/23/22	

ALS Group USA, Corp.
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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP13-24-36
Lab Code: K2209384-005

Service Request: K2209384
Date Collected: 08/10/22 09:10
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	10.3	mg/Kg	0.54	0.06	5	08/30/22 14:49	08/23/22	
Lead	6020A	3.33	mg/Kg	0.054	0.021	5	08/30/22 14:49	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP14-0-6
Lab Code: K2209384-006

Service Request: K2209384
Date Collected: 08/10/22 10:04
Date Received: 08/16/22 09:35

Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	5.36	mg/Kg	0.47	0.06	5	08/30/22 14:50	08/23/22	
Lead	6020A	35.2	mg/Kg	0.047	0.019	5	08/30/22 14:50	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP14-6-12
Lab Code: K2209384-007

Service Request: K2209384
Date Collected: 08/10/22 10:03
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	4.06	mg/Kg	0.49	0.06	5	08/30/22 14:52	08/23/22	
Lead	6020A	195	mg/Kg	0.049	0.020	5	08/30/22 14:52	08/23/22	

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dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP14-12-18
Lab Code: K2209384-008

Service Request: K2209384
Date Collected: 08/10/22 10:02
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	4.84	mg/Kg	0.46	0.06	5	08/30/22 14:53	08/23/22	
Lead	6020A	177	mg/Kg	0.046	0.018	5	08/30/22 14:53	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP14-18-24
Lab Code: K2209384-009

Service Request: K2209384
Date Collected: 08/10/22 10:01
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	5.43	mg/Kg	0.50	0.06	5	08/30/22 14:54	08/23/22	
Lead	6020A	29.2	mg/Kg	0.050	0.020	5	08/30/22 14:54	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP14-24-36
Lab Code: K2209384-010

Service Request: K2209384
Date Collected: 08/10/22 10:00
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	5.69	mg/Kg	0.38	0.05	5	08/30/22 14:55	08/23/22	
Lead	6020A	12.1	mg/Kg	0.038	0.015	5	08/30/22 14:55	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP15-0-6
Lab Code: K2209384-011

Service Request: K2209384
Date Collected: 08/10/22 12:54
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	5.04	mg/Kg	0.43	0.05	5	08/30/22 14:57	08/23/22	
Lead	6020A	20.9	mg/Kg	0.043	0.017	5	08/30/22 14:57	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP15-6-12
Lab Code: K2209384-012

Service Request: K2209384
Date Collected: 08/10/22 12:53
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	6.36	mg/Kg	0.40	0.05	5	08/30/22 14:58	08/23/22	
Lead	6020A	33.8	mg/Kg	0.040	0.016	5	08/30/22 14:58	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP15-12-18
Lab Code: K2209384-013

Service Request: K2209384
Date Collected: 08/10/22 12:52
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	5.95	mg/Kg	0.44	0.05	5	08/30/22 14:59	08/23/22	
Lead	6020A	51.9	mg/Kg	0.044	0.018	5	08/30/22 14:59	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP15-18-24
Lab Code: K2209384-014

Service Request: K2209384
Date Collected: 08/10/22 12:51
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	4.23	mg/Kg	0.43	0.05	5	08/30/22 15:00	08/23/22	
Lead	6020A	6.38	mg/Kg	0.043	0.017	5	08/30/22 15:00	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP15-24-36
Lab Code: K2209384-015

Service Request: K2209384
Date Collected: 08/10/22 12:50
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	4.69	mg/Kg	0.40	0.05	5	08/30/22 15:04	08/23/22	
Lead	6020A	4.98	mg/Kg	0.040	0.016	5	08/30/22 15:04	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP16-0-6
Lab Code: K2209384-016

Service Request: K2209384
Date Collected: 08/10/22 12:19
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	3.13	mg/Kg	0.51	0.06	5	08/30/22 15:05	08/23/22	
Lead	6020A	13.0	mg/Kg	0.051	0.020	5	08/30/22 15:05	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP16-6-12
Lab Code: K2209384-017

Service Request: K2209384
Date Collected: 08/10/22 12:18
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	5.48	mg/Kg	0.43	0.05	5	08/30/22 15:07	08/23/22	
Lead	6020A	21.1	mg/Kg	0.043	0.017	5	08/30/22 15:07	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP16-12-18
Lab Code: K2209384-018

Service Request: K2209384
Date Collected: 08/10/22 12:17
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	7.74	mg/Kg	0.38	0.05	5	08/30/22 15:08	08/23/22	
Lead	6020A	26.5	mg/Kg	0.038	0.015	5	08/30/22 15:08	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP16-18-24
Lab Code: K2209384-019

Service Request: K2209384
Date Collected: 08/10/22 12:16
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	20.7	mg/Kg	0.50	0.06	5	08/30/22 15:09	08/23/22	
Lead	6020A	63.2	mg/Kg	0.050	0.020	5	08/30/22 15:09	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP16-24-36
Lab Code: K2209384-020

Service Request: K2209384
Date Collected: 08/10/22 12:15
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	5.59	mg/Kg	0.52	0.06	5	08/30/22 15:10	08/23/22	
Lead	6020A	9.83	mg/Kg	0.052	0.021	5	08/30/22 15:10	08/23/22	



General Chemistry

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP13-0-6
Lab Code: K2209384-001

Service Request: K2209384
Date Collected: 08/10/22 09:14
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	95.5	Percent	-	-	1	08/22/22 09:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP13-6-12
Lab Code: K2209384-002

Service Request: K2209384
Date Collected: 08/10/22 09:13
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	94.5	Percent	-	-	1	08/22/22 09:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP13-12-18
Lab Code: K2209384-003

Service Request: K2209384
Date Collected: 08/10/22 09:12
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	91.7	Percent	-	-	1	08/22/22 09:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP13-18-24
Lab Code: K2209384-004

Service Request: K2209384
Date Collected: 08/10/22 09:11
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	90.4	Percent	-	-	1	08/22/22 09:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP13-24-36
Lab Code: K2209384-005

Service Request: K2209384
Date Collected: 08/10/22 09:10
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	91.1	Percent	-	-	1	08/22/22 09:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP14-0-6
Lab Code: K2209384-006

Service Request: K2209384
Date Collected: 08/10/22 10:04
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	91.1	Percent	-	-	1	08/22/22 09:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP14-6-12
Lab Code: K2209384-007

Service Request: K2209384
Date Collected: 08/10/22 10:03
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	93.7	Percent	-	-	1	08/22/22 09:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP14-12-18
Lab Code: K2209384-008

Service Request: K2209384
Date Collected: 08/10/22 10:02
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	94.8	Percent	-	-	1	08/22/22 09:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP14-18-24
Lab Code: K2209384-009

Service Request: K2209384
Date Collected: 08/10/22 10:01
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	94.9	Percent	-	-	1	08/22/22 09:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP14-24-36
Lab Code: K2209384-010

Service Request: K2209384
Date Collected: 08/10/22 10:00
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	94.8	Percent	-	-	1	08/22/22 09:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP15-0-6
Lab Code: K2209384-011

Service Request: K2209384
Date Collected: 08/10/22 12:54
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	97.4	Percent	-	-	1	08/22/22 09:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP15-6-12
Lab Code: K2209384-012

Service Request: K2209384
Date Collected: 08/10/22 12:53
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	91.9	Percent	-	-	1	08/22/22 09:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP15-12-18
Lab Code: K2209384-013

Service Request: K2209384
Date Collected: 08/10/22 12:52
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	94.8	Percent	-	-	1	08/22/22 09:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP15-18-24
Lab Code: K2209384-014

Service Request: K2209384
Date Collected: 08/10/22 12:51
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	95.2	Percent	-	-	1	08/22/22 09:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP15-24-36
Lab Code: K2209384-015

Service Request: K2209384
Date Collected: 08/10/22 12:50
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	94.2	Percent	-	-	1	08/22/22 09:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP16-0-6
Lab Code: K2209384-016

Service Request: K2209384
Date Collected: 08/10/22 12:19
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	96.1	Percent	-	-	1	08/22/22 09:32	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP16-6-12
Lab Code: K2209384-017

Service Request: K2209384
Date Collected: 08/10/22 12:18
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	89.1	Percent	-	-	1	08/22/22 09:32	

ALS Group USA, Corp.
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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP16-12-18
Lab Code: K2209384-018

Service Request: K2209384
Date Collected: 08/10/22 12:17
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	88.6	Percent	-	-	1	08/22/22 09:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP16-18-24
Lab Code: K2209384-019

Service Request: K2209384
Date Collected: 08/10/22 12:16
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	90.3	Percent	-	-	1	08/22/22 09:32	

ALS Group USA, Corp.
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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP16-24-36
Lab Code: K2209384-020

Service Request: K2209384
Date Collected: 08/10/22 12:15
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	90.2	Percent	-	-	1	08/22/22 09:32	



QC Summary Forms

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Metals

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: Method Blank
Lab Code: KQ2214075-03

Service Request: K2209384
Date Collected: NA
Date Received: NA
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	ND U	mg/Kg	0.5	0.06	5	08/30/22 14:34	08/23/22	
Lead	6020A	ND U	mg/Kg	0.05	0.020	5	08/30/22 14:34	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209384
Date Collected: 08/10/22
Date Received: 08/16/22
Date Analyzed: 08/30/22
Date Extracted: 08/23/22

Matrix Spike Summary
Total Metals

Sample Name: TP13-0-6
Lab Code: K2209384-001
Analysis Method: 6020A
Prep Method: EPA 3050B

Units: mg/Kg
Basis: Dry

Matrix Spike
KQ2214075-02

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	8.53	110	104	98	75-125
Lead	15.6	135	104	115	75-125

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

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QA/QC Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209384
Date Collected: 08/10/22
Date Received: 08/16/22
Date Analyzed: 08/30/22

Replicate Sample Summary

Total Metals

Sample Name: TP13-0-6
Lab Code: K2209384-001

Units: mg/Kg
Basis: Dry

Table with 9 columns: Analyte Name, Analysis Method, MRL, MDL, Sample Result, Duplicate Sample KQ2214075-01 Result, Average, RPD, RPD Limit. Rows include Arsenic and Lead.

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209384
Date Analyzed: 08/30/22

Lab Control Sample Summary
Total Metals

Units:mg/Kg
Basis:Dry

Lab Control Sample
KQ2214075-04

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	6020A	96.9	100	97	80-120
Lead	6020A	105	100	105	80-120



General Chemistry

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QA/QC Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209384
Date Collected: 08/10/22
Date Received: 08/16/22
Date Analyzed: 08/22/22

Replicate Sample Summary
Inorganic Parameters

Sample Name: TP13-0-6
Lab Code: K2209384-001

Units: Percent
Basis: As Received

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K2209384-001DUP Result	Average	RPD	RPD Limit
Solids, Total	160.3 Modified	-	95.5	95.2	95.4	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209384
Date Collected: 08/10/22
Date Received: 08/16/22
Date Analyzed: 08/22/22

Replicate Sample Summary

Inorganic Parameters

Sample Name: TP14-24-36
Lab Code: K2209384-010

Units: Percent
Basis: As Received

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K2209384-010DUP Result	Average	RPD	RPD Limit
Solids, Total	160.3 Modified	-	94.8	95.1	95.0	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



August 31, 2022

Service Request No:K2209385

Jonathan Williams
Alpine Environmental Consultants, LLC
12210 Antioch Road
White City, OR 97503

Laboratory Results for: Lozier Lane Supplemental Phase II

Dear Jonathan,

Enclosed are the results of the sample(s) submitted to our laboratory August 16, 2022
For your reference, these analyses have been assigned our service request number **K2209385**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3364. You may also contact me via email at howard.holmes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Howard Holmes
Project Manager

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dba ALS Environmental



Narrative Documents

ALS Environmental—Kelso Laboratory
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Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209385
Date Received: 08/16/2022

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Twenty soil samples were received for analysis at ALS Environmental on 08/16/2022. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Metals:

No significant anomalies were noted with this analysis.

Approved by 

Date 08/31/2022



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: TP17-0-6	Lab ID: K2209385-001
----------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	16.0		0.02	0.20	mg/Kg	6020A
Lead	104		0.008	0.020	mg/Kg	6020A
Solids, Total	94.6				Percent	160.3 Modified

CLIENT ID: TP17-6-12	Lab ID: K2209385-002
-----------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	11.2		0.04	0.37	mg/Kg	6020A
Lead	29.7		0.015	0.037	mg/Kg	6020A
Solids, Total	95.1				Percent	160.3 Modified

CLIENT ID: TP17-12-18	Lab ID: K2209385-003
------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	6.03		0.05	0.40	mg/Kg	6020A
Lead	9.02		0.016	0.040	mg/Kg	6020A
Solids, Total	94.3				Percent	160.3 Modified

CLIENT ID: TP17-18-24	Lab ID: K2209385-004
------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	7.09		0.05	0.39	mg/Kg	6020A
Lead	5.70		0.016	0.039	mg/Kg	6020A
Solids, Total	90.7				Percent	160.3 Modified

CLIENT ID: TP17-24-36	Lab ID: K2209385-005
------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	5.73		0.05	0.38	mg/Kg	6020A
Lead	3.32		0.015	0.038	mg/Kg	6020A
Solids, Total	89.2				Percent	160.3 Modified

CLIENT ID: TP18-0-6	Lab ID: K2209385-006
----------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	5.81		0.04	0.31	mg/Kg	6020A
Lead	3.63		0.012	0.031	mg/Kg	6020A
Solids, Total	89.3				Percent	160.3 Modified

CLIENT ID: TP18-6-12	Lab ID: K2209385-007
-----------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	7.66		0.06	0.49	mg/Kg	6020A
Lead	105		0.019	0.049	mg/Kg	6020A
Solids, Total	93.5				Percent	160.3 Modified

CLIENT ID: TP18-12-18	Lab ID: K2209385-008
------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	8.40		0.05	0.44	mg/Kg	6020A
Lead	117		0.018	0.044	mg/Kg	6020A



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: TP18-12-18	Lab ID: K2209385-008
------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Solids, Total	95.8				Percent	160.3 Modified

CLIENT ID: TP18-18-24	Lab ID: K2209385-009
------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	4.74		0.05	0.40	mg/Kg	6020A
Lead	5.65		0.016	0.040	mg/Kg	6020A
Solids, Total	94.0				Percent	160.3 Modified

CLIENT ID: TP18-24-36	Lab ID: K2209385-010
------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	6.37		0.06	0.51	mg/Kg	6020A
Lead	4.82		0.021	0.051	mg/Kg	6020A
Solids, Total	90.5				Percent	160.3 Modified

CLIENT ID: TP19-0-6	Lab ID: K2209385-011
----------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	5.43		0.06	0.53	mg/Kg	6020A
Lead	112		0.021	0.053	mg/Kg	6020A
Solids, Total	92.8				Percent	160.3 Modified

CLIENT ID: TP19-6-12	Lab ID: K2209385-012
-----------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	4.17		0.06	0.50	mg/Kg	6020A
Lead	257		0.020	0.050	mg/Kg	6020A
Solids, Total	96.1				Percent	160.3 Modified

CLIENT ID: TP19-12-18	Lab ID: K2209385-013
------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	4.42		0.05	0.39	mg/Kg	6020A
Lead	15.5		0.016	0.039	mg/Kg	6020A
Solids, Total	94.5				Percent	160.3 Modified

CLIENT ID: TP19-18-24	Lab ID: K2209385-014
------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	4.13		0.05	0.45	mg/Kg	6020A
Lead	5.36		0.018	0.045	mg/Kg	6020A
Solids, Total	94.6				Percent	160.3 Modified

CLIENT ID: TP19-24-36	Lab ID: K2209385-015
------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	4.80		0.05	0.41	mg/Kg	6020A
Lead	10.7		0.017	0.041	mg/Kg	6020A
Solids, Total	94.1				Percent	160.3 Modified



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: TP20-0-6	Lab ID: K2209385-016
----------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	6.28		0.06	0.46	mg/Kg	6020A
Lead	57.6		0.019	0.046	mg/Kg	6020A
Solids, Total	96.8				Percent	160.3 Modified

CLIENT ID: TP20-6-12	Lab ID: K2209385-017
-----------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	6.10		0.05	0.43	mg/Kg	6020A
Lead	340		0.017	0.043	mg/Kg	6020A
Solids, Total	90.5				Percent	160.3 Modified

CLIENT ID: TP20-12-18	Lab ID: K2209385-018
------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	4.55		0.06	0.47	mg/Kg	6020A
Lead	456		0.019	0.047	mg/Kg	6020A
Solids, Total	95.9				Percent	160.3 Modified

CLIENT ID: TP20-18-24	Lab ID: K2209385-019
------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	4.56		0.05	0.39	mg/Kg	6020A
Lead	421		0.016	0.039	mg/Kg	6020A
Solids, Total	94.0				Percent	160.3 Modified

CLIENT ID: TP20-24-36	Lab ID: K2209385-020
------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Arsenic	5.05		0.05	0.44	mg/Kg	6020A
Lead	14.0		0.018	0.044	mg/Kg	6020A
Solids, Total	96.4				Percent	160.3 Modified



Sample Receipt Information

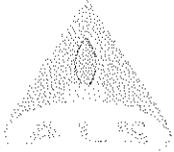
ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II

Service Request:K2209385

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2209385-001	TP17-0-6	8/10/2022	1039
K2209385-002	TP17-6-12	8/10/2022	1038
K2209385-003	TP17-12-18	8/10/2022	1037
K2209385-004	TP17-18-24	8/10/2022	1036
K2209385-005	TP17-24-36	8/10/2022	1035
K2209385-006	TP18-0-6	8/10/2022	1109
K2209385-007	TP18-6-12	8/10/2022	1108
K2209385-008	TP18-12-18	8/10/2022	1107
K2209385-009	TP18-18-24	8/10/2022	1106
K2209385-010	TP18-24-36	8/10/2022	1105
K2209385-011	TP19-0-6	8/10/2022	1129
K2209385-012	TP19-6-12	8/10/2022	1128
K2209385-013	TP19-12-18	8/10/2022	1127
K2209385-014	TP19-18-24	8/10/2022	1126
K2209385-015	TP19-24-36	8/10/2022	1125
K2209385-016	TP20-0-6	8/10/2022	1154
K2209385-017	TP20-6-12	8/10/2022	1153
K2209385-018	TP20-12-18	8/10/2022	1152
K2209385-019	TP20-18-24	8/10/2022	1151
K2209385-020	TP20-24-36	8/10/2022	1150



ALS Environmental
 1317 South 13th Ave
 Kelso, WA 98626
 (Tel) 360.577.7222
 (Fax) 360.636.1068

Chain of Custody Form

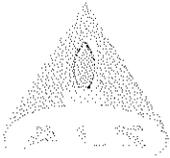
Page 7 of 8

K2209385

Customer Information		Project Information					Parameter/Method Request for Analysis										
Purchase Order		Project Name	Lozier Lane Supplemental Phase II			A	As and Pb										
Work Order		Project Number				B	Metals (17) - Ag 17										
Company Name	Alpine Env. Consultants, LLC	Bill To Company	Alpine Env. Consultants, LLC			C	Low level Organochlorine Pesticides by USEPA Method 8081B										
Send Report To	Jonathan Williams	Invoice Attn.				D	Organophosphorus pesticides by GC/MS ALS SOP										
Address	12210 Antioch Road	Address				E	Chlorinated herbicides by GC USEPA Method 8151A										
City/State/Zip	White City, Oregon, 97503	City/State/Zip				F											
Phone	541.944.4685	Phone				G											
Fax		Fax				H											
e-Mail Address	jwilliams@alpine-env-llc.com					I											
						J											
No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	TP17-0-6	8/10/2022	1039	S		1	x										
2	TP17-6-12	8/10/2022	1038	S		1	x										
3	TP17-12-18	8/10/2022	1037	S		1	x										
4	TP17-18-24	8/10/2022	1036	S		1	x										
5	TP17-24-36	8/10/2022	1035	S		1	x										
6	TP18-0-6	8/10/2022	1109	S		1	x										
7	TP18-6-12	8/10/2022	1108	S		1	x										
8	TP18-12-18	8/10/2022	1107	S		1	x										
9	TP18-18-24	8/10/2022	1106	S		1	x										
10	TP18-24-36	8/10/2022	1105	S		1	x										
Sampler(s): Please Print & Sign Toby Shallcross		Shipment Method: FEDEX		Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 3 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour				Other: _____		Results Due Date:							
Relinquished by: Toby Shallcross	Date:	Time:	Received by:	Date:	Time:	Notes:											
Relinquished by: <i>Toby Shallcross</i>	Date: 7/15/22	Time: 1500	Received by (Laboratory): <i>[Signature]</i>	Date: 8/10/22	Time: 09:55	ALS Cooler ID		Cooler Temp	QC Package: (Check Box Below)								
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):						<input checked="" type="checkbox"/> Level II: Standard QC <input type="checkbox"/> Level III: Raw Data								
									<input type="checkbox"/> TRRP LRC <input type="checkbox"/> TRRP Level IV								
									<input type="checkbox"/> Level IV: SW846 Methods/CLP like								
									<input type="checkbox"/> Other: _____								

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS.



ALS Environmental
 1317 South 13th Ave
 Kelso, WA 98626
 (Tel) 360.577.7222
 (Fax) 360.636.1068

Chain of Custody Form

W2009385

Page 8 of 8

Customer Information		Project Information					Parameter/Method Request for Analysis										
Purchase Order		Project Name	Lozler Lane Supplemental Phase II			A	As and Pb										
Work Order		Project Number				B	Metals (17) - Ag 17										
Company Name	Alpine Env. Consultants, LLC	Bill To Company	Alpine Env. Consultants, LLC			C	Low level Organochlorine Pesticides by USEPA Method 8081B										
Send Report To	Jonathan Williams	Invoice Attn.				D	Organophosphorus pesticides by GC/MS ALS SOP										
Address	12210 Antioch Road	Address				E	Chlorinated herbicides by GC USEPA Method 8151A										
City/State/Zip	White City, Oregon, 97503	City/State/Zip				F											
Phone	541.944.4685	Phone				G											
Fax		Fax				H											
e-Mail Address	williams@alpine-env-llc.com					I											
						J											
No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	TP19-0-6	8/10/2022	1129	S		1	x										
2	TP19-6-12	8/10/2022	1128	S		1	x										
3	TP19-12-18	8/10/2022	1127	S		1	x										
4	TP19-18-24	8/10/2022	1126	S		1	x										
5	TP19-24-36	8/10/2022	1125	S		1	x										
6	TP20-0-6	8/10/2022	1154	S		1	x										
7	TP20-6-12	8/10/2022	1153	S		1	x										
8	TP20-12-18	8/10/2022	1152	S		1	x										
9	TP20-18-24	8/10/2022	1151	S		1	x										
10	TP20-24-36	8/10/2022	1150	S		1	x										
Sampler(s): Please Print & Sign		Toby Shallcross		Shipment Method:		FEDEX		Required Turnaround Time: (Check Box)				<input checked="" type="checkbox"/> 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 3 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour		Other: _____		Results Due Date:	
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Notes:											
Toby Shallcross			<i>[Signature]</i>	8/10/22	09:35												
Relinquished by:	Date:	Time:	Received by (Laboratory):	Date:	Time:	ALS Cooler ID	Cooler Temp	QC Package: (Check Box Below)									
<i>[Signature]</i>	8/15/22	1500						<input checked="" type="checkbox"/> Level II: Standard QC <input type="checkbox"/> Level III: Raw Data <input type="checkbox"/> TRRP LRC <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level IV: SW846 Methods/CLP like <input type="checkbox"/> Other: _____									
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):														

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS.

Cooler Receipt and Preservation Form

Client Alpine Env. Consultants, LLC Service Request K2209385
 Received: 8/16/22 Opened: 8/16/22 By: LM Unloaded: 8/16/22 By: LM

1. Samples were received via? USPS Fed Ex UPS DHL PDX Courier Hand Delivered
2. Samples were received in: (circle) Cooler Box Envelope Other _____ NA
3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
 If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified If out of temp	Tracking Number NA	Filed
<u>2.5</u>	<u>—</u>	<u>1R02</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>276814411496</u>	
<u>1.8</u>	<u>—</u>	<u>1R02</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>276814411500</u>	

4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column above:
 If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
5. Were samples received within the method specified temperature ranges? NA Y N
 If no, were they received on ice and same day as collected? If not, notate the cooler # below and notify the PM. NA Y N

If applicable, tissue samples were received: Frozen Partially Thawed Thawed

6. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves _____
7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
8. Were samples received in good condition (unbroken) NA Y N
9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
10. Did all sample labels and tags agree with custody papers? NA Y N
11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
12. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N
13. Were VOA vials received without headspace? Indicate in the table below NA Y N
14. Was C12/Res negative? NA Y N
15. Were 100ml sterile microbiology bottles filled exactly to the 100ml mark? NA Y N Under filled Overfilled

Sample ID on Bottle	Sample ID on COC	Identified by:
<u>TP4-6-12</u>	<u>TP4-6-12</u>	<u>process of elimination</u>

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: _____



Miscellaneous Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
 - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjllabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II/

Service Request: K2209385

Sample Name: TP17-0-6
Lab Code: K2209385-001
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP17-6-12
Lab Code: K2209385-002
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP17-12-18
Lab Code: K2209385-003
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP17-18-24
Lab Code: K2209385-004
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II/

Service Request: K2209385

Sample Name: TP17-24-36
Lab Code: K2209385-005
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP18-0-6
Lab Code: K2209385-006
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP18-6-12
Lab Code: K2209385-007
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP18-12-18
Lab Code: K2209385-008
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II/

Service Request: K2209385

Sample Name: TP18-18-24
Lab Code: K2209385-009
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP18-24-36
Lab Code: K2209385-010
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP19-0-6
Lab Code: K2209385-011
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP19-6-12
Lab Code: K2209385-012
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II/

Service Request: K2209385

Sample Name: TP19-12-18
Lab Code: K2209385-013
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP19-18-24
Lab Code: K2209385-014
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP19-24-36
Lab Code: K2209385-015
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP20-0-6
Lab Code: K2209385-016
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II/

Service Request: K2209385

Sample Name: TP20-6-12
Lab Code: K2209385-017
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP20-12-18
Lab Code: K2209385-018
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP20-18-24
Lab Code: K2209385-019
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN

Sample Name: TP20-24-36
Lab Code: K2209385-020
Sample Matrix: Soil

Date Collected: 08/10/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A

Extracted/Digested By
SSOLADEY

Analyzed By
DHIDDEN
JCHAN



Sample Results

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com



Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP17-0-6
Lab Code: K2209385-001

Service Request: K2209385
Date Collected: 08/10/22 10:39
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	16.0	mg/Kg	0.20	0.02	5	08/30/22 15:17	08/23/22	
Lead	6020A	104	mg/Kg	0.020	0.008	5	08/30/22 15:17	08/23/22	

ALS Group USA, Corp.
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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP17-6-12
Lab Code: K2209385-002

Service Request: K2209385
Date Collected: 08/10/22 10:38
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	11.2	mg/Kg	0.37	0.04	5	08/30/22 15:23	08/23/22	
Lead	6020A	29.7	mg/Kg	0.037	0.015	5	08/30/22 15:23	08/23/22	

ALS Group USA, Corp.
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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP17-12-18
Lab Code: K2209385-003

Service Request: K2209385
Date Collected: 08/10/22 10:37
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	6.03	mg/Kg	0.40	0.05	5	08/30/22 15:24	08/23/22	
Lead	6020A	9.02	mg/Kg	0.040	0.016	5	08/30/22 15:24	08/23/22	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP17-18-24
Lab Code: K2209385-004

Service Request: K2209385
Date Collected: 08/10/22 10:36
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	7.09	mg/Kg	0.39	0.05	5	08/30/22 15:26	08/23/22	
Lead	6020A	5.70	mg/Kg	0.039	0.016	5	08/30/22 15:26	08/23/22	

ALS Group USA, Corp.
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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP17-24-36
Lab Code: K2209385-005

Service Request: K2209385
Date Collected: 08/10/22 10:35
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	5.73	mg/Kg	0.38	0.05	5	08/30/22 15:29	08/23/22	
Lead	6020A	3.32	mg/Kg	0.038	0.015	5	08/30/22 15:29	08/23/22	

ALS Group USA, Corp.
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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP18-0-6
Lab Code: K2209385-006

Service Request: K2209385
Date Collected: 08/10/22 11:09
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	5.81	mg/Kg	0.31	0.04	5	08/30/22 15:31	08/23/22	
Lead	6020A	3.63	mg/Kg	0.031	0.012	5	08/30/22 15:31	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP18-6-12
Lab Code: K2209385-007

Service Request: K2209385
Date Collected: 08/10/22 11:08
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	7.66	mg/Kg	0.49	0.06	5	08/30/22 15:32	08/23/22	
Lead	6020A	105	mg/Kg	0.049	0.019	5	08/30/22 15:32	08/23/22	

ALS Group USA, Corp.
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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP18-12-18
Lab Code: K2209385-008

Service Request: K2209385
Date Collected: 08/10/22 11:07
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	8.40	mg/Kg	0.44	0.05	5	08/30/22 15:33	08/23/22	
Lead	6020A	117	mg/Kg	0.044	0.018	5	08/30/22 15:33	08/23/22	

ALS Group USA, Corp.
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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP18-18-24
Lab Code: K2209385-009

Service Request: K2209385
Date Collected: 08/10/22 11:06
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	4.74	mg/Kg	0.40	0.05	5	08/30/22 15:34	08/23/22	
Lead	6020A	5.65	mg/Kg	0.040	0.016	5	08/30/22 15:34	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP18-24-36
Lab Code: K2209385-010

Service Request: K2209385
Date Collected: 08/10/22 11:05
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	6.37	mg/Kg	0.51	0.06	5	08/30/22 15:36	08/23/22	
Lead	6020A	4.82	mg/Kg	0.051	0.021	5	08/30/22 15:36	08/23/22	

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dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP19-0-6
Lab Code: K2209385-011

Service Request: K2209385
Date Collected: 08/10/22 11:29
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	5.43	mg/Kg	0.53	0.06	5	08/30/22 15:37	08/23/22	
Lead	6020A	112	mg/Kg	0.053	0.021	5	08/30/22 15:37	08/23/22	

ALS Group USA, Corp.
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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP19-6-12
Lab Code: K2209385-012

Service Request: K2209385
Date Collected: 08/10/22 11:28
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	4.17	mg/Kg	0.50	0.06	5	08/30/22 15:38	08/23/22	
Lead	6020A	257	mg/Kg	0.050	0.020	5	08/30/22 15:38	08/23/22	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP19-12-18
Lab Code: K2209385-013

Service Request: K2209385
Date Collected: 08/10/22 11:27
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	4.42	mg/Kg	0.39	0.05	5	08/30/22 15:39	08/23/22	
Lead	6020A	15.5	mg/Kg	0.039	0.016	5	08/30/22 15:39	08/23/22	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP19-18-24
Lab Code: K2209385-014

Service Request: K2209385
Date Collected: 08/10/22 11:26
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	4.13	mg/Kg	0.45	0.05	5	08/30/22 15:41	08/23/22	
Lead	6020A	5.36	mg/Kg	0.045	0.018	5	08/30/22 15:41	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP19-24-36
Lab Code: K2209385-015

Service Request: K2209385
Date Collected: 08/10/22 11:25
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	4.80	mg/Kg	0.41	0.05	5	08/30/22 15:44	08/23/22	
Lead	6020A	10.7	mg/Kg	0.041	0.017	5	08/30/22 15:44	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP20-0-6
Lab Code: K2209385-016

Service Request: K2209385
Date Collected: 08/10/22 11:54
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	6.28	mg/Kg	0.46	0.06	5	08/30/22 15:46	08/23/22	
Lead	6020A	57.6	mg/Kg	0.046	0.019	5	08/30/22 15:46	08/23/22	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP20-6-12
Lab Code: K2209385-017

Service Request: K2209385
Date Collected: 08/10/22 11:53
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	6.10	mg/Kg	0.43	0.05	5	08/30/22 15:47	08/23/22	
Lead	6020A	340	mg/Kg	0.043	0.017	5	08/30/22 15:47	08/23/22	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP20-12-18
Lab Code: K2209385-018

Service Request: K2209385
Date Collected: 08/10/22 11:52
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	4.55	mg/Kg	0.47	0.06	5	08/30/22 15:48	08/23/22	
Lead	6020A	456	mg/Kg	0.047	0.019	5	08/30/22 15:48	08/23/22	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP20-18-24
Lab Code: K2209385-019

Service Request: K2209385
Date Collected: 08/10/22 11:51
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	4.56	mg/Kg	0.39	0.05	5	08/30/22 15:49	08/23/22	
Lead	6020A	421	mg/Kg	0.039	0.016	5	08/30/22 15:49	08/23/22	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP20-24-36
Lab Code: K2209385-020

Service Request: K2209385
Date Collected: 08/10/22 11:50
Date Received: 08/16/22 09:35
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	5.05	mg/Kg	0.44	0.05	5	08/30/22 15:51	08/23/22	
Lead	6020A	14.0	mg/Kg	0.044	0.018	5	08/30/22 15:51	08/23/22	



General Chemistry

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dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP17-0-6
Lab Code: K2209385-001

Service Request: K2209385
Date Collected: 08/10/22 10:39
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	94.6	Percent	-	-	1	08/18/22 13:06	

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dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP17-6-12
Lab Code: K2209385-002

Service Request: K2209385
Date Collected: 08/10/22 10:38
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	95.1	Percent	-	-	1	08/18/22 13:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP17-12-18
Lab Code: K2209385-003

Service Request: K2209385
Date Collected: 08/10/22 10:37
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	94.3	Percent	-	-	1	08/18/22 13:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP17-18-24
Lab Code: K2209385-004

Service Request: K2209385
Date Collected: 08/10/22 10:36
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	90.7	Percent	-	-	1	08/18/22 13:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP17-24-36
Lab Code: K2209385-005

Service Request: K2209385
Date Collected: 08/10/22 10:35
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Solids, Total	160.3 Modified	89.2	Percent	-	-	1	08/18/22 13:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP18-0-6
Lab Code: K2209385-006

Service Request: K2209385
Date Collected: 08/10/22 11:09
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	89.3	Percent	-	-	1	08/18/22 13:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP18-6-12
Lab Code: K2209385-007

Service Request: K2209385
Date Collected: 08/10/22 11:08
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	93.5	Percent	-	-	1	08/18/22 13:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP18-12-18
Lab Code: K2209385-008

Service Request: K2209385
Date Collected: 08/10/22 11:07
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	95.8	Percent	-	-	1	08/18/22 13:06	

ALS Group USA, Corp.
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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP18-18-24
Lab Code: K2209385-009

Service Request: K2209385
Date Collected: 08/10/22 11:06
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	94.0	Percent	-	-	1	08/18/22 13:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP18-24-36
Lab Code: K2209385-010

Service Request: K2209385
Date Collected: 08/10/22 11:05
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	90.5	Percent	-	-	1	08/18/22 13:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP19-0-6
Lab Code: K2209385-011

Service Request: K2209385
Date Collected: 08/10/22 11:29
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Solids, Total	160.3 Modified	92.8	Percent	-	-	1	08/18/22 13:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP19-6-12
Lab Code: K2209385-012

Service Request: K2209385
Date Collected: 08/10/22 11:28
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	96.1	Percent	-	-	1	08/18/22 13:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP19-12-18
Lab Code: K2209385-013

Service Request: K2209385
Date Collected: 08/10/22 11:27
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Solids, Total	160.3 Modified	94.5	Percent	-	-	1	08/18/22 13:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP19-18-24
Lab Code: K2209385-014

Service Request: K2209385
Date Collected: 08/10/22 11:26
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	94.6	Percent	-	-	1	08/18/22 13:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP19-24-36
Lab Code: K2209385-015

Service Request: K2209385
Date Collected: 08/10/22 11:25
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	94.1	Percent	-	-	1	08/18/22 13:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP20-0-6
Lab Code: K2209385-016

Service Request: K2209385
Date Collected: 08/10/22 11:54
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	96.8	Percent	-	-	1	08/18/22 13:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP20-6-12
Lab Code: K2209385-017

Service Request: K2209385
Date Collected: 08/10/22 11:53
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Solids, Total	160.3 Modified	90.5	Percent	-	-	1	08/18/22 13:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP20-12-18
Lab Code: K2209385-018

Service Request: K2209385
Date Collected: 08/10/22 11:52
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	95.9	Percent	-	-	1	08/18/22 13:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP20-18-24
Lab Code: K2209385-019

Service Request: K2209385
Date Collected: 08/10/22 11:51
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	94.0	Percent	-	-	1	08/18/22 13:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: TP20-24-36
Lab Code: K2209385-020

Service Request: K2209385
Date Collected: 08/10/22 11:50
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	96.4	Percent	-	-	1	08/18/22 13:06	



QC Summary Forms

ALS Environmental—Kelso Laboratory
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Metals

ALS Environmental—Kelso Laboratory
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www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: Method Blank
Lab Code: KQ2213917-03

Service Request: K2209385
Date Collected: NA
Date Received: NA
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Arsenic	6020A	ND U	mg/Kg	0.5	0.06	5	08/30/22 15:14	08/23/22	
Lead	6020A	ND U	mg/Kg	0.05	0.020	5	08/30/22 15:14	08/23/22	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209385
Date Collected: 08/10/22
Date Received: 08/16/22
Date Analyzed: 08/30/22
Date Extracted: 08/23/22

Matrix Spike Summary
Total Metals

Sample Name: TP17-0-6
Lab Code: K2209385-001
Analysis Method: 6020A
Prep Method: EPA 3050B

Units: mg/Kg
Basis: Dry

Matrix Spike
KQ2213917-02

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	16.0	66.6	46.9	108	75-125
Lead	104	148	46.9	93	75-125

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209385
Date Collected: 08/10/22
Date Received: 08/16/22
Date Analyzed: 08/30/22

Replicate Sample Summary
Total Metals

Sample Name: TP17-0-6
Lab Code: K2209385-001

Units: mg/Kg
Basis: Dry

Table with 9 columns: Analyte Name, Analysis Method, MRL, MDL, Sample Result, Duplicate Sample KQ2213917-01 Result, Average, RPD, RPD Limit. Rows include Arsenic and Lead.

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.
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QA/QC Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209385
Date Analyzed: 08/30/22

Lab Control Sample Summary
Total Metals

Units:mg/Kg
Basis:Dry

Lab Control Sample
KQ2213917-04

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic	6020A	101	100	101	80-120
Lead	6020A	107	100	107	80-120



General Chemistry

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QA/QC Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209385
Date Collected: 08/10/22
Date Received: 08/16/22
Date Analyzed: 08/18/22

Replicate Sample Summary
Inorganic Parameters

Sample Name: TP17-0-6
Lab Code: K2209385-001

Units: Percent
Basis: As Received

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K2209385-001DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Solids, Total	160.3 Modified	-	94.6	94.9	94.8	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp.

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QA/QC Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209385
Date Collected: 08/10/22
Date Received: 08/16/22
Date Analyzed: 08/18/22

Replicate Sample Summary

Inorganic Parameters

Sample Name: TP18-24-36
Lab Code: K2209385-010

Units: Percent
Basis: As Received

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K2209385-010DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Solids, Total	160.3 Modified	-	90.5	91.3	90.9	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



October 19, 2022

Service Request No:K2209382

Jonathan Williams
Alpine Environmental Consultants, LLC
12210 Antioch Road
White City, OR 97503

Laboratory Results for: Lozier Lane Supplemental Phase II

Dear Jonathan,

Enclosed are the results of the sample(s) submitted to our laboratory August 16, 2022
For your reference, these analyses have been assigned our service request number **K2209382**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3364. You may also contact me via email at howard.holmes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Howard Holmes
Project Manager

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ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Kelso Laboratory
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www.alsglobal.com

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Received: 08/16/2022

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier II level requested by the client.

Sample Receipt:

Fifteen soil samples were received for analysis at ALS Environmental on 08/16/2022. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatiles by GC/MS:

Method ALS SOP, 09/08/2022: Dimethoate, Ethoprop (Prophos) and Naled (Dibrom) were flagged as outside the control criterion for Continuing Calibration Verification (CCV). In accordance with the EPA Method, 80% or more of the CCV analytes must pass within 20% of the true value. The ALS SOP allows for 40% difference for the remaining analytes. The CCV met these criteria. The quality of the sample data was not significantly affected. No further corrective action was required.

Method ALS SOP, 09/08/2022: The recovery of many in Lab Control Sample were outside the control limits listed in the results summary. The limits are default values temporarily in use until sufficient data points are generated to calculate statistical control limits. Based on the method and historic data, the recoveries observed were in the range expected for this procedure. No further corrective action was taken.

Method ALS SOP, 09/08/2022: The recovery of Diazinon-d10 in samples and some QC was outside the control limits listed in the results summary. The limits are default values temporarily in use until sufficient data points are generated to calculate statistical control limits. Based on the method and historic data, the recoveries observed were in the range expected for this procedure. No further corrective action was taken.

Semivolatile GC:

Method 8081B, 09/20/2022: The upper control criterion was exceeded for multiple analytes in Laboratory Control Sample (LCS). The error associated with elevated recovery indicated a potential high bias. No further corrective action was taken because insufficient sample holding time remained for testing.

Method 8081B, 09/20/2022: The upper control criterion was exceeded for surrogates in some samples. The error associated with elevated recovery indicated a potential high bias. No further corrective action was taken because insufficient sample holding time remained for testing.

Method 8081B, 09/20/2022: The analysis of 8081B requires the use of dual column confirmation. The primary evaluation criteria were not met on the confirmation column for multiple analytes. The results were reported from the column with an acceptable CCV or reran. The data quality was not significantly affected. No further corrective action was taken.

Method 8151A, 10/13/2022: The upper control criterion was exceeded for 2,4-DB and 2,4,5-T in Continuing Calibration Verification (CCV) KQ2217836-01 and KQ2217836-03. The field samples analyzed in this sequence did not contain the analytes in question at concentrations above the MRL. Since the apparent problem indicated a potential high bias, the data quality was not affected. No further corrective action was required.

Metals:

Method 6020A, 09/02/2022: The Relative Percent Difference (RPD) for the replicate analysis of Barium and Cobalt in sample DU1-0-6 was outside the normal ALS control limits. The variability in the results was attributed to the heterogeneous character of the sample. Standard mixing techniques were used, but were not sufficient for complete homogenization of this sample.

Method 6020A, 09/02/2022: Antimony recoveries are generally low for soil and sediment samples when digested using EPA Method 3050B. Despite anticipated low recoveries, the method is still generally prescribed because of its versatility for general

Approved by



Date

10/19/2022



metals analysis. Antimony results (in conjunction with the matrix spike recovery) from this procedure should only be used as indicators to estimate concentrations. The matrix spike recovery of Antimony for sample DU1-0-6 was below the ALS control criterion. Since low recoveries resulted from a method defect and were possibly magnified by certain matrix components, no corrective action was appropriate. Alternative procedures that specifically target Antimony are available but were not specified for this project. The associated QA/QC results (e.g. control sample, calibration standards, etc.) indicated the analysis was in control.

SMO:

No significant anomalies were noted with this analysis.

Approved by 

Date 10/19/2022



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: DU1-0-6 **Lab ID: K2209382-001**

Analyte	Results	Flag	MDL	MRL	Units	Method
2,4,5-T	4.2	JP	4.2	52	ug/Kg	8151A
2,4,5-TP (Silvex)	6.6	JP	2.5	52	ug/Kg	8151A
2,4-D	18	J	8.0	52	ug/Kg	8151A
4,4'-DDE	4.8		0.40	1.0	ug/Kg	8081B
Antimony	0.206		0.021	0.051	mg/Kg	6020A
Arsenic	6.44		0.06	0.51	mg/Kg	6020A
Barium	169		0.021	0.051	mg/Kg	6020A
Beryllium	0.474		0.006	0.021	mg/Kg	6020A
Cadmium	0.148		0.007	0.021	mg/Kg	6020A
Chromium	44.1		0.06	0.21	mg/Kg	6020A
Cobalt	27.9		0.006	0.021	mg/Kg	6020A
Copper	53.7		0.04	0.10	mg/Kg	6020A
Dieldrin	1.5		0.22	0.75	ug/Kg	8081B
Lead	22.5		0.021	0.051	mg/Kg	6020A
MCPA	7700		330	5200	ug/Kg	8151A
Mercury	0.036		0.002	0.020	mg/Kg	7471B
Molybdenum	0.407		0.021	0.051	mg/Kg	6020A
Nickel	29.7		0.03	0.21	mg/Kg	6020A
Ronnel	1.8	J	1.7	5.2	ug/Kg	ALS SOP
Selenium	0.1	J	0.09	1.0	mg/Kg	6020A
Silver	0.045		0.004	0.021	mg/Kg	6020A
Solids, Total	95.0				Percent	160.3 Modified
Thallium	0.094		0.004	0.021	mg/Kg	6020A
trans-Chlordane	0.46	JP	0.38	1.0	ug/Kg	8081B
Trichloronate	2.1	J	1.9	5.2	ug/Kg	ALS SOP
Vanadium	74.6		0.03	0.41	mg/Kg	6020A
Zinc	82.7		0.21	0.51	mg/Kg	6020A

CLIENT ID: DU2-0-6 **Lab ID: K2209382-006**

Analyte	Results	Flag	MDL	MRL	Units	Method
2,4,5-T	4.3	JP	4.2	52	ug/Kg	8151A
2,4,5-TP (Silvex)	6.3	J	2.5	52	ug/Kg	8151A
2,4-D	15	J	8.0	52	ug/Kg	8151A
4,4'-DDE	2.8	P	0.40	1.0	ug/Kg	8081B
4,4'-DDT	6.0	P	0.61	2.0	ug/Kg	8081B
Antimony	0.222		0.021	0.052	mg/Kg	6020A
Arsenic	7.13		0.06	0.52	mg/Kg	6020A
Barium	219		0.021	0.052	mg/Kg	6020A
Beryllium	0.470		0.006	0.021	mg/Kg	6020A
Cadmium	0.197		0.007	0.021	mg/Kg	6020A
Chromium	37.4		0.06	0.21	mg/Kg	6020A



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: DU2-0-6 **Lab ID: K2209382-006**

Analyte	Results	Flag	MDL	MRL	Units	Method
cis-Chlordane	0.59	JP	0.41	1.0	ug/Kg	8081B
Cobalt	30.9		0.006	0.021	mg/Kg	6020A
Copper	54.1		0.04	0.10	mg/Kg	6020A
Lead	26.2		0.021	0.052	mg/Kg	6020A
MCPA	4300	JP	340	5200	ug/Kg	8151A
Mercury	0.088		0.002	0.021	mg/Kg	7471B
Molybdenum	0.491		0.021	0.052	mg/Kg	6020A
Nickel	27.8		0.03	0.21	mg/Kg	6020A
Selenium	0.1	J	0.09	1.0	mg/Kg	6020A
Silver	0.043		0.004	0.021	mg/Kg	6020A
Solids, Total	96.4				Percent	160.3 Modified
Thallium	0.152		0.004	0.021	mg/Kg	6020A
trans-Chlordane	0.45	J	0.38	1.0	ug/Kg	8081B
Vanadium	83.8		0.03	0.41	mg/Kg	6020A
Zinc	98.3		0.21	0.52	mg/Kg	6020A

CLIENT ID: DU3-0-6 **Lab ID: K2209382-011**

Analyte	Results	Flag	MDL	MRL	Units	Method
2,4,5-TP (Silvex)	5.5	J	2.6	52	ug/Kg	8151A
4,4'-DDD	33		0.60	2.0	ug/Kg	8081B
4,4'-DDE	140		2.0	5.0	ug/Kg	8081B
4,4'-DDT	130		3.1	10	ug/Kg	8081B
Antimony	0.329		0.019	0.047	mg/Kg	6020A
Arsenic	8.07		0.06	0.47	mg/Kg	6020A
Barium	128		0.019	0.047	mg/Kg	6020A
Beryllium	0.407		0.006	0.019	mg/Kg	6020A
Cadmium	0.266		0.007	0.019	mg/Kg	6020A
Chlordane	180		4.8	10	ug/Kg	8081B
Chromium	38.6		0.06	0.19	mg/Kg	6020A
cis-Chlordane	22		0.41	1.0	ug/Kg	8081B
Cobalt	18.5		0.006	0.019	mg/Kg	6020A
Copper	55.2		0.038	0.095	mg/Kg	6020A
Dieldrin	27		0.22	0.87	ug/Kg	8081B
Endrin Ketone	0.66	JP	0.45	1.0	ug/Kg	8081B
Heptachlor Epoxide	1.5	J	0.66	2.0	ug/Kg	8081B
Lead	79.7		0.019	0.047	mg/Kg	6020A
MCPA	3500	JP	340	5200	ug/Kg	8151A
Mercury	0.135		0.002	0.016	mg/Kg	7471B
Molybdenum	0.443		0.019	0.047	mg/Kg	6020A
Nickel	23.0		0.03	0.19	mg/Kg	6020A
Selenium	0.13	J	0.09	0.95	mg/Kg	6020A



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: DU3-0-6	Lab ID: K2209382-011
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Analyte	Results	Flag	MDL	MRL	Units	Method
Silver	0.167		0.004	0.019	mg/Kg	6020A
Solids, Total	95.5				Percent	160.3 Modified
Thallium	0.077		0.004	0.019	mg/Kg	6020A
trans-Chlordane	19		0.38	1.0	ug/Kg	8081B
Vanadium	68.1		0.03	0.38	mg/Kg	6020A
Zinc	98.7		0.19	0.47	mg/Kg	6020A

CLIENT ID: DU1-6-12	Lab ID: K2209382-002
----------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDD	2.5		0.61	2.0	ug/Kg	8081B
4,4'-DDE	12		0.41	1.0	ug/Kg	8081B
4,4'-DDT	6.7	P	0.62	2.0	ug/Kg	8081B
Chlordane	17		4.9	10	ug/Kg	8081B
cis-Chlordane	1.3		0.42	1.0	ug/Kg	8081B
Dieldrin	2.8		0.23	1.0	ug/Kg	8081B
Methoxychlor	27		0.72	2.0	ug/Kg	8081B
Solids, Total	95.0				Percent	160.3 Modified
trans-Chlordane	1.5		0.39	1.0	ug/Kg	8081B

CLIENT ID: DU2-6-12	Lab ID: K2209382-007
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Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDD	5.4	P	0.60	2.0	ug/Kg	8081B
4,4'-DDE	21		0.40	1.0	ug/Kg	8081B
4,4'-DDT	64		3.1	10	ug/Kg	8081B
beta-BHC	1.3	P	0.27	1.0	ug/Kg	8081B
Chlordane	39		4.8	10	ug/Kg	8081B
cis-Chlordane	3.1		0.41	1.0	ug/Kg	8081B
Dieldrin	2.7		0.22	0.89	ug/Kg	8081B
Solids, Total	93.2				Percent	160.3 Modified
trans-Chlordane	2.7		0.38	1.0	ug/Kg	8081B

CLIENT ID: DU2-12-18	Lab ID: K2209382-008
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Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDD	8.2		0.60	2.0	ug/Kg	8081B
4,4'-DDE	73		4.0	10	ug/Kg	8081B
4,4'-DDT	190	P	6.1	20	ug/Kg	8081B
alpha-BHC	0.36	J	0.29	1.0	ug/Kg	8081B
Chlordane	35		4.8	10	ug/Kg	8081B
cis-Chlordane	2.0		0.41	1.0	ug/Kg	8081B
Dieldrin	4.3	P	0.22	0.81	ug/Kg	8081B
Solids, Total	92.7				Percent	160.3 Modified
trans-Chlordane	2.5		0.38	1.0	ug/Kg	8081B



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: DU2-12-18 **Lab ID: K2209382-008**

Analyte	Results	Flag	MDL	MRL	Units	Method
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CLIENT ID: DU3-6-12 **Lab ID: K2209382-012**

Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDD	190	JP	62	210	ug/Kg	8081B
4,4'-DDE	300		42	100	ug/Kg	8081B
4,4'-DDT	5400		130	410	ug/Kg	8081B
Chlordane	93	P	5.0	10	ug/Kg	8081B
cis-Chlordane	13		0.43	1.0	ug/Kg	8081B
Dieldrin	93	J	23	100	ug/Kg	8081B
Endrin Ketone	1.8		0.47	1.0	ug/Kg	8081B
Heptachlor Epoxide	1.3	JP	0.69	2.1	ug/Kg	8081B
Solids, Total	95.5				Percent	160.3 Modified
trans-Chlordane	10		0.40	1.0	ug/Kg	8081B

CLIENT ID: DU3-12-18 **Lab ID: K2209382-013**

Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDD	19		0.60	2.0	ug/Kg	8081B
4,4'-DDE	17		2.0	5.0	ug/Kg	8081B
4,4'-DDT	75		3.1	10	ug/Kg	8081B
Chlordane	14	P	4.8	10	ug/Kg	8081B
cis-Chlordane	1.8		0.41	1.0	ug/Kg	8081B
Dieldrin	2.5	P	0.22	0.92	ug/Kg	8081B
Solids, Total	95.6				Percent	160.3 Modified
trans-Chlordane	2.2		0.38	1.0	ug/Kg	8081B

CLIENT ID: DU3-18-24 **Lab ID: K2209382-014**

Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDD	8.0		0.60	2.0	ug/Kg	8081B
4,4'-DDE	16		0.40	1.0	ug/Kg	8081B
4,4'-DDT	88	P	3.1	10	ug/Kg	8081B
Chlordane	12		4.8	10	ug/Kg	8081B
cis-Chlordane	0.58	J	0.41	1.0	ug/Kg	8081B
Solids, Total	93.7				Percent	160.3 Modified
trans-Chlordane	0.76	J	0.38	1.0	ug/Kg	8081B

CLIENT ID: DU3-24-36 **Lab ID: K2209382-015**

Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDD	3.2	P	0.60	2.0	ug/Kg	8081B
4,4'-DDE	6.1		0.40	1.0	ug/Kg	8081B
4,4'-DDT	69	P	1.3	4.0	ug/Kg	8081B
Dieldrin	0.86	J	0.22	0.99	ug/Kg	8081B
Solids, Total	94.1				Percent	160.3 Modified



SAMPLE DETECTION SUMMARY

This form includes only detections above the reporting levels. For a full listing of sample results, continue to the Sample Results section of this Report.

CLIENT ID: DU1-12-18 **Lab ID: K2209382-003**

Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDE	1.4		0.40	1.0	ug/Kg	8081B
Solids, Total	94.8				Percent	160.3 Modified

CLIENT ID: DU2-18-24 **Lab ID: K2209382-009**

Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDE	4.7		0.40	1.0	ug/Kg	8081B
Solids, Total	93.4				Percent	160.3 Modified

CLIENT ID: DU2-24-36 **Lab ID: K2209382-010**

Analyte	Results	Flag	MDL	MRL	Units	Method
4,4'-DDE	1.9		0.40	1.0	ug/Kg	8081B
Solids, Total	91.5				Percent	160.3 Modified

CLIENT ID: DU1-18-24 **Lab ID: K2209382-004**

Analyte	Results	Flag	MDL	MRL	Units	Method
beta-BHC	0.74	JP	0.27	1.0	ug/Kg	8081B
Solids, Total	94.0				Percent	160.3 Modified

CLIENT ID: DU1-24-36 **Lab ID: K2209382-005**

Analyte	Results	Flag	MDL	MRL	Units	Method
Solids, Total	94.3				Percent	160.3 Modified



Sample Receipt Information

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II

Service Request:K2209382

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
K2209382-001	DU1-0-6	8/13/2022	1500
K2209382-002	DU1-6-12	8/13/2022	1510
K2209382-003	DU1-12-18	8/13/2022	1520
K2209382-004	DU1-18-24	8/13/2022	1530
K2209382-005	DU1-24-36	8/13/2022	1540
K2209382-006	DU2-0-6	8/13/2022	1000
K2209382-007	DU2-6-12	8/13/2022	1010
K2209382-008	DU2-12-18	8/13/2022	1020
K2209382-009	DU2-18-24	8/13/2022	1030
K2209382-010	DU2-24-36	8/13/2022	1040
K2209382-011	DU3-0-6	8/13/2022	1300
K2209382-012	DU3-6-12	8/13/2022	1310
K2209382-013	DU3-12-18	8/13/2022	1320
K2209382-014	DU3-18-24	8/13/2022	1330
K2209382-015	DU3-24-36	8/13/2022	1340



Miscellaneous Forms

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
 - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjllabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II/

Service Request: K2209382

Sample Name: DU1-0-6
Lab Code: K2209382-001
Sample Matrix: Soil

Date Collected: 08/13/22
Date Received: 08/16/22

Analysis Method	Extracted/Digested By	Analyzed By
160.3 Modified		DHIDDEN
6020A	KLINN	JCHAN
7471B	JHINSON	JHINSON
8081B	TRICKMAN	MJONES
8151A	GTRIGG	JCARBAJAL
ALS SOP	TRICKMAN	EBRUNO

Sample Name: DU1-6-12
Lab Code: K2209382-002
Sample Matrix: Soil

Date Collected: 08/13/22
Date Received: 08/16/22

Analysis Method	Extracted/Digested By	Analyzed By
160.3 Modified		DHIDDEN
8081B	TRICKMAN	MJONES

Sample Name: DU1-12-18
Lab Code: K2209382-003
Sample Matrix: Soil

Date Collected: 08/13/22
Date Received: 08/16/22

Analysis Method	Extracted/Digested By	Analyzed By
160.3 Modified		DHIDDEN
8081B	TRICKMAN	MJONES

Sample Name: DU1-18-24
Lab Code: K2209382-004
Sample Matrix: Soil

Date Collected: 08/13/22
Date Received: 08/16/22

Analysis Method	Extracted/Digested By	Analyzed By
160.3 Modified		DHIDDEN
8081B	TRICKMAN	MJONES

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II/

Service Request: K2209382

Sample Name: DU1-24-36
Lab Code: K2209382-005
Sample Matrix: Soil

Date Collected: 08/13/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
8081B

Extracted/Digested By

TRICKMAN

Analyzed By
DHIDDEN
MJONES

Sample Name: DU2-0-6
Lab Code: K2209382-006
Sample Matrix: Soil

Date Collected: 08/13/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
6020A
7471B
8081B
8151A

Extracted/Digested By

KLINN
JHINSON
TRICKMAN
GTRIGG

Analyzed By
DHIDDEN
JCHAN
JHINSON
MJONES
JCARBAJAL

ALS SOP

TRICKMAN

EBRUNO

Sample Name: DU2-6-12
Lab Code: K2209382-007
Sample Matrix: Soil

Date Collected: 08/13/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
8081B

Extracted/Digested By

TRICKMAN

Analyzed By
DHIDDEN
MJONES

Sample Name: DU2-6-12
Lab Code: K2209382-007.R01
Sample Matrix: Soil

Date Collected: 08/13/22
Date Received: 08/16/22

Analysis Method
8081B

Extracted/Digested By
TRICKMAN

Analyzed By
MJONES

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II/

Service Request: K2209382

Sample Name: DU2-12-18
Lab Code: K2209382-008
Sample Matrix: Soil

Date Collected: 08/13/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
8081B

Extracted/Digested By

TRICKMAN

Analyzed By
DHIDDEN
MJONES

Sample Name: DU2-12-18
Lab Code: K2209382-008.R01
Sample Matrix: Soil

Date Collected: 08/13/22
Date Received: 08/16/22

Analysis Method
8081B

Extracted/Digested By
TRICKMAN

Analyzed By
MJONES

Sample Name: DU2-18-24
Lab Code: K2209382-009
Sample Matrix: Soil

Date Collected: 08/13/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
8081B

Extracted/Digested By

TRICKMAN

Analyzed By
DHIDDEN
MJONES

Sample Name: DU2-24-36
Lab Code: K2209382-010
Sample Matrix: Soil

Date Collected: 08/13/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
8081B

Extracted/Digested By

TRICKMAN

Analyzed By
DHIDDEN
MJONES

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II/

Service Request: K2209382

Sample Name: DU3-0-6
Lab Code: K2209382-011
Sample Matrix: Soil

Date Collected: 08/13/22
Date Received: 08/16/22

Analysis Method	Extracted/Digested By	Analyzed By
160.3 Modified		DHIDDEN
6020A	KLINN	JCHAN
7471B	JHINSON	JHINSON
8081B	TRICKMAN	MJONES
8151A	GTRIGG	JCARBAJAL
ALS SOP	TRICKMAN	EBRUNO

Sample Name: DU3-0-6
Lab Code: K2209382-011.R01
Sample Matrix: Soil

Date Collected: 08/13/22
Date Received: 08/16/22

Analysis Method	Extracted/Digested By	Analyzed By
8081B	TRICKMAN	MJONES

Sample Name: DU3-6-12
Lab Code: K2209382-012
Sample Matrix: Soil

Date Collected: 08/13/22
Date Received: 08/16/22

Analysis Method	Extracted/Digested By	Analyzed By
160.3 Modified		DHIDDEN
8081B	TRICKMAN	MJONES

Sample Name: DU3-6-12
Lab Code: K2209382-012.R01
Sample Matrix: Soil

Date Collected: 08/13/22
Date Received: 08/16/22

Analysis Method	Extracted/Digested By	Analyzed By
8081B	TRICKMAN	MJONES

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II/

Service Request: K2209382

Sample Name: DU3-6-12
Lab Code: K2209382-012.R02
Sample Matrix: Soil

Date Collected: 08/13/22
Date Received: 08/16/22

Analysis Method
8081B

Extracted/Digested By
TRICKMAN

Analyzed By
MJONES

Sample Name: DU3-12-18
Lab Code: K2209382-013
Sample Matrix: Soil

Date Collected: 08/13/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
8081B

Extracted/Digested By
TRICKMAN

Analyzed By
DHIDDEN
MJONES

Sample Name: DU3-12-18
Lab Code: K2209382-013.R01
Sample Matrix: Soil

Date Collected: 08/13/22
Date Received: 08/16/22

Analysis Method
8081B

Extracted/Digested By
TRICKMAN

Analyzed By
MJONES

Sample Name: DU3-18-24
Lab Code: K2209382-014
Sample Matrix: Soil

Date Collected: 08/13/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
8081B

Extracted/Digested By
TRICKMAN

Analyzed By
DHIDDEN
MJONES

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II/

Service Request: K2209382

Sample Name: DU3-18-24
Lab Code: K2209382-014.R01
Sample Matrix: Soil

Date Collected: 08/13/22
Date Received: 08/16/22

Analysis Method
8081B

Extracted/Digested By
TRICKMAN

Analyzed By
MJONES

Sample Name: DU3-24-36
Lab Code: K2209382-015
Sample Matrix: Soil

Date Collected: 08/13/22
Date Received: 08/16/22

Analysis Method
160.3 Modified
8081B

Extracted/Digested By
TRICKMAN

Analyzed By
DHIDDEN
MJONES

Sample Name: DU3-24-36
Lab Code: K2209382-015.R01
Sample Matrix: Soil

Date Collected: 08/13/22
Date Received: 08/16/22

Analysis Method
8081B

Extracted/Digested By
TRICKMAN

Analyzed By
MJONES



Sample Results

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com



Semivolatile Organic Compounds by GC/MS

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: 08/13/22 15:00
Date Received: 08/16/22 09:35

Sample Name: DU1-0-6
Lab Code: K2209382-001

Units: ug/Kg
Basis: Dry

Organophosphorus Pesticides by GC/MS/MS

Analysis Method: ALS SOP
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Azinphos-methyl	ND U	10	4.3	1	09/08/22 02:02	8/24/22	
Bolstar (Sulprofos)	ND U	5.2	2.9	1	09/08/22 02:02	8/24/22	
Chlorpyrifos	ND U	5.2	1.9	1	09/08/22 02:02	8/24/22	
Coumaphos	ND U	10	4.0	1	09/08/22 02:02	8/24/22	
Demeton-O,S	ND U	5.2	2.3	1	09/08/22 02:02	8/24/22	
Diazinon	ND U	5.2	3.0	1	09/08/22 02:02	8/24/22	
Dichlorvos	ND U	10	4.6	1	09/08/22 02:02	8/24/22	
Dimethoate	ND U	5.2	4.1	1	09/08/22 02:02	8/24/22	*
Disulfoton	ND U	5.2	0.85	1	09/08/22 02:02	8/24/22	
EPN	ND U	10	4.5	1	09/08/22 02:02	8/24/22	
Ethoprop (Prophos)	ND U	5.2	2.0	1	09/08/22 02:02	8/24/22	*
Ethyl Parathion	ND U	5.2	2.0	1	09/08/22 02:02	8/24/22	
Fensulfothion	ND U	10	7.4	1	09/08/22 02:02	8/24/22	
Fenthion	ND U	5.2	1.9	1	09/08/22 02:02	8/24/22	
Malathion	ND U	5.2	2.1	1	09/08/22 02:02	8/24/22	
Merphos, Total	ND U	10	2.8	1	09/08/22 02:02	8/24/22	*
Methyl Parathion	ND U	5.2	2.7	1	09/08/22 02:02	8/24/22	
Mevinphos	ND U	10	4.6	1	09/08/22 02:02	8/24/22	
Monocrotophos	ND U	21	-	1	09/08/22 02:02	8/24/22	*
Naled (Dibrom)	ND U	5.2	1.5	1	09/08/22 02:02	8/24/22	*
Phorate	ND U	5.2	2.3	1	09/08/22 02:02	8/24/22	*
Ronnel	1.8 J	5.2	1.7	1	09/08/22 02:02	8/24/22	
Stirophos	ND U	5.2	3.1	1	09/08/22 02:02	8/24/22	
Sulfotep	ND U	5.2	2.4	1	09/08/22 02:02	8/24/22	*
Tokuthion	ND U	5.2	2.5	1	09/08/22 02:02	8/24/22	
Trichloronate	2.1 J	5.2	1.9	1	09/08/22 02:02	8/24/22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Chlorpyrifos-d10	112	70 - 130	09/08/22 02:02	
Diazinon-d10	32	70 - 130	09/08/22 02:02	*

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: 08/13/22 10:00
Date Received: 08/16/22 09:35

Sample Name: DU2-0-6
Lab Code: K2209382-006

Units: ug/Kg
Basis: Dry

Organophosphorus Pesticides by GC/MS/MS

Analysis Method: ALS SOP
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Azinphos-methyl	ND U	10	4.3	1	09/08/22 02:30	8/24/22	
Bolstar (Sulprofos)	ND U	5.1	2.9	1	09/08/22 02:30	8/24/22	
Chlorpyrifos	ND U	5.1	1.9	1	09/08/22 02:30	8/24/22	
Coumaphos	ND U	10	4.0	1	09/08/22 02:30	8/24/22	
Demeton-O,S	ND U	5.1	2.3	1	09/08/22 02:30	8/24/22	
Diazinon	ND U	5.1	3.0	1	09/08/22 02:30	8/24/22	
Dichlorvos	ND U	10	4.6	1	09/08/22 02:30	8/24/22	
Dimethoate	ND U	5.1	4.1	1	09/08/22 02:30	8/24/22	*
Disulfoton	ND U	5.1	0.84	1	09/08/22 02:30	8/24/22	
EPN	ND U	10	4.5	1	09/08/22 02:30	8/24/22	
Ethoprop (Prophos)	ND U	5.1	1.9	1	09/08/22 02:30	8/24/22	*
Ethyl Parathion	ND U	5.1	2.0	1	09/08/22 02:30	8/24/22	
Fensulfothion	ND U	10	7.3	1	09/08/22 02:30	8/24/22	
Fenthion	ND U	5.1	1.9	1	09/08/22 02:30	8/24/22	
Malathion	ND U	5.1	2.1	1	09/08/22 02:30	8/24/22	
Merphos, Total	ND U	10	2.8	1	09/08/22 02:30	8/24/22	*
Methyl Parathion	ND U	5.1	2.7	1	09/08/22 02:30	8/24/22	
Mevinphos	ND U	10	4.6	1	09/08/22 02:30	8/24/22	
Monocrotophos	ND U	21	-	1	09/08/22 02:30	8/24/22	*
Naled (Dibrom)	ND U	5.1	1.5	1	09/08/22 02:30	8/24/22	*
Phorate	ND U	5.1	2.3	1	09/08/22 02:30	8/24/22	*
Ronnel	ND U	5.1	1.7	1	09/08/22 02:30	8/24/22	
Stirophos	ND U	5.1	3.1	1	09/08/22 02:30	8/24/22	
Sulfotep	ND U	5.1	2.4	1	09/08/22 02:30	8/24/22	*
Tokuthion	ND U	5.1	2.5	1	09/08/22 02:30	8/24/22	
Trichloronate	ND U	5.1	1.9	1	09/08/22 02:30	8/24/22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Chlorpyrifos-d10	116	70 - 130	09/08/22 02:30	
Diazinon-d10	44	70 - 130	09/08/22 02:30	*

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dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: 08/13/22 13:00
Date Received: 08/16/22 09:35

Sample Name: DU3-0-6
Lab Code: K2209382-011

Units: ug/Kg
Basis: Dry

Organophosphorus Pesticides by GC/MS/MS

Analysis Method: ALS SOP
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Azinphos-methyl	ND U	10	4.3	1	09/08/22 02:57	8/24/22	
Bolstar (Sulprofos)	ND U	5.2	2.9	1	09/08/22 02:57	8/24/22	
Chlorpyrifos	ND U	5.2	1.9	1	09/08/22 02:57	8/24/22	
Coumaphos	ND U	10	4.0	1	09/08/22 02:57	8/24/22	
Demeton-O,S	ND U	5.2	2.3	1	09/08/22 02:57	8/24/22	
Diazinon	ND U	5.2	3.0	1	09/08/22 02:57	8/24/22	
Dichlorvos	ND U	10	4.7	1	09/08/22 02:57	8/24/22	
Dimethoate	ND U	5.2	4.2	1	09/08/22 02:57	8/24/22	*
Disulfoton	ND U	5.2	0.85	1	09/08/22 02:57	8/24/22	
EPN	ND U	10	4.5	1	09/08/22 02:57	8/24/22	
Ethoprop (Prophos)	ND U	5.2	2.0	1	09/08/22 02:57	8/24/22	*
Ethyl Parathion	ND U	5.2	2.0	1	09/08/22 02:57	8/24/22	
Fensulfothion	ND U	10	7.4	1	09/08/22 02:57	8/24/22	
Fenthion	ND U	5.2	1.9	1	09/08/22 02:57	8/24/22	
Malathion	ND U	5.2	2.1	1	09/08/22 02:57	8/24/22	
Merphos, Total	ND U	10	2.8	1	09/08/22 02:57	8/24/22	*
Methyl Parathion	ND U	5.2	2.7	1	09/08/22 02:57	8/24/22	
Mevinphos	ND U	10	4.6	1	09/08/22 02:57	8/24/22	
Monocrotophos	ND U	21	-	1	09/08/22 02:57	8/24/22	*
Naled (Dibrom)	ND U	5.2	1.5	1	09/08/22 02:57	8/24/22	*
Phorate	ND U	5.2	2.3	1	09/08/22 02:57	8/24/22	*
Ronnel	ND U	5.2	1.7	1	09/08/22 02:57	8/24/22	
Stirophos	ND U	5.2	3.2	1	09/08/22 02:57	8/24/22	
Sulfotep	ND U	5.2	2.4	1	09/08/22 02:57	8/24/22	*
Tokuthion	ND U	5.2	2.5	1	09/08/22 02:57	8/24/22	
Trichloronate	ND U	5.2	1.9	1	09/08/22 02:57	8/24/22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Chlorpyrifos-d10	116	70 - 130	09/08/22 02:57	
Diazinon-d10	37	70 - 130	09/08/22 02:57	*



Semivolatile Organic Compounds by GC

ALS Environmental—Kelso Laboratory
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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: 08/13/22 15:00
Date Received: 08/16/22 09:35

Sample Name: DU1-0-6
Lab Code: K2209382-001

Units: ug/Kg
Basis: Dry

Low Level Organochlorine Pesticides by GC

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aldrin	ND U	2.0	0.59	1	09/20/22 09:35	8/31/22	*
alpha-BHC	ND U	1.0	0.29	1	09/20/22 09:35	8/31/22	*
beta-BHC	ND U	1.0	0.27	1	09/20/22 09:35	8/31/22	*
delta-BHC	ND U	1.0	0.28	1	09/20/22 09:35	8/31/22	*
gamma-BHC (Lindane)	ND U	1.0	0.31	1	09/20/22 09:35	8/31/22	*
Chlordane	ND U	10	4.8	1	09/20/22 09:35	8/31/22	*
cis-Chlordane	ND U	1.0	0.41	1	09/20/22 09:35	8/31/22	*
trans-Chlordane	0.46 JP	1.0	0.38	1	09/20/22 09:35	8/31/22	*
4,4'-DDD	ND U	2.0	0.60	1	09/20/22 09:35	8/31/22	*
4,4'-DDE	4.8	1.0	0.40	1	09/20/22 09:35	8/31/22	*
4,4'-DDT	ND U	2.0	0.61	1	09/20/22 09:35	8/31/22	*
Dieldrin	1.5	0.75	0.22	1	09/20/22 09:35	8/31/22	*
Endosulfan I	ND U	1.0	0.37	1	09/20/22 09:35	8/31/22	*
Endosulfan II	ND U	2.0	0.69	1	09/20/22 09:35	8/31/22	*
Endosulfan Sulfate	ND U	2.0	0.99	1	09/20/22 09:35	8/31/22	*
Endrin	ND U	1.0	0.32	1	09/20/22 09:35	8/31/22	*
Endrin Aldehyde	ND U	2.0	0.89	1	09/20/22 09:35	8/31/22	*
Endrin Ketone	ND U	1.0	0.45	1	09/20/22 09:35	8/31/22	*
Heptachlor	ND U	1.0	0.39	1	09/20/22 09:35	8/31/22	*
Heptachlor Epoxide	ND U	2.0	0.66	1	09/20/22 09:35	8/31/22	*
Methoxychlor	ND U	2.0	0.71	1	09/20/22 09:35	8/31/22	*
Toxaphene	ND U	100	34	1	09/20/22 09:35	8/31/22	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	92	10 - 134	09/20/22 09:35	
Tetrachloro-m-xylene	95	10 - 121	09/20/22 09:35	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: 08/13/22 15:10
Date Received: 08/16/22 09:35

Sample Name: DU1-6-12
Lab Code: K2209382-002

Units: ug/Kg
Basis: Dry

Low Level Organochlorine Pesticides by GC

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aldrin	ND U	2.0	0.60	1	09/20/22 10:16	8/31/22	*
alpha-BHC	ND U	1.0	0.30	1	09/20/22 10:16	8/31/22	*
beta-BHC	ND U _i	1.8	1.8	1	09/20/22 10:16	8/31/22	*
delta-BHC	ND U	1.0	0.29	1	09/20/22 10:16	8/31/22	*
gamma-BHC (Lindane)	ND U	1.0	0.32	1	09/20/22 10:16	8/31/22	*
Chlordane	17	10	4.9	1	09/20/22 10:16	8/31/22	*
cis-Chlordane	1.3	1.0	0.42	1	09/20/22 10:16	8/31/22	*
trans-Chlordane	1.5	1.0	0.39	1	09/20/22 10:16	8/31/22	*
4,4'-DDD	2.5	2.0	0.61	1	09/20/22 10:16	8/31/22	*
4,4'-DDE	12	1.0	0.41	1	09/20/22 10:16	8/31/22	*
4,4'-DDT	6.7 P	2.0	0.62	1	09/20/22 10:16	8/31/22	*
Dieldrin	2.8	1.0	0.23	1	09/20/22 10:16	8/31/22	*
Endosulfan I	ND U	1.0	0.38	1	09/20/22 10:16	8/31/22	*
Endosulfan II	ND U	2.0	0.70	1	09/20/22 10:16	8/31/22	*
Endosulfan Sulfate	ND U	2.0	1.1	1	09/20/22 10:16	8/31/22	*
Endrin	ND U _i	1.6	1.6	1	09/20/22 10:16	8/31/22	*
Endrin Aldehyde	ND U	2.0	0.90	1	09/20/22 10:16	8/31/22	*
Endrin Ketone	ND U	1.0	0.46	1	09/20/22 10:16	8/31/22	*
Heptachlor	ND U	1.0	0.40	1	09/20/22 10:16	8/31/22	*
Heptachlor Epoxide	ND U	2.0	0.67	1	09/20/22 10:16	8/31/22	*
Methoxychlor	27	2.0	0.72	1	09/20/22 10:16	8/31/22	*
Toxaphene	ND U	100	35	1	09/20/22 10:16	8/31/22	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	89	10 - 134	09/20/22 10:16	
Tetrachloro-m-xylene	92	10 - 121	09/20/22 10:16	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: 08/13/22 15:20
Date Received: 08/16/22 09:35

Sample Name: DU1-12-18
Lab Code: K2209382-003

Units: ug/Kg
Basis: Dry

Low Level Organochlorine Pesticides by GC

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aldrin	ND U	2.0	0.59	1	09/20/22 10:56	8/31/22	*
alpha-BHC	ND U	1.0	0.29	1	09/20/22 10:56	8/31/22	*
beta-BHC	ND U	1.0	0.27	1	09/20/22 10:56	8/31/22	*
delta-BHC	ND U	1.0	0.28	1	09/20/22 10:56	8/31/22	*
gamma-BHC (Lindane)	ND U	1.0	0.31	1	09/20/22 10:56	8/31/22	*
Chlordane	ND U	10	4.8	1	09/20/22 10:56	8/31/22	*
cis-Chlordane	ND U	1.0	0.41	1	09/20/22 10:56	8/31/22	*
trans-Chlordane	ND U	1.0	0.38	1	09/20/22 10:56	8/31/22	*
4,4'-DDD	ND U	2.0	0.60	1	09/20/22 10:56	8/31/22	*
4,4'-DDE	1.4	1.0	0.40	1	09/20/22 10:56	8/31/22	*
4,4'-DDT	ND U	2.0	0.61	1	09/20/22 10:56	8/31/22	*
Dieldrin	ND U	0.84	0.22	1	09/20/22 10:56	8/31/22	*
Endosulfan I	ND U	1.0	0.37	1	09/20/22 10:56	8/31/22	*
Endosulfan II	ND U	2.0	0.69	1	09/20/22 10:56	8/31/22	*
Endosulfan Sulfate	ND U	2.0	0.99	1	09/20/22 10:56	8/31/22	*
Endrin	ND U	1.0	0.32	1	09/20/22 10:56	8/31/22	*
Endrin Aldehyde	ND U	2.0	0.89	1	09/20/22 10:56	8/31/22	*
Endrin Ketone	ND U	1.0	0.45	1	09/20/22 10:56	8/31/22	*
Heptachlor	ND U	1.0	0.39	1	09/20/22 10:56	8/31/22	*
Heptachlor Epoxide	ND U	2.0	0.66	1	09/20/22 10:56	8/31/22	*
Methoxychlor	ND U	2.0	0.71	1	09/20/22 10:56	8/31/22	*
Toxaphene	ND U	100	34	1	09/20/22 10:56	8/31/22	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	93	10 - 134	09/20/22 10:56	
Tetrachloro-m-xylene	99	10 - 121	09/20/22 10:56	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: 08/13/22 15:30
Date Received: 08/16/22 09:35

Sample Name: DU1-18-24
Lab Code: K2209382-004

Units: ug/Kg
Basis: Dry

Low Level Organochlorine Pesticides by GC

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aldrin	ND U	2.0	0.59	1	10/02/22 22:33	8/31/22	*
alpha-BHC	ND U	1.0	0.29	1	10/02/22 22:33	8/31/22	*
beta-BHC	0.74 JP	1.0	0.27	1	10/02/22 22:33	8/31/22	*
delta-BHC	ND U	1.0	0.28	1	10/02/22 22:33	8/31/22	*
gamma-BHC (Lindane)	ND U	1.0	0.31	1	10/02/22 22:33	8/31/22	*
Chlordane	ND U	10	4.8	1	10/02/22 22:33	8/31/22	*
cis-Chlordane	ND U	1.0	0.41	1	10/02/22 22:33	8/31/22	*
trans-Chlordane	ND U	1.0	0.38	1	10/02/22 22:33	8/31/22	*
4,4'-DDD	ND U	2.0	0.60	1	10/02/22 22:33	8/31/22	*
4,4'-DDE	ND U	1.0	0.40	1	10/02/22 22:33	8/31/22	*
4,4'-DDT	ND U	2.0	0.61	1	10/02/22 22:33	8/31/22	*
Dieldrin	ND U	0.91	0.22	1	10/02/22 22:33	8/31/22	*
Endosulfan I	ND U	1.0	0.37	1	10/02/22 22:33	8/31/22	*
Endosulfan II	ND U	2.0	0.69	1	10/02/22 22:33	8/31/22	*
Endosulfan Sulfate	ND U	2.0	0.99	1	10/02/22 22:33	8/31/22	*
Endrin	ND U	1.0	0.32	1	10/02/22 22:33	8/31/22	*
Endrin Aldehyde	ND U	2.0	0.89	1	10/02/22 22:33	8/31/22	*
Endrin Ketone	ND U	1.0	0.45	1	10/02/22 22:33	8/31/22	*
Heptachlor	ND U	1.0	0.39	1	10/02/22 22:33	8/31/22	*
Heptachlor Epoxide	ND U	2.0	0.66	1	10/02/22 22:33	8/31/22	*
Methoxychlor	ND U	2.0	0.71	1	10/02/22 22:33	8/31/22	*
Toxaphene	ND U	100	34	1	10/02/22 22:33	8/31/22	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	126	10 - 134	10/02/22 22:33	
Tetrachloro-m-xylene	121	10 - 121	10/02/22 22:33	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: 08/13/22 15:40
Date Received: 08/16/22 09:35

Sample Name: DU1-24-36
Lab Code: K2209382-005

Units: ug/Kg
Basis: Dry

Low Level Organochlorine Pesticides by GC

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aldrin	ND U	2.0	0.59	1	09/20/22 12:16	8/31/22	*
alpha-BHC	ND U	1.0	0.29	1	09/20/22 12:16	8/31/22	*
beta-BHC	ND U	1.0	0.27	1	09/20/22 12:16	8/31/22	*
delta-BHC	ND U	1.0	0.28	1	09/20/22 12:16	8/31/22	*
gamma-BHC (Lindane)	ND U	1.0	0.31	1	09/20/22 12:16	8/31/22	*
Chlordane	ND U	10	4.8	1	09/20/22 12:16	8/31/22	*
cis-Chlordane	ND U	1.0	0.41	1	09/20/22 12:16	8/31/22	*
trans-Chlordane	ND U	1.0	0.38	1	09/20/22 12:16	8/31/22	*
4,4'-DDD	ND U	2.0	0.60	1	09/20/22 12:16	8/31/22	*
4,4'-DDE	ND U	1.0	0.40	1	09/20/22 12:16	8/31/22	*
4,4'-DDT	ND U	2.0	0.61	1	09/20/22 12:16	8/31/22	*
Dieldrin	ND U	0.78	0.22	1	09/20/22 12:16	8/31/22	*
Endosulfan I	ND U	1.0	0.37	1	09/20/22 12:16	8/31/22	*
Endosulfan II	ND U	2.0	0.69	1	09/20/22 12:16	8/31/22	*
Endosulfan Sulfate	ND U	2.0	0.99	1	09/20/22 12:16	8/31/22	*
Endrin	ND U	1.0	0.32	1	09/20/22 12:16	8/31/22	*
Endrin Aldehyde	ND U	2.0	0.89	1	09/20/22 12:16	8/31/22	*
Endrin Ketone	ND U	1.0	0.45	1	09/20/22 12:16	8/31/22	*
Heptachlor	ND U	1.0	0.39	1	09/20/22 12:16	8/31/22	*
Heptachlor Epoxide	ND U	2.0	0.66	1	09/20/22 12:16	8/31/22	*
Methoxychlor	ND U	2.0	0.71	1	09/20/22 12:16	8/31/22	*
Toxaphene	ND U	100	34	1	09/20/22 12:16	8/31/22	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	92	10 - 134	09/20/22 12:16	
Tetrachloro-m-xylene	94	10 - 121	09/20/22 12:16	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: 08/13/22 10:00
Date Received: 08/16/22 09:35

Sample Name: DU2-0-6
Lab Code: K2209382-006

Units: ug/Kg
Basis: Dry

Low Level Organochlorine Pesticides by GC

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aldrin	ND U	2.0	0.59	1	09/20/22 12:56	8/31/22	*
alpha-BHC	ND U	1.0	0.29	1	09/20/22 12:56	8/31/22	*
beta-BHC	ND U	1.0	0.27	1	09/20/22 12:56	8/31/22	*
delta-BHC	ND U	1.0	0.28	1	09/20/22 12:56	8/31/22	*
gamma-BHC (Lindane)	ND U	1.0	0.31	1	09/20/22 12:56	8/31/22	*
Chlordane	ND U	10	4.8	1	09/20/22 12:56	8/31/22	*
cis-Chlordane	0.59 JP	1.0	0.41	1	09/20/22 12:56	8/31/22	*
trans-Chlordane	0.45 J	1.0	0.38	1	09/20/22 12:56	8/31/22	*
4,4'-DDD	ND U _i	2.0	1.5	1	09/20/22 12:56	8/31/22	*
4,4'-DDE	2.8 P	1.0	0.40	1	09/20/22 12:56	8/31/22	*
4,4'-DDT	6.0 P	2.0	0.61	1	09/20/22 12:56	8/31/22	*
Dieldrin	ND U _i	1.8	1.8	1	09/20/22 12:56	8/31/22	*
Endosulfan I	ND U _i	1.0	0.37	1	09/20/22 12:56	8/31/22	*
Endosulfan II	ND U	2.0	0.69	1	09/20/22 12:56	8/31/22	*
Endosulfan Sulfate	ND U	2.0	0.99	1	09/20/22 12:56	8/31/22	*
Endrin	ND U	1.0	0.32	1	09/20/22 12:56	8/31/22	*
Endrin Aldehyde	ND U	2.0	0.89	1	09/20/22 12:56	8/31/22	*
Endrin Ketone	ND U	1.0	0.45	1	09/20/22 12:56	8/31/22	*
Heptachlor	ND U	1.0	0.39	1	09/20/22 12:56	8/31/22	*
Heptachlor Epoxide	ND U	2.0	0.66	1	09/20/22 12:56	8/31/22	*
Methoxychlor	ND U	2.0	0.71	1	09/20/22 12:56	8/31/22	*
Toxaphene	ND U	100	34	1	09/20/22 12:56	8/31/22	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	85	10 - 134	09/20/22 12:56	
Tetrachloro-m-xylene	86	10 - 121	09/20/22 12:56	

ALS Group USA, Corp.
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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: 08/13/22 10:10
Date Received: 08/16/22 09:35

Sample Name: DU2-6-12
Lab Code: K2209382-007

Units: ug/Kg
Basis: Dry

Low Level Organochlorine Pesticides by GC

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aldrin	ND U	2.0	0.59	1	09/20/22 17:34	8/31/22	*
alpha-BHC	ND U	1.0	0.29	1	09/20/22 17:34	8/31/22	*
beta-BHC	1.3 P	1.0	0.27	1	09/20/22 17:34	8/31/22	*
delta-BHC	ND U	1.0	0.28	1	09/20/22 17:34	8/31/22	*
gamma-BHC (Lindane)	ND U	1.0	0.31	1	09/20/22 17:34	8/31/22	*
Chlordane	39	10	4.8	1	09/20/22 17:34	8/31/22	*
cis-Chlordane	3.1	1.0	0.41	1	09/20/22 17:34	8/31/22	*
trans-Chlordane	2.7	1.0	0.38	1	09/20/22 17:34	8/31/22	*
4,4'-DDD	5.4 P	2.0	0.60	1	09/20/22 17:34	8/31/22	*
4,4'-DDE	21	1.0	0.40	1	09/20/22 17:34	8/31/22	*
4,4'-DDT	64	10	3.1	5	10/02/22 23:52	8/31/22	*
Dieldrin	2.7	0.89	0.22	1	09/20/22 17:34	8/31/22	*
Endosulfan I	ND U _i	1.0	0.52	1	09/20/22 17:34	8/31/22	*
Endosulfan II	ND U	2.0	0.69	1	09/20/22 17:34	8/31/22	*
Endosulfan Sulfate	ND U	2.0	0.99	1	09/20/22 17:34	8/31/22	*
Endrin	ND U	1.0	0.32	1	09/20/22 17:34	8/31/22	*
Endrin Aldehyde	ND U	2.0	0.89	1	09/20/22 17:34	8/31/22	*
Endrin Ketone	ND U	1.0	0.45	1	09/20/22 17:34	8/31/22	*
Heptachlor	ND U	1.0	0.39	1	09/20/22 17:34	8/31/22	*
Heptachlor Epoxide	ND U	2.0	0.66	1	09/20/22 17:34	8/31/22	*
Methoxychlor	ND U _i	3.0	3.0	1	09/20/22 17:34	8/31/22	*
Toxaphene	ND U	100	34	1	09/20/22 17:34	8/31/22	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	111	10 - 134	09/20/22 17:34	
Tetrachloro-m-xylene	102	10 - 121	09/20/22 17:34	

ALS Group USA, Corp.
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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: 08/13/22 10:20
Date Received: 08/16/22 09:35

Sample Name: DU2-12-18
Lab Code: K2209382-008

Units: ug/Kg
Basis: Dry

Low Level Organochlorine Pesticides by GC

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aldrin	ND U	2.0	0.59	1	09/20/22 18:14	8/31/22	*
alpha-BHC	0.36 J	1.0	0.29	1	09/20/22 18:14	8/31/22	*
beta-BHC	ND U	1.0	0.27	1	09/20/22 18:14	8/31/22	*
delta-BHC	ND U	1.0	0.28	1	09/20/22 18:14	8/31/22	*
gamma-BHC (Lindane)	ND U	1.0	0.31	1	09/20/22 18:14	8/31/22	*
Chlordane	35	10	4.8	1	09/20/22 18:14	8/31/22	*
cis-Chlordane	2.0	1.0	0.41	1	09/20/22 18:14	8/31/22	*
trans-Chlordane	2.5	1.0	0.38	1	09/20/22 18:14	8/31/22	*
4,4'-DDD	8.2	2.0	0.60	1	09/20/22 18:14	8/31/22	*
4,4'-DDE	73	10	4.0	10	10/03/22 02:32	8/31/22	*
4,4'-DDT	190 P	20	6.1	10	10/03/22 02:32	8/31/22	*
Dieldrin	4.3 P	0.81	0.22	1	09/20/22 18:14	8/31/22	*
Endosulfan I	ND U _i	1.0	0.45	1	09/20/22 18:14	8/31/22	*
Endosulfan II	ND U	2.0	0.69	1	09/20/22 18:14	8/31/22	*
Endosulfan Sulfate	ND U	2.0	0.99	1	09/20/22 18:14	8/31/22	*
Endrin	ND U	1.0	0.32	1	09/20/22 18:14	8/31/22	*
Endrin Aldehyde	ND U	2.0	0.89	1	09/20/22 18:14	8/31/22	*
Endrin Ketone	ND U	1.0	0.45	1	09/20/22 18:14	8/31/22	*
Heptachlor	ND U	1.0	0.39	1	09/20/22 18:14	8/31/22	*
Heptachlor Epoxide	ND U	2.0	0.66	1	09/20/22 18:14	8/31/22	*
Methoxychlor	ND U _i	3.4	3.4	1	09/20/22 18:14	8/31/22	*
Toxaphene	ND U	100	34	1	09/20/22 18:14	8/31/22	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	97	10 - 134	09/20/22 18:14	
Tetrachloro-m-xylene	98	10 - 121	09/20/22 18:14	

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dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: 08/13/22 10:30
Date Received: 08/16/22 09:35

Sample Name: DU2-18-24
Lab Code: K2209382-009

Units: ug/Kg
Basis: Dry

Low Level Organochlorine Pesticides by GC

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aldrin	ND U	2.0	0.59	1	09/20/22 18:54	8/31/22	*
alpha-BHC	ND U	1.0	0.29	1	09/20/22 18:54	8/31/22	*
beta-BHC	ND U	1.0	0.27	1	09/20/22 18:54	8/31/22	*
delta-BHC	ND U	1.0	0.28	1	09/20/22 18:54	8/31/22	*
gamma-BHC (Lindane)	ND U	1.0	0.31	1	09/20/22 18:54	8/31/22	*
Chlordane	ND U	10	4.8	1	09/20/22 18:54	8/31/22	*
cis-Chlordane	ND U	1.0	0.41	1	09/20/22 18:54	8/31/22	*
trans-Chlordane	ND U	1.0	0.38	1	09/20/22 18:54	8/31/22	*
4,4'-DDD	ND U _i	3.6	3.6	1	09/20/22 18:54	8/31/22	*
4,4'-DDE	4.7	1.0	0.40	1	09/20/22 18:54	8/31/22	*
4,4'-DDT	ND U _i	16	16	1	09/20/22 18:54	8/31/22	*
Dieldrin	ND U	0.88	0.22	1	09/20/22 18:54	8/31/22	*
Endosulfan I	ND U	1.0	0.37	1	09/20/22 18:54	8/31/22	*
Endosulfan II	ND U	2.0	0.69	1	09/20/22 18:54	8/31/22	*
Endosulfan Sulfate	ND U	2.0	0.99	1	09/20/22 18:54	8/31/22	*
Endrin	ND U	1.0	0.32	1	09/20/22 18:54	8/31/22	*
Endrin Aldehyde	ND U	2.0	0.89	1	09/20/22 18:54	8/31/22	*
Endrin Ketone	ND U	1.0	0.45	1	09/20/22 18:54	8/31/22	*
Heptachlor	ND U	1.0	0.39	1	09/20/22 18:54	8/31/22	*
Heptachlor Epoxide	ND U	2.0	0.66	1	09/20/22 18:54	8/31/22	*
Methoxychlor	ND U	2.0	0.71	1	09/20/22 18:54	8/31/22	*
Toxaphene	ND U	100	34	1	09/20/22 18:54	8/31/22	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	135	10 - 134	09/20/22 18:54	*
Tetrachloro-m-xylene	132	10 - 121	09/20/22 18:54	*

ALS Group USA, Corp.
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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: 08/13/22 10:40
Date Received: 08/16/22 09:35

Sample Name: DU2-24-36
Lab Code: K2209382-010

Units: ug/Kg
Basis: Dry

Low Level Organochlorine Pesticides by GC

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aldrin	ND U	2.0	0.59	1	09/20/22 19:34	8/31/22	*
alpha-BHC	ND U	1.0	0.29	1	09/20/22 19:34	8/31/22	*
beta-BHC	ND U	1.0	0.27	1	09/20/22 19:34	8/31/22	*
delta-BHC	ND U	1.0	0.28	1	09/20/22 19:34	8/31/22	*
gamma-BHC (Lindane)	ND U	1.0	0.31	1	09/20/22 19:34	8/31/22	*
Chlordane	ND U	10	4.8	1	09/20/22 19:34	8/31/22	*
cis-Chlordane	ND U	1.0	0.41	1	09/20/22 19:34	8/31/22	*
trans-Chlordane	ND U	1.0	0.38	1	09/20/22 19:34	8/31/22	*
4,4'-DDD	ND U	2.0	0.60	1	09/20/22 19:34	8/31/22	*
4,4'-DDE	1.9	1.0	0.40	1	09/20/22 19:34	8/31/22	*
4,4'-DDT	ND U _i	47	47	1	09/20/22 19:34	8/31/22	*
Dieldrin	ND U	0.86	0.22	1	09/20/22 19:34	8/31/22	*
Endosulfan I	ND U	1.0	0.37	1	09/20/22 19:34	8/31/22	*
Endosulfan II	ND U	2.0	0.69	1	09/20/22 19:34	8/31/22	*
Endosulfan Sulfate	ND U	2.0	0.99	1	09/20/22 19:34	8/31/22	*
Endrin	ND U	1.0	0.32	1	09/20/22 19:34	8/31/22	*
Endrin Aldehyde	ND U	2.0	0.89	1	09/20/22 19:34	8/31/22	*
Endrin Ketone	ND U	1.0	0.45	1	09/20/22 19:34	8/31/22	*
Heptachlor	ND U	1.0	0.39	1	09/20/22 19:34	8/31/22	*
Heptachlor Epoxide	ND U	2.0	0.66	1	09/20/22 19:34	8/31/22	*
Methoxychlor	ND U	2.0	0.71	1	09/20/22 19:34	8/31/22	*
Toxaphene	ND U	100	34	1	09/20/22 19:34	8/31/22	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	137	10 - 134	09/20/22 19:34	*
Tetrachloro-m-xylene	129	10 - 121	09/20/22 19:34	*

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: 08/13/22 13:00
Date Received: 08/16/22 09:35

Sample Name: DU3-0-6
Lab Code: K2209382-011

Units: ug/Kg
Basis: Dry

Low Level Organochlorine Pesticides by GC

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aldrin	ND U	2.0	0.59	1	09/20/22 20:14	8/31/22	*
alpha-BHC	ND U	1.0	0.29	1	09/20/22 20:14	8/31/22	*
beta-BHC	ND U	1.0	0.27	1	09/20/22 20:14	8/31/22	*
delta-BHC	ND U	1.0	0.28	1	09/20/22 20:14	8/31/22	*
gamma-BHC (Lindane)	ND U	1.0	0.31	1	09/20/22 20:14	8/31/22	*
Chlordane	180	10	4.8	1	09/20/22 20:14	8/31/22	*
cis-Chlordane	22	1.0	0.41	1	09/20/22 20:14	8/31/22	*
trans-Chlordane	19	1.0	0.38	1	09/20/22 20:14	8/31/22	*
4,4'-DDD	33	2.0	0.60	1	09/20/22 20:14	8/31/22	*
4,4'-DDE	140	5.0	2.0	5	10/03/22 00:32	8/31/22	*
4,4'-DDT	130	10	3.1	5	10/03/22 00:32	8/31/22	*
Dieldrin	27	0.87	0.22	1	09/20/22 20:14	8/31/22	*
Endosulfan I	ND U	2.6	2.6	1	09/20/22 20:14	8/31/22	*
Endosulfan II	ND U	2.9	2.9	1	09/20/22 20:14	8/31/22	*
Endosulfan Sulfate	ND U	2.0	1.1	1	09/20/22 20:14	8/31/22	*
Endrin	ND U	1.0	0.32	1	09/20/22 20:14	8/31/22	*
Endrin Aldehyde	ND U	2.5	2.5	1	09/20/22 20:14	8/31/22	*
Endrin Ketone	0.66 JP	1.0	0.45	1	09/20/22 20:14	8/31/22	*
Heptachlor	ND U	1.0	0.39	1	09/20/22 20:14	8/31/22	*
Heptachlor Epoxide	1.5 J	2.0	0.66	1	09/20/22 20:14	8/31/22	*
Methoxychlor	ND U	2.0	1.6	1	09/20/22 20:14	8/31/22	*
Toxaphene	ND U	100	34	1	09/20/22 20:14	8/31/22	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	135	10 - 134	09/20/22 20:14	*
Tetrachloro-m-xylene	124	10 - 121	09/20/22 20:14	*

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: 08/13/22 13:10
Date Received: 08/16/22 09:35

Sample Name: DU3-6-12
Lab Code: K2209382-012

Units: ug/Kg
Basis: Dry

Low Level Organochlorine Pesticides by GC

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aldrin	ND Ui	2.1	0.76	1	09/20/22 20:53	8/31/22	*
alpha-BHC	ND U	1.0	0.30	1	09/20/22 20:53	8/31/22	*
beta-BHC	ND U	1.0	0.28	1	09/20/22 20:53	8/31/22	*
delta-BHC	ND U	1.0	0.29	1	09/20/22 20:53	8/31/22	*
gamma-BHC (Lindane)	ND U	1.0	0.32	1	09/20/22 20:53	8/31/22	*
Chlordane	93 P	10	5.0	1	09/20/22 20:53	8/31/22	
cis-Chlordane	13	1.0	0.43	1	09/20/22 20:53	8/31/22	*
trans-Chlordane	10	1.0	0.40	1	09/20/22 20:53	8/31/22	*
4,4'-DDD	190 JP	210	62	100	10/03/22 03:11	8/31/22	
4,4'-DDE	300	100	42	100	10/03/22 03:11	8/31/22	*
4,4'-DDT	5400	410	130	200	10/18/22 11:01	8/31/22	*
Dieldrin	93 J	100	23	100	10/03/22 03:11	8/31/22	*
Endosulfan I	ND Ui	3.1	3.1	1	09/20/22 20:53	8/31/22	*
Endosulfan II	ND U	2.1	0.72	1	09/20/22 20:53	8/31/22	*
Endosulfan Sulfate	ND U	2.1	1.1	1	09/20/22 20:53	8/31/22	*
Endrin	ND U	1.0	0.33	1	09/20/22 20:53	8/31/22	*
Endrin Aldehyde	ND U	2.1	0.92	1	09/20/22 20:53	8/31/22	*
Endrin Ketone	1.8	1.0	0.47	1	09/20/22 20:53	8/31/22	*
Heptachlor	ND U	1.0	0.41	1	09/20/22 20:53	8/31/22	*
Heptachlor Epoxide	1.3 JP	2.1	0.69	1	09/20/22 20:53	8/31/22	*
Methoxychlor	ND Ui	6.4	6.4	1	09/20/22 20:53	8/31/22	*
Toxaphene	ND U	100	36	1	09/20/22 20:53	8/31/22	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	100	10 - 134	09/20/22 20:53	
Tetrachloro-m-xylene	95	10 - 121	09/20/22 20:53	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: 08/13/22 13:20
Date Received: 08/16/22 09:35

Sample Name: DU3-12-18
Lab Code: K2209382-013

Units: ug/Kg
Basis: Dry

Low Level Organochlorine Pesticides by GC

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aldrin	ND U	2.0	0.59	1	09/20/22 21:33	8/31/22	*
alpha-BHC	ND U	1.0	0.29	1	09/20/22 21:33	8/31/22	*
beta-BHC	ND U	1.0	0.27	1	09/20/22 21:33	8/31/22	*
delta-BHC	ND U	1.0	0.28	1	09/20/22 21:33	8/31/22	*
gamma-BHC (Lindane)	ND Ui	1.0	0.33	1	09/20/22 21:33	8/31/22	*
Chlordane	14 P	10	4.8	1	09/20/22 21:33	8/31/22	
cis-Chlordane	1.8	1.0	0.41	1	09/20/22 21:33	8/31/22	*
trans-Chlordane	2.2	1.0	0.38	1	09/20/22 21:33	8/31/22	*
4,4'-DDD	19	2.0	0.60	1	09/20/22 21:33	8/31/22	
4,4'-DDE	17	5.0	2.0	5	10/03/22 01:12	8/31/22	*
4,4'-DDT	75	10	3.1	5	10/03/22 01:12	8/31/22	*
Dieldrin	2.5 P	0.92	0.22	1	09/20/22 21:33	8/31/22	*
Endosulfan I	ND U	1.0	0.37	1	09/20/22 21:33	8/31/22	*
Endosulfan II	ND Ui	2.0	2.0	1	09/20/22 21:33	8/31/22	*
Endosulfan Sulfate	ND U	2.0	0.99	1	09/20/22 21:33	8/31/22	*
Endrin	ND U	1.0	0.32	1	09/20/22 21:33	8/31/22	*
Endrin Aldehyde	ND U	2.0	0.89	1	09/20/22 21:33	8/31/22	*
Endrin Ketone	ND Ui	1.0	0.46	1	09/20/22 21:33	8/31/22	*
Heptachlor	ND Ui	1.0	0.39	1	09/20/22 21:33	8/31/22	*
Heptachlor Epoxide	ND U	2.0	0.66	1	09/20/22 21:33	8/31/22	*
Methoxychlor	ND Ui	2.1	2.1	1	09/20/22 21:33	8/31/22	*
Toxaphene	ND U	100	34	1	09/20/22 21:33	8/31/22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	86	10 - 134	09/20/22 21:33	
Tetrachloro-m-xylene	85	10 - 121	09/20/22 21:33	

ALS Group USA, Corp.
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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: 08/13/22 13:30
Date Received: 08/16/22 09:35

Sample Name: DU3-18-24
Lab Code: K2209382-014

Units: ug/Kg
Basis: Dry

Low Level Organochlorine Pesticides by GC

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aldrin	ND U	2.0	0.59	1	09/20/22 22:13	8/31/22	*
alpha-BHC	ND U	1.0	0.29	1	09/20/22 22:13	8/31/22	*
beta-BHC	ND U	1.0	0.27	1	09/20/22 22:13	8/31/22	*
delta-BHC	ND U	1.0	0.28	1	09/20/22 22:13	8/31/22	*
gamma-BHC (Lindane)	ND U	1.0	0.31	1	09/20/22 22:13	8/31/22	*
Chlordane	12	10	4.8	1	09/20/22 22:13	8/31/22	
cis-Chlordane	0.58 J	1.0	0.41	1	09/20/22 22:13	8/31/22	*
trans-Chlordane	0.76 J	1.0	0.38	1	09/20/22 22:13	8/31/22	*
4,4'-DDD	8.0	2.0	0.60	1	09/20/22 22:13	8/31/22	
4,4'-DDE	16	1.0	0.40	1	09/20/22 22:13	8/31/22	*
4,4'-DDT	88 P	10	3.1	5	10/03/22 01:52	8/31/22	*
Dieldrin	ND U _i	5.3	5.3	1	09/20/22 22:13	8/31/22	*
Endosulfan I	ND U	1.0	0.37	1	09/20/22 22:13	8/31/22	*
Endosulfan II	ND U	2.0	0.69	1	09/20/22 22:13	8/31/22	*
Endosulfan Sulfate	ND U	2.0	0.99	1	09/20/22 22:13	8/31/22	*
Endrin	ND U	1.0	0.32	1	09/20/22 22:13	8/31/22	*
Endrin Aldehyde	ND U	2.0	0.89	1	09/20/22 22:13	8/31/22	*
Endrin Ketone	ND U	1.0	0.45	1	09/20/22 22:13	8/31/22	*
Heptachlor	ND U	1.0	0.39	1	09/20/22 22:13	8/31/22	*
Heptachlor Epoxide	ND U	2.0	0.66	1	09/20/22 22:13	8/31/22	*
Methoxychlor	ND U	2.0	0.71	1	09/20/22 22:13	8/31/22	*
Toxaphene	ND U	100	34	1	09/20/22 22:13	8/31/22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	122	10 - 134	09/20/22 22:13	
Tetrachloro-m-xylene	118	10 - 121	09/20/22 22:13	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: 08/13/22 13:40
Date Received: 08/16/22 09:35

Sample Name: DU3-24-36
Lab Code: K2209382-015

Units: ug/Kg
Basis: Dry

Low Level Organochlorine Pesticides by GC

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aldrin	ND U	2.0	0.59	1	09/20/22 22:52	8/31/22	*
alpha-BHC	ND U	1.0	0.29	1	09/20/22 22:52	8/31/22	*
beta-BHC	ND U	1.0	0.27	1	09/20/22 22:52	8/31/22	*
delta-BHC	ND U	1.0	0.28	1	09/20/22 22:52	8/31/22	*
gamma-BHC (Lindane)	ND U	1.0	0.31	1	09/20/22 22:52	8/31/22	*
Chlordane	ND U	10	4.8	1	09/20/22 22:52	8/31/22	*
cis-Chlordane	ND U	1.0	0.41	1	09/20/22 22:52	8/31/22	*
trans-Chlordane	ND U	1.0	0.38	1	09/20/22 22:52	8/31/22	*
4,4'-DDD	3.2 P	2.0	0.60	1	09/20/22 22:52	8/31/22	*
4,4'-DDE	6.1	1.0	0.40	1	09/20/22 22:52	8/31/22	*
4,4'-DDT	69 P	4.0	1.3	2	10/02/22 23:13	8/31/22	*
Dieldrin	0.86 J	0.99	0.22	1	09/20/22 22:52	8/31/22	*
Endosulfan I	ND U	1.0	0.37	1	09/20/22 22:52	8/31/22	*
Endosulfan II	ND U _i	2.0	0.69	1	09/20/22 22:52	8/31/22	*
Endosulfan Sulfate	ND U	2.0	0.99	1	09/20/22 22:52	8/31/22	*
Endrin	ND U	1.0	0.32	1	09/20/22 22:52	8/31/22	*
Endrin Aldehyde	ND U	2.0	0.89	1	09/20/22 22:52	8/31/22	*
Endrin Ketone	ND U	1.0	0.45	1	09/20/22 22:52	8/31/22	*
Heptachlor	ND U	1.0	0.39	1	09/20/22 22:52	8/31/22	*
Heptachlor Epoxide	ND U _i	2.0	0.66	1	09/20/22 22:52	8/31/22	*
Methoxychlor	ND U	2.0	0.71	1	09/20/22 22:52	8/31/22	*
Toxaphene	ND U	100	34	1	09/20/22 22:52	8/31/22	*

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	133	10 - 134	09/20/22 22:52	
Tetrachloro-m-xylene	132	10 - 121	09/20/22 22:52	*

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: 08/13/22 15:00
Date Received: 08/16/22 09:35

Sample Name: DU1-0-6
Lab Code: K2209382-001

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	4.2 JP	52	4.2	1	10/13/22 15:25	10/11/22	*
2,4,5-TP (Silvex)	6.6 JP	52	2.5	1	10/13/22 15:25	10/11/22	
2,4-D	18 J	52	8.0	1	10/13/22 15:25	10/11/22	
2,4-DB	ND U	52	5.6	1	10/13/22 15:25	10/11/22	*
Dalapon	ND U	52	5.7	1	10/13/22 15:25	10/11/22	
Dicamba	ND U	52	4.5	1	10/13/22 15:25	10/11/22	
Dichlorprop	ND U	52	3.6	1	10/13/22 15:25	10/11/22	
Dinoseb	ND U	52	2.8	1	10/13/22 15:25	10/11/22	
MCPA	7700	5200	330	1	10/13/22 15:25	10/11/22	
MCPP	ND U	5200	480	1	10/13/22 15:25	10/11/22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	96	26 - 127	10/13/22 15:25	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: 08/13/22 10:00
Date Received: 08/16/22 09:35

Sample Name: DU2-0-6
Lab Code: K2209382-006

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	4.3 JP	52	4.2	1	10/13/22 15:48	10/11/22	*
2,4,5-TP (Silvex)	6.3 J	52	2.5	1	10/13/22 15:48	10/11/22	
2,4-D	15 J	52	8.0	1	10/13/22 15:48	10/11/22	
2,4-DB	ND U	52	5.6	1	10/13/22 15:48	10/11/22	*
Dalapon	ND U	52	5.7	1	10/13/22 15:48	10/11/22	
Dicamba	ND U	52	4.5	1	10/13/22 15:48	10/11/22	
Dichlorprop	ND U	52	3.6	1	10/13/22 15:48	10/11/22	
Dinoseb	ND U	52	2.8	1	10/13/22 15:48	10/11/22	
MCPA	4300 JP	5200	340	1	10/13/22 15:48	10/11/22	
MCPP	ND U	5200	480	1	10/13/22 15:48	10/11/22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	90	26 - 127	10/13/22 15:48	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: 08/13/22 13:00
Date Received: 08/16/22 09:35

Sample Name: DU3-0-6
Lab Code: K2209382-011

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	ND U	52	4.2	1	10/13/22 16:12	10/11/22	*
2,4,5-TP (Silvex)	5.5 J	52	2.6	1	10/13/22 16:12	10/11/22	
2,4-D	ND Ui	52	12	1	10/13/22 16:12	10/11/22	
2,4-DB	ND U	52	5.7	1	10/13/22 16:12	10/11/22	*
Dalapon	ND U	52	5.8	1	10/13/22 16:12	10/11/22	
Dicamba	ND U	52	4.5	1	10/13/22 16:12	10/11/22	
Dichlorprop	ND U	52	3.6	1	10/13/22 16:12	10/11/22	
Dinoseb	ND Ui	52	11	1	10/13/22 16:12	10/11/22	
MCPA	3500 JP	5200	340	1	10/13/22 16:12	10/11/22	
MCPP	ND U	5200	480	1	10/13/22 16:12	10/11/22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	74	26 - 127	10/13/22 16:12	



Metals

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: DU1-0-6
Lab Code: K2209382-001

Service Request: K2209382
Date Collected: 08/13/22 15:00
Date Received: 08/16/22 09:35

Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony	6020A	0.206	mg/Kg	0.051	0.021	5	09/02/22 10:45	08/30/22	
Arsenic	6020A	6.44	mg/Kg	0.51	0.06	5	09/02/22 10:45	08/30/22	
Barium	6020A	169	mg/Kg	0.051	0.021	5	09/02/22 10:45	08/30/22	
Beryllium	6020A	0.474	mg/Kg	0.021	0.006	5	09/02/22 10:45	08/30/22	
Cadmium	6020A	0.148	mg/Kg	0.021	0.007	5	09/02/22 10:45	08/30/22	
Chromium	6020A	44.1	mg/Kg	0.21	0.06	5	09/02/22 10:45	08/30/22	
Cobalt	6020A	27.9	mg/Kg	0.021	0.006	5	09/02/22 10:45	08/30/22	
Copper	6020A	53.7	mg/Kg	0.10	0.04	5	09/02/22 10:45	08/30/22	
Lead	6020A	22.5	mg/Kg	0.051	0.021	5	09/02/22 10:45	08/30/22	
Mercury	7471B	0.036	mg/Kg	0.020	0.002	1	08/26/22 15:52	08/26/22	
Molybdenum	6020A	0.407	mg/Kg	0.051	0.021	5	09/02/22 10:45	08/30/22	
Nickel	6020A	29.7	mg/Kg	0.21	0.03	5	09/02/22 10:45	08/30/22	
Selenium	6020A	0.1 J	mg/Kg	1.0	0.09	5	09/02/22 10:45	08/30/22	
Silver	6020A	0.045	mg/Kg	0.021	0.004	5	09/02/22 10:45	08/30/22	
Thallium	6020A	0.094	mg/Kg	0.021	0.004	5	09/02/22 10:45	08/30/22	
Vanadium	6020A	74.6	mg/Kg	0.41	0.03	5	09/02/22 10:45	08/30/22	
Zinc	6020A	82.7	mg/Kg	0.51	0.21	5	09/02/22 10:45	08/30/22	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: DU2-0-6
Lab Code: K2209382-006

Service Request: K2209382
Date Collected: 08/13/22 10:00
Date Received: 08/16/22 09:35

Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony	6020A	0.222	mg/Kg	0.052	0.021	5	09/02/22 10:58	08/30/22	
Arsenic	6020A	7.13	mg/Kg	0.52	0.06	5	09/02/22 10:58	08/30/22	
Barium	6020A	219	mg/Kg	0.052	0.021	5	09/02/22 10:58	08/30/22	
Beryllium	6020A	0.470	mg/Kg	0.021	0.006	5	09/02/22 10:58	08/30/22	
Cadmium	6020A	0.197	mg/Kg	0.021	0.007	5	09/02/22 10:58	08/30/22	
Chromium	6020A	37.4	mg/Kg	0.21	0.06	5	09/02/22 10:58	08/30/22	
Cobalt	6020A	30.9	mg/Kg	0.021	0.006	5	09/02/22 10:58	08/30/22	
Copper	6020A	54.1	mg/Kg	0.10	0.04	5	09/02/22 10:58	08/30/22	
Lead	6020A	26.2	mg/Kg	0.052	0.021	5	09/02/22 10:58	08/30/22	
Mercury	7471B	0.088	mg/Kg	0.021	0.002	1	08/26/22 15:54	08/26/22	
Molybdenum	6020A	0.491	mg/Kg	0.052	0.021	5	09/02/22 10:58	08/30/22	
Nickel	6020A	27.8	mg/Kg	0.21	0.03	5	09/02/22 10:58	08/30/22	
Selenium	6020A	0.1 J	mg/Kg	1.0	0.09	5	09/02/22 10:58	08/30/22	
Silver	6020A	0.043	mg/Kg	0.021	0.004	5	09/02/22 10:58	08/30/22	
Thallium	6020A	0.152	mg/Kg	0.021	0.004	5	09/02/22 10:58	08/30/22	
Vanadium	6020A	83.8	mg/Kg	0.41	0.03	5	09/02/22 10:58	08/30/22	
Zinc	6020A	98.3	mg/Kg	0.52	0.21	5	09/02/22 10:58	08/30/22	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: DU3-0-6
Lab Code: K2209382-011

Service Request: K2209382
Date Collected: 08/13/22 13:00
Date Received: 08/16/22 09:35

Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony	6020A	0.329	mg/Kg	0.047	0.019	5	09/02/22 11:01	08/30/22	
Arsenic	6020A	8.07	mg/Kg	0.47	0.06	5	09/02/22 11:01	08/30/22	
Barium	6020A	128	mg/Kg	0.047	0.019	5	09/02/22 11:01	08/30/22	
Beryllium	6020A	0.407	mg/Kg	0.019	0.006	5	09/02/22 11:01	08/30/22	
Cadmium	6020A	0.266	mg/Kg	0.019	0.007	5	09/02/22 11:01	08/30/22	
Chromium	6020A	38.6	mg/Kg	0.19	0.06	5	09/02/22 11:01	08/30/22	
Cobalt	6020A	18.5	mg/Kg	0.019	0.006	5	09/02/22 11:01	08/30/22	
Copper	6020A	55.2	mg/Kg	0.095	0.038	5	09/02/22 11:01	08/30/22	
Lead	6020A	79.7	mg/Kg	0.047	0.019	5	09/02/22 11:01	08/30/22	
Mercury	7471B	0.135	mg/Kg	0.016	0.002	1	08/26/22 15:55	08/26/22	
Molybdenum	6020A	0.443	mg/Kg	0.047	0.019	5	09/02/22 11:01	08/30/22	
Nickel	6020A	23.0	mg/Kg	0.19	0.03	5	09/02/22 11:01	08/30/22	
Selenium	6020A	0.13 J	mg/Kg	0.95	0.09	5	09/02/22 11:01	08/30/22	
Silver	6020A	0.167	mg/Kg	0.019	0.004	5	09/02/22 11:01	08/30/22	
Thallium	6020A	0.077	mg/Kg	0.019	0.004	5	09/02/22 11:01	08/30/22	
Vanadium	6020A	68.1	mg/Kg	0.38	0.03	5	09/02/22 11:01	08/30/22	
Zinc	6020A	98.7	mg/Kg	0.47	0.19	5	09/02/22 11:01	08/30/22	



General Chemistry

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: DU1-0-6
Lab Code: K2209382-001

Service Request: K2209382
Date Collected: 08/13/22 15:00
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	95.0	Percent	-	-	1	08/24/22 16:16	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: DU1-6-12
Lab Code: K2209382-002

Service Request: K2209382
Date Collected: 08/13/22 15:10
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	95.0	Percent	-	-	1	08/24/22 16:16	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: DU1-12-18
Lab Code: K2209382-003

Service Request: K2209382
Date Collected: 08/13/22 15:20
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	94.8	Percent	-	-	1	08/24/22 16:16	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: DU1-18-24
Lab Code: K2209382-004

Service Request: K2209382
Date Collected: 08/13/22 15:30
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	94.0	Percent	-	-	1	08/24/22 16:16	

ALS Group USA, Corp.
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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: DU1-24-36
Lab Code: K2209382-005

Service Request: K2209382
Date Collected: 08/13/22 15:40
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	94.3	Percent	-	-	1	08/24/22 16:16	

ALS Group USA, Corp.
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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: DU2-0-6
Lab Code: K2209382-006

Service Request: K2209382
Date Collected: 08/13/22 10:00
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	96.4	Percent	-	-	1	08/24/22 16:16	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: DU2-6-12
Lab Code: K2209382-007

Service Request: K2209382
Date Collected: 08/13/22 10:10
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	93.2	Percent	-	-	1	08/24/22 16:16	

ALS Group USA, Corp.
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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: DU2-12-18
Lab Code: K2209382-008

Service Request: K2209382
Date Collected: 08/13/22 10:20
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	92.7	Percent	-	-	1	08/24/22 16:16	

ALS Group USA, Corp.
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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: DU2-18-24
Lab Code: K2209382-009

Service Request: K2209382
Date Collected: 08/13/22 10:30
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	93.4	Percent	-	-	1	08/24/22 16:16	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: DU2-24-36
Lab Code: K2209382-010

Service Request: K2209382
Date Collected: 08/13/22 10:40
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	91.5	Percent	-	-	1	08/24/22 16:16	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: DU3-0-6
Lab Code: K2209382-011

Service Request: K2209382
Date Collected: 08/13/22 13:00
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	95.5	Percent	-	-	1	08/24/22 16:16	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: DU3-6-12
Lab Code: K2209382-012

Service Request: K2209382
Date Collected: 08/13/22 13:10
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	95.5	Percent	-	-	1	08/24/22 16:16	

ALS Group USA, Corp.
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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: DU3-12-18
Lab Code: K2209382-013

Service Request: K2209382
Date Collected: 08/13/22 13:20
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>MDL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Solids, Total	160.3 Modified	95.6	Percent	-	-	1	08/24/22 16:16	

ALS Group USA, Corp.
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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: DU3-18-24
Lab Code: K2209382-014

Service Request: K2209382
Date Collected: 08/13/22 13:30
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	93.7	Percent	-	-	1	08/24/22 16:16	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: DU3-24-36
Lab Code: K2209382-015

Service Request: K2209382
Date Collected: 08/13/22 13:40
Date Received: 08/16/22 09:35
Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Solids, Total	160.3 Modified	94.1	Percent	-	-	1	08/24/22 16:16	



QC Summary Forms

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Semivolatile Organic Compounds by GC/MS

ALS Environmental—Kelso Laboratory
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Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382

SURROGATE RECOVERY SUMMARY
Organophosphorus Pesticides by GC/MS/MS

Analysis Method: ALS SOP

Extraction Method: EPA 3541

Sample Name	Lab Code	Chlorpyrifos-d10	Diazinon-d10
		70-130	70-130
DU1-0-6	K2209382-001	112	32*
DU2-0-6	K2209382-006	116	44*
DU3-0-6	K2209382-011	116	37*
Method Blank	KQ2214346-04	88	111
Lab Control Sample	KQ2214346-03	94	115
DU1-0-6	KQ2214346-01	81	70
DU1-0-6	KQ2214346-02	90	68*

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dba ALS Environmental

QA/QC Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: 08/13/22
Date Received: 08/16/22
Date Analyzed: 09/8/22
Date Extracted: 08/24/22

Duplicate Matrix Spike Summary
Organophosphorus Pesticides by GC/MS/MS

Sample Name: DU1-0-6
Lab Code: K2209382-001
Analysis Method: ALS SOP
Prep Method: EPA 3541

Units: ug/Kg
Basis: Dry

Analyte Name	Sample Result	Result	Matrix Spike KQ2214346-01		Duplicate Matrix Spike KQ2214346-02		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Azinphos-methyl	ND U	86.9	105	83	94.0	101	93	70-130	8	40
Bolstar (Sulprofos)	ND U	85.0	105	81	92.1	101	92	70-130	8	40
Chlorpyrifos	ND U	79.0	105	75	88.0	101	87	70-130	11	40
Coumaphos	ND U	90.3	105	86	102	101	101	70-130	12	40
Demeton-O,S	ND U	122	210	58 *	119	201	59 *	70-130	2	40
Diazinon	ND U	52.2	105	50 *	48.6	101	48 *	70-130	7	40
Dichlorvos	ND U	46.7	105	44 *	49.8	101	49 *	70-130	6	40
Dimethoate	ND U	34.6	105	33 *	40.8	101	41 *	70-130	16	40
Disulfoton	ND U	75.3	105	72	79.1	101	79	70-130	5	40
EPN	ND U	87.6	105	83	98.4	101	98	70-130	12	40
Ethoprop (Prophos)	ND U	33.9	105	32 *	44.3	101	44 *	70-130	27	40
Ethyl Parathion	ND U	70.7	105	67 *	74.3	101	74	70-130	5	40
Fensulfothion	ND U	68.5	105	65 *	75.0	101	75	70-130	9	40
Fenthion	ND U	72.4	105	69 *	79.0	101	79	70-130	9	40
Malathion	ND U	71.8	105	68 *	75.1	101	75	70-130	5	40
Merphos, Total	ND U	72.0	210	34 *	75.5	201	38 *	70-130	5	40
Methyl Parathion	ND U	82.9	105	79	86.2	101	86	70-130	4	40
Mevinphos	ND U	38.9	105	37 *	35.7	101	35 *	70-130	9	40
Monocrotophos	ND U	ND U	105	0 *	ND U	101	0 *	70-130	NC	40
Naled (Dibrom)	ND U	89.2	105	85	78.2	101	78	70-130	13	40
Phorate	ND U	62.3	105	59 *	72.8	101	72	70-130	16	40
Ronnel	1.8 J	78.5	105	73	84.2	101	82	70-130	7	40
Stirophos	ND U	62.8	105	60 *	67.2	101	67 *	70-130	7	40
Sulfotep	ND U	52.4	105	50 *	62.5	101	62 *	70-130	17	40
Tokuthion	ND U	70.7	105	67 *	78.3	101	78	70-130	10	40
Trichloronate	2.1 J	83.7	105	78	91.7	101	89	70-130	9	40

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: KQ2214346-04

Units: ug/Kg
Basis: Dry

Organophosphorus Pesticides by GC/MS/MS

Analysis Method: ALS SOP
Prep Method: EPA 3541

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Azinphos-methyl	ND U	9.6	4.2	1	09/07/22 21:57	8/24/22	
Bolstar (Sulprofos)	ND U	4.8	2.8	1	09/07/22 21:57	8/24/22	
Chlorpyrifos	ND U	4.8	1.8	1	09/07/22 21:57	8/24/22	
Coumaphos	ND U	9.6	3.9	1	09/07/22 21:57	8/24/22	
Demeton-O,S	ND U	4.8	2.2	1	09/07/22 21:57	8/24/22	
Diazinon	ND U	4.8	2.9	1	09/07/22 21:57	8/24/22	
Dichlorvos	ND U	9.6	4.5	1	09/07/22 21:57	8/24/22	
Dimethoate	ND U	4.8	4.0	1	09/07/22 21:57	8/24/22	
Disulfoton	ND U	4.8	0.82	1	09/07/22 21:57	8/24/22	
EPN	ND U	9.6	4.3	1	09/07/22 21:57	8/24/22	
Ethoprop (Prophos)	ND U	4.8	1.9	1	09/07/22 21:57	8/24/22	
Ethyl Parathion	ND U	4.8	1.9	1	09/07/22 21:57	8/24/22	
Fensulfothion	ND U	9.6	7.1	1	09/07/22 21:57	8/24/22	
Fenthion	ND U	4.8	1.9	1	09/07/22 21:57	8/24/22	
Malathion	ND U	4.8	2.0	1	09/07/22 21:57	8/24/22	
Merphos, Total	ND U	9.6	2.7	1	09/07/22 21:57	8/24/22	
Methyl Parathion	ND U	4.8	2.6	1	09/07/22 21:57	8/24/22	
Mevinphos	ND U	9.6	4.5	1	09/07/22 21:57	8/24/22	
Monocrotophos	ND U	19	-	1	09/07/22 21:57	8/24/22	
Naled (Dibrom)	ND U	4.8	1.4	1	09/07/22 21:57	8/24/22	
Phorate	ND U	4.8	2.2	1	09/07/22 21:57	8/24/22	
Ronnel	ND U	4.8	1.6	1	09/07/22 21:57	8/24/22	
Stirophos	ND U	4.8	3.0	1	09/07/22 21:57	8/24/22	
Sulfotep	ND U	4.8	2.3	1	09/07/22 21:57	8/24/22	
Tokuthion	ND U	4.8	2.4	1	09/07/22 21:57	8/24/22	
Trichloronate	ND U	4.8	1.8	1	09/07/22 21:57	8/24/22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Chlorpyrifos-d10	88	70 - 130	09/07/22 21:57	
Diazinon-d10	111	70 - 130	09/07/22 21:57	

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QA/QC Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Analyzed: 09/07/22
Date Extracted: 08/24/22

Lab Control Sample Summary
Organophosphorus Pesticides by GC/MS/MS

Analysis Method: ALS SOP
Prep Method: EPA 3541

Units: ug/Kg
Basis: Dry
Analysis Lot: 776833

Lab Control Sample
KQ2214346-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Azinphos-methyl	85.9	100	86	70-130
Bolstar (Sulprofos)	89.3	100	89	70-130
Chlorpyrifos	82.3	100	82	70-130
Coumaphos	79.8	100	80	70-130
Demeton-O,S	159	200	79	70-130
Diazinon	76.6	100	77	70-130
Dichlorvos	80.9	100	81	70-130
Dimethoate	41.4	100	41 *	70-130
Disulfoton	70.3	100	70	70-130
EPN	82.5	100	83	70-130
Ethoprop (Prophos)	39.5	100	40 *	70-130
Ethyl Parathion	83.2	100	83	70-130
Fensulfothion	77.1	100	77	70-130
Fenthion	82.0	100	82	70-130
Malathion	86.9	100	87	70-130
Merphos, Total	96.1	200	48 *	70-130
Methyl Parathion	87.7	100	88	70-130
Mevinphos	78.4	100	78	70-130
Monocrotophos	25.7	100	26 *	70-130
Naled (Dibrom)	110	100	110	70-130
Phorate	65.3	100	65 *	70-130
Ronnel	75.8	100	76	70-130
Stirophos	74.7	100	75	70-130
Sulfotep	60.7	100	61 *	70-130
Tokuthion	77.6	100	78	70-130
Trichloronate	88.7	100	89	70-130



Semivolatile Organic Compounds by GC

ALS Environmental—Kelso Laboratory
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Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382

SURROGATE RECOVERY SUMMARY
Low Level Organochlorine Pesticides by GC

Analysis Method: 8081B
Extraction Method: EPA 3546

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10-134	10-121
DU1-0-6	K2209382-001	92	95
DU1-6-12	K2209382-002	89	92
DU1-12-18	K2209382-003	93	99
DU1-18-24	K2209382-004	126	121
DU1-24-36	K2209382-005	92	94
DU2-0-6	K2209382-006	85	86
DU2-6-12	K2209382-007	111	102
DU2-12-18	K2209382-008	97	98
DU2-18-24	K2209382-009	135*	132*
DU2-24-36	K2209382-010	137*	129*
DU3-0-6	K2209382-011	135*	124*
DU3-6-12	K2209382-012	100	95
DU3-12-18	K2209382-013	86	85
DU3-18-24	K2209382-014	122	118
DU3-24-36	K2209382-015	133	132*
Method Blank	KQ2214345-07	106	107
Lab Control Sample	KQ2214345-05	137*	138*
Lab Control Sample	KQ2214345-06	134	129*
DU1-0-6	KQ2214345-01	95	89
DU1-0-6	KQ2214345-02	99	95
DU1-0-6	KQ2214345-03	93	91
DU1-0-6	KQ2214345-04	104	112

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QA/QC Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: 08/13/22
Date Received: 08/16/22
Date Analyzed: 09/20/22
Date Extracted: 08/31/22

Duplicate Matrix Spike Summary
Low Level Organochlorine Pesticides by GC

Sample Name: DU1-0-6
Lab Code: K2209382-001
Analysis Method: 8081B
Prep Method: EPA 3546

Units: ug/Kg
Basis: Dry

Analyte Name	Sample Result	Matrix Spike KQ2214345-01			Duplicate Matrix Spike KQ2214345-02			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Chlordane	ND U	176	190	92	226	212	106	31-126	25	40
Toxaphene	ND U	772	761	101	910	850	107	16-114	16	40

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ALS Group USA, Corp.
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QA/QC Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: 08/13/22
Date Received: 08/16/22
Date Analyzed: 09/20/22
Date Extracted: 08/31/22

Duplicate Matrix Spike Summary
Low Level Organochlorine Pesticides by GC

Sample Name: DU1-0-6
Lab Code: K2209382-001
Analysis Method: 8081B
Prep Method: EPA 3546

Units: ug/Kg
Basis: Dry

Analyte Name	Sample Result	Matrix Spike KQ2214345-03			Duplicate Matrix Spike KQ2214345-04			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Aldrin	ND U	20.2	21.8	93 *	21.8	18.6	117 *	18-89	7	40
alpha-BHC	ND U	19.4	21.8	89	21.3	18.6	115 *	16-96	10	40
beta-BHC	ND U	22.5	21.8	104	22.9	18.6	123 *	16-106	1	40
delta-BHC	ND U	21.7	21.8	99 *	23.0	18.6	124 *	20-95	6	40
gamma-BHC (Lindane)	ND U	19.1	21.8	88	20.7	18.6	111 *	17-97	8	40
cis-Chlordane	ND U	20.1	21.8	92	20.7	18.6	111 *	20-93	3	40
trans-Chlordane	0.46 J	19.9	21.8	89	21.4	18.6	113 *	10-103	7	40
4,4'-DDD	ND U	22.8	21.8	105	24.4	18.6	131	10-180	7	40
4,4'-DDE	4.8	26.8	21.8	101 *	27.7	18.6	123 *	17-94	3	40
4,4'-DDT	ND U	28.3 P	21.8	130 *	26.9	18.6	145 *	17-104	5	40
Dieldrin	1.5	21.8	21.8	93 *	23.8	18.6	120 *	19-88	9	40
Endosulfan I	ND U	15.9	21.8	73	16.2	18.6	87	16-87	2	40
Endosulfan II	ND U	18.7	21.8	86	19.1	18.6	103	15-117	2	40
Endosulfan Sulfate	ND U	25.8 P	21.8	119 *	21.1	18.6	114 *	17-98	20	40
Endrin	ND U	21.1	21.8	97	27.6 P	18.6	148 *	10-107	27	40
Endrin Aldehyde	ND U	20.3	21.8	93	19.3	18.6	104 *	21-94	5	40
Endrin Ketone	ND U	19.8	21.8	91	20.1	18.6	108 *	19-97	1	40
Heptachlor	ND U	21.9	21.8	101	26.7	18.6	143 *	13-111	19	40
Heptachlor Epoxide	ND U	20.4	21.8	94 *	21.3	18.6	115 *	18-92	4	40
Methoxychlor	ND U	25.9	21.8	119	25.1	18.6	135 *	17-122	3	40

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: KQ2214345-07

Units: ug/Kg
Basis: Dry

Low Level Organochlorine Pesticides by GC

Analysis Method: 8081B
Prep Method: EPA 3546

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aldrin	ND U	2.0	0.59	1	09/20/22 04:56	8/31/22	
alpha-BHC	ND U	1.0	0.29	1	09/20/22 04:56	8/31/22	
beta-BHC	ND U	1.0	0.27	1	09/20/22 04:56	8/31/22	
delta-BHC	ND U	1.0	0.28	1	09/20/22 04:56	8/31/22	
gamma-BHC (Lindane)	ND U	1.0	0.31	1	09/20/22 04:56	8/31/22	
Chlordane	ND U	10	4.8	1	09/20/22 04:56	8/31/22	
cis-Chlordane	ND U	1.0	0.41	1	09/20/22 04:56	8/31/22	
trans-Chlordane	ND U	1.0	0.38	1	09/20/22 04:56	8/31/22	
4,4'-DDD	ND U	2.0	0.60	1	09/20/22 04:56	8/31/22	
4,4'-DDE	ND U	1.0	0.40	1	09/20/22 04:56	8/31/22	
4,4'-DDT	ND U	2.0	0.61	1	09/20/22 04:56	8/31/22	
Dieldrin	ND U	0.69	0.22	1	09/20/22 04:56	8/31/22	
Endosulfan I	ND U	1.0	0.37	1	09/20/22 04:56	8/31/22	
Endosulfan II	ND U	2.0	0.69	1	09/20/22 04:56	8/31/22	
Endosulfan Sulfate	ND U	2.0	0.99	1	09/20/22 04:56	8/31/22	
Endrin	ND U	1.0	0.32	1	09/20/22 04:56	8/31/22	
Endrin Aldehyde	ND U	2.0	0.89	1	09/20/22 04:56	8/31/22	
Endrin Ketone	ND U	1.0	0.45	1	09/20/22 04:56	8/31/22	
Heptachlor	ND U	1.0	0.39	1	09/20/22 04:56	8/31/22	
Heptachlor Epoxide	ND U	2.0	0.66	1	09/20/22 04:56	8/31/22	
Methoxychlor	ND U	2.0	0.71	1	09/20/22 04:56	8/31/22	
Toxaphene	ND U	100	34	1	09/20/22 04:56	8/31/22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	106	10 - 134	09/20/22 04:56	
Tetrachloro-m-xylene	107	10 - 121	09/20/22 04:56	

ALS Group USA, Corp.
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QA/QC Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Analyzed: 09/20/22
Date Extracted: 08/31/22

Lab Control Sample Summary
Low Level Organochlorine Pesticides by GC

Analysis Method: 8081B
Prep Method: EPA 3546

Units: ug/Kg
Basis: Dry
Analysis Lot: 779105

Lab Control Sample
KQ2214345-05

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
4,4'-DDD	34.2	25.0	137	10-180
4,4'-DDE	36.6	25.0	146 *	17-94
4,4'-DDT	44.0 P	25.0	176 *	17-104
Aldrin	33.0	25.0	132 *	18-89
alpha-BHC	31.8	25.0	127 *	16-96
beta-BHC	33.2	25.0	133 *	16-106
cis-Chlordane	31.8	25.0	127 *	20-93
delta-BHC	35.1	25.0	140 *	20-95
Dieldrin	33.6	25.0	134 *	19-88
Endosulfan I	25.8	25.0	103 *	16-87
Endosulfan II	30.7	25.0	123 *	15-117
Endosulfan Sulfate	32.4	25.0	129 *	17-98
Endrin	34.9	25.0	139 *	10-107
Endrin Aldehyde	32.4	25.0	129 *	21-94
Endrin Ketone	33.0	25.0	132 *	19-97
gamma-BHC (Lindane)	30.8	25.0	123 *	17-97
Heptachlor	34.4	25.0	138 *	13-111
Heptachlor Epoxide	32.3	25.0	129 *	18-92
Methoxychlor	40.8	25.0	163 *	17-122
trans-Chlordane	31.5	25.0	126 *	10-103

ALS Group USA, Corp.
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QA/QC Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Analyzed: 09/20/22
Date Extracted: 08/31/22

Lab Control Sample Summary
Low Level Organochlorine Pesticides by GC

Analysis Method: 8081B
Prep Method: EPA 3546

Units: ug/Kg
Basis: Dry
Analysis Lot: 779105

Lab Control Sample
KQ2214345-06

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Chlordane	303	250	121	31-126
Toxaphene	1430	1000	143 *	16-114

ALS Group USA, Corp.
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Confirmation Results

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Matrix: Soil
Sample Name: DU1-0-6
Lab Code: K2209382-001

Service Request: K2209382
Date Collected: 08/13/22 15:00
Date Received: 8/16/22

Units: ug/Kg
Basis: Dry
Percent Solids: 95.0

Low Level Organochlorine Pesticides by GC

Analytical Method: 8081B
Prep Method: EPA 3546

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDE	0.40	4.8	4.0	18		1	09/20/22 09:35
Dieldrin	0.22	1.5	1.5	<1		1	09/20/22 09:35
trans-Chlordane	0.38	0.46	0.70	41	JP	1	09/20/22 09:35

ALS Group USA, Corp.
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Confirmation Results

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Matrix: Soil
Sample Name: DU1-6-12
Lab Code: K2209382-002

Service Request: K2209382
Date Collected: 08/13/22 15:10
Date Received: 8/16/22

Units: ug/Kg
Basis: Dry
Percent Solids: 95.0

Low Level Organochlorine Pesticides by GC

Analytical Method: 8081B
Prep Method: EPA 3546

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDD	0.61	2.5	2.4	4		1	09/20/22 10:16
4,4'-DDE	0.41	12	9.8	20		1	09/20/22 10:16
4,4'-DDT	0.62	6.7	4.4	41	P	1	09/20/22 10:16
Chlordane	4.9	17	19	11		1	09/20/22 10:16
Dieldrin	0.23	2.8	2.1	29		1	09/20/22 10:16
Methoxychlor	0.72	27	23	16		1	09/20/22 10:16
cis-Chlordane	0.42	1.3	1.4	7		1	09/20/22 10:16
trans-Chlordane	0.39	1.5	1.8	18		1	09/20/22 10:16

ALS Group USA, Corp.
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Confirmation Results

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Matrix: Soil
Sample Name: DU1-12-18
Lab Code: K2209382-003

Service Request: K2209382
Date Collected: 08/13/22 15:20
Date Received: 8/16/22

Units: ug/Kg
Basis: Dry
Percent Solids: 94.8

Low Level Organochlorine Pesticides by GC

Analytical Method: 8081B
Prep Method: EPA 3546

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDE	0.40	1.4	1.2	15		1	09/20/22 10:56

ALS Group USA, Corp.
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Confirmation Results

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Matrix: Soil
Sample Name: DU1-18-24
Lab Code: K2209382-004

Service Request: K2209382
Date Collected: 08/13/22 15:30
Date Received: 8/16/22

Units: ug/Kg
Basis: Dry
Percent Solids: 94.0

Low Level Organochlorine Pesticides by GC

Analytical Method: 8081B
Prep Method: EPA 3546

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
beta-BHC	0.27	0.74	1.7	79	JP	1	10/02/22 22:33

ALS Group USA, Corp.
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Confirmation Results

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Matrix: Soil
Sample Name: DU2-0-6
Lab Code: K2209382-006

Service Request: K2209382
Date Collected: 08/13/22 10:00
Date Received: 8/16/22

Units: ug/Kg
Basis: Dry
Percent Solids: 96.4

Low Level Organochlorine Pesticides by GC

Analytical Method: 8081B
Prep Method: EPA 3546

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDE	0.40	2.8	1.7	49	P	1	09/20/22 12:56
4,4'-DDT	0.61	6.0	3.4	55	P	1	09/20/22 12:56
cis-Chlordane	0.41	0.59	0.91	43	JP	1	09/20/22 12:56
trans-Chlordane	0.38	0.45	0.67	39	J	1	09/20/22 12:56

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Confirmation Results

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Matrix: Soil
Sample Name: DU2-6-12
Lab Code: K2209382-007

Service Request: K2209382
Date Collected: 08/13/22 10:10
Date Received: 8/16/22

Units: ug/Kg
Basis: Dry
Percent Solids: 93.2

Low Level Organochlorine Pesticides by GC

Analytical Method: 8081B
Prep Method: EPA 3546

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDT	3.1	64	47	31		5	10/02/22 23:52
4,4'-DDD	0.60	5.4	8.8	48	P	1	09/20/22 17:34
4,4'-DDE	0.40	21	17	21		1	09/20/22 17:34
Chlordane	4.8	39	54	32		1	09/20/22 17:34
Dieldrin	0.22	2.7	2.2	20		1	09/20/22 17:34
beta-BHC	0.27	1.3	3.5	92	P	1	09/20/22 17:34
cis-Chlordane	0.41	3.1	2.9	7		1	09/20/22 17:34
trans-Chlordane	0.38	2.7	3.1	14		1	09/20/22 17:34

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dba ALS Environmental

Confirmation Results

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Matrix: Soil
Sample Name: DU2-12-18
Lab Code: K2209382-008

Service Request: K2209382
Date Collected: 08/13/22 10:20
Date Received: 8/16/22

Units: ug/Kg
Basis: Dry
Percent Solids: 92.7

Low Level Organochlorine Pesticides by GC

Analytical Method: 8081B
Prep Method: EPA 3546

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDE	4.0	73	59	21		10	10/03/22 02:32
4,4'-DDT	6.1	190	120	45	P	10	10/03/22 02:32
4,4'-DDD	0.60	8.2	12	38		1	09/20/22 18:14
Chlordane	4.8	35	41	16		1	09/20/22 18:14
Dieldrin	0.22	4.3	2.2	65	P	1	09/20/22 18:14
alpha-BHC	0.29	0.36	0.38	5	J	1	09/20/22 18:14
cis-Chlordane	0.41	2.0	1.8	11		1	09/20/22 18:14
trans-Chlordane	0.38	2.5	2.7	8		1	09/20/22 18:14

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Confirmation Results

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Matrix: Soil
Sample Name: DU2-18-24
Lab Code: K2209382-009

Service Request: K2209382
Date Collected: 08/13/22 10:30
Date Received: 8/16/22

Units: ug/Kg
Basis: Dry
Percent Solids: 93.4

Low Level Organochlorine Pesticides by GC

Analytical Method: 8081B
Prep Method: EPA 3546

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDE	0.40	4.7	3.9	19		1	09/20/22 18:54

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Confirmation Results

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Matrix: Soil
Sample Name: DU2-24-36
Lab Code: K2209382-010

Service Request: K2209382
Date Collected: 08/13/22 10:40
Date Received: 8/16/22

Units: ug/Kg
Basis: Dry
Percent Solids: 91.5

Low Level Organochlorine Pesticides by GC

Analytical Method: 8081B
Prep Method: EPA 3546

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDE	0.40	1.9	1.7	11		1	09/20/22 19:34

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Matrix: Soil
Sample Name: DU3-0-6
Lab Code: K2209382-011

Service Request: K2209382
Date Collected: 08/13/22 13:00
Date Received: 8/16/22

Units: ug/Kg
Basis: Dry
Percent Solids: 95.5

Low Level Organochlorine Pesticides by GC

Analytical Method: 8081B
Prep Method: EPA 3546

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDE	2.0	140	100	33		5	10/03/22 00:32
4,4'-DDT	3.1	130	92	34		5	10/03/22 00:32
4,4'-DDD	0.60	33	26	24		1	09/20/22 20:14
Chlordane	4.8	180	240	29		1	09/20/22 20:14
Dieldrin	0.22	27	23	16		1	09/20/22 20:14
Endrin Ketone	0.45	0.66	1.1	50	JP	1	09/20/22 20:14
Heptachlor Epoxide	0.66	1.5	2.0	29	J	1	09/20/22 20:14
cis-Chlordane	0.41	22	19	15		1	09/20/22 20:14
trans-Chlordane	0.38	19	20	5		1	09/20/22 20:14

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Matrix: Soil
Sample Name: DU3-6-12
Lab Code: K2209382-012

Service Request: K2209382
Date Collected: 08/13/22 13:10
Date Received: 8/16/22

Units: ug/Kg
Basis: Dry
Percent Solids: 95.5

Low Level Organochlorine Pesticides by GC

Analytical Method: 8081B
Prep Method: EPA 3546

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDD	62	190	300	45	JP	100	10/03/22 03:11
4,4'-DDE	42	300	270	11		100	10/03/22 03:11
Dieldrin	23	93	110	17	J	100	10/03/22 03:11
Chlordane	5.0	93	190	69	P	1	09/20/22 20:53
Endrin Ketone	0.47	1.8	1.7	6		1	09/20/22 20:53
Heptachlor Epoxide	0.69	1.3	2.5	63	JP	1	09/20/22 20:53
cis-Chlordane	0.43	13	10	26		1	09/20/22 20:53
trans-Chlordane	0.40	10	12	18		1	09/20/22 20:53
4,4'-DDT	130	5400	5600	4		200	10/18/22 11:01

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dba ALS Environmental

Confirmation Results

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Matrix: Soil
Sample Name: DU3-12-18
Lab Code: K2209382-013

Service Request: K2209382
Date Collected: 08/13/22 13:20
Date Received: 8/16/22

Units: ug/Kg
Basis: Dry
Percent Solids: 95.6

Low Level Organochlorine Pesticides by GC

Analytical Method: 8081B
Prep Method: EPA 3546

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDE	2.0	17	14	19		5	10/03/22 01:12
4,4'-DDT	3.1	75	53	34		5	10/03/22 01:12
4,4'-DDD	0.60	19	14	30		1	09/20/22 21:33
Chlordane	4.8	14	26	60	P	1	09/20/22 21:33
Dieldrin	0.22	2.5	0.94	91	P	1	09/20/22 21:33
cis-Chlordane	0.41	1.8	1.4	25		1	09/20/22 21:33
trans-Chlordane	0.38	2.2	1.8	20		1	09/20/22 21:33

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Matrix: Soil
Sample Name: DU3-18-24
Lab Code: K2209382-014

Service Request: K2209382
Date Collected: 08/13/22 13:30
Date Received: 8/16/22

Units: ug/Kg
Basis: Dry
Percent Solids: 93.7

Low Level Organochlorine Pesticides by GC

Analytical Method: 8081B
Prep Method: EPA 3546

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDT	3.1	88	39	77	P	5	10/03/22 01:52
4,4'-DDD	0.60	8.0	7.5	6		1	09/20/22 22:13
4,4'-DDE	0.40	16	12	29		1	09/20/22 22:13
Chlordane	4.8	12	15	22		1	09/20/22 22:13
cis-Chlordane	0.41	0.58	0.55	5	J	1	09/20/22 22:13
trans-Chlordane	0.38	0.76	0.89	16	J	1	09/20/22 22:13

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Matrix: Soil
Sample Name: DU3-24-36
Lab Code: K2209382-015

Service Request: K2209382
Date Collected: 08/13/22 13:40
Date Received: 8/16/22

Units: ug/Kg
Basis: Dry
Percent Solids: 94.1

Low Level Organochlorine Pesticides by GC

Analytical Method: 8081B
Prep Method: EPA 3546

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDT	1.3	69	37	60	P	2	10/02/22 23:13
4,4'-DDD	0.60	3.2	7.1	76	P	1	09/20/22 22:52
4,4'-DDE	0.40	6.1	4.4	32		1	09/20/22 22:52
Dieldrin	0.22	0.86	0.68	23	J	1	09/20/22 22:52

ALS Group USA, Corp.
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Confirmation Results

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Matrix: Soil
Sample Name: DU1-0-6
Lab Code: KQ2214345-01

Service Request: K2209382
Date Collected: 08/13/22 15:00
Date Received: 8/16/22

Units: ug/Kg
Basis: Dry
Percent Solids: 95.0

Low Level Organochlorine Pesticides by GC

Analytical Method: 8081B
Prep Method: EPA 3546

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Chlordane	4.8	176	204	15		1	09/20/22 08:16
Toxaphene	34	772	615	23		1	09/20/22 08:16

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Matrix: Soil
Sample Name: DU1-0-6
Lab Code: KQ2214345-02

Service Request: K2209382
Date Collected: 08/13/22 15:00
Date Received: 8/16/22

Units: ug/Kg
Basis: Dry
Percent Solids: 95.0

Low Level Organochlorine Pesticides by GC

Analytical Method: 8081B
Prep Method: EPA 3546

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Chlordane	4.8	226	286	23		1	09/20/22 08:56
Toxaphene	34	910	764	17		1	09/20/22 08:56

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Matrix: Soil
Sample Name: DU1-0-6
Lab Code: KQ2214345-03

Service Request: K2209382
Date Collected: 08/13/22 15:00
Date Received: 8/16/22

Units: ug/Kg
Basis: Dry
Percent Solids: 95.0

Low Level Organochlorine Pesticides by GC

Analytical Method: 8081B
Prep Method: EPA 3546

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDD	0.60	22.8	18.1	23		1	09/20/22 06:56
4,4'-DDE	0.40	26.8	19.9	30		1	09/20/22 06:56
4,4'-DDT	0.61	28.3	18.6	41	P	1	09/20/22 06:56
Aldrin	0.59	20.2	17.8	13		1	09/20/22 06:56
Dieldrin	0.22	21.8	19.5	11		1	09/20/22 06:56
Endosulfan I	0.37	15.9	14.4	10		1	09/20/22 06:56
Endosulfan II	0.69	18.7	16.0	16		1	09/20/22 06:56
Endosulfan Sulfate	0.99	25.8	17.1	41	P	1	09/20/22 06:56
Endrin	0.32	21.1	16.0	27		1	09/20/22 06:56
Endrin Aldehyde	0.89	20.3	16.7	19		1	09/20/22 06:56
Endrin Ketone	0.45	19.8	16.5	18		1	09/20/22 06:56
Heptachlor	0.39	21.9	17.1	25		1	09/20/22 06:56
Heptachlor Epoxide	0.66	20.4	17.4	16		1	09/20/22 06:56
Methoxychlor	0.71	25.9	18.7	32		1	09/20/22 06:56
alpha-BHC	0.29	19.4	20.9	7		1	09/20/22 06:56
beta-BHC	0.27	22.5	18.3	21		1	09/20/22 06:56
cis-Chlordane	0.41	20.1	17.6	13		1	09/20/22 06:56
delta-BHC	0.28	21.7	17.1	24		1	09/20/22 06:56
gamma-BHC (Lindane)	0.31	19.1	22.3	15		1	09/20/22 06:56
trans-Chlordane	0.38	19.9	15.9	22		1	09/20/22 06:56

ALS Group USA, Corp.
dba ALS Environmental

Confirmation Results

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Matrix: Soil
Sample Name: DU1-0-6
Lab Code: KQ2214345-04

Service Request: K2209382
Date Collected: 08/13/22 15:00
Date Received: 8/16/22

Units: ug/Kg
Basis: Dry
Percent Solids: 95.0

Low Level Organochlorine Pesticides by GC

Analytical Method: 8081B
Prep Method: EPA 3546

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDD	0.60	24.4	24.1	1		1	09/20/22 07:36
4,4'-DDE	0.40	27.7	22.4	21		1	09/20/22 07:36
4,4'-DDT	0.61	26.9	21.0	25		1	09/20/22 07:36
Aldrin	0.59	21.8	19.0	14		1	09/20/22 07:36
Dieldrin	0.22	23.8	20.9	13		1	09/20/22 07:36
Endosulfan I	0.37	16.2	15.2	6		1	09/20/22 07:36
Endosulfan II	0.69	19.1	17.0	12		1	09/20/22 07:36
Endosulfan Sulfate	0.99	21.1	18.4	14		1	09/20/22 07:36
Endrin	0.32	27.6	17.2	46	P	1	09/20/22 07:36
Endrin Aldehyde	0.89	19.3	16.6	15		1	09/20/22 07:36
Endrin Ketone	0.45	20.1	19.0	6		1	09/20/22 07:36
Heptachlor	0.39	26.7	18.4	37		1	09/20/22 07:36
Heptachlor Epoxide	0.66	21.3	18.3	15		1	09/20/22 07:36
Methoxychlor	0.71	25.1	24.7	2		1	09/20/22 07:36
alpha-BHC	0.29	21.3	22.6	6		1	09/20/22 07:36
beta-BHC	0.27	22.9	19.5	16		1	09/20/22 07:36
cis-Chlordane	0.41	20.7	19.2	8		1	09/20/22 07:36
delta-BHC	0.28	23.0	18.0	24		1	09/20/22 07:36
gamma-BHC (Lindane)	0.31	20.7	23.5	13		1	09/20/22 07:36
trans-Chlordane	0.38	21.4	17.6	19		1	09/20/22 07:36

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Confirmation Results

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Matrix: Soil

Service Request: K2209382
Date Collected: NA
Date Received:

Sample Name: Lab Control Sample
Lab Code: KQ2214345-05

Units: ug/Kg
Basis: Dry

Low Level Organochlorine Pesticides by GC

Analytical Method: 8081B
Prep Method: EPA 3546

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDD	0.60	34.2	27.5	22		1	09/20/22 05:36
4,4'-DDE	0.40	36.6	25.8	35		1	09/20/22 05:36
4,4'-DDT	0.61	44.0	25.9	52	P	1	09/20/22 05:36
Aldrin	0.59	33.0	28.5	15		1	09/20/22 05:36
Dieldrin	0.22	33.6	26.4	24		1	09/20/22 05:36
Endosulfan I	0.37	25.8	21.4	19		1	09/20/22 05:36
Endosulfan II	0.69	30.7	23.8	25		1	09/20/22 05:36
Endosulfan Sulfate	0.99	32.4	27.2	17		1	09/20/22 05:36
Endrin	0.32	34.9	25.3	32		1	09/20/22 05:36
Endrin Aldehyde	0.89	32.4	25.4	24		1	09/20/22 05:36
Endrin Ketone	0.45	33.0	25.6	25		1	09/20/22 05:36
Heptachlor	0.39	34.4	27.5	22		1	09/20/22 05:36
Heptachlor Epoxide	0.66	32.3	26.5	20		1	09/20/22 05:36
Methoxychlor	0.71	40.8	29.0	34		1	09/20/22 05:36
alpha-BHC	0.29	31.8	35.3	10		1	09/20/22 05:36
beta-BHC	0.27	33.2	28.0	17		1	09/20/22 05:36
cis-Chlordane	0.41	31.8	25.8	21		1	09/20/22 05:36
delta-BHC	0.28	35.1	27.1	26		1	09/20/22 05:36
gamma-BHC (Lindane)	0.31	30.8	34.3	11		1	09/20/22 05:36
trans-Chlordane	0.38	31.5	24.5	25		1	09/20/22 05:36

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Confirmation Results

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Matrix: Soil

Service Request: K2209382
Date Collected: NA
Date Received:

Sample Name: Lab Control Sample
Lab Code: KQ2214345-06

Units: ug/Kg
Basis: Dry

Low Level Organochlorine Pesticides by GC

Analytical Method: 8081B
Prep Method: EPA 3546

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Chlordane	4.8	303	369	20		1	09/20/22 06:16
Toxaphene	34	1430	1130	23		1	09/20/22 06:16

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Confirmation Results

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Matrix: Soil

Service Request: K2209382
Date Collected: NA
Date Received:

Sample Name: Continuing Calibration Blank
Lab Code: KQ2218141-03

Units: ug/Kg
Basis: Dry

Low Level Organochlorine Pesticides by GC

Analytical Method: 8081B
Prep Method: None

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
4,4'-DDE	0.40	0.83	1.3	44	J	1	10/18/22 10:21

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	2,4-Dichlorophenylacetic Acid 26-127
DU1-0-6	K2209382-001	96
DU2-0-6	K2209382-006	90
DU3-0-6	K2209382-011	74
Method Blank	KQ2217627-01	68
Lab Control Sample	KQ2217627-02	61
DU1-0-6	KQ2217627-03	102
DU1-0-6	KQ2217627-04	87

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QA/QC Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: 08/13/22
Date Received: 08/16/22
Date Analyzed: 10/13/22
Date Extracted: 10/11/22

Duplicate Matrix Spike Summary
Chlorinated Herbicides by GC

Sample Name: DU1-0-6
Lab Code: K2209382-001
Analysis Method: 8151A
Prep Method: Method

Units: ug/Kg
Basis: Dry

Analyte Name	Matrix Spike KQ2217627-03				Duplicate Matrix Spike KQ2217627-04				RPD	RPD Limit
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
2,4,5-T	4.2 J	191	175	107	177	173	100	21-137	7	40
2,4,5-TP (Silvex)	6.6 J	169	175	93	149	173	82	34-129	13	40
2,4-D	18 J	181	175	93	148	173	76	35-129	20	40
2,4-DB	ND U	125	175	71	180	173	104	20-131	37	40
Dalapon	ND U	110	175	63	92.1	173	53	14-100	18	40
Dicamba	ND U	178	175	102	166	173	96	32-129	7	40
Dichlorprop	ND U	151	175	86	142	173	82	23-140	6	40
Dinoseb	ND U	111	175	63	103	173	60	10-121	7	40
MCPA	7700	24800	17500	98	19800	17300	70	13-130	22	40
MCPP	ND U	14900 P	17500	85	15500	17300	90	10-169	4	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: KQ2217627-01

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	ND U	49	4.0	1	10/13/22 13:50	10/11/22	
2,4,5-TP (Silvex)	ND U	49	2.4	1	10/13/22 13:50	10/11/22	
2,4-D	ND U	49	7.7	1	10/13/22 13:50	10/11/22	
2,4-DB	ND U	49	5.4	1	10/13/22 13:50	10/11/22	
Dalapon	ND U	49	5.5	1	10/13/22 13:50	10/11/22	
Dicamba	ND U	49	4.3	1	10/13/22 13:50	10/11/22	
Dichlorprop	ND U	49	3.4	1	10/13/22 13:50	10/11/22	
Dinoseb	ND U	49	2.7	1	10/13/22 13:50	10/11/22	
MCPA	ND U	4900	320	1	10/13/22 13:50	10/11/22	
MCPP	ND U	4900	460	1	10/13/22 13:50	10/11/22	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	68	26 - 127	10/13/22 13:50	

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QA/QC Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Analyzed: 10/13/22
Date Extracted: 10/11/22

Lab Control Sample Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Units: ug/Kg
Basis: Dry
Analysis Lot: 781234

Lab Control Sample
KQ2217627-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
2,4,5-T	132	167	79	44-125
2,4,5-TP (Silvex)	112	167	67	46-125
2,4-D	110	167	66	46-120
2,4-DB	128	167	77	30-126
Dalapon	51.0	167	31	13-100
Dicamba	122	167	73	43-119
Dichlorprop	111	167	67	47-108
Dinoseb	107	167	64	25-110
MCPA	10900	16700	66	40-128
MCPP	11700	16700	70	49-134

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Confirmation Results

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Matrix: Soil
Sample Name: DU1-0-6
Lab Code: K2209382-001

Service Request: K2209382
Date Collected: 08/13/22 15:00
Date Received: 8/16/22

Units: ug/Kg
Basis: Dry
Percent Solids: 95.0

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T	4.2	4.2	8.9	72	JP	1	10/13/22 15:25
2,4,5-TP (Silvex)	2.5	6.6	11	50	JP	1	10/13/22 15:25
2,4-D	8.0	18	21	15	J	1	10/13/22 15:25
MCPA	330	7700	8300	8		1	10/13/22 15:25

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Confirmation Results

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Matrix: Soil
Sample Name: DU2-0-6
Lab Code: K2209382-006

Service Request: K2209382
Date Collected: 08/13/22 10:00
Date Received: 8/16/22

Units: ug/Kg
Basis: Dry
Percent Solids: 96.4

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T	4.2	4.3	8.5	66	JP	1	10/13/22 15:48
2,4,5-TP (Silvex)	2.5	6.3	6.4	2	J	1	10/13/22 15:48
2,4-D	8.0	15	16	6	J	1	10/13/22 15:48
MCPA	340	4300	9000	71	JP	1	10/13/22 15:48

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Confirmation Results

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Matrix: Soil
Sample Name: DU3-0-6
Lab Code: K2209382-011

Service Request: K2209382
Date Collected: 08/13/22 13:00
Date Received: 8/16/22

Units: ug/Kg
Basis: Dry
Percent Solids: 95.5

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-TP (Silvex)	2.6	5.5	7.8	35	J	1	10/13/22 16:12
MCPA	340	3500	5400	43	JP	1	10/13/22 16:12

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Confirmation Results

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Matrix: Soil

Service Request: K2209382
Date Collected: NA
Date Received:

Sample Name: Lab Control Sample
Lab Code: KQ2217627-02

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T	4.0	132	154	15		1	10/13/22 14:13
2,4,5-TP (Silvex)	2.4	112	131	16		1	10/13/22 14:13
2,4-D	7.7	110	120	9		1	10/13/22 14:13
2,4-DB	5.4	128	162	23		1	10/13/22 14:13
Dalapon	5.5	51.0	51.5	<1		1	10/13/22 14:13
Dicamba	4.3	122	136	11		1	10/13/22 14:13
Dichlorprop	3.4	111	127	13		1	10/13/22 14:13
Dinoseb	2.7	107	119	11		1	10/13/22 14:13
MCPA	320	10900	13800	23		1	10/13/22 14:13
MCPP	460	11700	12600	7		1	10/13/22 14:13

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Confirmation Results

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Matrix: Soil
Sample Name: DU1-0-6
Lab Code: KQ2217627-03

Service Request: K2209382
Date Collected: 08/13/22 15:00
Date Received: 8/16/22

Units: ug/Kg
Basis: Dry
Percent Solids: 95.0

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T	4.2	191	244	24		1	10/13/22 14:37
2,4,5-TP (Silvex)	2.6	169	192	13		1	10/13/22 14:37
2,4-D	8.1	181	247	31		1	10/13/22 14:37
2,4-DB	5.7	125	170	31		1	10/13/22 14:37
Dalapon	5.8	110	145	27		1	10/13/22 14:37
Dicamba	4.6	178	200	12		1	10/13/22 14:37
Dichlorprop	3.6	151	186	21		1	10/13/22 14:37
Dinoseb	2.9	111	156	34		1	10/13/22 14:37
MCPA	340	24800	29200	16		1	10/13/22 14:37
MCPP	490	14900	24000	47	P	1	10/13/22 14:37

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Confirmation Results

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Matrix: Soil
Sample Name: DU1-0-6
Lab Code: KQ2217627-04

Service Request: K2209382
Date Collected: 08/13/22 15:00
Date Received: 8/16/22

Units: ug/Kg
Basis: Dry
Percent Solids: 95.0

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-T	4.2	177	230	26		1	10/13/22 15:01
2,4,5-TP (Silvex)	2.5	149	180	19		1	10/13/22 15:01
2,4-D	8.0	148	205	32		1	10/13/22 15:01
2,4-DB	5.7	180	226	23		1	10/13/22 15:01
Dalapon	5.8	92.1	115	22		1	10/13/22 15:01
Dicamba	4.5	166	167	<1		1	10/13/22 15:01
Dichlorprop	3.6	142	157	10		1	10/13/22 15:01
Dinoseb	2.9	103	136	28		1	10/13/22 15:01
MCPA	340	19800	25700	26		1	10/13/22 15:01
MCPP	480	15500	19900	25		1	10/13/22 15:01



Metals

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: Method Blank
Lab Code: KQ2214349-03

Service Request: K2209382
Date Collected: NA
Date Received: NA
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Antimony	6020A	ND U	mg/Kg	0.05	0.020	5	09/02/22 10:40	08/30/22	
Arsenic	6020A	ND U	mg/Kg	0.5	0.06	5	09/02/22 10:40	08/30/22	
Barium	6020A	ND U	mg/Kg	0.05	0.020	5	09/02/22 10:40	08/30/22	
Beryllium	6020A	ND U	mg/Kg	0.020	0.006	5	09/02/22 10:40	08/30/22	
Cadmium	6020A	ND U	mg/Kg	0.020	0.007	5	09/02/22 10:40	08/30/22	
Chromium	6020A	0.07 J	mg/Kg	0.20	0.06	5	09/02/22 10:40	08/30/22	
Cobalt	6020A	ND U	mg/Kg	0.020	0.006	5	09/02/22 10:40	08/30/22	
Copper	6020A	ND U	mg/Kg	0.10	0.04	5	09/02/22 10:40	08/30/22	
Lead	6020A	ND U	mg/Kg	0.05	0.020	5	09/02/22 10:40	08/30/22	
Molybdenum	6020A	ND U	mg/Kg	0.05	0.020	5	09/02/22 10:40	08/30/22	
Nickel	6020A	ND U	mg/Kg	0.20	0.03	5	09/02/22 10:40	08/30/22	
Selenium	6020A	ND U	mg/Kg	1.0	0.09	5	09/02/22 10:40	08/30/22	
Silver	6020A	ND U	mg/Kg	0.020	0.004	5	09/02/22 10:40	08/30/22	
Thallium	6020A	ND U	mg/Kg	0.020	0.004	5	09/02/22 10:40	08/30/22	
Vanadium	6020A	ND U	mg/Kg	0.40	0.03	5	09/02/22 10:40	08/30/22	
Zinc	6020A	ND U	mg/Kg	0.5	0.20	5	09/02/22 10:40	08/30/22	

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Analytical Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil
Sample Name: Method Blank
Lab Code: KQ2214403-03

Service Request: K2209382
Date Collected: NA
Date Received: NA
Basis: Dry

Total Metals

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Mercury	7471B	ND U	mg/Kg	0.02	0.002	1	08/26/22 15:49	08/26/22	

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QA/QC Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: 08/13/22
Date Received: 08/16/22
Date Analyzed: 09/2/22
Date Extracted: 08/30/22

Matrix Spike Summary
Total Metals

Sample Name: DU1-0-6
Lab Code: K2209382-001
Analysis Method: 6020A
Prep Method: EPA 3050B

Units: mg/Kg
Basis: Dry

Matrix Spike
KQ2214349-02

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Antimony	0.206	35.8	97.4	37 N	75-125
Arsenic	6.44	106	97.4	102	75-125
Barium	169	319	195	77	75-125
Beryllium	0.474	10.6	9.74	104	75-125
Cadmium	0.148	10.0	9.74	102	75-125
Chromium	44.1	84.3	38.9	103	75-125
Cobalt	27.9	116	97.4	91	75-125
Copper	53.7	100	48.7	96	75-125
Lead	22.5	124	97.4	104	75-125
Molybdenum	0.407	94.9	97.4	97	75-125
Nickel	29.7	126	97.4	99	75-125
Selenium	0.11 J	97.6	97.4	100	75-125
Silver	0.045	9.86	9.74	101	75-125
Thallium	0.094	20.2	19.5	103	75-125
Vanadium	74.6	169	97.4	97	75-125
Zinc	82.7	190	97.4	110	75-125

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

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QA/QC Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: 08/13/22
Date Received: 08/16/22
Date Analyzed: 09/02/22

Replicate Sample Summary
Total Metals

Sample Name: DU1-0-6
Lab Code: K2209382-001

Units: mg/Kg
Basis: Dry

Analyte Name	Analysis Method	MRL	MDL	Sample Result	Duplicate	Average	RPD	RPD Limit
					Sample KQ2214349-01 Result			
Antimony	6020A	0.052	0.021	0.206	0.189	0.198	9	20
Arsenic	6020A	0.52	0.06	6.44	6.79	6.62	5	20
Barium	6020A	0.052	0.021	169	133	151	24 *	20
Beryllium	6020A	0.021	0.006	0.474	0.436	0.455	9	20
Cadmium	6020A	0.021	0.007	0.148	0.163	0.156	9	20
Chromium	6020A	0.21	0.06	44.1	43.6	43.9	1	20
Cobalt	6020A	0.021	0.006	27.9	19.8	23.9	34 *	20
Copper	6020A	0.10	0.04	53.7	54.8	54.3	2	20
Lead	6020A	0.052	0.021	22.5	22.2	22.4	1	20
Molybdenum	6020A	0.052	0.021	0.407	0.406	0.407	<1	20
Nickel	6020A	0.21	0.03	29.7	27.5	28.6	8	20
Selenium	6020A	1.0	0.09	0.1 J	0.1 J	0.1	<1	20
Silver	6020A	0.021	0.004	0.045	0.059	0.052	26 #	20
Thallium	6020A	0.021	0.004	0.094	0.076	0.085	21 #	20
Vanadium	6020A	0.42	0.03	74.6	73.5	74.1	2	20
Zinc	6020A	0.52	0.21	82.7	99.0	90.9	18	20

Results flagged with an asterisk (*) indicate values outside control criteria.

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Analyzed: 09/02/22

Lab Control Sample Summary
Total Metals

Units:mg/Kg
Basis:Dry

Lab Control Sample
KQ2214349-04

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Antimony	6020A	100	100	100	80-120
Arsenic	6020A	101	100	101	80-120
Barium	6020A	203	200	102	80-120
Beryllium	6020A	10.1	10.0	101	80-120
Cadmium	6020A	10.5	10.0	105	80-120
Chromium	6020A	40.1	40.0	100	80-120
Cobalt	6020A	103	100	103	80-120
Copper	6020A	51.2	50.0	102	80-120
Lead	6020A	102	100	102	80-120
Molybdenum	6020A	106	100	106	80-120
Nickel	6020A	102	100	102	80-120
Selenium	6020A	100	100	100	80-120
Silver	6020A	10.5	10.0	105	80-120
Thallium	6020A	21.1	20.0	105	80-120
Vanadium	6020A	101	100	101	80-120
Zinc	6020A	103	100	103	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Analyzed: 08/26/22

Lab Control Sample Summary
Total Metals

Units:mg/Kg
Basis:Dry

Lab Control Sample
KQ2214403-04

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Mercury	7471B	0.503	0.500	101	80-120



General Chemistry

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360) 577-7222 Fax (360) 425-9096
www.alsglobal.com

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: Alpine Environmental Consultants, LLC
Project: Lozier Lane Supplemental Phase II
Sample Matrix: Soil

Service Request: K2209382
Date Collected: 08/13/22
Date Received: 08/16/22
Date Analyzed: 08/24/22

Replicate Sample Summary
Inorganic Parameters

Sample Name: DU1-0-6
Lab Code: K2209382-001

Units: Percent
Basis: As Received

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K2209382-001DUP Result	Average	RPD	RPD Limit
Solids, Total	160.3 Modified	-	95.0	94.8	94.9	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.