

Focused Subsurface Investigation Report

Acrowood Corp
Site Address: 4425 S 3rd Avenue
Everett, Washington 98203

February 6, 2020

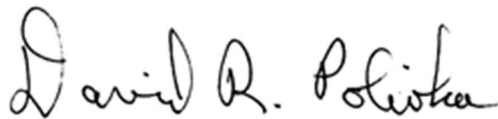
Prepared for:

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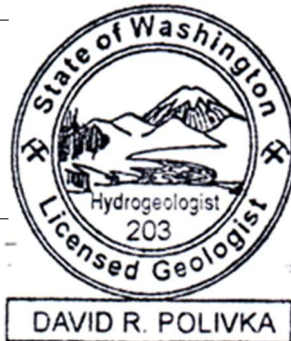
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Table of Contents

1.0	INTRODUCTION	1
1.1	Property Description	1
2.0	BACKGROUND	2
2.1	Adapt Engineering, Inc, November 1999, Preliminary Phase II Environmental Site Assessment	2
2.2	Other Historical Investigations.....	3
3.0	PHYSICAL SETTING	5
3.1	Geology and Hydrogeology.....	5
3.2	Site Geology	5
3.3	Site Hydrogeology	6
4.0	REGULATORY COMPLIANCE AND CONTAMINANTS OF CONCERN	7
4.1	Contaminants of Concern	7
4.2	Cleanup Levels	8
4.2.1	Carcinogenic PAH Cleanup Levels	8
5.0	FOCUSED SUBSURFACE INVESTIGATION	10
5.1	Pre-Site Work Activities	10
5.2	Sample Collection	10
5.3	Analytical Results	11
5.3.1	Soil Sample Analytical Results.....	11
5.3.2	Groundwater Sample Analytical Results.....	14
6.0	SUMMARY AND RECOMMENDATIONS	15
6.1	Summary	15
6.2	Recommendations	16
7.0	QUALIFICATIONS OF THIS REPORT	17
7.1	Use of this Report by Others.....	17
7.2	Uncertainty May Remain after Completion of Site Investigation and Remedial Activities	17
7.3	Subsurface Conditions Can Change	17
7.4	Soil and Groundwater End Use	18
7.5	Most Environmental Findings Are Professional Opinions.....	18
8.0	REFERENCES	19

List of Tables

Table 1: Contaminants of Concern	7
Table 2: Chemical Analysis by Sample Number	11
Table 3: Soil Sample Primary COC Analytical Results.....	12
Table 4: Soil Sample cPAH Analytical Results	14
Table 5: Groundwater Sample Analytical Results - µg/L.....	14
Table 5: Summary of Soil Analytical Results.....	Appendix B

List of Appendices

Appendix A: Project Figures

- Figure 1: Site Location Map
- Figure 2: Site Topographic Map
- Figure 3: Soil Boring Sample Location Map
- Figure 4: Southern Property South to North Cross-Section
- Figure 5: Southern Property East to West Cross-Section
- Figure 6: Test Pit Sample Location Map
- Figure 7: Project Photographs

Appendix B: Project Tables

- Table 5: Summary of Soil Analytical Results

Appendix C: Boring Logs & Test Pit Logs

- Boring Logs
- Test Pit Logs

Appendix D: Analytical Results

- Laboratory Data Sheets
- Chains of Custody

1.0 INTRODUCTION

EcoCon, Inc. (ECI) has prepared this Focused Subsurface Investigation (FSI) Report for the property located at 4425 South 3rd Avenue, Everett, Washington (Subject Property/Property/Site/Subject Site) (Figures 1 and 2, Appendix A). The purpose of this FSI is to explore the subsurface conditions on the parcels south of the main Acrowood facility for any potential environmental impact. ECI understands that the purpose for conducting this FSI is for the potential future sale of the southern parcels.

This report documents the activities and findings of the Focused Subsurface Investigation performed at the Subject Property. The activities included:

- The advancement of sixteen soil borings within the paved southern parking lot and lawn;
- The excavation of five test pits in the wooded areas south of the lawn;
- Sampling soil and groundwater (if present) from the borings for chemical analysis and;
- Providing the analytical results obtained during this FSI.

As established in WAC 173-340-200, the “Site” is defined as:

“...any area where a hazardous substance, other than a consumer product in consumer use, has been deposited, stored, disposed of, or placed or otherwise come to be located...”

For this Property, the “Site” is the full lateral and vertical extent of contamination in the soils and groundwater that has resulted from historical infilling of foundry sand at the Property.

1.1 Property Description

According to the Snohomish County Assessor, the Property consists of five industrial parcels totaling approximately 20.54 acres in size (Snohomish County Tax Parcel numbers 29053200200100, 29053200200200, 29053200201400, 29053200205900, and 29053200304200). This investigation explored only the parcels located south of the main Acrowood facility, which include parcel numbers 29053200200200, 29053200201400, 29053200205900, and 29053200304200 (Southern Parcels). These parcels combined total approximately 13.67 acres in size. According to information obtained at the Snohomish County Assessor's office, the site is zoned “M-1” for general manufacturing/industrial uses.

In January 2019, the boundary between parcel number 29053200200100 (Northern Parcel) and 29053200200200 (the northern most of the Southern Parcels) was redrawn so that parcel 29053200200100 would encompass all of the buildings north of the gate leading to the Acrowood facility. The northern parcel was adjusted south, adding an additional 389,076 square feet. As of the date of this report, the change is not reflected on the Snohomish County Assessor's Internet Property Information Map.

Areas of the Northern Parcel are currently the subject of an active VCP agreement with the Department of Ecology (VCP Project No.: NW2151, Cleanup Site ID No.: 4703). Because of Acrowood's intent to sell the Southern Parcels, ECI is submitting this report with the intent that if a VCP agreement is to be required, that it should be separate from that of the Northern Parcel to facilitate the ability to sell the Southern Parcels without the VCP Agreement on the Northern Parcel attached to them.

2.0 BACKGROUND

A historical review of the Subject Property was conducted by ECI which revealed that the Property had been occupied as far back as 1913 when Sumner Iron Works constructed the main building and occupied the site. The Site was then operated as a metal foundry and fabrication facility specializing in forestry equipment between 1913 and the 1970's. During the time that Sumner Iron Works operated the foundry, a disturbed area can be observed in what is the present-day parking lot area in aerial photographs between 1947 and 1955 that ECI reviewed. The aerial photograph from 1969 shows that the parking area was paved and that the disturbed area moved south. An interview with an Acrowood employee who had worked at the facility while the foundry was still operating indicated that this area was where Sumner Iron Works disposed of waste foundry sand (WFS).

The Property was purchased by Black-Clawson-Sumner and operated as a fabrication facility between the 1970's and 1984 when Acrowood purchased the property. Today, the Property is operated as a fabrication facility specializing in machinery used in the pulp and paper industry.

2.1 Adapt Engineering, Inc, November 1999, Preliminary Phase II Environmental Site Assessment

In November 1999, Adapt Engineering, Inc (Adapt) conducted a Preliminary Phase II Environmental Site Assessment (ESA) to evaluate potential impacts from recognized environmental conditions identified in a Phase I ESA previously performed by Adapt dated August 20, 1999. The Phase I ESA had identified five potential recognized environmental conditions that included:

- A former (heating oil) underground storage tank,
- An area where a former fuel oil tank was located,
- A paint storage building,
- Iron and foundry waste fill area, and
- A storm water discharge pipe.

The Preliminary Phase II assessed the soil, and groundwater, conditions beneath the Property to provide data for evaluation of possible contaminants associated with the identified recognized environmental conditions.

The Preliminary Phase II ESA consisted of advancing 16 Geoprobe® borings to depths between 8 and 22 feet in the five abovementioned areas of concern. Representative soil and groundwater samples were collected for analytical testing. The field and analytical data reportedly suggested that three of the four areas of concern exhibited petroleum hydrocarbon or halogenated volatile organic compounds in soil or groundwater above MTCA Method A Cleanup Levels. The following recognized environmental concerns were assessed during the Preliminary Phase II ESA:

- Paint Storage Building (located on the Northern Parcel): Based on waste notification documents and discussions with Acrowood personnel, chlorinated and other solvents including trichloroethylene (TCE), 1,1,1-Trichloroethane (TCA), Methyl Ethyl Ketone (MEK), and mineral spirits were used prior to 1995 to clean parts, and as paint thinners in the paint area. These chemicals were reportedly stored in the paint/solvent storage building located at the southern end of the main building (located on the Northern Parcel). Analytical results from borings placed

in and around the Paint/Solvent Storage Building indicated that there had been a release of chlorinated solvents to soil and groundwater beneath the building.

- Former Underground Heating Oil Tank (located on the Northern Parcel): Anecdotal information indicated that a former gasoline underground storage tank (UST) was located between the Maintenance Shop and the Storeroom east of the Machine Shop. The UST was reportedly removed in the late 1970s. No information was available on the UST removal. Analytical results from three borings placed in and around the former UST indicated that there had been a diesel release beneath the location of the former UST.
- Former Fuel Oil Tanks (located on the Northern Parcel): The 1960 Sanborn Map, reviewed by ADAPT, reportedly depicts suspect fuel oil tanks located adjacent to the steel shop on the east edge of the site. According to Acrowood personnel, the tanks were removed prior to the 1970s when Acrowood purchased the site. Additional information was not available regarding the nature of these suspected tanks. Analytical results from borings placed in and around the suspected fuel oil tanks area indicated that there had been a release of petroleum hydrocarbons.
- Waste Iron and Slag Fill Material (located on the Southern Parcels): Adapt indicated that field observations made along the eastern edge of the site suggested that waste iron and slag from the iron foundry was apparently disposed of on the south and east side of the Property. It was assumed there was a potential for environmental impacts in this area due to the presence of metals and waste casting materials. Adapt reported that the analytical results from samples obtained from the soil borings and field observations did not indicate that the fill soils and iron slag were impacting the underlying native soils with lead, arsenic, cadmium, or chromium. Adapt also reported that groundwater was not encountered during the Geoprobe® borings to depths of 16 feet (Figure 3, Appendix A; Table 6, Appendix B).
- Storm water drain discharge pipe (located on the Northern Parcel): Adapt indicated that there was a low potential for impact to the subsurface soils from petroleum hydrocarbon and on-site chemical usage and releases to the ground surface which may have been washed into the storm drain system during periods of precipitation. Storm water drains pass through the main building and discharge at the eastern edge of the site and have the potential to collect spills and releases from inside the building. Metal shavings and stained soil observed at the discharge pipe appeared to indicate that petroleum hydrocarbons may have impacted the soil beneath the discharge pipe. Analytical results and field observations did not indicate that petroleum hydrocarbons, chlorinated solvents, or lead, arsenic, cadmium, or chromium were present above the MTCA Method A Cleanup Levels in the subsurface soils sampled and tested beneath the storm water outflow area.

2.2 Other Historical Investigations

The three areas located on the Northern Parcel confirmed above cleanup levels in the Adapt Preliminary Phase II ESA were further investigated by Adapt and by ECI between 2000 and 2019. The reports and Ecology correspondence reviewed by ECI indicate that soil and groundwater characterization and cleanup in the vicinity of the paint storage building and the former underground heating oil tank have been

Focused Subsurface Investigation Report4425 South 3rd Ave

Everett, Washington 98203

February 6, 2020

completed, but that investigation and remediation of the area impacted by the former fuel oil tanks is ongoing. There is no evidence suggesting that these three areas located on the Northern Parcel have affected any of the Southern Parcels.

Further investigation following the Adapt 1999 Phase II ESA on the Southern Parcels has not been reported to ECI by the date of this report.

3.0 PHYSICAL SETTING

3.1 Geology and Hydrogeology

Geological and hydrogeological conditions can often affect, to some extent, the environmental integrity of property. Underlying soil and bedrock formations may facilitate or impede the migration of chemical contaminants in groundwater and may even be the source of contaminants such as radon and metals. This section of the report summarizes geologic factors that may affect the Subject Property in regard to environmental concerns.

The Site is located in the Puget Lowland geologic region. The Puget Sound Lowland is an elongated topographic and structural depression filled with complex sequences of glacial and non-glacial sediments that overlie bedrock. Continental ice sheets up to 3,000 feet thick covered portions of the Puget Lowland several times during the Quaternary period. Retreating ice carved new landscapes, rechanneled rivers, drained or formed lakes, and deposited glacial drift including till and outwash sands and gravels (WA DNR, 2002).

The primary aquifers in the Puget Sound region are typically in glacial sands and gravels overlain by relatively impermeable glacial till deposits, that are present at or near the ground surface. Within these till deposits are localized areas or lenses of water-bearing sands and gravels that may result in a shallow, localized, perched water table. Lateral and vertical migration of shallow groundwater may be impeded by the relatively impermeable nature of the till and by the sometimes-discontinuous nature of the perched water-bearing sands and gravel.

Perched and discontinuous zones of shallow groundwater may be seasonally or perennially present, depending on site-specific conditions. Shallow groundwater flow directions fluctuate and tend to follow topographic gradient but are also affected by seasonal high-water tables and variable soil characteristics. Groundwater migration pathways may also follow underground conduits.

3.2 Site Geology

According to the Washington State Geologic Portal, the area near the Property is characterized by Pleistocene Fraser-age to pre-Fraser transitional beds. These deposits consist of clay, silt, and very fine to fine sand; some layers of peaty sand and gravel are in the lower part of compact deposits but may be unstable because of high moisture content, plasticity, and local vertical jointing. The sediments were mostly deposited in still to slowly moving water, except for the coarse stream deposits in the lower part of the unit. In the urban and more highly developed areas these materials can include modified land and artificial fill.

Soils observed during this investigation on the Subject Property include loose medium brown sand and stiff silty clays overlain by black sandy fill. The fill consists of a very well sorted sand, black in color with streaks of red, orange, white, and occasionally blue. Contained within the fill are wood chunks, slag, and other miscellaneous debris presumably originating from the previous foundry activities at the Site.

3.3 Site Hydrogeology

Based on previous environmental investigations on the adjacent Northern Parcel, the depth to groundwater was expected to be between 2 and 9 feet below ground surface (bgs). Shallow groundwater beneath the Subject Property is anticipated to follow the general topography near the Property and flow to the east towards wetlands and the Snohomish River approximately 1000 feet to the east (Figure 2, Appendix A). However, during ECI's investigation on the Southern Parcels, groundwater was not encountered up to depths of 20 feet bgs. In one boring, Boring B1, a small perched zone was observed at a depth of approximately 8 feet bgs. However, the temporary well was purged dry after only a few minutes and would not recharge. Soils in other borings were not observed to contain groundwater or excessive moisture.

4.0 REGULATORY COMPLIANCE AND CONTAMINANTS OF CONCERN

Regulatory compliance for this project is based on the Washington Administrative Code (WAC) 173-340 – Model Toxic Control Act (MTCA) - RCW Chapter 70.105D, implemented by the Washington State Department of Ecology. Pursuant to Chapter 70.105D RCW, Ecology has established procedures for developing cleanup levels and requirements for cleanup actions. The rules establishing these levels and requirements were developed by Ecology in consultation with a Science Advisory Board (established under the Act) and with representatives from local government, citizen, environmental, and business groups. The rules were first published in February 1991, with amendments in January 1996, February 2001, and October 2007.

4.1 Contaminants of Concern

Contaminants of concern for this FSI were determined based on research into WFS and their environmental impact. According to various sources, WFS can potentially contain metals, semi-volatile organic compounds (SVOCs) which include phenolic compounds and polycyclic aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs), and Polychlorinated Biphenyls (PCBs). Diesel and oil range organics were also chosen as potential contaminants of concern as there was a possibility that mineral oils may have been mixed in with some of the metal debris before disposal.

The primary and secondary contaminants of concern at the Property were identified as:

Table 1: Contaminants of Concern

Cleanup Levels (MTCA-C) for Soil and Groundwater Cleanup Levels and Risk Calculation (CLARC)			
Contaminant of Concern (COCs)	Laboratory Method	Groundwater Cleanup Levels (CUL) - ug/l	Soil Cleanup Levels (CUL) - mg/kg
Primary Contaminants of Concern (MTCA 5 Metals)			
Arsenic (As)	EPA 6020	11	1,100
Lead (Pb)	EPA 6020	15 ^A	1,000 ^{AI}
Chromium III (Cr III)	EPA 6020	53,000	5,300,000
Chromium VI (Cr VI)	EPA 6020	110	11,000
Cadmium (Cd)	EPA 6020	18	3500
Mercury (Hg)	EPA 7471	2 ^A	2 ^A
Secondary Contaminants of Concern			
Diesel/ Heavy Oil	NWTPH-Dx Extended	500	2000
Polychlorinated Biphenyls (PCBs)	EPA 8082	0.1 ^A	1.0 ^A
Volatile Organic Compounds (VOCs)	EPA 8260	Varies by Compound	Varies by Compound
Semi-volatile Organic Compounds - includes Phenols and Polycyclic Aromatic Hydrocarbons (PAHs)	EPA 8270	Varies by Compound	Varies by Compound

Notes:

^A Method C and Method A for Industrial Properties was not available for this constituent. Therefore, Method A was used to establish a cleanup level

^{AI} Method C was not available for this constituent; therefore Method A for Industrial Properties was used to establish a cleanup level.

A soil sample from each boring or test pit were analyzed for the primary COCs (MTCA 5 Metals) and select samples were analyzed for the secondary COCs based on observations made by ECI field personnel.

4.2 Cleanup Levels

Pursuant to Chapter 70.105D RCW, Ecology has established procedures for developing cleanup levels and requirements for cleanup actions. The MTCA regulations provide three approaches for establishing cleanup levels.

- **Method A: ARARs and Tables.** This method is to be used where the cleanup action is routine and involves relatively few hazardous substances. The soil and groundwater cleanup levels are set at concentrations at least as stringent as concentrations specified in applicable state and federal laws (ARARs) and are presented in Tables 720-1, 740-1, and 745-1 of the regulations (WAC 173-340).
- **Method B: Universal Method.** Method B is the “universal method” for determining cleanup levels for all media at all sites. Under Method B, cleanup levels for individual hazardous substances are established using applicable state and federal laws and the risk equations and other requirements specified in WAC 173-340.

Method B has two tiers, a “Standard” tier and a “Modified” tier. The “Standard” Method B tier uses generic default assumptions to calculate cleanup levels. The “Modified” Method B tier provides for the use of chemical-specific or site-specific information to change selected default assumptions. These can be established using a quantitative risk assessment process.

- **Method C: Conditional Method.** When compliance with cleanup levels developed under Method A or B are impossible to achieve or may cause greater environmental harm, Method C cleanup levels for individual hazardous substances may be established for surface water, groundwater, and air. Method C industrial soil and air cleanup levels may also be established at industrial properties that meet specific criteria.

Like Method B, Method C is divided into two tiers, a “Standard” and a “Modified” tier. The “Standard” Method C tier uses generic default assumptions to calculate cleanup levels. The “Modified” Method C tier provides for the use of chemical-specific or site-specific information to change selected default assumptions. These can be established using a quantitative risk assessment process.

For this Site ECI has determined that Method C Cleanup Levels are appropriate. The Property is zoned industrial, and cleanup of the area may potentially cause greater environmental harm including loss of slope stability and habitat. The concentrations of the contaminants in the soil and water samples collected were compared to the Model Toxic Control Act (MTCA) Method C Soil and Groundwater Cleanup Levels for Industrial Land Use to determine the need for additional assessment or remedial activities.

4.2.1 Carcinogenic PAH Cleanup Levels

Carcinogenic PAHs (cPAHs) analyzed in soil and groundwater during the soil sampling included benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, chrysene, dibenzo(a,h)anthracene and ideno(1,2,3-cd)pyrene. When establishing compliance with cleanup levels under MTCA, the mixture of these compounds is considered a single hazardous substance. The toxicity

Focused Subsurface Investigation Report

4425 South 3rd Ave

Everett, Washington 98203

February 6, 2020

equivalency factor (TEF) methodology was developed by the U.S. Environmental Protection Agency (EPA) to evaluate the toxicity and assess the risks of a mixture of structurally related chemicals with a common mechanism of action. To evaluate the human health toxicity of a cPAH mixture, the chemical concentrations of the cPAHs in the mixture are converted to an equivalent concentration of benzo(a)pyrene. This calculation is expressed mathematically, below. For notation purposes, the result is referred here as the “total toxic equivalent concentration” or “cPAH TEQ.”

$$\text{Total TEQ} = \sum(\text{Cn} * \text{TEFn})$$

Where:

Total TEQ = Total Toxic Equivalent Concentration of a cPAH mixture

Cn = Concentration of the individual cPAH in the mixture

TEFn = Toxicity equivalency factor for the individual cPAH in the mixture

5.0 FOCUSED SUBSURFACE INVESTIGATION

5.1 Pre-Site Work Activities

Prior to subsurface work the “call before you dig service” (811) was called 48 hours in advance of site activities to identify public underground utilities. Additionally, Mountain View Locating Services LLC of Bonney Lake, Washington, completed a private subsurface utility sweep survey to clear the boring and test pit locations of any potential subsurface conflicts.

5.2 Sample Collection

On November 12, 13, and 14, 2019, Standard Environmental Probe of Olympia, Washington advanced sixteen borings using direct-push drilling techniques under the supervision of an ECI environmental professional. The borings were advanced in strategic locations in the parking lot and the lawn. Sinking areas of the parking lot were targeted as these areas may have indicated certain foundry related waste buried beneath. (Figure 3, Appendix A). Borings were numbered B1 through B16.

Soil samples were collected from Borings B1 through B16 continuously during drilling using standard Macro-Core® liners inside a 2-inch diameter push-probe drilling rod. Each 5-foot long section of soil core was logged for lithology and field screened for evidence of contamination using visual and olfactory screening methods. Boring logs are presented in Appendix C.

Groundwater was not encountered in any of the borings advanced except in Boring B1 where what appeared to have been a small zone of perched water was discovered at a depth of approximately 8 feet bgs. The temporary well placed in Boring B1 was pumped using a low-flow peristaltic pump in preparation for sampling and ran dry after only a few minutes of operation. A single water sample, containing high amounts of silt, was collected from the temporary well before it ran dry. The temporary well was given approximately 1 hour to recharge; however, additional groundwater was not able to be recovered.

Based on the results of the field screening, one to three soil samples from each of the 16 borings were collected for chemical analysis. A groundwater sample was collected from Boring B1; however sufficient volume to analyze for all of the contaminants of concern was not able to be obtained. Soil samples were collected directly from the Macro-Core® liner and transferred into new laboratory-provided analyte specific sample containers. Those soil samples collected for volatile organic compounds (VOCs) were collected using the EPA Method 5035 sampling procedures.

Each soil and groundwater sample were assigned a unique sample identifier that included:

- For soil:
the boring name followed by the depth (e.g., B1-20)
- For water:
the boring name followed by “W” (e.g., B1-W)

Focused Subsurface Investigation Report4425 South 3rd Ave

Everett, Washington 98203

February 6, 2020

The soil and groundwater samples were placed in a climate-controlled container and maintained at or below 4° Celsius until they were delivered to an Ecology accredited laboratory, ALS Environmental of Everett, Washington, under industry standard chain of custody protocols for analysis.

5.3 Analytical Results**5.3.1 Soil Sample Analytical Results**

Samples were analyzed by ALS Environmental of Everett, Washington and were transferred under industry standard chain of custody protocol. At least one sample from each boring was analyzed for the primary COCs, while select borings were analyzed for the secondary COCs. Table 2 below describes which samples were analyzed for which COCs:

Table 2: Chemical Analysis by Sample Number

Sample ID	Contaminants of Concern				
	MTCA 5 Metals	DRO/ORO	PCBs	Volatile Organic Compounds	Semivolatiles (Includes Phenols & PAHs)
ECI Soil Borings					
B1-6	X				
B2-10	X				
B3-5	X				
B3-12			X		X
B4-1.5			X		X
B4-10	X				
B4-18		X			
B5-10	X				
B6-5			X	X	X
B6-7	X				
B7-1	X				
B7-8				X	
B8-4.5	X				
B9-4	X				
B10-10	X		X	X	X
B11-5	X				
B12-2.5	X	X			
B13-5	X				
B14-4	X				
B15-4	X				
B16-6	X				
ECI Test Pits					
TP1-2	X				
TP2-2	X				
TP3-3	X				
TP4-3	X				
TP5-3	X				

X indicates sample was analyzed for the indicated COC

Focused Subsurface Investigation Report

4425 South 3rd Ave

Everett, Washington 98203

February 6, 2020

Upon receipt of the analytical results of the samples from the borings and test pits, the results were compared to the appropriate MTCA Method C Cleanup Level (or alternative cleanup level as described in Table 1). The results of the soil samples revealed that concentrations of arsenic, chromium, and lead were present **below** the respective MTCA Cleanup Levels in each of the 21 soil samples analyzed for MTCA 5 Metals. Cadmium was present **below** the MTCA Cleanup Levels for soil in each of the 21 samples analyzed for MTCA 5 metals, and mercury was present **below** the MTCA Cleanup Levels in each of the 21 samples analyzed for MTCA 5 metals. The sample containing the largest total chromium concentration (B15-4) was also analyzed for Chromium VI. The analytical results of the Chromium VI analysis **did not reveal Chromium VI** above the laboratory reporting limit.

Analysis of diesel range organics (DRO) and oil range organics (ORO) was performed in two samples (B4-18 and B12-2.5) based on field screening which indicated their potential presence. DRO and ORO were reported to be **below** the laboratory reporting limits in sample B4-18, and above the laboratory reporting limit but **below** the MTCA Method A Cleanup Level in sample B12-2.5.

Analysis of volatile organic compounds (VOCs) was performed in three samples (B6-5, B7-8, and B10-10). The results of the VOC analysis in each sample were below their respective laboratory reporting limits for each individual constituent analyzed, which are **below** their respective MTCA Method C Cleanup Levels.

Analysis of Polychlorinated Biphenyls (PCBs) was performed in four samples (B3-12, B4-1.5, B6-5, and B10-10). The results of the PCB analysis in each sample were below their respective laboratory reporting limits for each individual constituent analyzed, which are **below** their respective MTCA Method A Cleanup Levels.

Analysis of semi-volatile organic compounds (SVOCs) was performed in four samples (B3-12, B4-1.5, B6-5, and B10-10). SVOCs include phenolic compounds and cPAHs likely to be in furan foundry sands (Dungan, R. S., 2006). The results of the SVOC analysis revealed that **cPAHs were present below** the MTCA Method C Cleanup Level in each of the samples analyzed for SVOCs. Naphthalene was present **below** the MTCA Method C Cleanup Level in the samples analyzed for SVOCs, and other PAHs which do not have an established MTCA Method C Cleanup Level were present above the laboratory detection limit (Table 5, Appendix C).

The soil results are presented in Tables 3 and 4 below. The laboratory datasheets are presented in Appendix D.

Table 3: Soil Sample Primary COC Analytical Results

Sample ID	Sample Depth (ft)	Date Sampled	Metals (mg/Kg)				
			Arsenic (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)
ECI Soil Borings							
B1-6	6	11/12/2019	4.5	0.88	18	150	<0.020
B2-10	10	11/12/2019	5.5	0.2	19	21	0.058
B3-5	5	11/13/2019	2.8	0.14	18	22	<0.020

Focused Subsurface Investigation Report4425 South 3rd Ave

Everett, Washington 98203

February 6, 2020

Sample ID	Sample Depth (ft)	Date Sampled	Metals (mg/Kg)				
			Arsenic (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)
B4-10	10	11/13/2019	12	0.11	53	28	<0.020
B5-10	10	11/13/2019	3.8	<0.10	29	2.8	<0.020
B6-7	7	11/13/2019	3.3	0.16	13	27	0.028
B7-1	1	11/13/2019	4.7	0.23	18	27	<0.020
B8-4.5	4.5	11/13/2019	3.3	0.76	26	70	<0.020
B9-4	4	11/13/2019	8.8	0.28	11	51	0.21
B10-10	10	11/13/2019	2.8	0.29	26	25	<0.020
B11-5	5	11/13/2019	3.5	0.34	43	56	0.023
B12-2.5	2.5	11/14/2019	5.3	0.26	23	58	0.022
B13-5	5	11/14/2019	3.5	<0.10	34	2.6	0.025
B14-4	4	11/14/2019	3.7	0.11	17	87	0.03
B15-4	4	11/14/2019	6.6	0.54	60	97	0.046
B16-6	6	11/14/2019	4.1	0.37	40	110	0.03
ECI Test Pits							
TP1-2	2	11/14/2019	3.4	0.10	27	3.5	0.023
TP2-2	2	11/14/2019	4.7	<0.10	35	3.4	0.057
TP3-3	3	11/14/2019	4.6	<0.10	40	6.4	0.046
TP4-3	3	11/14/2019	4.6	0.12	36	5.0	<0.020
TP5-3	3	11/14/2019	6.0	0.11	41	9.2	<0.020
Laboratory Reporting Limit			0.2	0.1	0.1	0.1	0.02
Ecology MTCA Method C Cleanup Levels			1,100	18	5,300,000 /11,000 ¹	1000 ^{AI}	2 ^A

Notes for Table 3:¹ MTCA Method A Cleanup Level for Chromium III is 11,000 mg/kg and cleanup level for Chromium VI is 19 mg/kg

mg/kg = Milligrams per kilogram

MTCA = Model Toxics Control Act

^A Method C and Method A for Industrial Properties was not available for this constituent. Therefore, Method A was used to establish a cleanup level^{AI} Method C was not available for this constituent; therefore, Method A for Industrial Properties was used to establish a cleanup level.**Bold** indicates result was above laboratory quantitative limits but below MTCA Method A Cleanup Level**Bold and Shaded** indicates result was above MTCA Method A Cleanup Level

Focused Subsurface Investigation Report

4425 South 3rd Ave

Everett, Washington 98203

February 6, 2020

Table 4: Soil Sample cPAH Analytical Results

Sample ID	Sample Depth (ft)	Date Sampled	Polycyclic Aromatic Hydrocarbons (PAHs) (EPA 8270D SIM) (mg/kg)							
			Benzo (a) anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Indeno (1,2,3-cd) pyrene	Dibenz (a,h) anthracene	cPAHs TEQ as Benzo(a)pyrene
B3-12	12	11/13/2019	7	12	29	8.2	15	16	6.1	21.75
B4-1.5	1.5	11/13/2019	1.2	1.7	4.0	1.4	2.6	2.3	0.92	3.599
B6-5	5	11/13/2019	4.0	6.1	13	3.7	7.9	8.6	2.9	11.181
B10-10	10	11/13/2019	3.9	5.6	8.1	2.8	6.6	6.6	2.8	9.076
Total Equivalency Value			0.1	0.01	0.1	0.1	1	0.1	0.1	--
Ecology MTCA Method A Cleanup Levels			NE	NE	NE	NE	130	NE	NE	130

Notes for Table 4:

mg/kg = Milligrams per kilogram

MTCA = Model Toxics Control Act

NE = Ecology has not designated a MTCA Method A Cleanup Level for this constituent

TEQ is the total equivalency value where the toxicity of each individual PAH constituent is compared to that of benzo(a)pyrene. The toxicity values of each PAH present in a sample are then combined to get the TEQ.

Bold indicates result was above laboratory quantitative limits but below MTCA Method A Cleanup Level

Bold and Shaded indicates result was above MTCA Method A Cleanup Level

5.3.2 Groundwater Sample Analytical Results

The analytical results of the groundwater sample collected from soil Boring B1 indicated that total lead concentrations were above the MTCA Method A Cleanup Level. Method A was chosen as the cleanup level for lead in groundwater due to a value for Method C not being available for this constituent. However, the water in the boring appeared to be from a small perched zone that ran dry during low flow purging after only a few minutes and did not recharge. The sample was only able to be analyzed for total metals due to being collected in a bottle preserved with nitric acid (HNO₃). It is possible that these results may be more indicative of the silt content of the sample, and not the actual groundwater itself. Groundwater was not encountered in any of the other borings or test pits throughout the Southern Parcels.

Table 5: Groundwater Sample Analytical Results - µg/L

Sample Number	Date Sampled	Total Metals (µg/l)				
		Arsenic	Cadmium	Chromium	Lead	Mercury
B1-W	11/12/19	8.5	<1.0	44	72	<0.20
Laboratory Reporting Limit		1.0	1.0	2.0	1.0	0.20
Selected Ecology MTCA Cleanup Levels		11	18	110	15	2

Table 5 Notes:

< Not detected above the laboratory reporting limit

Bold indicates the detected concentration is below Ecology MTCA Method A Cleanup Levels

Red Bold indicates the detected concentration exceeds Ecology MTCA Method A Cleanup Level

6.0 SUMMARY AND RECOMMENDATIONS

6.1 Summary

Between November 12 and 14, 2019, sixteen borings were advanced, and five test pits were excavated on the Subject Property located at 4425 South 3rd Avenue, Everett, Washington. Twenty-six soil samples and one water sample were collected and analyzed for one or more of the contaminants of concern identified for the Site which include MTCA 5 metals, DRO/ORO, PCBs, VOCs, and SVOCs.

The analytical results revealed that each of the soil samples analyzed at the site contained at least three of the five MTCA 5 Metals, and that the concentrations were below their respective MTCA Method A Cleanup Levels. Analytical results also confirmed that DRO and ORO were present at the site at the locations of Borings B4 and B12. However, the concentrations in the samples analyzed from those borings were below the MTCA Method A Cleanup Level. The analytical results for the samples analyzed for VOCs and PCBs reported results below the laboratory reporting limit.

The analytical results of the four samples analyzed for SVOCs indicated that the soil in the vicinity of Borings B3, B4, B6 and B10 is impacted with cPAHs below the MTCA Method C Cleanup Level, containing TEQ concentrations between 3.60 and 21.75 mg/kg. Based on research conducted by ECI, it is assumed that the cPAHs observed are a result of the waste foundry sand discovered beneath the parking lot and lawn.

The total area of cPAH impact remains undefined, but the total area of WFS has been partially delineated during this FSI. Based on the boring logs and observations made by ECI personnel on site, the WFS appears to extend between the north of the parking lot to the edge of the wooded area, and extends west toward the road, and east down the slope adjacent to the parking lot. WFS was not observed in any of the test pits excavated in the wooded areas of the Property. Boring B5 was the western-most advanced boring and did not exhibit any sand containing characteristics typical of the WFS observed elsewhere at the Site (Figure 3, Appendix A). Figures 4 and 5, Appendix A present cross-sections through the area of the fill.

The analytical results of the groundwater sample collected from Boring B1 indicated that total lead concentrations were above the MTCA Method A Cleanup Level. However, the water in the boring appeared to be from a small perched zone that ran dry during low flow purging after only a few minutes and did not recharge. The sample was only able to be analyzed for total metals due to being collected in a bottle preserved with HNO₃. It is possible that these results may be more indicative of the silt content of the sample, and not the actual groundwater itself. Because groundwater was limited in the vicinity of Boring B1 and not observed anywhere else on the Southern Parcels, ECI does not consider the groundwater to be a concern at this Site at this time.

Based on the results of this Focused Subsurface Investigation, the WFS fill on the Property appears to be impacted with cPAHs as a result of the sand-casting process used during the time when Sumner Iron Works operated the Site (1913 to early 1970s) but at levels below the MTCA Method C Cleanup Level. Therefore, based on these results, cleanup of cPAHs in soil on the Property is not warranted at this time.

6.2 Recommendations

Based on the results of this investigation, ECI recommends the following:

- That this report should be submitted to Ecology requesting a formal opinion;
- That further site characterization be conducted to determine the maximum vertical and lateral extent of the WFS and fill and that groundwater be investigated (if encountered);
- Following Ecology review, an Environmental Covenant will need to be filed on the Property stipulating that it will remain an industrial Property;

7.0 QUALIFICATIONS OF THIS REPORT

Some clients, design professionals and contractors may not recognize that the geoscience practices (geotechnical engineering, geology, and environmental science) are far less exact than other engineering and natural science disciplines. This lack of understanding can create unrealistic expectations that could lead to disappointments, claims and disputes. EcoCon Inc. includes these explanatory “limitations” provisions in our reports to help reduce such risks. Please confer with EcoCon if you are unclear how these “Report Limitations and Guidelines for Use” apply to your project or Site.

7.1 Use of this Report by Others

Our report was prepared for the exclusive use of Acrowood and designated agent/ensigns. This report may be provided to regulatory agencies for review if requested or required. No other party may rely on the product of our services unless we agree in advance to such reliance in writing. This is to provide our firm with reasonable protection against open-ended liability claims by third parties with whom there would otherwise be no contractual limits to their actions. Within the limitations of scope, schedule and budget, our services have been executed in accordance with our Agreement with Acrowood and generally accepted environmental practices in this area at the time this report was prepared.

This report has been prepared for subsurface investigation activities at the Subject Property. EcoCon considered a number of unique, project-specific factors when establishing the scope of services for this project and report. No one except Acrowood and designated agent/ensigns should rely on this environmental report without first conferring with ECI. This report should not be applied for any purpose or project except the one originally contemplated.

Unless EcoCon specifically indicates otherwise, do not rely on this report if it was:

- Not prepared for you,
- Not prepared for your project,
- Not prepared for the specific site explored, or
- Completed before important site changes were made.

If important changes are made after the date of this report, EcoCon Inc. should be given the opportunity to review our interpretations and recommendations and provide written modifications or confirmation, as appropriate.

7.2 Uncertainty May Remain after Completion of Site Investigation and Remedial Activities

The investigation and remediation activities completed in a portion of a site cannot wholly eliminate uncertainty regarding the potential for contamination in connection with the entire property. Our interpretation of subsurface conditions in this study is based on field observations and chemical analytical data from the locations sampled. It is always possible that contamination exists in areas that were not explored, sampled, or analyzed.

7.3 Subsurface Conditions Can Change

This environmental report is based on conditions that existed at the time the study was performed. The findings and conclusions of this report may be affected by the passage of time, by manmade events such as construction on or adjacent to the Site, by new releases of hazardous substances, or by natural events

such as floods, earthquakes, slope instability or groundwater fluctuations. Always contact EcoCon before applying this report to determine if it is still applicable.

7.4 Soil and Groundwater End Use

The cleanup levels referenced in this report are Site- and situation-specific and could change with time due to regulatory or Site changes. The cleanup levels may not be applicable for other sites or for other on-site uses of the affected media (soil and/or groundwater).

Note that hazardous substances may be present in some of the Site soil and/or groundwater at detectable concentrations that are less than the referenced cleanup levels. Because these cleanup levels can change, EcoCon should be contacted to evaluate the potential for associated environmental liabilities prior to the export of soil or groundwater from the Subject Site or reuse of the affected media on the Site. We cannot be responsible for potential environmental liability arising out of the transfer of soil and/or groundwater from the Subject Site to another location or its reuse on the Site in instances that we were not aware of or could not control.

7.5 Most Environmental Findings Are Professional Opinions

Our interpretations of subsurface conditions are based on field observations and chemical analytical data from the locations sampled at the Site. Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted or samples are taken. EcoCon Inc. reviewed field and laboratory data and then applied our professional judgment to render an opinion about subsurface conditions throughout the Site. Actual subsurface conditions may differ – sometimes significantly – from those indicated in this report. Our report, conclusions and interpretations should not be construed as a warranty of the subsurface conditions.

8.0 REFERENCES

Dungan, R. S. (2006). Polycyclic aromatic hydrocarbons and phenolics in ferrous and non-ferrous waste foundry sands. Journal of Residuals Science and Technology, 3, 203–209.

Adapt Engineering, Inc (1999). Preliminary Phase II Environmental Site Assessment.

Snohomish County Assessor: <https://snohomishcountywa.gov/5167/Assessor>

List of Appendices

List of Appendices

Appendix A - Figures

Figure 1: Site Location Map

Figure 2: Site Topographic Map

Figure 3: Soil Boring Sample Location Map

Figure 4: Southern Property South to North Cross-Section

Figure 5: Southern Property East to West Cross-Section

Figure 6: Test Pit Sample Location Map

Figure 7: Project Photographs

Appendix B - Project Tables

Table 5: Summary of Soil Analytical Results

Appendix C - Boring Logs & Test Pit Logs

Boring Logs

Test Pit Logs

Appendix D: Analytical Results

Laboratory Data Sheets

Chains of Custody

Appendix A

Appendix A Project Figures

Appendix A - Figures

Figure 1: Site Location Map

Figure 2: Site Topographic Map

Figure 3: Soil Boring Sample Location Map

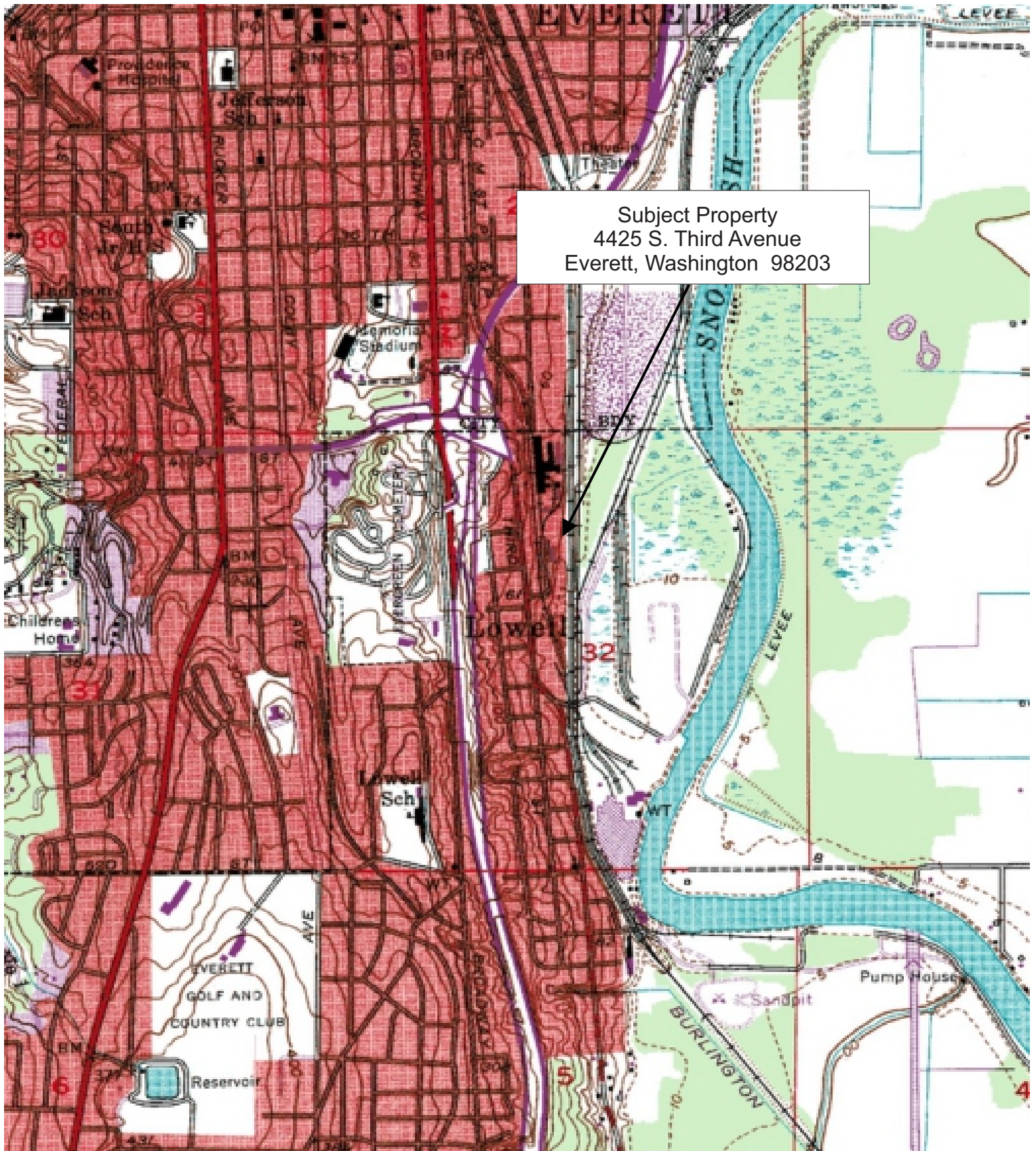
Figure 4: Southern Property South to North Cross-Section

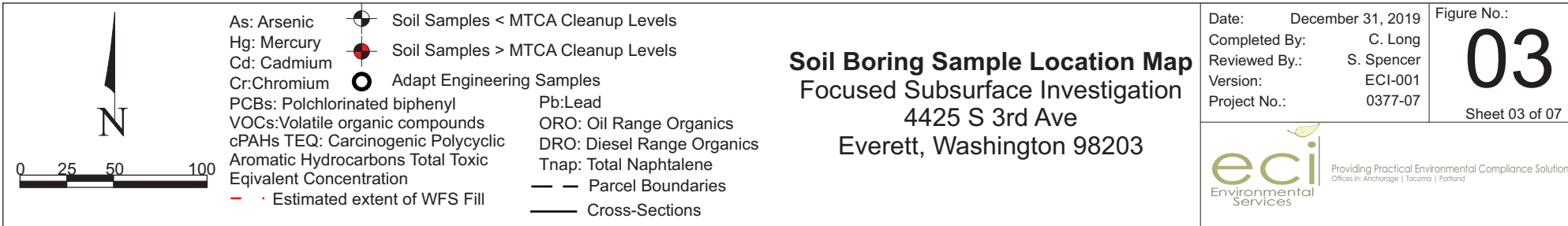
Figure 5: Southern Property East to West Cross-Section

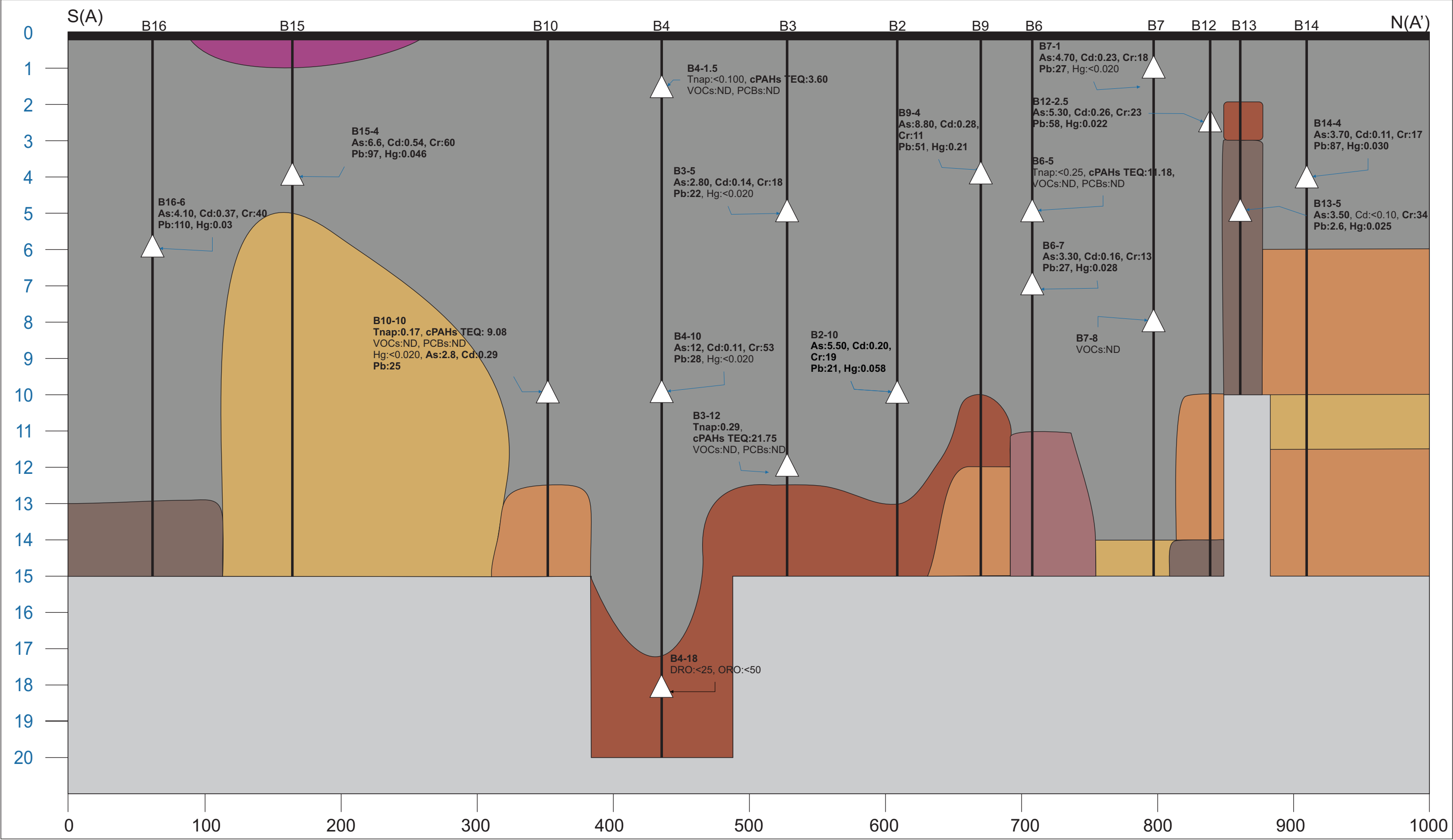
Figure 6: Test Pit Sample Location Map

Figure 7: Project Photographs









- No Data

Foundry Derived Fill

Well graded Sand

Top Soil

Med Brown Silty Sand

Asphalt

Sand & Clay Lense

Medium Brown Silty Clay

Poorly Graded Medium Brown Sand

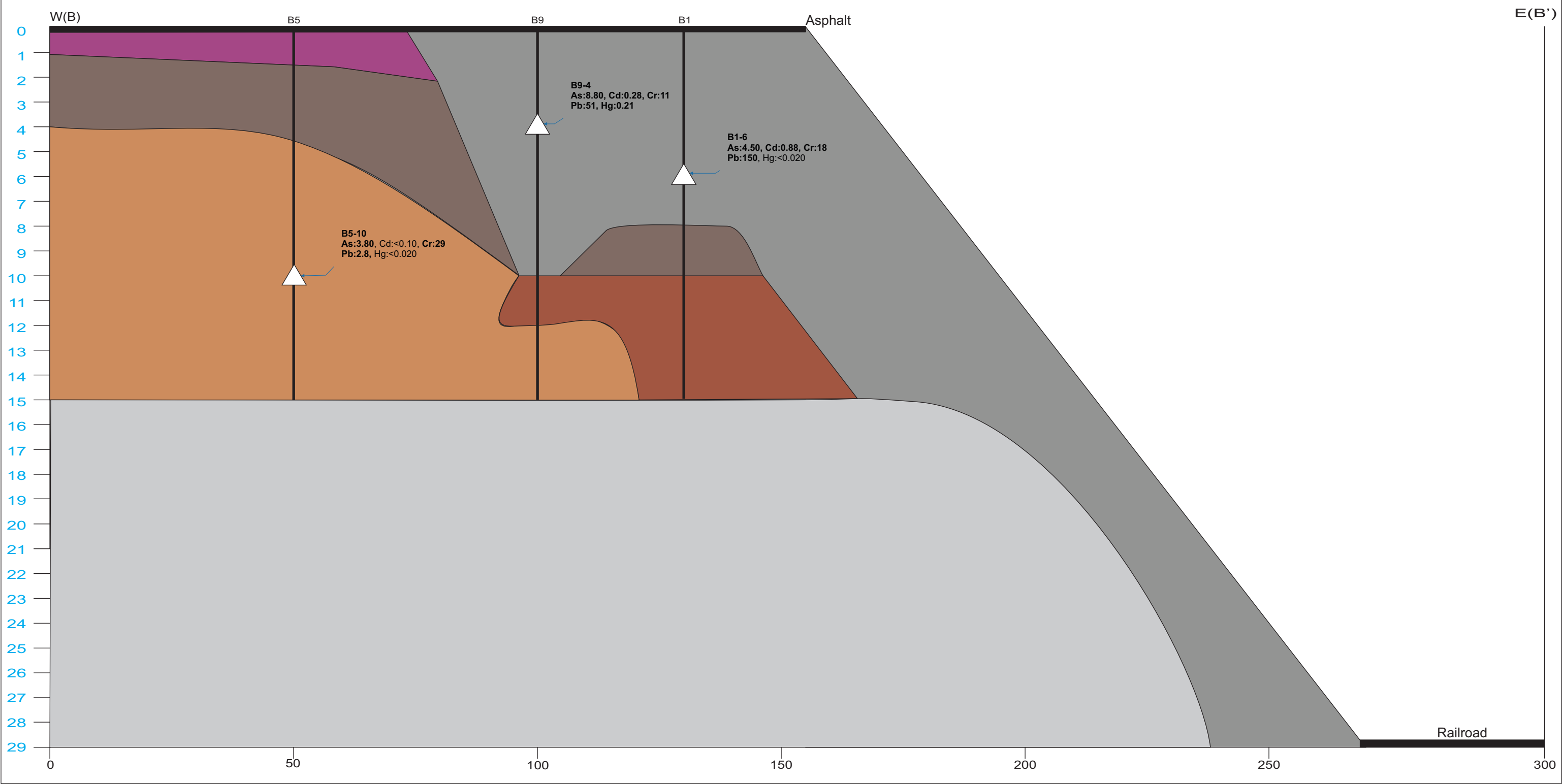
Soil Samples <MTCA Cleanup Levels

Soil Samples >MTCA Cleanup Levels

Southern Property South to North Cross-Section
Focused Subsurface Investigation
4425 S 3rd Ave
Everett, Washington 98203

Date: December 31, 2019
Completed By: C. Long
Reviewed By: S. Spencer
Version: ECI-001
Project No.: 0377-07

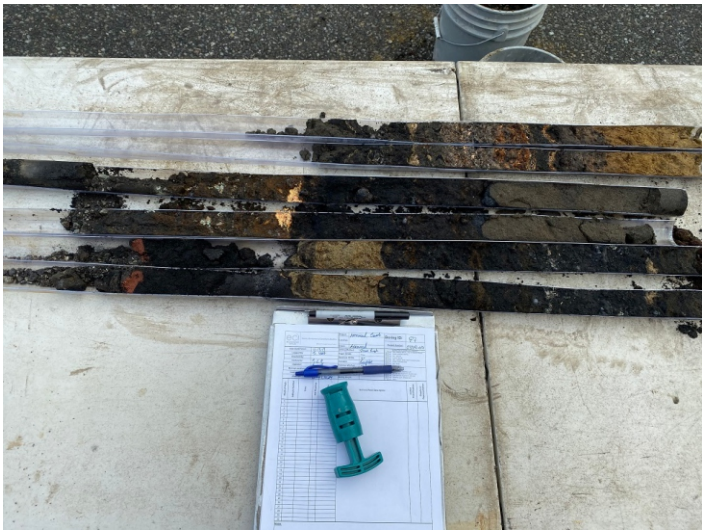
Figure No.:
04
Sheet 04 of 07







Photograph One: Detail of Soil Core B4 at 9-10 ft



Photograph Two: Soil Core B7



Photograph Three: Advancing Boring B10



Photograph Four: Soil Core of B11



Photograph Five: Excavating Test Pit 2



Photograph Six: Sidewalls of Test Pit 5

Project Photographs
 Focused Subsurface Investigation
 4425 S 3rd Ave
 Everett, Washington 98203

Date: December 31, 2019
 Completed By: C. Long
 Reviewed By: S.Spencer
 Version: ECI-001
 Project No.: 0377-07

Figure No.:
07
 Sheet 07 of 07

Appendix B

Appendix B - Project Tables

Table 5: Summary of Soil Analytical Results

Appendix B

Project Tables

Table 5: Summary of Soil Analytical Results
Acrowood South - Focused Subsurface Investigation
4425 South 3rd Avenue, Everett, Washington 98203

Sample ID	Sample Depth (ft)	Date Sampled	Total Petroleum Hydrocarbons (mg/kg)		Polycyclic Aromatic Hydrocarbons (PAHs) (EPA 8270D SIM) (mg/kg)																		cPAHs TEQ as Benzo (a) Pyrene	PCBs	Non-PAH SVOCs by Method 8270	VOCs by Method 8260	Metals (mg/Kg)					
			Diesel (mg/kg) ²	Heavy Oil (mg/kg) ²	Naphthalene	2-Methyl naphthlene	1-Methyl naphthlene	Total Naphthalene	Acenaphthene	Acenaphthylene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo (a) anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Indeno (1,2,3-cd) pyrene	Dibenz (a,h) anthracene					Benzo (g,h,i) perylene	Arsenic (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)
Adapt Engineering - Preliminary Phase II Environmental Site Assessment																																
P11S3	15	11/4/1999	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.57	<ND	44.4	3.56	--	
P12S2	10	11/4/1999	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.58	<ND	60.3	6.8	--	
P14S2	11.5	11/4/1999	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.04	<ND	42.5	3.88	--	
P15S2	7	11/4/1999	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.45	<ND	28.5	2.26	--	
P16S2	14	11/4/1999	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.31	<ND	39.7	3.27	--	
ECI Soil Borings																																
B1-6	6	11/12/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.5	0.88	18	150	<0.020	
B2-10	10	11/12/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.5	0.2	19	21	0.058	
B3-5	5	11/13/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.8	0.14	18	22	<0.020	
B3-12	12	11/13/2019	--	--	0.29	<0.250	<0.250	0.29	0.19	<0.100	<0.100	0.77	0.13	3.8	5.6	7	12	29	8.2	15	16	6.1	20	21.75	<0.10	<ND	--	--	--	--	--	
B4-1.5	1.5	11/13/2019	--	--	<0.100	<0.250	<0.250	<0.100	0.11	<0.100	<0.100	0.23	<0.100	0.81	1.1	1.2	1.7	4	1.4	2.6	2.3	0.92	2.5	3.599	<0.10	<ND	--	--	--	--	--	
B4-10	10	11/13/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12	0.11	53	28	<0.020	
B4-18	18	11/13/2019	<25	<50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B5-10	10	11/13/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.8	<0.10	29	2.8	<0.020	
B6-5	5	11/13/2019	--	--	<0.100	<0.250	<0.250	<0.25	0.32	<0.100	0.1	2.4	0.34	4.8	5.6	4	6.1	13	3.7	7.9	8.6	2.9	11	11.181	<0.10	<ND	<ND	--	--	--	--	--
B6-7	7	11/13/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.3	0.16	13	27	0.028	
B7-1	1	11/13/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.7	0.23	18	27	<0.020	
B7-8	8	11/13/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<ND	--	--	--	--	--	--	--
B8-4.5	4.5	11/13/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.3	0.76	26	70	<0.020	
B9-4	4	11/13/2019	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.8	0.28	11	51	0.21	
B10-10	10	11/13/2019	--	--	0.17	<0.250	<0.250	0.17	0.17	<0.100	<0.100	1.1	0.19	3.8	4.7	3.9	5.6	8.1	2.8	6.6	6.6	2.8	8.1	9.076	<0.10	<ND	<ND	2.8	0.29	26	25	<0.020
Ecology MTCA Method C Cleanup Levels			2000 ^A	2000 ^A	70,000	70,000	70,000	70,000	210,000	NE	140,000	NE	1,100,000	140,000	110,000	NE	NE	NE	NE	130	NE	NE	NE	130	1	Varies	Varies	1,100	18	5300000 /11000 ¹	1000 ^{AI}	2 ^A

Notes:
¹ MTCA Method C Cleanup Level for Chromium III is 5,300,000 mg/kg and cleanup level for Chromium VI is 11,000 mg/kg
^A Method C and Method A for Industrial Properties were not available for this constituent. Therefore, Method A was used to establish a cleanup level.
^{AI} Method C was not available for this constituent, therefore Method A for Industrial Properties was used to establish a cleanup level.
mg/kg = Milligrams per kilogram
MTCA = Model Toxics Control Act
-- = not analyzed for this constituent
< = not detected above laboratory detection limits
NE = Ecology has not designated a MTCA Method A cleanup level for this constituent
Bold indicates a detected concentration that is below Ecology MTCA Method A Cleanup Levels
Bold and Shaded indicates the detected concentration exceeds Ecology MTCA Method A or B Cleanup Levels

Appendix C

Appendix C - Boring Logs & Test Pit Logs

Boring Logs

Test Pit Logs

Appendix C Boring Logs & Test Pit Logs

 Practical Environmental Compliance Solutions Offices In: Anchorage Tacoma Portland					Project: Acrowood South		Boring ID: B1	
					Location: 4425 S 3rd Avenue Everett, WA			
					Client: Acrowood		Project Number: 0377-07	

Date Start/Finish: 11/12/2019		Drilling Method: Direct Push		Unified Soil Classification System 165 GW WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL GP POORLY-GRADED GRAVEL GM SILTY GRAVEL GC CLAYEY GRAVEL SW WELL-GRADED SAND, FINE TO COARSE SAND SP POORLY-GRADED SAND SM SILTY SAND SC CLAYEY SAND ML SILT CL CLAY OL ORGANIC SILT, ORGANIC CLAY MH SILT OF HIGH PLASTICITY, ELASTIC SILT CH CLAY OF HIGH PLASTICITY, FAT CLAY OH ORGANIC CLAY, ORGANIC SILT PT PEAT			
Logged By: Stephanie Holt		Auger ID/OD: --					
Checked By:		Borehole ID/OD: 2"					
Contractor: Standard Environmental Probe		Sampler: Geoprobe					
Operator: Russell		Hammer Wt./Fall: --					
Boring Location: Northeast of Office		Ground Elevation:					
Coordinates:		Water Depth: 8'					
Weather: Cloudy		Boring Depth: 15'					

Depth (ft bgs)	Sample Number	Time	PID Reading	Remarks	Soil and Rock Description	Unified Classification	Graphical Representation
0					Top 3" Asphalt		
1				Damp Throughout	0' to 8' Black SAND containing streaks of brick red and tan sand	FILL	
2							
3							
4	B1-4	2:55 PM					
5							
6	B1-6	2:55 PM			8' to 10' medium brown silty SAND	SM	
7							
8	B1-W	3:40 PM		Perched Zone			
9					10' to 15' light brown very stiff silty CLAY	ML/CL	
10							
11							
12							
13							
14							
15					Termination of Boring		
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

Notes: Perched zone at 8' bgs. Ran dry after only a few minutes. Approximately 250 ml of water was collected in a 500 ml poly bottle preserved with nitric acid. Sample was only able to be analyzed for total metals. Temporary well was allowed to recharge for approximately one hour, but no additional groundwater was recovered.

 Practical Environmental Compliance Solutions Offices In: Anchorage Tacoma Portland					Project: Acrowood South		Boring ID: B2	
					Location: 4425 S 3rd Avenue Everett, WA			
					Client: Acrowood		Project Number: 0377-07	

Date Start/Finish: 11/12/2019		Drilling Method: Direct Push		Unified Soil Classification System 165 GW WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL GP POORLY-GRADED GRAVEL GM SILTY GRAVEL GC CLAYEY GRAVEL SW WELL-GRADED SAND, FINE TO COARSE SAND SP POORLY-GRADED SAND SM SILTY SAND SC CLAYEY SAND			
Logged By: Stephanie Holt		Auger ID/OD: --					
Checked By:		Borehole ID/OD: 2"		COHESIVE SOILS ML SILT CL CLAY OL ORGANIC SILT, ORGANIC CLAY MH SILT OF HIGH PLASTICITY, ELASTIC SILT CH CLAY OF HIGH PLASTICITY, FAT CLAY OH ORGANIC CLAY, ORGANIC SILT PT PEAT			
Contractor: Standard Environmental Probe		Sampler: Geoprobe					
Operator: Russell		Hammer Wt./Fall: --					
Boring Location: Northeast of office		Ground Elevation:					
Coordinates:		Water Depth: --					
Weather: Cloudy		Boring Depth: 15'					

Depth (ft bgs)	Sample Number	Time	PID Reading	Remarks	Soil and Rock Description	Unified Classification	Graphical Representation
0					Top 3" Asphalt: 0' to 1' anthracitic coal and red SAND	FILL	
1				Damp Throughout	1' to 8' loose black SAND containing red sand layers throughout		
2							
3							
4							
5							
6							
7					8' to 9' frothy SLAG		
8							
9					8' to 13' loose black SAND containing red sand layers throughout		
10	B2-10	3:35 PM					
11							
12							
13					13' to 15' medium brown very stiff silty CLAY	ML/CL	
14							
15					Termination of Boring		
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

Notes: small bits of slag throughout

 eci Environmental Services Practical Environmental Compliance Solutions Offices In: Anchorage Tacoma Portland					Project: Acrowood South		Boring ID: B3																				
					Location: 4425 S 3rd Avenue Everett, WA																						
					Client: Acrowood		Project Number: 0377-07																				
Date Start/Finish: 11/13/2019		Drilling Method: Direct Push		<table border="1"> <thead> <tr> <th colspan="2">Unified Soil Classification System</th> </tr> </thead> <tbody> <tr> <td rowspan="5">165</td> <td>GW WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL</td> </tr> <tr> <td>GP POORLY-GRADED GRAVEL</td> </tr> <tr> <td>GM SILTY GRAVEL</td> </tr> <tr> <td>GC CLAYEY GRAVEL</td> </tr> <tr> <td>SW WELL-GRADED SAND, FINE TO COARSE SAND</td> </tr> <tr> <td rowspan="10">COHESIVE SOILS</td> <td>SP POORLY-GRADED SAND</td> </tr> <tr> <td>SM SILTY SAND</td> </tr> <tr> <td>SC CLAYEY SAND</td> </tr> <tr> <td>ML SILT</td> </tr> <tr> <td>CL CLAY</td> </tr> <tr> <td>OL ORGANIC SILT, ORGANIC CLAY</td> </tr> <tr> <td>MH SILT OF HIGH PLASTICITY, ELASTIC SILT</td> </tr> <tr> <td>CH CLAY OF HIGH PLASTICITY, FAT CLAY</td> </tr> <tr> <td>OH ORGANIC CLAY, ORGANIC SILT</td> </tr> <tr> <td>PT PEAT</td> </tr> </tbody> </table>					Unified Soil Classification System		165	GW WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL	GP POORLY-GRADED GRAVEL	GM SILTY GRAVEL	GC CLAYEY GRAVEL	SW WELL-GRADED SAND, FINE TO COARSE SAND	COHESIVE SOILS	SP POORLY-GRADED SAND	SM SILTY SAND	SC CLAYEY SAND	ML SILT	CL CLAY	OL ORGANIC SILT, ORGANIC CLAY	MH SILT OF HIGH PLASTICITY, ELASTIC SILT	CH CLAY OF HIGH PLASTICITY, FAT CLAY	OH ORGANIC CLAY, ORGANIC SILT	PT PEAT
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Logged By: Stephanie Holt		Auger ID/OD: --																									
Checked By:		Borehole ID/OD: 2"																									
Contractor: Standard Environmental Probe		Sampler: Geoprobe																									
Operator: Russell		Hammer Wt./Fall: --																									
Boring Location: East of Office		Ground Elevation:																									
Coordinates:		Water Depth: --																									
Weather: Fog		Boring Depth: 15'																									
Depth (ft bgs)	Sample Number	Time	PID Reading	Remarks	Soil and Rock Description	Unified Classification	Graphical Representation																				
0					Top 3" Asphalt																						
1				Damp Throughout	0' to 5' loose black SAND containing red and gray banding and frothy metal fragments (slag). Wood fragments at 4.5'	FILL																					
2																											
3																											
4																											
5	B3-5	8:45 AM																									
6					5' to 7' Iron red SAND	FILL																					
7																											
8																											
9																											
10																											
11					7' to 12.5' black SAND containing frothy slag at 9.5' and brown band at 10.5'	FILL																					
12	B3-12	8:50 AM																									
13																											
14																											
15																											
16					Termination of Boring	ML/CL																					
17																											
18																											
19																											
20																											
21																											
22																											
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24																											
25																											
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29																											
30																											
Notes:																											

 Practical Environmental Compliance Solutions Offices In: Anchorage Tacoma Portland					Project: Acrowood South		Boring ID: B4																																				
					Location: 4425 S 3rd Avenue Everett, WA																																						
					Client: Acrowood		Project Number: 0377-07																																				
Date Start/Finish: 11/13/2019		Drilling Method: Direct Push		<table border="1"> <thead> <tr> <th colspan="3">Unified Soil Classification System</th> </tr> </thead> <tbody> <tr> <td rowspan="5">165</td> <td>GW</td> <td>WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL</td> </tr> <tr> <td>GP</td> <td>POORLY-GRADED GRAVEL</td> </tr> <tr> <td>GM</td> <td>SILTY GRAVEL</td> </tr> <tr> <td>GC</td> <td>CLAYEY GRAVEL</td> </tr> <tr> <td>SW</td> <td>WELL-GRADED SAND, FINE TO COARSE SAND</td> </tr> <tr> <td rowspan="10">COHESIVE SOILS</td> <td>SP</td> <td>POORLY-GRADED SAND</td> </tr> <tr> <td>SM</td> <td>SILTY SAND</td> </tr> <tr> <td>SC</td> <td>CLAYEY SAND</td> </tr> <tr> <td>ML</td> <td>SILT</td> </tr> <tr> <td>CL</td> <td>CLAY</td> </tr> <tr> <td>OL</td> <td>ORGANIC SILT, ORGANIC CLAY</td> </tr> <tr> <td>MH</td> <td>SILT OF HIGH PLASTICITY, ELASTIC SILT</td> </tr> <tr> <td>CH</td> <td>CLAY OF HIGH PLASTICITY, FAT CLAY</td> </tr> <tr> <td>OH</td> <td>ORGANIC CLAY, ORGANIC SILT</td> </tr> <tr> <td>PT</td> <td>PEAT</td> </tr> </tbody> </table>					Unified Soil Classification System			165	GW	WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL	GP	POORLY-GRADED GRAVEL	GM	SILTY GRAVEL	GC	CLAYEY GRAVEL	SW	WELL-GRADED SAND, FINE TO COARSE SAND	COHESIVE SOILS	SP	POORLY-GRADED SAND	SM	SILTY SAND	SC	CLAYEY SAND	ML	SILT	CL	CLAY	OL	ORGANIC SILT, ORGANIC CLAY	MH	SILT OF HIGH PLASTICITY, ELASTIC SILT	CH	CLAY OF HIGH PLASTICITY, FAT CLAY	OH	ORGANIC CLAY, ORGANIC SILT	PT	PEAT
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Checked By:		Borehole ID/OD: 2"																																									
Contractor: Standard Environmental Probe		Sampler: Geoprobe																																									
Operator: Russell		Hammer Wt./Fall: --																																									
Boring Location: SE Corner of Pavement		Ground Elevation:																																									
Coordinates:		Water Depth: --																																									
Weather: Fog		Boring Depth: 20'																																									
Depth (ft bgs)	Sample Number	Time	PID Reading	Remarks	Soil and Rock Description		Unified Classification	Graphical Representation																																			
0					Top 3" Asphalt																																						
1	B4-1.5	9:15 AM		Damp Throughout	0' to 17' Black SAND: 4" layer of chalky mint green material at 1.5', red sand layer at 9.5', wood fragments at 12', red sand at 17' (damp)		FILL																																				
2																																											
3																																											
4																																											
5																																											
6																																											
7																																											
8																																											
9																																											
10	B4-10	9:25 AM																																									
11																																											
12																																											
13																																											
14																																											
15																																											
16																																											
17					17' to 20' stiff medium brown to green clayey SILT		ML/CL																																				
18				Sewage Odor																																							
19																																											
20					Termination of Boring																																						
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 Practical Environmental Compliance Solutions Offices In: Anchorage Tacoma Portland					Project: Acrowood South		Boring ID: B5																																			
					Location: 4425 S 3rd Avenue Everett, WA																																					
					Client: Acrowood		Project Number: 0377-07																																			
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Weather: Fog		Boring Depth: 15'																																								
Depth (ft bgs)	Sample Number	Time	PID Reading	Remarks	Soil and Rock Description	Unified Classification	Graphical Representation																																			
0					Top 3" Asphalt																																					
1				Damp Throughout	0' to 1.5' Black organic SILT with small pebbles	OH																																				
2					1.5' to 4.5' Well graded medium brown silty SAND, with pebbles	SM																																				
3																																										
4																																										
5																																										
6																																										
7																																										
8																																										
9																																										
10	B5-10	10:00 AM			4.5' to 15' Damp poorly graded medium brown SAND	SP																																				
11																																										
12																																										
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14																																										
15					Termination of Boring																																					
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28																																										
29																																										
30																																										
Notes: Foundry sand not present in this boring																																										

 eci Environmental Services Practical Environmental Compliance Solutions Offices In: Anchorage Tacoma Portland					Project: Acrowood South		Boring ID:		B6	
					Location: 4425 S 3rd Avenue Everett, WA					
					Client: Acrowood		Project Number:		0377-07	

Date Start/Finish: 11/13/2019		Drilling Method: Direct Push		Unified Soil Classification System 165 GW WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL GP POORLY-GRADED GRAVEL GM SILTY GRAVEL GC CLAYEY GRAVEL SW WELL-GRADED SAND, FINE TO COARSE SAND SP POORLY-GRADED SAND SM SILTY SAND SC CLAYEY SAND ML SILT CL CLAY OL ORGANIC SILT, ORGANIC CLAY MH SILT OF HIGH PLASTICITY, ELASTIC SILT CH CLAY OF HIGH PLASTICITY, FAT CLAY OH ORGANIC CLAY, ORGANIC SILT PT PEAT			
Logged By: Stephanie Holt		Auger ID/OD: --					
Checked By:		Borehole ID/OD: 2"					
Contractor: Standard Environmental Probe		Sampler: Geoprobe					
Operator: Russell		Hammer Wt./Fall: --					
Boring Location: NNE of Office		Ground Elevation:					
Coordinates:		Water Depth: --					
Weather: Fog		Boring Depth: 15'					

Depth (ft bgs)	Sample Number	Time	PID Reading	Remarks	Soil and Rock Description	Unified Classification	Graphical Representation
0					Top 3" Asphalt		
1				Damp Throughout	0' to 11' Black SAND: slag and red banding throughout	FILL	
2							
3							
4							
5	B6-5	10:40 AM					
6							
7	B6-7	10:40 AM					
8							
9							
10							
11					11' to 15' Medium brown poorly graded SAND: some iron staining with clay lenses at 11' and 13.5'	SP/CL	
12							
13							
14							
15					Termination of Boring		
16							
17							
18							
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22							
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24							
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27							
28							
29							
30							

Notes:

 Practical Environmental Compliance Solutions Offices In: Anchorage Tacoma Portland					Project: Acrowood South		Boring ID: B7																																			
					Location: 4425 S 3rd Avenue Everett, WA																																					
					Client: Acrowood		Project Number: 0377-07																																			
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Logged By: Stephanie Holt		Auger ID/OD: --																																								
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Contractor: Standard Environmental Probe		Sampler: Geoprobe																																								
Operator: Russell		Hammer Wt./Fall: --																																								
Boring Location: North of B6		Ground Elevation:																																								
Coordinates:		Water Depth: --																																								
Weather: Partly cloudy		Boring Depth: 15'																																								
Depth (ft bgs)	Sample Number	Time	PID Reading	Remarks	Soil and Rock Description	Unified Classification	Graphical Representation																																			
0					Top 3" Asphalt		FILL																																			
1	B7-1	11:30 AM		Damp Throughout	0' to 2' Black SAND: red streak and frothy slag at 2'																																					
2					2' to 3' Medium brown SAND																																					
3																																										
4					3' to 6' Black SAND: brown sand lens at 5.5' to 6'																																					
5																																										
6					6' to 8' Dark brown to black SAND with bits of mint green material, light orange layer at 8'																																					
7																																										
8	B7-8	11:30 AM			8' to 9' Black SAND with slag																																					
9																																										
10					9' to 11' Well graded dark tan SAND																																					
11																																										
12					11' to 14' Mix of slag and iron staining																																					
13	B7-13	11:30 AM																																								
14					14' to 15' Medium brown well graded SAND	SW																																				
15					Termination of Boring																																					
16																																										
17																																										
18																																										
19																																										
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30																																										
Notes:																																										

 Practical Environmental Compliance Solutions Offices In: Anchorage Tacoma Portland					Project: Acrowood South		Boring ID: B8	
					Location: 4425 S 3rd Avenue Everett, WA			
					Client: Acrowood		Project Number: 0377-07	

Date Start/Finish: 11/13/2019		Drilling Method: Direct Push		Unified Soil Classification System 165 GW WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL GP POORLY-GRADED GRAVEL GM SILTY GRAVEL GC CLAYEY GRAVEL SW WELL-GRADED SAND, FINE TO COARSE SAND SP POORLY-GRADED SAND SM SILTY SAND SC CLAYEY SAND			
Logged By: Stephanie Holt		Auger ID/OD: --					
Checked By:		Borehole ID/OD: 2"		COHESIVE SOILS ML SILT CL CLAY OL ORGANIC SILT, ORGANIC CLAY MH SILT OF HIGH PLASTICITY, ELASTIC SILT CH CLAY OF HIGH PLASTICITY, FAT CLAY OH ORGANIC CLAY, ORGANIC SILT PT PEAT			
Contractor: Standard Environmental Probe		Sampler: Geoprobe					
Operator: Russell		Hammer Wt./Fall: --					
Boring Location: South of office in pavement		Ground Elevation:					
Coordinates:		Water Depth: --					
Weather:		Boring Depth: 10'					

Depth (ft bgs)	Sample Number	Time	PID Reading	Remarks	Soil and Rock Description	Unified Classification	Graphical Representation
0					Top 6" Concrete		
1				Damp Throughout	6" to 5' Black SAND: lens of white sand at 3', lens of black silt at 4', lens of dull orange sand at 4.5'	FILL	
2							
3							
4	B8-4.5	12:15 PM					
5					5' to 10' Medium brown very stiff silty CLAY	ML/CL	
6							
7							
8							
9							
10					Termination of Boring		
11							
12							
13							
14							
15							
16							
17							
18							
19							
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25							
26							
27							
28							
29							
30							

Notes: Drilled into an area that had been patched by concrete. 5' to 10' bgs looked native.

 eci Environmental Services Practical Environmental Compliance Solutions Offices In: Anchorage Tacoma Portland					Project: Acrowood South		Boring ID:		B9	
					Location: 4425 S 3rd Avenue Everett, WA					
					Client: Acrowood		Project Number:		0377-07	

Date Start/Finish: 11/13/2019		Drilling Method: Direct Push		Unified Soil Classification System 165 GW WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL GP POORLY-GRADED GRAVEL GM SILTY GRAVEL GC CLAYEY GRAVEL SW WELL-GRADED SAND, FINE TO COARSE SAND SP POORLY-GRADED SAND SM SILTY SAND SC CLAYEY SAND ML SILT CL CLAY OL ORGANIC SILT, ORGANIC CLAY MH SILT OF HIGH PLASTICITY, ELASTIC SILT CH CLAY OF HIGH PLASTICITY, FAT CLAY OH ORGANIC CLAY, ORGANIC SILT PT PEAT			
Logged By: Stephanie Holt		Auger ID/OD: --					
Checked By:		Borehole ID/OD: 2"					
Contractor: Standard Environmental Probe		Sampler: Geoprobe					
Operator: Russell		Hammer Wt./Fall: --					
Boring Location: Big sink hole		Ground Elevation:					
Coordinates:		Water Depth: --					
Weather:		Boring Depth: 15'					

Depth (ft bgs)	Sample Number	Time	PID Reading	Remarks	Soil and Rock Description	Unified Classification	Graphical Representation
0					Top 3" Asphalt		
1				Damp Throughout	0' to 10' Black SAND: rust staining and slag throughout	FILL	
2							
3							
4	B9-4	12:50 PM					
5							
6							
7							
8							
9							
10							
11					10' to 12' Stiff medium brown clayey SILT	ML/CL	
12					12' to 15' Loose medium brown SAND	SP	
13							
14							
15					Termination of Boring		
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

Notes:

 Practical Environmental Compliance Solutions Offices In: Anchorage Tacoma Portland					Project: Acrowood South		Boring ID: B10																																			
					Location: 4425 S 3rd Avenue Everett, WA																																					
					Client: Acrowood		Project Number: 0377-07																																			
Date Start/Finish: 11/13/2019		Drilling Method: Direct Push		<table border="1"> <thead> <tr> <th colspan="2">Unified Soil Classification System</th> </tr> </thead> <tbody> <tr> <td rowspan="5">165</td> <td>GW</td> <td>WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL</td> </tr> <tr> <td>GP</td> <td>POORLY-GRADED GRAVEL</td> </tr> <tr> <td>GM</td> <td>SILTY GRAVEL</td> </tr> <tr> <td>GC</td> <td>CLAYEY GRAVEL</td> </tr> <tr> <td>SW</td> <td>WELL-GRADED SAND, FINE TO COARSE SAND</td> </tr> <tr> <td rowspan="10">COHESIVE SOILS</td> <td>SP</td> <td>POORLY-GRADED SAND</td> </tr> <tr> <td>SM</td> <td>SILTY SAND</td> </tr> <tr> <td>SC</td> <td>CLAYEY SAND</td> </tr> <tr> <td>ML</td> <td>SILT</td> </tr> <tr> <td>CL</td> <td>CLAY</td> </tr> <tr> <td>OL</td> <td>ORGANIC SILT, ORGANIC CLAY</td> </tr> <tr> <td>MH</td> <td>SILT OF HIGH PLASTICITY, ELASTIC SILT</td> </tr> <tr> <td>CH</td> <td>CLAY OF HIGH PLASTICITY, FAT CLAY</td> </tr> <tr> <td>OH</td> <td>ORGANIC CLAY, ORGANIC SILT</td> </tr> <tr> <td>PT</td> <td>PEAT</td> </tr> </tbody> </table>					Unified Soil Classification System		165	GW	WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL	GP	POORLY-GRADED GRAVEL	GM	SILTY GRAVEL	GC	CLAYEY GRAVEL	SW	WELL-GRADED SAND, FINE TO COARSE SAND	COHESIVE SOILS	SP	POORLY-GRADED SAND	SM	SILTY SAND	SC	CLAYEY SAND	ML	SILT	CL	CLAY	OL	ORGANIC SILT, ORGANIC CLAY	MH	SILT OF HIGH PLASTICITY, ELASTIC SILT	CH	CLAY OF HIGH PLASTICITY, FAT CLAY	OH	ORGANIC CLAY, ORGANIC SILT	PT	PEAT
Unified Soil Classification System																																										
165	GW	WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL																																								
	GP	POORLY-GRADED GRAVEL																																								
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	ML	SILT																																								
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	CH	CLAY OF HIGH PLASTICITY, FAT CLAY																																								
	OH	ORGANIC CLAY, ORGANIC SILT																																								
	PT	PEAT																																								
Logged By: Stephanie Holt		Auger ID/OD: --																																								
Checked By:		Borehole ID/OD: 2"																																								
Contractor: Standard Environmental Probe		Sampler: Geoprobe																																								
Operator: Russell		Hammer Wt./Fall: --																																								
Boring Location: SE Corner of Pavement		Ground Elevation:																																								
Coordinates:		Water Depth: --																																								
Weather: Fog		Boring Depth: 15'																																								
Depth (ft bgs)	Sample Number	Time	PID Reading	Remarks	Soil and Rock Description		Unified Classification	Graphical Representation																																		
0					Top 3" Asphalt																																					
1				Damp Throughout	0' to 6' Black SAND: some slag, brown band at 3'		FILL																																			
2																																										
3																																										
4																																										
5																																										
6					5' to 9' Brown SAND with gray metal banding, black mottling		FILL																																			
7																																										
8																																										
9					9' to 12.5' Black SAND with slag mixed in: plastic piece at 10', frothy slag piece at 12.5'		FILL																																			
10	B10-10	3:25 PM																																								
11																																										
12					12.5' to 15' loose dark to medium tan SAND, grades from dark tan to lighter tan		SP																																			
13																																										
14																																										
15					Termination of Boring																																					
16																																										
17																																										
18																																										
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Notes:																																										

 eci Environmental Services Practical Environmental Compliance Solutions Offices In: Anchorage Tacoma Portland					Project: Acrowood South		Boring ID: B11	
					Location: 4425 S 3rd Avenue Everett, WA			
					Client: Acrowood		Project Number: 0377-07	

Date Start/Finish: 11/13/2019		Drilling Method: Direct Push		Unified Soil Classification System 165 GW WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL GP POORLY-GRADED GRAVEL GM SILTY GRAVEL GC CLAYEY GRAVEL SW WELL-GRADED SAND, FINE TO COARSE SAND SP POORLY-GRADED SAND SM SILTY SAND SC CLAYEY SAND ML SILT CL CLAY OL ORGANIC SILT, ORGANIC CLAY MH SILT OF HIGH PLASTICITY, ELASTIC SILT CH CLAY OF HIGH PLASTICITY, FAT CLAY OH ORGANIC CLAY, ORGANIC SILT PT PEAT			
Logged By: Stephanie Holt		Auger ID/OD: --					
Checked By:		Borehole ID/OD: 2"					
Contractor: Standard Environmental Probe		Sampler: Geoprobe					
Operator: Russell		Hammer Wt./Fall: --					
Boring Location: South of B10 in lawn		Ground Elevation:					
Coordinates:		Water Depth: --					
Weather:		Boring Depth: 20'					

Depth (ft bgs)	Sample Number	Time	PID Reading	Remarks	Soil and Rock Description	Unified Classification	Graphical Representation
0					Top 3" Asphalt		
1				Damp Throughout	0' to 7.5' Black SAND, mottled brown to reddish sand and slag throughout	FILL	
2							
3							
4							
5	B11-5	3:40 PM					
6							
7							
8							
9					7.5' to 10' piece of wood		
10							
11					10' to 15' No recovery		
12							
13							
14							
15							
16					15' to 19' loose to dense Brown SAND	SP	
17							
18							
19					19' to 20' stiff medium brown silty CLAY	ML/CL	
20					Termination of Boring		
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

Notes:

 Practical Environmental Compliance Solutions Offices In: Anchorage Tacoma Portland					Project: Acrowood South		Boring ID: B12	
					Location: 4425 S 3rd Avenue Everett, WA			
					Client: Acrowood		Project Number: 0377-07	

Date Start/Finish: 11/13/2019		Drilling Method: Direct Push		Unified Soil Classification System 165 GW WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL GP POORLY-GRADED GRAVEL GM SILTY GRAVEL GC CLAYEY GRAVEL SW WELL-GRADED SAND, FINE TO COARSE SAND SP POORLY-GRADED SAND SM SILTY SAND SC CLAYEY SAND ML SILT CL CLAY OL ORGANIC SILT, ORGANIC CLAY MH SILT OF HIGH PLASTICITY, ELASTIC SILT CH CLAY OF HIGH PLASTICITY, FAT CLAY OH ORGANIC CLAY, ORGANIC SILT PT PEAT			
Logged By: Stephanie Holt		Auger ID/OD: --					
Checked By:		Borehole ID/OD: 2"					
Contractor: Standard Environmental Probe		Sampler: Geoprobe					
Operator: Russell		Hammer Wt./Fall: --					
Boring Location: Center North Parking		Ground Elevation:					
Coordinates:		Water Depth: --					
Weather: Fog		Boring Depth: 20'					

Depth (ft bgs)	Sample Number	Time	PID Reading	Remarks	Soil and Rock Description	Unified Classification	Graphical Representation
0					Top 3" Asphalt		
1				Damp Throughout	0' to 9' Black SAND: slag and rust red soil throughout	FILL	
2	B12-2.5	8:17 AM		Slight organic odor			
3							
4							
5							
6							
7							
8					9' to 10' Medium brown silty CLAY mixed with wood chunks		
9	B12-9	8:25 AM		Slight floral odor			
10							
11					10' to 14' Medium brown SAND	SP	
12							
13							
14					14' to 15' dense medium brown silty SAND	SM	
15					Termination of Boring		
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

Notes:

 Practical Environmental Compliance Solutions Offices In: Anchorage Tacoma Portland					Project: Acrowood South		Boring ID: B13	
					Location: 4425 S 3rd Avenue Everett, WA			
					Client: Acrowood		Project Number: 0377-07	

Date Start/Finish: 11/14/2019		Drilling Method: Direct Push		Unified Soil Classification System 165 GW WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL GP POORLY-GRADED GRAVEL GM SILTY GRAVEL GC CLAYEY GRAVEL SW WELL-GRADED SAND, FINE TO COARSE SAND SP POORLY-GRADED SAND SM SILTY SAND SC CLAYEY SAND			
Logged By: Stephanie Holt		Auger ID/OD: --					
Checked By:		Borehole ID/OD: 2"		COHESIVE SOILS ML SILT CL CLAY OL ORGANIC SILT, ORGANIC CLAY MH SILT OF HIGH PLASTICITY, ELASTIC SILT CH CLAY OF HIGH PLASTICITY, FAT CLAY OH ORGANIC CLAY, ORGANIC SILT PT PEAT			
Contractor: Standard Environmental Probe		Sampler: Geoprobe					
Operator: Russell		Hammer Wt./Fall: --					
Boring Location: NW Parking Lot		Ground Elevation:					
Coordinates:		Water Depth: --					
Weather: Fog		Boring Depth: 10'					

Depth (ft bgs)	Sample Number	Time	PID Reading	Remarks	Soil and Rock Description	Unified Classification	Graphical Representation
0					Top 3" Asphalt		
1				Damp Throughout	0' to 2' Loose black SAND mixed with brown sand	FILL	
2					2' to 3' Medium brown sandy SILT	ML/CL	
3					3' to 10' Medium brown silty SAND	SM	
4							
5	B13-5	8:35 AM					
6							
7							
8					Termination of Boring		
9							
10							
11							
12							
13							
14							
15							
16							
17							
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29							
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Notes:

 Practical Environmental Compliance Solutions Offices In: Anchorage Tacoma Portland					Project: Acrowood South		Boring ID: B14	
					Location: 4425 S 3rd Avenue Everett, WA			
					Client: Acrowood		Project Number: 0377-07	

Date Start/Finish: 11/14/2019		Drilling Method: Direct Push		Unified Soil Classification System 165 GW WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL GP POORLY-GRADED GRAVEL GM SILTY GRAVEL GC CLAYEY GRAVEL SW WELL-GRADED SAND, FINE TO COARSE SAND SP POORLY-GRADED SAND SM SILTY SAND SC CLAYEY SAND ML SILT CL CLAY OL ORGANIC SILT, ORGANIC CLAY MH SILT OF HIGH PLASTICITY, ELASTIC SILT CH CLAY OF HIGH PLASTICITY, FAT CLAY OH ORGANIC CLAY, ORGANIC SILT PT PEAT			
Logged By: Stephanie Holt		Auger ID/OD: --					
Checked By:		Borehole ID/OD: 2"					
Contractor: Standard Environmental Probe		Sampler: Geoprobe					
Operator: Russell		Hammer Wt./Fall: --					
Boring Location: Northernmost boring		Ground Elevation:					
Coordinates:		Water Depth: --					
Weather: Fog		Boring Depth: 15'					

Depth (ft bgs)	Sample Number	Time	PID Reading	Remarks	Soil and Rock Description	Unified Classification	Graphical Representation
0					Top 3" Asphalt		
1				Damp Throughout	0' to 2' Medium brown silty gravelly SAND	FILL	
2					2' to 3' Black SAND with gray sand		
3							
4	B14-4	9:00 AM			3' to 5' Rust red SAND and black sand, some slag		
5					5' to 6' Rust red SAND		
6						SP	
7					6' to 10' Reddish brown SAND		
8							
9						SW	
10					10' to 11.5' Black and red gravelly SAND		
11							
12						SP	
13					11.5' to 15' Light tan SAND with some silt		
14							
15					Termination of Boring		
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

Notes:

 Practical Environmental Compliance Solutions Offices In: Anchorage Tacoma Portland					Project: Acrowood South		Boring ID: B15	
					Location: 4425 S 3rd Avenue Everett, WA			
					Client: Acrowood		Project Number: 0377-07	

Date Start/Finish: 11/14/2019		Drilling Method: Direct Push		165 GW WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL GP POORLY-GRADED GRAVEL GM SILTY GRAVEL GC CLAYEY GRAVEL SW WELL-GRADED SAND, FINE TO COARSE SAND SP POORLY-GRADED SAND SM SILTY SAND SC CLAYEY SAND COHESIVE SOILS ML SILT CL CLAY OL ORGANIC SILT, ORGANIC CLAY MH SILT OF HIGH PLASTICITY, ELASTIC SILT CH CLAY OF HIGH PLASTICITY, FAT CLAY OH ORGANIC CLAY, ORGANIC SILT PT PEAT			
Logged By: Stephanie Holt		Auger ID/OD: --					
Checked By:		Borehole ID/OD: 2"					
Contractor: Standard Environmental Probe		Sampler: Geoprobe					
Operator: Russell		Hammer Wt./Fall: --					
Boring Location: Southern grassy area		Ground Elevation:					
Coordinates:		Water Depth: --					
Weather: Sunny		Boring Depth: 15'					

Depth (ft bgs)	Sample Number	Time	PID Reading	Remarks	Soil and Rock Description	Unified Classification	Graphical Representation
0					Top 1' organic top soil		
1				Damp Throughout			
2					1' to 5.5' Lense of white SAND followed by black sand: orange streak at 2', green slag at 4'	FILL	
3							
4	B15-4	10:15 AM					
5							
6							
7							
8							
9							
10					5.5' to 15' Medium brown silty gravelly SAND	SW	
11							
12							
13							
14							
15					Termination of Boring		
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

Notes:

 Practical Environmental Compliance Solutions Offices In: Anchorage Tacoma Portland					Project: Acrowood South		Boring ID: B16	
					Location: 4425 S 3rd Avenue Everett, WA			
					Client: Acrowood		Project Number: 0377-07	

Date Start/Finish: 11/14/2019		Drilling Method: Direct Push		Unified Soil Classification System 165 GW WELL-GRADED GRAVEL, FINE TO COARSE GRAVEL GP POORLY-GRADED GRAVEL GM SILTY GRAVEL GC CLAYEY GRAVEL SW WELL-GRADED SAND, FINE TO COARSE SAND SP POORLY-GRADED SAND SM SILTY SAND SC CLAYEY SAND ML SILT CL CLAY OL ORGANIC SILT, ORGANIC CLAY MH SILT OF HIGH PLASTICITY, ELASTIC SILT CH CLAY OF HIGH PLASTICITY, FAT CLAY OH ORGANIC CLAY, ORGANIC SILT PT PEAT			
Logged By: Stephanie Holt		Auger ID/OD: --					
Checked By:		Borehole ID/OD: 2"					
Contractor: Standard Environmental Probe		Sampler: Geoprobe					
Operator: Russell		Hammer Wt./Fall: --					
Boring Location: Edge of woods		Ground Elevation:					
Coordinates:		Water Depth: --					
Weather: Sunny		Boring Depth: 15'					

Depth (ft bgs)	Sample Number	Time	PID Reading	Remarks	Soil and Rock Description	Unified Classification	Graphical Representation
0					0' to 2.5' Iron red SAND	FILL	
1				Damp Throughout			
2							
3							
4							
5							
6	B16-6	10:35 AM			2.5' Black SAND: green slag at 6', iron stains at 8', grades to medium brown silty sand at 13'	FILL	
7							
8							
9							
10							
11							
12					13' to 15' dense medium brown silty SAND	SM	
13							
14					Termination of Boring		
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

Notes:

 Practical Environmental Compliance Solutions Offices in: Anchorage Tacoma Portland					Project: Acrowood South		Test Pit ID:		TP1		
					Project Location:		4255 S 3rd Ave Everett				
Date: 11/14/2019					Project Number: 0377-07						
Logged by: CZL					Client: Acrowood						
Checked By:					Test Pit Location:						
Contractor:					Excavation Method:		Excavator				
Weather: Cloudy					Test Pit Size:		Length		Width		
							8		2		
Depth (feet)	Time	Sample Type	Sample Number	Graphic Log	Water Level:		N/A				
					Material Description						
					Surface Conditions:		Forest Floor				
0					0-1' Dark brown organic sand						
1					1'-8' medium brown silty gravelly sand well graded						
2	10:10	Soil	TP1-2								
3											
4											
5											
6											
7											
8					8'-10' grey silty sand						
9											
10											
Notes:											

 Practical Environmental Compliance Solutions Offices in: Anchorage Tacoma Portland					Project: Acrowood South		Test Pit ID:		TP2		
					Project Location:		4255 S 3rd Ave Everett				
Date: 11/14/2019					Project Number: 0377-07						
Logged by: CZL					Client: Acrowood						
Checked By:					Test Pit Location:						
Contractor:					Excavation Method:		Excavator				
Weather: Cloudy					Test Pit Size:		Length		Width		
							8		2		
Depth (feet)	Time	Sample Type	Sample Number	Graphic Log	Water Level:		N/A				
					Material Description						
					Surface Conditions:		Forest Floor				
0					0-2' Dark brown organic sand						
1					2'-5' medium brown silty gravelly sand well graded						
2	11:00	Soil	TP2-2								
3											
4											
5					5'-10' grey silty sand						
6											
7											
8											
9											
10											
Notes:											

 Practical Environmental Compliance Solutions Offices in: Anchorage Tacoma Portland					Project: Acrowood South		Test Pit ID:		TP3		
					Project Location:		4255 S 3rd Ave Everett				
Date: 11/14/2019					Project Number: 0377-07						
Logged by: CZL					Client: Acrowood						
Checked By:					Test Pit Location:						
Contractor:					Excavation Method:		Excavator				
Weather: Cloudy					Test Pit Size:		Length		Width		
							8		2		
Depth (feet)	Time	Sample Type	Sample Number	Graphic Log	Water Level:		N/A				
					Material Description						
					Surface Conditions:		Forest Floor				
0					0-1' Dark brown organic sand						
1					1'-7' medium brown silty gravelly sand well graded						
2											
3		Soil	TP3-3								
4											
5											
6											
7					7'-10' grey silty sand						
8											
9											
10											
Notes:											

 Practical Environmental Compliance Solutions Offices in: Anchorage Tacoma Portland					Project: Acrowood South		Test Pit ID:		TP4	
					Project Location:		4255 S 3rd Ave Everett			
Date: 11/14/2019					Project Number: 0377-07					
Logged by: CZL					Client: Acrowood					
Checked By:					Test Pit Location:					
Contractor:					Excavation Method:		Excavator			
Weather: Cloudy					Test Pit Size:		Length		Width	
							8		2	
Depth (feet)					Water Level:		N/A			
Time					Material Description					
Sample Type					Surface Conditions: Forest Floor					
Sample Number										
Graphic Log										
0					0-6" Dark brown organic sand					
1					6"-10' medium brown silty gravelly sand well graded					
2										
3	12:12	Soil	TP4-3							
4										
5										
6										
7										
8										
9										
10										
Notes:										

 Practical Environmental Compliance Solutions Offices in: Anchorage Tacoma Portland					Project: Acrowood South		Test Pit ID:		TP5	
					Project Location:		4255 S 3rd Ave Everett			
Date: 11/14/2019					Project Number: 0377-07					
Logged by: CZL					Client: Acrowood					
Checked By:					Test Pit Location:					
Contractor:					Excavation Method:		Excavator			
Weather: Cloudy					Test Pit Size:		Length		Width	
							8		2	
Depth (feet)	Time	Sample Type	Sample Number	Graphic Log	Water Level:		N/A			
					Material Description					
					Surface Conditions:		Forest Floor			
0					0-1' Dark brown organic sand					
1					1'-10' well graded medium brown silty gravelly sand					
2										
3	12:40	Soil	TP5-3							
4										
5										
6										
7										
8										
9										
10										
Notes:										

Appendix D

Appendix D: Analytical Results
Laboratory Data Sheets
Chains of Custody

Analytical Results



November 21, 2019

Mr. Brian Dixon
EcoCon, Inc.
PO Box 153
Fox Island, WA 98333

Dear Mr. Dixon,

On November 12th, 4 samples were received by our laboratory and assigned our laboratory project number EV19110077. The project was identified as your 0377-07. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director



CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/21/2019
		ALS JOB#:	EV19110077
		ALS SAMPLE#:	EV19110077-02
CLIENT CONTACT:	Brian Dixon	DATE RECEIVED:	11/12/2019
CLIENT PROJECT:	0377-07	COLLECTION DATE:	11/12/2019 2:55:00 PM
CLIENT SAMPLE ID	B1-6	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	U	0.020	1	MG/KG	11/15/2019	RAL
Arsenic	EPA-6020	4.5	0.20	1	MG/KG	11/14/2019	RAL
Cadmium	EPA-6020	0.88	0.10	1	MG/KG	11/14/2019	RAL
Chromium	EPA-6020	18	0.10	1	MG/KG	11/14/2019	RAL
Lead	EPA-6020	150	0.10	1	MG/KG	11/14/2019	RAL

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/21/2019
		ALS JOB#:	EV19110077
		ALS SAMPLE#:	EV19110077-03
CLIENT CONTACT:	Brian Dixon	DATE RECEIVED:	11/12/2019
CLIENT PROJECT:	0377-07	COLLECTION DATE:	11/12/2019 3:40:00 PM
CLIENT SAMPLE ID	B1-W	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-245.1	U	0.20	1	UG/L	11/14/2019	RAL
Arsenic	EPA-200.8	8.5	1.0	1	UG/L	11/14/2019	RAL
Cadmium	EPA-200.8	U	1.0	1	UG/L	11/14/2019	RAL
Chromium	EPA-200.8	44	2.0	1	UG/L	11/14/2019	RAL
Lead	EPA-200.8	72	1.0	1	UG/L	11/14/2019	RAL

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/21/2019
		ALS JOB#:	EV19110077
		ALS SAMPLE#:	EV19110077-04
CLIENT CONTACT:	Brian Dixon	DATE RECEIVED:	11/12/2019
CLIENT PROJECT:	0377-07	COLLECTION DATE:	11/12/2019 3:35:00 PM
CLIENT SAMPLE ID	B2-10	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	0.058	0.020	1	MG/KG	11/15/2019	RAL
Arsenic	EPA-6020	5.5	0.20	1	MG/KG	11/14/2019	RAL
Cadmium	EPA-6020	0.20	0.10	1	MG/KG	11/14/2019	RAL
Chromium	EPA-6020	19	0.10	1	MG/KG	11/14/2019	RAL
Lead	EPA-6020	21	0.10	1	MG/KG	11/14/2019	RAL



CERTIFICATE OF ANALYSIS

CLIENT: EcoCon, Inc. DATE: 11/21/2019
PO Box 153 ALS SDG#: EV19110077
Fox Island, WA 98333 WDOE ACCREDITATION: C601
CLIENT CONTACT: Brian Dixon
CLIENT PROJECT: 0377-07

LABORATORY BLANK RESULTS

MBLK-R350984 - Batch R350984 - Soil by EPA-7471

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	U	MG/KG	0.020	11/15/2019	RAL

U - Analyte analyzed for but not detected at level above reporting limit.

MBLK-350900 - Batch R350900 - Water by EPA-245.1

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-245.1	U	UG/L	0.20	11/14/2019	RAL

U - Analyte analyzed for but not detected at level above reporting limit.

MB-111319S - Batch 147626 - Soil by EPA-6020

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-6020	U	MG/KG	0.20	11/14/2019	RAL
Cadmium	EPA-6020	U	MG/KG	0.10	11/14/2019	RAL
Chromium	EPA-6020	U	MG/KG	0.10	11/14/2019	RAL
Lead	EPA-6020	U	MG/KG	0.10	11/14/2019	RAL

U - Analyte analyzed for but not detected at level above reporting limit.

MB-111319W - Batch 147625 - Water by EPA-200.8

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-200.8	U	UG/L	1.0	11/14/2019	RAL
Cadmium	EPA-200.8	U	UG/L	1.0	11/14/2019	RAL
Chromium	EPA-200.8	U	UG/L	2.0	11/14/2019	RAL
Lead	EPA-200.8	U	UG/L	1.0	11/14/2019	RAL

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: EcoCon, Inc.
PO Box 153
Fox Island, WA 98333
CLIENT CONTACT: Brian Dixon
CLIENT PROJECT: 0377-07

DATE: 11/21/2019
ALS SDG#: EV19110077
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: R350984 - Soil by EPA-7471

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Mercury - BS	EPA-7471	105			81.8	117	11/15/2019	RAL
Mercury - BSD	EPA-7471	106	0		81.8	117	11/15/2019	RAL

ALS Test Batch ID: R350900 - Water by EPA-245.1

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Mercury - BS	EPA-245.1	103			80.6	118	11/14/2019	RAL
Mercury - BSD	EPA-245.1	104	1		80.6	118	11/14/2019	RAL

ALS Test Batch ID: 147626 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Arsenic - BS	EPA-6020	98.3			80	120	11/14/2019	RAL
Arsenic - BSD	EPA-6020	101	2		80	120	11/14/2019	RAL
Cadmium - BS	EPA-6020	105			80	120	11/14/2019	RAL
Cadmium - BSD	EPA-6020	108	3		80	120	11/14/2019	RAL
Chromium - BS	EPA-6020	98.3			80	120	11/14/2019	RAL
Chromium - BSD	EPA-6020	101	2		80	120	11/14/2019	RAL
Lead - BS	EPA-6020	97.9			80	120	11/14/2019	RAL
Lead - BSD	EPA-6020	101	3		80	120	11/14/2019	RAL

ALS Test Batch ID: 147625 - Water by EPA-200.8

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Arsenic - BS	EPA-200.8	96.3			89.1	110	11/20/2019	RAL
Arsenic - BSD	EPA-200.8	97.2	1		89.1	110	11/14/2019	RAL
Cadmium - BS	EPA-200.8	98.9			89.4	110	11/20/2019	RAL
Cadmium - BSD	EPA-200.8	104	5		89.4	110	11/14/2019	RAL
Chromium - BS	EPA-200.8	94.3			88.3	110.2	11/20/2019	RAL
Chromium - BSD	EPA-200.8	95.9	2		88.3	110.2	11/14/2019	RAL
Lead - BS	EPA-200.8	95.4			87.5	107	11/20/2019	RAL
Lead - BSD	EPA-200.8	96.4	1		87.5	107	11/14/2019	RAL

APPROVED BY

Laboratory Director



November 27, 2019

Ms. Stephanie Holt
EcoCon, Inc.
PO Box 153
Fox Island, WA 98333

Dear Ms. Holt,

On November 13th, 15 samples were received by our laboratory and assigned our laboratory project number EV19110097. The project was identified as your 0377-07. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director



CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/27/2019
		ALS JOB#:	EV19110097
		ALS SAMPLE#:	EV19110097-01
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/13/2019
CLIENT PROJECT:	0377-07	COLLECTION DATE:	11/13/2019 8:45:00 AM
CLIENT SAMPLE ID	B3-5	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	U	0.020	1	MG/KG	11/15/2019	RAL
Arsenic	EPA-6020	2.8	0.20	1	MG/KG	11/18/2019	RAL
Cadmium	EPA-6020	0.14	0.10	1	MG/KG	11/18/2019	RAL
Chromium	EPA-6020	18	0.10	1	MG/KG	11/18/2019	RAL
Lead	EPA-6020	22	0.10	1	MG/KG	11/18/2019	RAL

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/27/2019
		ALS JOB#:	EV19110097
		ALS SAMPLE#:	EV19110097-02
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/13/2019
CLIENT PROJECT:	0377-07	COLLECTION DATE:	11/13/2019 8:50:00 AM
CLIENT SAMPLE ID	B3-12	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Pyridine	EPA-8270	U	200	1	UG/KG	11/27/2019	JMK
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Phenol	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Aniline	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Bis(2-Chloroethyl)Ether	EPA-8270	U	250	1	UG/KG	11/27/2019	JMK
2-Chlorophenol	EPA-8270	U	250	1	UG/KG	11/27/2019	JMK
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
2-Methylphenol	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	250	1	UG/KG	11/27/2019	JMK
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
N-Nitroso-Di-N-Propylamine	EPA-8270	U	250	1	UG/KG	11/27/2019	JMK
Hexachloroethane	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Nitrobenzene	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Isophorone	EPA-8270	U	120	1	UG/KG	11/27/2019	JMK
2-Nitrophenol	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
2,4-Dimethylphenol	EPA-8270	U	110	1	UG/KG	11/27/2019	JMK
Benzoic Acid	EPA-8270	U	1200	1	UG/KG	11/27/2019	JMK
Bis(2-Chloroethoxy)Methane	EPA-8270	U	250	1	UG/KG	11/27/2019	JMK
2,4-Dichlorophenol	EPA-8270	U	500	1	UG/KG	11/27/2019	JMK
1,2,4-Trichlorobenzene	EPA-8270	U	120	1	UG/KG	11/27/2019	JMK
Naphthalene	EPA-8270	290	100	1	UG/KG	11/27/2019	JMK
4-Chloroaniline	EPA-8270	U	1000	1	UG/KG	11/27/2019	JMK
2,6-Dichlorophenol	EPA-8270	U	310	1	UG/KG	11/27/2019	JMK
Hexachlorobutadiene	EPA-8270	U	500	1	UG/KG	11/27/2019	JMK
4-Chloro-3-Methylphenol	EPA-8270	U	540	1	UG/KG	11/27/2019	JMK
2-Methylnaphthalene	EPA-8270	U	260	1	UG/KG	11/27/2019	JMK
1-Methylnaphthalene	EPA-8270	U	300	1	UG/KG	11/27/2019	JMK
Hexachlorocyclopentadiene	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
2-Nitroaniline	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Acenaphthylene	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
2,6-Dinitrotoluene	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Acenaphthene	EPA-8270	190	100	1	UG/KG	11/27/2019	JMK



CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/27/2019
		ALS JOB#:	EV19110097
		ALS SAMPLE#:	EV19110097-02
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/13/2019
CLIENT PROJECT:	0377-07	COLLECTION DATE:	11/13/2019 8:50:00 AM
CLIENT SAMPLE ID	B3-12	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
3-Nitroaniline	EPA-8270	U	1000	1	UG/KG	11/27/2019	JMK
2,4-Dinitrophenol	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
4-Nitrophenol	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Dibenzofuran	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
2,4-Dinitrotoluene	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
2,3,4,6-Tetrachlorophenol	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Diethylphthalate	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Fluorene	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	11/27/2019	JMK
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Azobenzene	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	11/27/2019	JMK
Phenanthrene	EPA-8270	770	100	1	UG/KG	11/27/2019	JMK
Anthracene	EPA-8270	130	100	1	UG/KG	11/27/2019	JMK
Carbazole	EPA-8270	U	250	1	UG/KG	11/27/2019	JMK
Di-N-Butylphthalate	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Fluoranthene	EPA-8270	3800	100	1	UG/KG	11/27/2019	JMK
Pyrene	EPA-8270	5600	1000	10	UG/KG	11/27/2019	JMK
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
3,3-Dichlorobenzidine	EPA-8270	U	290	1	UG/KG	11/27/2019	JMK
Benzo[A]Anthracene	EPA-8270	7000	1000	10	UG/KG	11/27/2019	JMK
Chrysene	EPA-8270	12000	1000	10	UG/KG	11/27/2019	JMK
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Benzo[B]Fluoranthene	EPA-8270	29000	1000	10	UG/KG	11/27/2019	JMK
Benzo[K]Fluoranthene	EPA-8270	8200	1000	10	UG/KG	11/27/2019	JMK
Benzo[A]Pyrene	EPA-8270	15000	1000	10	UG/KG	11/27/2019	JMK
Indeno[1,2,3-Cd]Pyrene	EPA-8270	16000	1000	10	UG/KG	11/27/2019	JMK
Dibenz[A,H]Anthracene	EPA-8270	6100	1000	10	UG/KG	11/27/2019	JMK
Benzo[G,H,I]Perylene	EPA-8270	20000	1000	10	UG/KG	11/27/2019	JMK
PCB-1016	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK
PCB-1221	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK
PCB-1232	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK
PCB-1242	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK
PCB-1248	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK

CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/27/2019
		ALS JOB#:	EV19110097
		ALS SAMPLE#:	EV19110097-02
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/13/2019
CLIENT PROJECT:	0377-07	COLLECTION DATE:	11/13/2019 8:50:00 AM
CLIENT SAMPLE ID	B3-12	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
PCB-1254	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK
PCB-1260	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK
PCB-1268	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
2-Fluorophenol 10X Dilution	EPA-8270	80.1	11/27/2019	JMK
2-Fluorophenol	EPA-8270	100	11/27/2019	JMK
Phenol-d5 10X Dilution	EPA-8270	69.1	11/27/2019	JMK
Phenol-d5	EPA-8270	95.5	11/27/2019	JMK
Nitrobenzene-d5 10X Dilution	EPA-8270	55.4	11/27/2019	JMK
Nitrobenzene-d5	EPA-8270	69.9	11/27/2019	JMK
2-Fluorobiphenyl 10X Dilution	EPA-8270	78.6	11/27/2019	JMK
2-Fluorobiphenyl	EPA-8270	85.7	11/27/2019	JMK
2,4,6-Tribromophenol 10X Dilution	EPA-8270	66.0	11/27/2019	JMK
2,4,6-Tribromophenol	EPA-8270	96.9	11/27/2019	JMK
Terphenyl-d14 10X Dilution	EPA-8270	94.0	11/27/2019	JMK
Terphenyl-d14	EPA-8270	99.4	11/27/2019	JMK
TCMX	EPA-8082	33.0	11/22/2019	JMK
DCB	EPA-8082	32.0	11/22/2019	JMK

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/27/2019
		ALS JOB#:	EV19110097
		ALS SAMPLE#:	EV19110097-03
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/13/2019
CLIENT PROJECT:	0377-07	COLLECTION DATE:	11/13/2019 9:15:00 AM
CLIENT SAMPLE ID	B4-1.5	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Pyridine	EPA-8270	U	200	1	UG/KG	11/27/2019	JMK
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Phenol	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Aniline	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Bis(2-Chloroethyl)Ether	EPA-8270	U	250	1	UG/KG	11/27/2019	JMK
2-Chlorophenol	EPA-8270	U	250	1	UG/KG	11/27/2019	JMK
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
2-Methylphenol	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	250	1	UG/KG	11/27/2019	JMK
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
N-Nitroso-Di-N-Propylamine	EPA-8270	U	250	1	UG/KG	11/27/2019	JMK
Hexachloroethane	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Nitrobenzene	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Isophorone	EPA-8270	U	130	1	UG/KG	11/27/2019	JMK
2-Nitrophenol	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
2,4-Dimethylphenol	EPA-8270	U	120	1	UG/KG	11/27/2019	JMK
Benzoic Acid	EPA-8270	U	1400	1	UG/KG	11/27/2019	JMK
Bis(2-Chloroethoxy)Methane	EPA-8270	U	250	1	UG/KG	11/27/2019	JMK
2,4-Dichlorophenol	EPA-8270	U	500	1	UG/KG	11/27/2019	JMK
1,2,4-Trichlorobenzene	EPA-8270	U	130	1	UG/KG	11/27/2019	JMK
Naphthalene	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
4-Chloroaniline	EPA-8270	U	1100	1	UG/KG	11/27/2019	JMK
2,6-Dichlorophenol	EPA-8270	U	350	1	UG/KG	11/27/2019	JMK
Hexachlorobutadiene	EPA-8270	U	500	1	UG/KG	11/27/2019	JMK
4-Chloro-3-Methylphenol	EPA-8270	U	610	1	UG/KG	11/27/2019	JMK
2-Methylnaphthalene	EPA-8270	U	290	1	UG/KG	11/27/2019	JMK
1-Methylnaphthalene	EPA-8270	U	340	1	UG/KG	11/27/2019	JMK
Hexachlorocyclopentadiene	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
2-Nitroaniline	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Acenaphthylene	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
2,6-Dinitrotoluene	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Acenaphthene	EPA-8270	110	100	1	UG/KG	11/27/2019	JMK



CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/27/2019
		ALS JOB#:	EV19110097
		ALS SAMPLE#:	EV19110097-03
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/13/2019
CLIENT PROJECT:	0377-07	COLLECTION DATE:	11/13/2019 9:15:00 AM
CLIENT SAMPLE ID	B4-1.5	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
3-Nitroaniline	EPA-8270	U	1100	1	UG/KG	11/27/2019	JMK
2,4-Dinitrophenol	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
4-Nitrophenol	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Dibenzofuran	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
2,4-Dinitrotoluene	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
2,3,4,6-Tetrachlorophenol	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Diethylphthalate	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Fluorene	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	11/27/2019	JMK
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Azobenzene	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	11/27/2019	JMK
Phenanthrene	EPA-8270	230	100	1	UG/KG	11/27/2019	JMK
Anthracene	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Carbazole	EPA-8270	U	250	1	UG/KG	11/27/2019	JMK
Di-N-Butylphthalate	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Fluoranthene	EPA-8270	810	100	1	UG/KG	11/27/2019	JMK
Pyrene	EPA-8270	1100	100	1	UG/KG	11/27/2019	JMK
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
3,3-Dichlorobenzidine	EPA-8270	U	320	1	UG/KG	11/27/2019	JMK
Benzo[A]Anthracene	EPA-8270	1200	100	1	UG/KG	11/27/2019	JMK
Chrysene	EPA-8270	1700	100	1	UG/KG	11/27/2019	JMK
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	11/27/2019	JMK
Benzo[B]Fluoranthene	EPA-8270	4000	100	1	UG/KG	11/27/2019	JMK
Benzo[K]Fluoranthene	EPA-8270	1400	100	1	UG/KG	11/27/2019	JMK
Benzo[A]Pyrene	EPA-8270	2600	100	1	UG/KG	11/27/2019	JMK
Indeno[1,2,3-Cd]Pyrene	EPA-8270	2300	100	1	UG/KG	11/27/2019	JMK
Dibenz[A,H]Anthracene	EPA-8270	920	100	1	UG/KG	11/27/2019	JMK
Benzo[G,H,I]Perylene	EPA-8270	2500	100	1	UG/KG	11/27/2019	JMK
PCB-1016	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK
PCB-1221	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK
PCB-1232	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK
PCB-1242	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK
PCB-1248	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK

CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/27/2019
		ALS JOB#:	EV19110097
		ALS SAMPLE#:	EV19110097-03
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/13/2019
CLIENT PROJECT:	0377-07	COLLECTION DATE:	11/13/2019 9:15:00 AM
CLIENT SAMPLE ID	B4-1.5	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
PCB-1254	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK
PCB-1260	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK
PCB-1268	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
2-Fluorophenol	EPA-8270	100	11/27/2019	JMK
Phenol-d5	EPA-8270	96.2	11/27/2019	JMK
Nitrobenzene-d5	EPA-8270	73.2	11/27/2019	JMK
2-Fluorobiphenyl	EPA-8270	86.8	11/27/2019	JMK
2,4,6-Tribromophenol	EPA-8270	93.7	11/27/2019	JMK
Terphenyl-d14	EPA-8270	100	11/27/2019	JMK
TCMX	EPA-8082	60.2	11/22/2019	JMK
DCB	EPA-8082	55.3	11/22/2019	JMK

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/27/2019
		ALS JOB#:	EV19110097
		ALS SAMPLE#:	EV19110097-04
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/13/2019
CLIENT PROJECT:	0377-07	COLLECTION DATE:	11/13/2019 9:25:00 AM
CLIENT SAMPLE ID	B4-10	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	U	0.020	1	MG/KG	11/15/2019	RAL
Arsenic	EPA-6020	12	0.20	1	MG/KG	11/18/2019	RAL
Cadmium	EPA-6020	0.11	0.10	1	MG/KG	11/18/2019	RAL
Chromium	EPA-6020	53	0.10	1	MG/KG	11/18/2019	RAL
Lead	EPA-6020	28	0.10	1	MG/KG	11/18/2019	RAL

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/27/2019
		ALS JOB#:	EV19110097
		ALS SAMPLE#:	EV19110097-05
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/13/2019
CLIENT PROJECT:	0377-07	COLLECTION DATE:	11/13/2019 10:00:00 AM
CLIENT SAMPLE ID	B5-10	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	U	0.020	1	MG/KG	11/15/2019	RAL
Arsenic	EPA-6020	3.8	0.20	1	MG/KG	11/18/2019	RAL
Cadmium	EPA-6020	U	0.10	1	MG/KG	11/18/2019	RAL
Chromium	EPA-6020	29	0.10	1	MG/KG	11/18/2019	RAL
Lead	EPA-6020	2.8	0.10	1	MG/KG	11/18/2019	RAL

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/27/2019
		ALS JOB#:	EV19110097
		ALS SAMPLE#:	EV19110097-06
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/13/2019
CLIENT PROJECT:	0377-07	COLLECTION DATE:	11/13/2019 9:25:00 AM
CLIENT SAMPLE ID	B4-18	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	25	1	MG/KG	11/15/2019	EBS
TPH-Oil Range	NWTPH-DX	U	50	1	MG/KG	11/15/2019	EBS

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX	94.9	11/15/2019	EBS

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc.	DATE:	11/27/2019
	PO Box 153	ALS JOB#:	EV19110097
	Fox Island, WA 98333	ALS SAMPLE#:	EV19110097-07
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/13/2019
CLIENT PROJECT:	0377-07	COLLECTION DATE:	11/13/2019 10:40:00 AM
CLIENT SAMPLE ID	B6-5	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Chloromethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Bromomethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Chloroethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Acetone	EPA-8260	U	50	1	UG/KG	11/14/2019	CCN
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Methylene Chloride	EPA-8260	U	20	1	UG/KG	11/14/2019	CCN
Acrylonitrile	EPA-8260	U	50	1	UG/KG	11/14/2019	CCN
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
2-Butanone	EPA-8260	U	50	1	UG/KG	11/14/2019	CCN
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Bromochloromethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Chloroform	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Benzene	EPA-8260	U	5.0	1	UG/KG	11/14/2019	CCN
Trichloroethene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Dibromomethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	11/14/2019	CCN
Toluene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
2-Hexanone	EPA-8260	U	50	1	UG/KG	11/14/2019	CCN
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	11/14/2019	CCN
Chlorobenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN



CERTIFICATE OF ANALYSIS

CLIENT: EcoCon, Inc.
PO Box 153
Fox Island, WA 98333
DATE: 11/27/2019
ALS JOB#: EV19110097
ALS SAMPLE#: EV19110097-07
CLIENT CONTACT: Stephanie Holt
DATE RECEIVED: 11/13/2019
CLIENT PROJECT: 0377-07
COLLECTION DATE: 11/13/2019 10:40:00 AM
CLIENT SAMPLE ID: B6-5
WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Ethylbenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
m,p-Xylene	EPA-8260	U	20	1	UG/KG	11/14/2019	CCN
Styrene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
o-Xylene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Bromoform	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Bromobenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,3-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	11/14/2019	CCN
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Naphthalene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Pyridine	EPA-8270	U	200	1	UG/KG	11/26/2019	JMK
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Phenol	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Aniline	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Bis(2-Chloroethyl)Ether	EPA-8270	U	250	1	UG/KG	11/26/2019	JMK
2-Chlorophenol	EPA-8270	U	250	1	UG/KG	11/26/2019	JMK
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
2-Methylphenol	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	250	1	UG/KG	11/26/2019	JMK



CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/27/2019
		ALS JOB#:	EV19110097
		ALS SAMPLE#:	EV19110097-07
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/13/2019
CLIENT PROJECT:	0377-07	COLLECTION DATE:	11/13/2019 10:40:00 AM
CLIENT SAMPLE ID	B6-5	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
N-Nitroso-Di-N-Propylamine	EPA-8270	U	250	1	UG/KG	11/26/2019	JMK
Hexachloroethane	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Nitrobenzene	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Isophorone	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
2-Nitrophenol	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	11/26/2019	JMK
Bis(2-Chloroethoxy)Methane	EPA-8270	U	250	1	UG/KG	11/26/2019	JMK
2,4-Dichlorophenol	EPA-8270	U	500	1	UG/KG	11/26/2019	JMK
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Naphthalene	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
4-Chloroaniline	EPA-8270	U	1000	1	UG/KG	11/26/2019	JMK
2,6-Dichlorophenol	EPA-8270	U	260	1	UG/KG	11/26/2019	JMK
Hexachlorobutadiene	EPA-8270	U	500	1	UG/KG	11/26/2019	JMK
4-Chloro-3-Methylphenol	EPA-8270	U	500	1	UG/KG	11/26/2019	JMK
2-Methylnaphthalene	EPA-8270	U	250	1	UG/KG	11/26/2019	JMK
1-Methylnaphthalene	EPA-8270	U	250	1	UG/KG	11/26/2019	JMK
Hexachlorocyclopentadiene	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
2-Nitroaniline	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Acenaphthylene	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
2,6-Dinitrotoluene	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Acenaphthene	EPA-8270	320	100	1	UG/KG	11/26/2019	JMK
3-Nitroaniline	EPA-8270	U	1000	1	UG/KG	11/26/2019	JMK
2,4-Dinitrophenol	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
4-Nitrophenol	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Dibenzofuran	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
2,4-Dinitrotoluene	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
2,3,4,6-Tetrachlorophenol	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Diethylphthalate	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Fluorene	EPA-8270	100	100	1	UG/KG	11/26/2019	JMK
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	11/26/2019	JMK
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK



CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/27/2019
CLIENT CONTACT:	Stephanie Holt	ALS JOB#:	EV19110097
CLIENT PROJECT:	0377-07	ALS SAMPLE#:	EV19110097-07
CLIENT SAMPLE ID	B6-5	DATE RECEIVED:	11/13/2019
		COLLECTION DATE:	11/13/2019 10:40:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Azobenzene	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	11/26/2019	JMK
Phenanthrene	EPA-8270	2400	100	1	UG/KG	11/26/2019	JMK
Anthracene	EPA-8270	340	100	1	UG/KG	11/26/2019	JMK
Carbazole	EPA-8270	430	250	1	UG/KG	11/26/2019	JMK
Di-N-Butylphthalate	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Fluoranthene	EPA-8270	4800	1000	10	UG/KG	11/26/2019	JMK
Pyrene	EPA-8270	5600	1000	10	UG/KG	11/26/2019	JMK
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	11/26/2019	JMK
Benzo[A]Anthracene	EPA-8270	4000	1000	10	UG/KG	11/26/2019	JMK
Chrysene	EPA-8270	6100	1000	10	UG/KG	11/26/2019	JMK
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Benzo[B]Fluoranthene	EPA-8270	13000	1000	10	UG/KG	11/26/2019	JMK
Benzo[K]Fluoranthene	EPA-8270	3700	100	1	UG/KG	11/26/2019	JMK
Benzo[A]Pyrene	EPA-8270	7900	1000	10	UG/KG	11/26/2019	JMK
Indeno[1,2,3-Cd]Pyrene	EPA-8270	8600	1000	10	UG/KG	11/26/2019	JMK
Dibenz[A,H]Anthracene	EPA-8270	2900	100	1	UG/KG	11/26/2019	JMK
Benzo[G,H,I]Perylene	EPA-8270	11000	1000	10	UG/KG	11/26/2019	JMK
PCB-1016	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK
PCB-1221	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK
PCB-1232	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK
PCB-1242	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK
PCB-1248	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK
PCB-1254	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK
PCB-1260	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK
PCB-1268	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	106	11/14/2019	CCN
Toluene-d8	EPA-8260	135 SQ1	11/14/2019	CCN
4-Bromofluorobenzene	EPA-8260	125 SQ1	11/14/2019	CCN
2-Fluorophenol 10X Dilution	EPA-8270	91.6	11/26/2019	JMK
2-Fluorophenol	EPA-8270	112	11/26/2019	JMK
Phenol-d5 10X Dilution	EPA-8270	80.3	11/26/2019	JMK

CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/27/2019
		ALS JOB#:	EV19110097
CLIENT CONTACT:	Stephanie Holt	ALS SAMPLE#:	EV19110097-07
CLIENT PROJECT:	0377-07	DATE RECEIVED:	11/13/2019
CLIENT SAMPLE ID	B6-5	COLLECTION DATE:	11/13/2019 10:40:00 AM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
Phenol-d5	EPA-8270	110	11/26/2019	JMK
Nitrobenzene-d5 10X Dilution	EPA-8270	59.5	11/26/2019	JMK
Nitrobenzene-d5	EPA-8270	78.2	11/26/2019	JMK
2-Fluorobiphenyl 10X Dilution	EPA-8270	90.9	11/26/2019	JMK
2-Fluorobiphenyl	EPA-8270	100	11/26/2019	JMK
2,4,6-Tribromophenol 10X Dilution	EPA-8270	87.5	11/26/2019	JMK
2,4,6-Tribromophenol	EPA-8270	109	11/26/2019	JMK
Terphenyl-d14 10X Dilution	EPA-8270	97.7	11/26/2019	JMK
Terphenyl-d14	EPA-8270	99.6	11/26/2019	JMK
TCMX	EPA-8082	56.6	11/22/2019	JMK
DCB	EPA-8082	58.3	11/22/2019	JMK

U - Analyte analyzed for but not detected at level above reporting limit.

SQ1 - Spike outside of control limits with a high bias. Associated compounds non-detect. No corrective action taken.

CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/27/2019
		ALS JOB#:	EV19110097
		ALS SAMPLE#:	EV19110097-08
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/13/2019
CLIENT PROJECT:	0377-07	COLLECTION DATE:	11/13/2019 10:40:00 AM
CLIENT SAMPLE ID	B6-7	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	0.028	0.020	1	MG/KG	11/15/2019	RAL
Arsenic	EPA-6020	3.3	0.20	1	MG/KG	11/18/2019	RAL
Cadmium	EPA-6020	0.16	0.10	1	MG/KG	11/18/2019	RAL
Chromium	EPA-6020	13	0.10	1	MG/KG	11/18/2019	RAL
Lead	EPA-6020	27	0.10	1	MG/KG	11/18/2019	RAL

CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/27/2019
		ALS JOB#:	EV19110097
		ALS SAMPLE#:	EV19110097-09
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/13/2019
CLIENT PROJECT:	0377-07	COLLECTION DATE:	11/13/2019 11:30:00 AM
CLIENT SAMPLE ID	B7-1	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	U	0.020	1	MG/KG	11/15/2019	RAL
Arsenic	EPA-6020	4.7	0.20	1	MG/KG	11/18/2019	RAL
Cadmium	EPA-6020	0.23	0.10	1	MG/KG	11/18/2019	RAL
Chromium	EPA-6020	18	0.10	1	MG/KG	11/18/2019	RAL
Lead	EPA-6020	27	0.10	1	MG/KG	11/18/2019	RAL

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc.	DATE:	11/27/2019
	PO Box 153	ALS JOB#:	EV19110097
	Fox Island, WA 98333	ALS SAMPLE#:	EV19110097-10
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/13/2019
CLIENT PROJECT:	0377-07	COLLECTION DATE:	11/13/2019 11:30:00 AM
CLIENT SAMPLE ID	B7-8	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Chloromethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Bromomethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Chloroethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Acetone	EPA-8260	U	50	1	UG/KG	11/14/2019	CCN
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Methylene Chloride	EPA-8260	U	20	1	UG/KG	11/14/2019	CCN
Acrylonitrile	EPA-8260	U	50	1	UG/KG	11/14/2019	CCN
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
2-Butanone	EPA-8260	U	50	1	UG/KG	11/14/2019	CCN
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Bromochloromethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Chloroform	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Benzene	EPA-8260	U	5.0	1	UG/KG	11/14/2019	CCN
Trichloroethene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Dibromomethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	11/14/2019	CCN
Toluene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
2-Hexanone	EPA-8260	U	50	1	UG/KG	11/14/2019	CCN
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	11/14/2019	CCN
Chlorobenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN



CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/27/2019
		ALS JOB#:	EV19110097
		ALS SAMPLE#:	EV19110097-10
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/13/2019
CLIENT PROJECT:	0377-07	COLLECTION DATE:	11/13/2019 11:30:00 AM
CLIENT SAMPLE ID	B7-8	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Ethylbenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
m,p-Xylene	EPA-8260	U	20	1	UG/KG	11/14/2019	CCN
Styrene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
o-Xylene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Bromoform	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Bromobenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,3-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	11/14/2019	CCN
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Naphthalene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	99.3	11/14/2019	CCN
Toluene-d8	EPA-8260	108	11/14/2019	CCN
4-Bromofluorobenzene	EPA-8260	131 SQ1	11/14/2019	CCN

U - Analyte analyzed for but not detected at level above reporting limit.

SQ1 - Spike outside of control limits with a high bias. Associated compounds non-detect. No corrective action taken.

CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/27/2019
		ALS JOB#:	EV19110097
		ALS SAMPLE#:	EV19110097-12
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/13/2019
CLIENT PROJECT:	0377-07	COLLECTION DATE:	11/13/2019 12:15:00 PM
CLIENT SAMPLE ID	B8-4.5	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	U	0.020	1	MG/KG	11/15/2019	RAL
Arsenic	EPA-6020	3.3	0.20	1	MG/KG	11/18/2019	RAL
Cadmium	EPA-6020	0.76	0.10	1	MG/KG	11/18/2019	RAL
Chromium	EPA-6020	26	0.10	1	MG/KG	11/18/2019	RAL
Lead	EPA-6020	70	0.10	1	MG/KG	11/18/2019	RAL

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/27/2019
		ALS JOB#:	EV19110097
		ALS SAMPLE#:	EV19110097-13
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/13/2019
CLIENT PROJECT:	0377-07	COLLECTION DATE:	11/13/2019 12:50:00 PM
CLIENT SAMPLE ID	B9-4	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	0.21	0.020	1	MG/KG	11/15/2019	RAL
Arsenic	EPA-6020	8.8	0.20	1	MG/KG	11/18/2019	RAL
Cadmium	EPA-6020	0.28	0.10	1	MG/KG	11/18/2019	RAL
Chromium	EPA-6020	11	0.10	1	MG/KG	11/18/2019	RAL
Lead	EPA-6020	51	0.10	1	MG/KG	11/18/2019	RAL



CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc.	DATE:	11/27/2019
	PO Box 153	ALS JOB#:	EV19110097
	Fox Island, WA 98333	ALS SAMPLE#:	EV19110097-14
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/13/2019
CLIENT PROJECT:	0377-07	COLLECTION DATE:	11/13/2019 3:25:00 PM
CLIENT SAMPLE ID	B10-10	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Chloromethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Vinyl Chloride	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Bromomethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Chloroethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Carbon Tetrachloride	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Trichlorofluoromethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Carbon Disulfide	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Acetone	EPA-8260	U	50	1	UG/KG	11/14/2019	CCN
1,1-Dichloroethene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Methylene Chloride	EPA-8260	U	20	1	UG/KG	11/14/2019	CCN
Acrylonitrile	EPA-8260	U	50	1	UG/KG	11/14/2019	CCN
Methyl T-Butyl Ether	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Trans-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,1-Dichloroethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
2-Butanone	EPA-8260	U	50	1	UG/KG	11/14/2019	CCN
Cis-1,2-Dichloroethene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
2,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Bromochloromethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Chloroform	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,1,1-Trichloroethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,1-Dichloropropene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,2-Dichloroethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Benzene	EPA-8260	U	5.0	1	UG/KG	11/14/2019	CCN
Trichloroethene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,2-Dichloropropane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Dibromomethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Bromodichloromethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Trans-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
4-Methyl-2-Pentanone	EPA-8260	U	50	1	UG/KG	11/14/2019	CCN
Toluene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Cis-1,3-Dichloropropene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,1,2-Trichloroethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
2-Hexanone	EPA-8260	U	50	1	UG/KG	11/14/2019	CCN
1,3-Dichloropropane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Tetrachloroethylene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Dibromochloromethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,2-Dibromoethane	EPA-8260	U	5.0	1	UG/KG	11/14/2019	CCN
Chlorobenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN



CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/27/2019
		ALS JOB#:	EV19110097
		ALS SAMPLE#:	EV19110097-14
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/13/2019
CLIENT PROJECT:	0377-07	COLLECTION DATE:	11/13/2019 3:25:00 PM
CLIENT SAMPLE ID	B10-10	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
1,1,1,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Ethylbenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
m,p-Xylene	EPA-8260	U	20	1	UG/KG	11/14/2019	CCN
Styrene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
o-Xylene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Bromoform	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Isopropylbenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,2,3-Trichloropropane	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Bromobenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
N-Propyl Benzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
2-Chlorotoluene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,3,5-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
4-Chlorotoluene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
T-Butyl Benzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,2,4-Trimethylbenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
S-Butyl Benzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
P-Isopropyltoluene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,3-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,4-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
N-Butylbenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,2-Dichlorobenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	U	50	1	UG/KG	11/14/2019	CCN
1,2,4-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Hexachlorobutadiene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Naphthalene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
1,2,3-Trichlorobenzene	EPA-8260	U	10	1	UG/KG	11/14/2019	CCN
Pyridine	EPA-8270	U	200	1	UG/KG	11/26/2019	JMK
N-Nitrosodimethylamine	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Phenol	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Aniline	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Bis(2-Chloroethyl)Ether	EPA-8270	U	250	1	UG/KG	11/26/2019	JMK
2-Chlorophenol	EPA-8270	U	250	1	UG/KG	11/26/2019	JMK
1,3-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
1,4-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Benzyl Alcohol	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
1,2-Dichlorobenzene	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
2-Methylphenol	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	250	1	UG/KG	11/26/2019	JMK



CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/27/2019
		ALS JOB#:	EV19110097
		ALS SAMPLE#:	EV19110097-14
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/13/2019
CLIENT PROJECT:	0377-07	COLLECTION DATE:	11/13/2019 3:25:00 PM
CLIENT SAMPLE ID	B10-10	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
3&4-Methylphenol	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
N-Nitroso-Di-N-Propylamine	EPA-8270	U	250	1	UG/KG	11/26/2019	JMK
Hexachloroethane	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Nitrobenzene	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Isophorone	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
2-Nitrophenol	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
2,4-Dimethylphenol	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Benzoic Acid	EPA-8270	U	1000	1	UG/KG	11/26/2019	JMK
Bis(2-Chloroethoxy)Methane	EPA-8270	U	250	1	UG/KG	11/26/2019	JMK
2,4-Dichlorophenol	EPA-8270	U	500	1	UG/KG	11/26/2019	JMK
1,2,4-Trichlorobenzene	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Naphthalene	EPA-8270	170	100	1	UG/KG	11/26/2019	JMK
4-Chloroaniline	EPA-8270	U	1000	1	UG/KG	11/26/2019	JMK
2,6-Dichlorophenol	EPA-8270	U	250	1	UG/KG	11/26/2019	JMK
Hexachlorobutadiene	EPA-8270	U	500	1	UG/KG	11/26/2019	JMK
4-Chloro-3-Methylphenol	EPA-8270	U	500	1	UG/KG	11/26/2019	JMK
2-Methylnaphthalene	EPA-8270	U	250	1	UG/KG	11/26/2019	JMK
1-Methylnaphthalene	EPA-8270	U	250	1	UG/KG	11/26/2019	JMK
Hexachlorocyclopentadiene	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
2,4,6-Trichlorophenol	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
2,4,5-Trichlorophenol	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
2-Chloronaphthalene	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
2-Nitroaniline	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Acenaphthylene	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Dimethylphthalate	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
2,6-Dinitrotoluene	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Acenaphthene	EPA-8270	170	100	1	UG/KG	11/26/2019	JMK
3-Nitroaniline	EPA-8270	U	1000	1	UG/KG	11/26/2019	JMK
2,4-Dinitrophenol	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
4-Nitrophenol	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Dibenzofuran	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
2,4-Dinitrotoluene	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
2,3,4,6-Tetrachlorophenol	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Diethylphthalate	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Fluorene	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
4-Chlorophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
4-Nitroaniline	EPA-8270	U	250	1	UG/KG	11/26/2019	JMK
4,6-Dinitro-2-Methylphenol	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
N-Nitrosodiphenylamine	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK



CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/27/2019
		ALS JOB#:	EV19110097
		ALS SAMPLE#:	EV19110097-14
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/13/2019
CLIENT PROJECT:	0377-07	COLLECTION DATE:	11/13/2019 3:25:00 PM
CLIENT SAMPLE ID	B10-10	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Azobenzene	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
4-Bromophenyl-Phenylether	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Hexachlorobenzene	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Pentachlorophenol	EPA-8270	U	500	1	UG/KG	11/26/2019	JMK
Phenanthrene	EPA-8270	1100	100	1	UG/KG	11/26/2019	JMK
Anthracene	EPA-8270	190	100	1	UG/KG	11/26/2019	JMK
Carbazole	EPA-8270	U	250	1	UG/KG	11/26/2019	JMK
Di-N-Butylphthalate	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Fluoranthene	EPA-8270	3800	1000	10	UG/KG	11/26/2019	JMK
Pyrene	EPA-8270	4700	1000	10	UG/KG	11/26/2019	JMK
Butylbenzylphthalate	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
3,3-Dichlorobenzidine	EPA-8270	U	250	1	UG/KG	11/26/2019	JMK
Benzo[A]Anthracene	EPA-8270	3900	1000	10	UG/KG	11/26/2019	JMK
Chrysene	EPA-8270	5600	1000	10	UG/KG	11/26/2019	JMK
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Di-N-Octylphthalate	EPA-8270	U	100	1	UG/KG	11/26/2019	JMK
Benzo[B]Fluoranthene	EPA-8270	8100	1000	10	UG/KG	11/26/2019	JMK
Benzo[K]Fluoranthene	EPA-8270	2800	100	1	UG/KG	11/26/2019	JMK
Benzo[A]Pyrene	EPA-8270	6600	1000	10	UG/KG	11/26/2019	JMK
Indeno[1,2,3-Cd]Pyrene	EPA-8270	6600	1000	10	UG/KG	11/26/2019	JMK
Dibenz[A,H]Anthracene	EPA-8270	2800	100	1	UG/KG	11/26/2019	JMK
Benzo[G,H,I]Perylene	EPA-8270	8100	1000	10	UG/KG	11/26/2019	JMK
PCB-1016	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK
PCB-1221	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK
PCB-1232	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK
PCB-1242	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK
PCB-1248	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK
PCB-1254	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK
PCB-1260	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK
PCB-1268	EPA-8082	U	0.10	1	MG/KG	11/22/2019	JMK
Mercury	EPA-7471	U	0.020	1	MG/KG	11/15/2019	RAL
Arsenic	EPA-6020	2.8	0.20	1	MG/KG	11/18/2019	RAL
Cadmium	EPA-6020	0.29	0.10	1	MG/KG	11/18/2019	RAL
Chromium	EPA-6020	26	0.10	1	MG/KG	11/18/2019	RAL
Lead	EPA-6020	25	0.10	1	MG/KG	11/18/2019	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
1,2-Dichloroethane-d4	EPA-8260	109	11/14/2019	CCN



CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/27/2019
CLIENT CONTACT:	Stephanie Holt	ALS JOB#:	EV19110097
CLIENT PROJECT:	0377-07	ALS SAMPLE#:	EV19110097-14
CLIENT SAMPLE ID	B10-10	DATE RECEIVED:	11/13/2019
		COLLECTION DATE:	11/13/2019 3:25:00 PM
		WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

SURROGATE	METHOD	%REC	ANALYSIS	ANALYSIS
			DATE	BY
Toluene-d8	EPA-8260	104	11/14/2019	CCN
4-Bromofluorobenzene	EPA-8260	116	11/14/2019	CCN
2-Fluorophenol 10X Dilution	EPA-8270	60.7	11/26/2019	JMK
2-Fluorophenol	EPA-8270	106	11/26/2019	JMK
Phenol-d5 10X Dilution	EPA-8270	77.9	11/26/2019	JMK
Phenol-d5	EPA-8270	106	11/26/2019	JMK
Nitrobenzene-d5 10X Dilution	EPA-8270	59.8	11/26/2019	JMK
Nitrobenzene-d5	EPA-8270	76.5	11/26/2019	JMK
2-Fluorobiphenyl 10X Dilution	EPA-8270	87.6	11/26/2019	JMK
2-Fluorobiphenyl	EPA-8270	99.1	11/26/2019	JMK
2,4,6-Tribromophenol 10X Dilution	EPA-8270	79.5	11/26/2019	JMK
2,4,6-Tribromophenol	EPA-8270	103	11/26/2019	JMK
Terphenyl-d14 10X Dilution	EPA-8270	96.1	11/26/2019	JMK
Terphenyl-d14	EPA-8270	98.2	11/26/2019	JMK
TCMX	EPA-8082	63.5	11/22/2019	JMK
DCB	EPA-8082	93.2	11/22/2019	JMK

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/27/2019
		ALS JOB#:	EV19110097
		ALS SAMPLE#:	EV19110097-15
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/13/2019
CLIENT PROJECT:	0377-07	COLLECTION DATE:	11/13/2019 3:40:00 PM
CLIENT SAMPLE ID	B11-5	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	0.023	0.020	1	MG/KG	11/15/2019	RAL
Arsenic	EPA-6020	3.5	0.20	1	MG/KG	11/18/2019	RAL
Cadmium	EPA-6020	0.34	0.10	1	MG/KG	11/18/2019	RAL
Chromium	EPA-6020	43	0.10	1	MG/KG	11/18/2019	RAL
Lead	EPA-6020	56	0.10	1	MG/KG	11/18/2019	RAL



CERTIFICATE OF ANALYSIS

CLIENT: EcoCon, Inc.
 PO Box 153
 Fox Island, WA 98333

CLIENT CONTACT: Stephanie Holt
 CLIENT PROJECT: 0377-07

DATE: 11/27/2019
 ALS SDG#: EV19110097
 WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-111419S2 - Batch 147618 - Soil by NWTPH-DX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	MG/KG	25	11/15/2019	EBS
TPH-Oil Range	NWTPH-DX	U	MG/KG	50	11/15/2019	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

MB-111419S - Batch 147619 - Soil by EPA-8260

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Dichlorodifluoromethane	EPA-8260	U	UG/KG	10	11/14/2019	CCN
Chloromethane	EPA-8260	U	UG/KG	10	11/14/2019	CCN
Vinyl Chloride	EPA-8260	U	UG/KG	10	11/14/2019	CCN
Bromomethane	EPA-8260	U	UG/KG	10	11/14/2019	CCN
Chloroethane	EPA-8260	U	UG/KG	10	11/14/2019	CCN
Carbon Tetrachloride	EPA-8260	U	UG/KG	10	11/14/2019	CCN
Trichlorofluoromethane	EPA-8260	U	UG/KG	10	11/14/2019	CCN
Carbon Disulfide	EPA-8260	U	UG/KG	10	11/14/2019	CCN
Acetone	EPA-8260	U	UG/KG	50	11/14/2019	CCN
1,1-Dichloroethene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
Methylene Chloride	EPA-8260	U	UG/KG	20	11/14/2019	CCN
Acrylonitrile	EPA-8260	U	UG/KG	50	11/14/2019	CCN
Methyl T-Butyl Ether	EPA-8260	U	UG/KG	10	11/14/2019	CCN
Trans-1,2-Dichloroethene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
1,1-Dichloroethane	EPA-8260	U	UG/KG	10	11/14/2019	CCN
2-Butanone	EPA-8260	U	UG/KG	50	11/14/2019	CCN
Cis-1,2-Dichloroethene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
2,2-Dichloropropane	EPA-8260	U	UG/KG	10	11/14/2019	CCN
Bromochloromethane	EPA-8260	U	UG/KG	10	11/14/2019	CCN
Chloroform	EPA-8260	U	UG/KG	10	11/14/2019	CCN
1,1,1-Trichloroethane	EPA-8260	U	UG/KG	10	11/14/2019	CCN
1,1-Dichloropropene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
1,2-Dichloroethane	EPA-8260	U	UG/KG	10	11/14/2019	CCN
Benzene	EPA-8260	U	UG/KG	5.0	11/14/2019	CCN
Trichloroethene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
1,2-Dichloropropane	EPA-8260	U	UG/KG	10	11/14/2019	CCN
Dibromomethane	EPA-8260	U	UG/KG	10	11/14/2019	CCN
Bromodichloromethane	EPA-8260	U	UG/KG	10	11/14/2019	CCN
Trans-1,3-Dichloropropene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
4-Methyl-2-Pentanone	EPA-8260	U	UG/KG	50	11/14/2019	CCN
Toluene	EPA-8260	U	UG/KG	10	11/14/2019	CCN



CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/27/2019
		ALS SDG#:	EV19110097
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Stephanie Holt		
CLIENT PROJECT:	0377-07		

LABORATORY BLANK RESULTS

MB-111419S - Batch 147619 - Soil by EPA-8260

Cis-1,3-Dichloropropene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
1,1,2-Trichloroethane	EPA-8260	U	UG/KG	10	11/14/2019	CCN
2-Hexanone	EPA-8260	U	UG/KG	50	11/14/2019	CCN
1,3-Dichloropropane	EPA-8260	U	UG/KG	10	11/14/2019	CCN
Tetrachloroethylene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
Dibromochloromethane	EPA-8260	U	UG/KG	10	11/14/2019	CCN
1,2-Dibromoethane	EPA-8260	U	UG/KG	5.0	11/14/2019	CCN
Chlorobenzene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
1,1,1,2-Tetrachloroethane	EPA-8260	U	UG/KG	10	11/14/2019	CCN
Ethylbenzene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
m,p-Xylene	EPA-8260	U	UG/KG	20	11/14/2019	CCN
Styrene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
o-Xylene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
Bromoform	EPA-8260	U	UG/KG	10	11/14/2019	CCN
Isopropylbenzene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
1,1,2,2-Tetrachloroethane	EPA-8260	U	UG/KG	10	11/14/2019	CCN
1,2,3-Trichloropropane	EPA-8260	U	UG/KG	10	11/14/2019	CCN
Bromobenzene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
N-Propyl Benzene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
2-Chlorotoluene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
1,3,5-Trimethylbenzene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
4-Chlorotoluene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
T-Butyl Benzene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
1,2,4-Trimethylbenzene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
S-Butyl Benzene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
P-Isopropyltoluene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
1,3-Dichlorobenzene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
1,4-Dichlorobenzene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
N-Butylbenzene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
1,2-Dichlorobenzene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
1,2-Dibromo 3-Chloropropane	EPA-8260	U	UG/KG	50	11/14/2019	CCN
1,2,4-Trichlorobenzene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
Hexachlorobutadiene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
Naphthalene	EPA-8260	U	UG/KG	10	11/14/2019	CCN
1,2,3-Trichlorobenzene	EPA-8260	U	UG/KG	10	11/14/2019	CCN

U - Analyte analyzed for but not detected at level above reporting limit.

MB-111819S - Batch 147710 - Soil by EPA-8270

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Pyridine	EPA-8270	U	UG/KG	200	11/19/2019	JMK

Page 30

ADDRESS 8620 Holly Drive, Suite 100, Everett, WA 9820 | PHONE 425-356-2600 | FAX 425-356-2626

ALS Group USA, Corp dba ALS Environmental



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RIGHT SOLUTIONS RIGHT PARTNER



CERTIFICATE OF ANALYSIS

CLIENT: EcoCon, Inc.
PO Box 153
Fox Island, WA 98333
CLIENT CONTACT: Stephanie Holt
CLIENT PROJECT: 0377-07

DATE: 11/27/2019
ALS SDG#: EV19110097
WDOE ACCREDITATION: C601

LABORATORY BLANK RESULTS

MB-111819S - Batch 147710 - Soil by EPA-8270

N-Nitrosodimethylamine	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Phenol	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Aniline	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Bis(2-Chloroethyl)Ether	EPA-8270	U	UG/KG	250	11/19/2019	JMK
2-Chlorophenol	EPA-8270	U	UG/KG	250	11/19/2019	JMK
1,3-Dichlorobenzene	EPA-8270	U	UG/KG	100	11/19/2019	JMK
1,4-Dichlorobenzene	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Benzyl Alcohol	EPA-8270	U	UG/KG	100	11/19/2019	JMK
1,2-Dichlorobenzene	EPA-8270	U	UG/KG	100	11/19/2019	JMK
2-Methylphenol	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Bis(2-Chloroisopropyl)Ether	EPA-8270	U	UG/KG	250	11/19/2019	JMK
3&4-Methylphenol	EPA-8270	U	UG/KG	100	11/19/2019	JMK
N-Nitroso-Di-N-Propylamine	EPA-8270	U	UG/KG	250	11/19/2019	JMK
Hexachloroethane	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Nitrobenzene	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Isophorone	EPA-8270	U	UG/KG	100	11/19/2019	JMK
2-Nitrophenol	EPA-8270	U	UG/KG	100	11/19/2019	JMK
2,4-Dimethylphenol	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Benzoic Acid	EPA-8270	U	UG/KG	1000	11/19/2019	JMK
Bis(2-Chloroethoxy)Methane	EPA-8270	U	UG/KG	250	11/19/2019	JMK
2,4-Dichlorophenol	EPA-8270	U	UG/KG	500	11/19/2019	JMK
1,2,4-Trichlorobenzene	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Naphthalene	EPA-8270	U	UG/KG	100	11/19/2019	JMK
4-Chloroaniline	EPA-8270	U	UG/KG	1000	11/19/2019	JMK
2,6-Dichlorophenol	EPA-8270	U	UG/KG	250	11/19/2019	JMK
Hexachlorobutadiene	EPA-8270	U	UG/KG	500	11/19/2019	JMK
4-Chloro-3-Methylphenol	EPA-8270	U	UG/KG	500	11/19/2019	JMK
2-Methylnaphthalene	EPA-8270	U	UG/KG	250	11/19/2019	JMK
1-Methylnaphthalene	EPA-8270	U	UG/KG	250	11/19/2019	JMK
Hexachlorocyclopentadiene	EPA-8270	U	UG/KG	100	11/19/2019	JMK
2,4,6-Trichlorophenol	EPA-8270	U	UG/KG	100	11/19/2019	JMK
2,4,5-Trichlorophenol	EPA-8270	U	UG/KG	100	11/19/2019	JMK
2-Chloronaphthalene	EPA-8270	U	UG/KG	100	11/19/2019	JMK
2-Nitroaniline	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Acenaphthylene	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Dimethylphthalate	EPA-8270	U	UG/KG	100	11/19/2019	JMK
2,6-Dinitrotoluene	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Acenaphthene	EPA-8270	U	UG/KG	100	11/19/2019	JMK
3-Nitroaniline	EPA-8270	U	UG/KG	1000	11/19/2019	JMK
2,4-Dinitrophenol	EPA-8270	U	UG/KG	100	11/19/2019	JMK
4-Nitrophenol	EPA-8270	U	UG/KG	100	11/19/2019	JMK



CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/27/2019
		ALS SDG#:	EV19110097
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Stephanie Holt		
CLIENT PROJECT:	0377-07		

LABORATORY BLANK RESULTS

MB-111819S - Batch 147710 - Soil by EPA-8270

Dibenzofuran	EPA-8270	U	UG/KG	100	11/19/2019	JMK
2,4-Dinitrotoluene	EPA-8270	U	UG/KG	100	11/19/2019	JMK
2,3,4,6-Tetrachlorophenol	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Diethylphthalate	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Fluorene	EPA-8270	U	UG/KG	100	11/19/2019	JMK
4-Chlorophenyl-Phenylether	EPA-8270	U	UG/KG	100	11/19/2019	JMK
4-Nitroaniline	EPA-8270	U	UG/KG	250	11/19/2019	JMK
4,6-Dinitro-2-Methylphenol	EPA-8270	U	UG/KG	100	11/19/2019	JMK
N-Nitrosodiphenylamine	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Azobenzene	EPA-8270	U	UG/KG	100	11/19/2019	JMK
4-Bromophenyl-Phenylether	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Hexachlorobenzene	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Pentachlorophenol	EPA-8270	U	UG/KG	500	11/19/2019	JMK
Phenanthrene	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Anthracene	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Carbazole	EPA-8270	U	UG/KG	250	11/19/2019	JMK
Di-N-Butylphthalate	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Fluoranthene	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Pyrene	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Butylbenzylphthalate	EPA-8270	U	UG/KG	100	11/19/2019	JMK
3,3-Dichlorobenzidine	EPA-8270	U	UG/KG	250	11/19/2019	JMK
Benzo[A]Anthracene	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Chrysene	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Bis(2-Ethylhexyl)Phthalate	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Di-N-Octylphthalate	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Benzo[B]Fluoranthene	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Benzo[K]Fluoranthene	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Benzo[A]Pyrene	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Indeno[1,2,3-Cd]Pyrene	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Dibenz[A,H]Anthracene	EPA-8270	U	UG/KG	100	11/19/2019	JMK
Benzo[G,H,I]Perylene	EPA-8270	U	UG/KG	100	11/19/2019	JMK

U - Analyte analyzed for but not detected at level above reporting limit.

MB-112019S - Batch 147844 - Soil by EPA-8082

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
PCB-1016	EPA-8082	U	MG/KG	0.10	11/22/2019	JMK
PCB-1221	EPA-8082	U	MG/KG	0.10	11/22/2019	JMK
PCB-1232	EPA-8082	U	MG/KG	0.10	11/22/2019	JMK
PCB-1242	EPA-8082	U	MG/KG	0.10	11/22/2019	JMK
PCB-1248	EPA-8082	U	MG/KG	0.10	11/22/2019	JMK

CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/27/2019
CLIENT CONTACT:	Stephanie Holt	ALS SDG#:	EV19110097
CLIENT PROJECT:	0377-07	WDOE ACCREDITATION:	C601

LABORATORY BLANK RESULTS
MB-112019S - Batch 147844 - Soil by EPA-8082

PCB-1254	EPA-8082	U	MG/KG	0.10	11/22/2019	JMK
PCB-1260	EPA-8082	U	MG/KG	0.10	11/22/2019	JMK
PCB-1268	EPA-8082	U	MG/KG	0.10	11/22/2019	JMK

U - Analyte analyzed for but not detected at level above reporting limit.

MBLK-R350984 - Batch R350984 - Soil by EPA-7471

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	U	MG/KG	0.020	11/15/2019	RAL

U - Analyte analyzed for but not detected at level above reporting limit.

MB-111519S - Batch 147629 - Soil by EPA-6020

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-6020	U	MG/KG	0.20	11/18/2019	RAL
Cadmium	EPA-6020	U	MG/KG	0.10	11/18/2019	RAL
Chromium	EPA-6020	U	MG/KG	0.10	11/18/2019	RAL
Lead	EPA-6020	U	MG/KG	0.10	11/18/2019	RAL

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/27/2019
		ALS SDG#:	EV19110097
CLIENT CONTACT:	Stephanie Holt	WDOE ACCREDITATION:	C601
CLIENT PROJECT:	0377-07		

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 147618 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Diesel Range - BS	NWTPH-DX	99.3			75.5	122.1	11/15/2019	EBS
TPH-Diesel Range - BSD	NWTPH-DX	95.3	4		75.5	122.1	11/15/2019	EBS

ALS Test Batch ID: 147619 - Soil by EPA-8260

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Dichlorodifluoromethane - BS	EPA-8260	83.8			50	150	11/14/2019	CCN
Dichlorodifluoromethane - BSD	EPA-8260	84.6	1		50	150	11/14/2019	CCN
Chloromethane - BS	EPA-8260	85.4			50	150	11/14/2019	CCN
Chloromethane - BSD	EPA-8260	85.6	0		50	150	11/14/2019	CCN
Vinyl Chloride - BS	EPA-8260	145			50	150	11/14/2019	CCN
Vinyl Chloride - BSD	EPA-8260	138	5		50	150	11/14/2019	CCN
Bromomethane - BS	EPA-8260	96.2			50	150	11/14/2019	CCN
Bromomethane - BSD	EPA-8260	98.6	2		50	150	11/14/2019	CCN
Chloroethane - BS	EPA-8260	102			50	150	11/14/2019	CCN
Chloroethane - BSD	EPA-8260	95.7	6		50	150	11/14/2019	CCN
Carbon Tetrachloride - BS	EPA-8260	97.4			50	150	11/14/2019	CCN
Carbon Tetrachloride - BSD	EPA-8260	96.4	1		50	150	11/14/2019	CCN
Trichlorofluoromethane - BS	EPA-8260	82.6			50	150	11/14/2019	CCN
Trichlorofluoromethane - BSD	EPA-8260	82.1	1		50	150	11/14/2019	CCN
Carbon Disulfide - BS	EPA-8260	90.9			50	150	11/14/2019	CCN
Carbon Disulfide - BSD	EPA-8260	89.5	2		50	150	11/14/2019	CCN
Acetone - BS	EPA-8260	112			50	150	11/14/2019	CCN
Acetone - BSD	EPA-8260	115	3		50	150	11/14/2019	CCN
1,1-Dichloroethene - BS	EPA-8260	93.3			70	130	11/14/2019	CCN
1,1-Dichloroethene - BSD	EPA-8260	91.5	2		70	130	11/14/2019	CCN
Methylene Chloride - BS	EPA-8260	150		SQ1	50	150	11/14/2019	CCN
Methylene Chloride - BSD	EPA-8260	150	0	SQ1	50	150	11/14/2019	CCN
Acrylonitrile - BS	EPA-8260	94.2			50	150	11/14/2019	CCN
Acrylonitrile - BSD	EPA-8260	93.6	1		50	150	11/14/2019	CCN
Methyl T-Butyl Ether - BS	EPA-8260	110			50	150	11/14/2019	CCN
Methyl T-Butyl Ether - BSD	EPA-8260	108	2		50	150	11/14/2019	CCN
Trans-1,2-Dichloroethene - BS	EPA-8260	74.4			50	150	11/14/2019	CCN
Trans-1,2-Dichloroethene - BSD	EPA-8260	71.1	5		50	150	11/14/2019	CCN
1,1-Dichloroethane - BS	EPA-8260	103			50	150	11/14/2019	CCN
1,1-Dichloroethane - BSD	EPA-8260	97.7	5		50	150	11/14/2019	CCN
2-Butanone - BS	EPA-8260	106			50	150	11/14/2019	CCN
2-Butanone - BSD	EPA-8260	103	3		50	150	11/14/2019	CCN
Cis-1,2-Dichloroethene - BS	EPA-8260	100			50	150	11/14/2019	CCN



CERTIFICATE OF ANALYSIS

CLIENT: EcoCon, Inc.
 PO Box 153
 Fox Island, WA 98333

CLIENT CONTACT: Stephanie Holt
 CLIENT PROJECT: 0377-07

DATE: 11/27/2019
 ALS SDG#: EV19110097
 WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Cis-1,2-Dichloroethene - BSD	EPA-8260	97.7	2		50	150	11/14/2019	CCN
2,2-Dichloropropane - BS	EPA-8260	103			50	150	11/14/2019	CCN
2,2-Dichloropropane - BSD	EPA-8260	98.4	5		50	150	11/14/2019	CCN
Bromochloromethane - BS	EPA-8260	116			50	150	11/14/2019	CCN
Bromochloromethane - BSD	EPA-8260	113	2		50	150	11/14/2019	CCN
Chloroform - BS	EPA-8260	110			50	150	11/14/2019	CCN
Chloroform - BSD	EPA-8260	107	3		50	150	11/14/2019	CCN
1,1,1-Trichloroethane - BS	EPA-8260	98.3			50	150	11/14/2019	CCN
1,1,1-Trichloroethane - BSD	EPA-8260	95.6	3		50	150	11/14/2019	CCN
1,1-Dichloropropene - BS	EPA-8260	93.3			50	150	11/14/2019	CCN
1,1-Dichloropropene - BSD	EPA-8260	92.1	1		50	150	11/14/2019	CCN
1,2-Dichloroethane - BS	EPA-8260	98.5			50	150	11/14/2019	CCN
1,2-Dichloroethane - BSD	EPA-8260	96.4	2		50	150	11/14/2019	CCN
Benzene - BS	EPA-8260	93.9			75	138	11/14/2019	CCN
Benzene - BSD	EPA-8260	92.0	2		75	138	11/14/2019	CCN
Trichloroethene - BS	EPA-8260	91.9			75	136	11/14/2019	CCN
Trichloroethene - BSD	EPA-8260	90.0	2		75	136	11/14/2019	CCN
1,2-Dichloropropane - BS	EPA-8260	97.0			50	150	11/14/2019	CCN
1,2-Dichloropropane - BSD	EPA-8260	95.2	2		50	150	11/14/2019	CCN
Dibromomethane - BS	EPA-8260	102			50	150	11/14/2019	CCN
Dibromomethane - BSD	EPA-8260	99.8	2		50	150	11/14/2019	CCN
Bromodichloromethane - BS	EPA-8260	92.8			50	150	11/14/2019	CCN
Bromodichloromethane - BSD	EPA-8260	91.0	2		50	150	11/14/2019	CCN
Trans-1,3-Dichloropropene - BS	EPA-8260	101			50	150	11/14/2019	CCN
Trans-1,3-Dichloropropene - BSD	EPA-8260	99.5	2		50	150	11/14/2019	CCN
4-Methyl-2-Pentanone - BS	EPA-8260	103			50	150	11/14/2019	CCN
4-Methyl-2-Pentanone - BSD	EPA-8260	105	2		50	150	11/14/2019	CCN
Toluene - BS	EPA-8260	95.7			71.6	122.1	11/14/2019	CCN
Toluene - BSD	EPA-8260	92.9	3		71.6	122.1	11/14/2019	CCN
Cis-1,3-Dichloropropene - BS	EPA-8260	98.4			50	150	11/14/2019	CCN
Cis-1,3-Dichloropropene - BSD	EPA-8260	94.4	4		50	150	11/14/2019	CCN
1,1,2-Trichloroethane - BS	EPA-8260	97.4			50	150	11/14/2019	CCN
1,1,2-Trichloroethane - BSD	EPA-8260	94.9	3		50	150	11/14/2019	CCN
2-Hexanone - BS	EPA-8260	97.6			50	150	11/14/2019	CCN
2-Hexanone - BSD	EPA-8260	93.4	4		50	150	11/14/2019	CCN
1,3-Dichloropropane - BS	EPA-8260	95.4			50	150	11/14/2019	CCN
1,3-Dichloropropane - BSD	EPA-8260	92.5	3		50	150	11/14/2019	CCN
Tetrachloroethylene - BS	EPA-8260	96.6			50	150	11/14/2019	CCN
Tetrachloroethylene - BSD	EPA-8260	96.2	0		50	150	11/14/2019	CCN
Dibromochloromethane - BS	EPA-8260	101			50	150	11/14/2019	CCN



CERTIFICATE OF ANALYSIS

CLIENT: EcoCon, Inc.
 PO Box 153
 Fox Island, WA 98333
CLIENT CONTACT: Stephanie Holt
CLIENT PROJECT: 0377-07

DATE: 11/27/2019
ALS SDG#: EV19110097
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Dibromochloromethane - BSD	EPA-8260	98.3	2		50	150	11/14/2019	CCN
1,2-Dibromoethane - BS	EPA-8260	96.9			50	150	11/14/2019	CCN
1,2-Dibromoethane - BSD	EPA-8260	94.3	3		50	150	11/14/2019	CCN
Chlorobenzene - BS	EPA-8260	96.6			79	128	11/14/2019	CCN
Chlorobenzene - BSD	EPA-8260	95.0	2		79	128	11/14/2019	CCN
1,1,1,2-Tetrachloroethane - BS	EPA-8260	101			50	150	11/14/2019	CCN
1,1,1,2-Tetrachloroethane - BSD	EPA-8260	94.7	6		50	150	11/14/2019	CCN
Ethylbenzene - BS	EPA-8260	92.8			50	150	11/14/2019	CCN
Ethylbenzene - BSD	EPA-8260	90.3	3		50	150	11/14/2019	CCN
m,p-Xylene - BS	EPA-8260	89.2			50	150	11/14/2019	CCN
m,p-Xylene - BSD	EPA-8260	86.6	3		50	150	11/14/2019	CCN
Styrene - BS	EPA-8260	96.9			50	150	11/14/2019	CCN
Styrene - BSD	EPA-8260	95.2	2		50	150	11/14/2019	CCN
o-Xylene - BS	EPA-8260	95.9			50	150	11/14/2019	CCN
o-Xylene - BSD	EPA-8260	93.7	2		50	150	11/14/2019	CCN
Bromoform - BS	EPA-8260	105			50	150	11/14/2019	CCN
Bromoform - BSD	EPA-8260	104	1		50	150	11/14/2019	CCN
Isopropylbenzene - BS	EPA-8260	96.7			50	150	11/14/2019	CCN
Isopropylbenzene - BSD	EPA-8260	94.1	3		50	150	11/14/2019	CCN
1,1,2,2-Tetrachloroethane - BS	EPA-8260	102			50	150	11/14/2019	CCN
1,1,2,2-Tetrachloroethane - BSD	EPA-8260	102	0		50	150	11/14/2019	CCN
1,2,3-Trichloropropane - BS	EPA-8260	99.6			50	150	11/14/2019	CCN
1,2,3-Trichloropropane - BSD	EPA-8260	99.0	1		50	150	11/14/2019	CCN
Bromobenzene - BS	EPA-8260	85.6			50	150	11/14/2019	CCN
Bromobenzene - BSD	EPA-8260	84.5	1		50	150	11/14/2019	CCN
N-Propyl Benzene - BS	EPA-8260	86.2			50	150	11/14/2019	CCN
N-Propyl Benzene - BSD	EPA-8260	85.0	1		50	150	11/14/2019	CCN
2-Chlorotoluene - BS	EPA-8260	84.2			50	150	11/14/2019	CCN
2-Chlorotoluene - BSD	EPA-8260	83.5	1		50	150	11/14/2019	CCN
1,3,5-Trimethylbenzene - BS	EPA-8260	88.4			50	150	11/14/2019	CCN
1,3,5-Trimethylbenzene - BSD	EPA-8260	86.6	2		50	150	11/14/2019	CCN
4-Chlorotoluene - BS	EPA-8260	94.4			50	150	11/14/2019	CCN
4-Chlorotoluene - BSD	EPA-8260	90.9	4		50	150	11/14/2019	CCN
T-Butyl Benzene - BS	EPA-8260	77.2			50	150	11/14/2019	CCN
T-Butyl Benzene - BSD	EPA-8260	77.4	0		50	150	11/14/2019	CCN
1,2,4-Trimethylbenzene - BS	EPA-8260	80.2			50	150	11/14/2019	CCN
1,2,4-Trimethylbenzene - BSD	EPA-8260	79.4	1		50	150	11/14/2019	CCN
S-Butyl Benzene - BS	EPA-8260	87.4			50	150	11/14/2019	CCN
S-Butyl Benzene - BSD	EPA-8260	88.6	1		50	150	11/14/2019	CCN
P-Isopropyltoluene - BS	EPA-8260	90.4			50	150	11/14/2019	CCN



CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	11/27/2019
		ALS SDG#:	EV19110097
CLIENT CONTACT:	Stephanie Holt	WDOE ACCREDITATION:	C601
CLIENT PROJECT:	0377-07		

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
P-Isopropyltoluene - BSD	EPA-8260	89.8	1		50	150	11/14/2019	CCN
1,3-Dichlorobenzene - BS	EPA-8260	95.4			50	150	11/14/2019	CCN
1,3-Dichlorobenzene - BSD	EPA-8260	93.2	2		50	150	11/14/2019	CCN
1,4-Dichlorobenzene - BS	EPA-8260	94.9			50	150	11/14/2019	CCN
1,4-Dichlorobenzene - BSD	EPA-8260	92.4	3		50	150	11/14/2019	CCN
N-Butylbenzene - BS	EPA-8260	81.2			50	150	11/14/2019	CCN
N-Butylbenzene - BSD	EPA-8260	81.0	0		50	150	11/14/2019	CCN
1,2-Dichlorobenzene - BS	EPA-8260	99.7			50	150	11/14/2019	CCN
1,2-Dichlorobenzene - BSD	EPA-8260	96.0	4		50	150	11/14/2019	CCN
1,2-Dibromo 3-Chloropropane - BS	EPA-8260	115			50	150	11/14/2019	CCN
1,2-Dibromo 3-Chloropropane - BSD	EPA-8260	114	1		50	150	11/14/2019	CCN
1,2,4-Trichlorobenzene - BS	EPA-8260	95.9			50	150	11/14/2019	CCN
1,2,4-Trichlorobenzene - BSD	EPA-8260	93.6	2		50	150	11/14/2019	CCN
Hexachlorobutadiene - BS	EPA-8260	87.6			50	150	11/14/2019	CCN
Hexachlorobutadiene - BSD	EPA-8260	86.1	2		50	150	11/14/2019	CCN
Naphthalene - BS	EPA-8260	98.5			50	150	11/14/2019	CCN
Naphthalene - BSD	EPA-8260	98.1	0		50	150	11/14/2019	CCN
1,2,3-Trichlorobenzene - BS	EPA-8260	96.0			50	150	11/14/2019	CCN
1,2,3-Trichlorobenzene - BSD	EPA-8260	95.2	1		50	150	11/14/2019	CCN

SQ1 - Spike outside of control limits with a high bias. Associated compounds non-detect. No corrective action taken.

ALS Test Batch ID: 147710 - Soil by EPA-8270

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Pyridine - BS	EPA-8270	91.0			20	150	11/19/2019	JMK
Pyridine - BSD	EPA-8270	87.0	4		20	150	11/19/2019	JMK
N-Nitrosodimethylamine - BS	EPA-8270	85.8			20	150	11/19/2019	JMK
N-Nitrosodimethylamine - BSD	EPA-8270	82.5	4		20	150	11/19/2019	JMK
Phenol - BS	EPA-8270	90.0			36.1	131	11/19/2019	JMK
Phenol - BSD	EPA-8270	84.8	6		36.1	131	11/19/2019	JMK
Aniline - BS	EPA-8270	32.8			20	150	11/19/2019	JMK
Aniline - BSD	EPA-8270	31.5	4		20	150	11/19/2019	JMK
Bis(2-Chloroethyl)Ether - BS	EPA-8270	108			20	150	11/19/2019	JMK
Bis(2-Chloroethyl)Ether - BSD	EPA-8270	108	0		20	150	11/19/2019	JMK
2-Chlorophenol - BS	EPA-8270	86.7			59.9	111	11/19/2019	JMK
2-Chlorophenol - BSD	EPA-8270	84.6	2		59.9	111	11/19/2019	JMK
1,3-Dichlorobenzene - BS	EPA-8270	81.7			20	150	11/19/2019	JMK
1,3-Dichlorobenzene - BSD	EPA-8270	82.9	1		20	150	11/19/2019	JMK
1,4-Dichlorobenzene - BS	EPA-8270	83.7			44.3	122	11/19/2019	JMK
1,4-Dichlorobenzene - BSD	EPA-8270	78.1	7		44.3	122	11/19/2019	JMK



CERTIFICATE OF ANALYSIS

CLIENT: EcoCon, Inc.
 PO Box 153
 Fox Island, WA 98333
CLIENT CONTACT: Stephanie Holt
CLIENT PROJECT: 0377-07

DATE: 11/27/2019
ALS SDG#: EV19110097
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzyl Alcohol - BS	EPA-8270	70.2			20	150	11/19/2019	JMK
Benzyl Alcohol - BSD	EPA-8270	67.8	3		20	150	11/19/2019	JMK
1,2-Dichlorobenzene - BS	EPA-8270	86.2			20	150	11/19/2019	JMK
1,2-Dichlorobenzene - BSD	EPA-8270	84.2	2		20	150	11/19/2019	JMK
2-Methylphenol - BS	EPA-8270	92.7			20	150	11/19/2019	JMK
2-Methylphenol - BSD	EPA-8270	87.9	5		20	150	11/19/2019	JMK
Bis(2-Chloroisopropyl)Ether - BS	EPA-8270	98.9			20	150	11/19/2019	JMK
Bis(2-Chloroisopropyl)Ether - BSD	EPA-8270	95.4	4		20	150	11/19/2019	JMK
3&4-Methylphenol - BS	EPA-8270	86.8			20	150	11/19/2019	JMK
3&4-Methylphenol - BSD	EPA-8270	82.8	5		20	150	11/19/2019	JMK
N-Nitroso-Di-N-Propylamine - BS	EPA-8270	62.2			31.6	134	11/19/2019	JMK
N-Nitroso-Di-N-Propylamine - BSD	EPA-8270	59.2	5		31.6	134	11/19/2019	JMK
Hexachloroethane - BS	EPA-8270	83.6			20	150	11/19/2019	JMK
Hexachloroethane - BSD	EPA-8270	80.6	4		20	150	11/19/2019	JMK
Nitrobenzene - BS	EPA-8270	89.0			20	150	11/19/2019	JMK
Nitrobenzene - BSD	EPA-8270	87.5	2		20	150	11/19/2019	JMK
Isophorone - BS	EPA-8270	90.7			20	150	11/19/2019	JMK
Isophorone - BSD	EPA-8270	88.9	2		20	150	11/19/2019	JMK
2-Nitrophenol - BS	EPA-8270	81.6			20	150	11/19/2019	JMK
2-Nitrophenol - BSD	EPA-8270	82.8	2		20	150	11/19/2019	JMK
2,4-Dimethylphenol - BS	EPA-8270	85.7			20	150	11/19/2019	JMK
2,4-Dimethylphenol - BSD	EPA-8270	82.7	4		20	150	11/19/2019	JMK
Bis(2-Chloroethoxy)Methane - BS	EPA-8270	93.1			20	150	11/19/2019	JMK
Bis(2-Chloroethoxy)Methane - BSD	EPA-8270	90.5	3		20	150	11/19/2019	JMK
2,4-Dichlorophenol - BS	EPA-8270	90.1			20	150	11/19/2019	JMK
2,4-Dichlorophenol - BSD	EPA-8270	87.2	3		20	150	11/19/2019	JMK
1,2,4-Trichlorobenzene - BS	EPA-8270	88.1			44.6	122	11/19/2019	JMK
1,2,4-Trichlorobenzene - BSD	EPA-8270	86.8	1		44.6	122	11/19/2019	JMK
Naphthalene - BS	EPA-8270	92.7			20	150	11/19/2019	JMK
Naphthalene - BSD	EPA-8270	90.6	2		20	150	11/19/2019	JMK
4-Chloroaniline - BS	EPA-8270	92.7			20	150	11/19/2019	JMK
4-Chloroaniline - BSD	EPA-8270	90.6	2		20	150	11/19/2019	JMK
Hexachlorobutadiene - BS	EPA-8270	85.1			20	150	11/19/2019	JMK
Hexachlorobutadiene - BSD	EPA-8270	83.2	2		20	150	11/19/2019	JMK
4-Chloro-3-Methylphenol - BS	EPA-8270	87.1			49.2	135	11/19/2019	JMK
4-Chloro-3-Methylphenol - BSD	EPA-8270	82.5	5		49.2	135	11/19/2019	JMK
2-Methylnaphthalene - BS	EPA-8270	89.0			20	150	11/19/2019	JMK
2-Methylnaphthalene - BSD	EPA-8270	86.2	3		20	150	11/19/2019	JMK
1-Methylnaphthalene - BS	EPA-8270	89.0			20	150	11/19/2019	JMK
1-Methylnaphthalene - BSD	EPA-8270	85.7	4		20	150	11/19/2019	JMK



CERTIFICATE OF ANALYSIS

CLIENT: EcoCon, Inc.
 PO Box 153
 Fox Island, WA 98333

CLIENT CONTACT: Stephanie Holt
 CLIENT PROJECT: 0377-07

DATE: 11/27/2019
 ALS SDG#: EV19110097
 WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Hexachlorocyclopentadiene - BS	EPA-8270	64.7			20	150	11/19/2019	JMK
Hexachlorocyclopentadiene - BSD	EPA-8270	58.4	10		20	150	11/19/2019	JMK
2,4,6-Trichlorophenol - BS	EPA-8270	84.8			20	150	11/19/2019	JMK
2,4,6-Trichlorophenol - BSD	EPA-8270	80.6	5		20	150	11/19/2019	JMK
2,4,5-Trichlorophenol - BS	EPA-8270	82.6			20	150	11/19/2019	JMK
2,4,5-Trichlorophenol - BSD	EPA-8270	79.4	4		20	150	11/19/2019	JMK
2-Chloronaphthalene - BS	EPA-8270	90.3			20	150	11/19/2019	JMK
2-Chloronaphthalene - BSD	EPA-8270	87.0	4		20	150	11/19/2019	JMK
2-Nitroaniline - BS	EPA-8270	86.5			20	150	11/19/2019	JMK
2-Nitroaniline - BSD	EPA-8270	83.7	3		20	150	11/19/2019	JMK
Acenaphthylene - BS	EPA-8270	95.9			20	150	11/19/2019	JMK
Acenaphthylene - BSD	EPA-8270	91.2	5		20	150	11/19/2019	JMK
Dimethylphthalate - BS	EPA-8270	99.6			20	150	11/19/2019	JMK
Dimethylphthalate - BSD	EPA-8270	96.0	4		20	150	11/19/2019	JMK
2,6-Dinitrotoluene - BS	EPA-8270	97.6			20	150	11/19/2019	JMK
2,6-Dinitrotoluene - BSD	EPA-8270	92.9	5		20	150	11/19/2019	JMK
Acenaphthene - BS	EPA-8270	97.8			49.3	117	11/19/2019	JMK
Acenaphthene - BSD	EPA-8270	93.2	5		49.3	117	11/19/2019	JMK
3-Nitroaniline - BS	EPA-8270	120			20	150	11/19/2019	JMK
3-Nitroaniline - BSD	EPA-8270	117	2		20	150	11/19/2019	JMK
2,4-Dinitrophenol - BS	EPA-8270	95.2			20	150	11/19/2019	JMK
2,4-Dinitrophenol - BSD	EPA-8270	90.3	5		20	150	11/19/2019	JMK
4-Nitrophenol - BS	EPA-8270	58.6			29.8	137	11/19/2019	JMK
4-Nitrophenol - BSD	EPA-8270	56.6	4		29.8	137	11/19/2019	JMK
Dibenzofuran - BS	EPA-8270	88.2			20	150	11/19/2019	JMK
Dibenzofuran - BSD	EPA-8270	85.0	4		20	150	11/19/2019	JMK
2,4-Dinitrotoluene - BS	EPA-8270	91.9			55.3	130	11/19/2019	JMK
2,4-Dinitrotoluene - BSD	EPA-8270	87.7	5		55.3	130	11/19/2019	JMK
2,3,4,6-Tetrachlorophenol - BS	EPA-8270	80.5			20	150	11/19/2019	JMK
2,3,4,6-Tetrachlorophenol - BSD	EPA-8270	77.6	4		20	150	11/19/2019	JMK
Diethylphthalate - BS	EPA-8270	96.6			20	150	11/19/2019	JMK
Diethylphthalate - BSD	EPA-8270	92.6	4		20	150	11/19/2019	JMK
Fluorene - BS	EPA-8270	94.2			20	150	11/19/2019	JMK
Fluorene - BSD	EPA-8270	89.7	5		20	150	11/19/2019	JMK
4-Chlorophenyl-Phenylether - BS	EPA-8270	90.7			20	150	11/19/2019	JMK
4-Chlorophenyl-Phenylether - BSD	EPA-8270	86.9	4		20	150	11/19/2019	JMK
4-Nitroaniline - BS	EPA-8270	58.8			20	150	11/19/2019	JMK
4-Nitroaniline - BSD	EPA-8270	54.9	7		20	150	11/19/2019	JMK
4,6-Dinitro-2-Methylphenol - BS	EPA-8270	94.6			20	150	11/19/2019	JMK
4,6-Dinitro-2-Methylphenol - BSD	EPA-8270	92.5	2		20	150	11/19/2019	JMK



CERTIFICATE OF ANALYSIS

CLIENT: EcoCon, Inc.
 PO Box 153
 Fox Island, WA 98333
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CLIENT PROJECT: 0377-07

DATE: 11/27/2019
ALS SDG#: EV19110097
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Azobenzene - BS	EPA-8270	94.9			20	150	11/19/2019	JMK
Azobenzene - BSD	EPA-8270	91.1	4		20	150	11/19/2019	JMK
4-Bromophenyl-Phenylether - BS	EPA-8270	94.1			20	150	11/19/2019	JMK
4-Bromophenyl-Phenylether - BSD	EPA-8270	90.7	4		20	150	11/19/2019	JMK
Hexachlorobenzene - BS	EPA-8270	99.0			20	150	11/19/2019	JMK
Hexachlorobenzene - BSD	EPA-8270	93.0	6		20	150	11/19/2019	JMK
Pentachlorophenol - BS	EPA-8270	80.6			41.3	113	11/19/2019	JMK
Pentachlorophenol - BSD	EPA-8270	78.2	3		41.3	113	11/19/2019	JMK
Phenanthrene - BS	EPA-8270	99.7			20	150	11/19/2019	JMK
Phenanthrene - BSD	EPA-8270	94.3	6		20	150	11/19/2019	JMK
Anthracene - BS	EPA-8270	92.8			20	150	11/19/2019	JMK
Anthracene - BSD	EPA-8270	88.1	5		20	150	11/19/2019	JMK
Carbazole - BS	EPA-8270	199		SQ1	20	150	11/19/2019	JMK
Carbazole - BSD	EPA-8270	188	6	SQ1	20	150	11/19/2019	JMK
Di-N-Butylphthalate - BS	EPA-8270	115			20	150	11/19/2019	JMK
Di-N-Butylphthalate - BSD	EPA-8270	109	5		20	150	11/19/2019	JMK
Fluoranthene - BS	EPA-8270	98.4			20	150	11/19/2019	JMK
Fluoranthene - BSD	EPA-8270	92.8	6		20	150	11/19/2019	JMK
Pyrene - BS	EPA-8270	110			57.4	145	11/19/2019	JMK
Pyrene - BSD	EPA-8270	103	6		57.4	145	11/19/2019	JMK
Butylbenzylphthalate - BS	EPA-8270	115			20	150	11/19/2019	JMK
Butylbenzylphthalate - BSD	EPA-8270	109	5		20	150	11/19/2019	JMK
Benzo[A]Anthracene - BS	EPA-8270	93.7			20	150	11/19/2019	JMK
Benzo[A]Anthracene - BSD	EPA-8270	88.9	5		20	150	11/19/2019	JMK
Chrysene - BS	EPA-8270	97.0			20	150	11/19/2019	JMK
Chrysene - BSD	EPA-8270	92.6	5		20	150	11/19/2019	JMK
Bis(2-Ethylhexyl)Phthalate - BS	EPA-8270	115			20	150	11/19/2019	JMK
Bis(2-Ethylhexyl)Phthalate - BSD	EPA-8270	110	5		20	150	11/19/2019	JMK
Di-N-Octylphthalate - BS	EPA-8270	115			20	150	11/19/2019	JMK
Di-N-Octylphthalate - BSD	EPA-8270	110	4		20	150	11/19/2019	JMK
Benzo[B]Fluoranthene - BS	EPA-8270	94.6			20	150	11/19/2019	JMK
Benzo[B]Fluoranthene - BSD	EPA-8270	89.6	5		20	150	11/19/2019	JMK
Benzo[K]Fluoranthene - BS	EPA-8270	97.0			20	150	11/19/2019	JMK
Benzo[K]Fluoranthene - BSD	EPA-8270	90.5	7		20	150	11/19/2019	JMK
Benzo[A]Pyrene - BS	EPA-8270	88.1			20	150	11/19/2019	JMK
Benzo[A]Pyrene - BSD	EPA-8270	82.5	6		20	150	11/19/2019	JMK
Indeno[1,2,3-Cd]Pyrene - BS	EPA-8270	95.2			20	150	11/19/2019	JMK
Indeno[1,2,3-Cd]Pyrene - BSD	EPA-8270	89.4	6		20	150	11/19/2019	JMK
Dibenz[A,H]Anthracene - BS	EPA-8270	92.0			20	150	11/19/2019	JMK
Dibenz[A,H]Anthracene - BSD	EPA-8270	85.9	7		20	150	11/19/2019	JMK



CERTIFICATE OF ANALYSIS

CLIENT: EcoCon, Inc.
PO Box 153
Fox Island, WA 98333
CLIENT CONTACT: Stephanie Holt
CLIENT PROJECT: 0377-07

DATE: 11/27/2019
ALS SDG#: EV19110097
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Benzo[G,H,I]Perylene - BS	EPA-8270	99.4			20	150	11/19/2019	JMK
Benzo[G,H,I]Perylene - BSD	EPA-8270	92.9	7		20	150	11/19/2019	JMK

SQ1 - Spike outside of control limits with a high bias. Associated compounds non-detect. No corrective action taken.

ALS Test Batch ID: 147844 - Soil by EPA-8082

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
PCB-1016 - BS	EPA-8082	59.1			50	150	11/22/2019	JMK
PCB-1016 - BSD	EPA-8082	69.1	16		50	150	11/22/2019	JMK
PCB-1260 - BS	EPA-8082	71.1			50	150	11/22/2019	JMK
PCB-1260 - BSD	EPA-8082	86.9	20		50	150	11/22/2019	JMK

ALS Test Batch ID: R350984 - Soil by EPA-7471

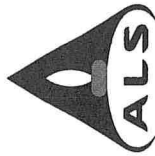
SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Mercury - BS	EPA-7471	105			81.8	117	11/15/2019	RAL
Mercury - BSD	EPA-7471	106	0		81.8	117	11/15/2019	RAL

ALS Test Batch ID: 147629 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Arsenic - BS	EPA-6020	99.2			80	120	11/18/2019	RAL
Arsenic - BSD	EPA-6020	98.7	1		80	120	11/18/2019	RAL
Cadmium - BS	EPA-6020	103			80	120	11/18/2019	RAL
Cadmium - BSD	EPA-6020	103	1		80	120	11/18/2019	RAL
Chromium - BS	EPA-6020	97.0			80	120	11/18/2019	RAL
Chromium - BSD	EPA-6020	96.8	0		80	120	11/18/2019	RAL
Lead - BS	EPA-6020	96.6			80	120	11/18/2019	RAL
Lead - BSD	EPA-6020	96.2	0		80	120	11/18/2019	RAL

APPROVED BY

Laboratory Director



ALS Environmental
8620 Holly Drive, Suite 100
Everett, WA 98208
Phone (425) 356-2600
Fax (425) 356-2626
http://www.alsglobal.com

Chain Of Custody/ Laboratory Analysis Request

ALS Job#

(Laboratory Use Only)

CV19110097

Date 11.13.19 Page 1 Of 2

PROJECT ID: 0377-07				ANALYSIS REQUESTED										OTHER (Specify)									
REPORT TO COMPANY: ECI				NWTPH-HCID										NWTPH-DX / oil									
PROJECT MANAGER: Stephanie Holt				NWTPH-GX																			
ADDRESS: P.O. Box 153				BTEX by EPA 8021 ☐ MTBE by EPA 8260 ☐																			
PHONE: 479-426-1489 P.O. #: 0377-07				Halogenated Volatiles by EPA 8260										Volatile Organic Compounds by EPA 8260									
E-MAIL: Stephanie@alleci.com				Semivolatile Organic Compounds (PAH) by EPA 8270 SIM										Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM									
INVOICE TO COMPANY: ECI				PCB by EPA 8082 ☐ Pesticides by EPA 8081 ☐										Metals-Metals (Specify)									
ATTENTION: Kelly Meland				Metals-MTCA-5 ☒ RCR-8 ☐ Ptl Pol ☐ TAL ☐										TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐									
ADDRESS: P.O. Box 53 Fox Island, WA 98333				Kelly@alleci.com										PCB									
SAMPLE I.D.				DATE		TIME		TYPE		LAB#													
1. B3-S				11-13-19		8:45		Soil		1													
2. B3-12				11-13-19		8:50				2													
3. B4-1.5						9:15				3													
4. B4-10						9:25				4													
5. B5-10						10:00				5													
6. B4-14						9:25				6													
7. B6-S						10:40				7													
8. B6-7						10:40				8													
9. B7-1						11:30				9													
10. B7-8						11:30				10													

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By:

Received By:

2. Relinquished By:

Received By:

TURNAROUND REQUESTED in Business Days*
Organic, Metals & Inorganic Analysis
OTHER:

Specify:

1 2 3 4 5

Fuels & Hydrocarbon Analysis

1 2 3 4 5

*Turnaround request less than standard may incur Rush Charges



ALS Job# (Laboratory Use Only)

<http://www.alsglobal.com>

Date 11.13.19 Page 2 Of 2

ANALYSIS REQUESTED	OTHER (Specify)
NWTPH-HCID	
NWTPH-DX 10.1	
NWTPH-GX	
BTEX by EPA 8021 ☐	
MTBE by EPA 8260 ☐	
Halogenated Volatiles by EPA 8260	
Volatile Organic Compounds by EPA 8260	
EDB / EDC by EPA 8260 SIM (water)	
EDB / EDC by EPA 8260 (soil)	
Semi-volatile Organic Compounds by EPA 8270	
Polycyclic Aromatic Hydrocarbons (PAH) by EPA 8270 SIM	
PCB by EPA 8082 ☐	
Metals-MTCA-5 ☒ RCRA-8 ☐ Ptl Pol ☐ TAL ☐	
Metals Other (Specify)	
TCLP-Metals ☐ VOA ☐ Semi-Vol ☐ Pest ☐ Herbs ☐	CPLHS Phenols PCB
NUMBER OF CONTAINERS	
RECEIVED IN GOOD CONDITION?	

SPECIAL INSTRUCTIONS

TURNAROUND REQUESTED in Business Days*
OTHER: Organic, Metals & Inorganic Analysis

Specify: _____

*Turnaround request less than standard may incur Rush Charges



December 13, 2019

Ms. Stephanie Holt
EcoCon, Inc.
PO Box 153
Fox Island, WA 98333

Dear Ms. Holt,

On November 14th, 11 samples were received by our laboratory and assigned our laboratory project number EV19110108. The project was identified as your Acrowood South. The sample identification and requested analyses are outlined on the attached chain of custody record.

No abnormalities or nonconformances were observed during the analyses of the project samples.

Please do not hesitate to call me if you have any questions or if I can be of further assistance.

Sincerely,

ALS Laboratory Group

Rick Bagan
Laboratory Director



CERTIFICATE OF ANALYSIS

CLIENT: EcoCon, Inc. DATE: 12/13/2019
PO Box 153 ALS JOB#: EV19110108
Fox Island, WA 98333 ALS SAMPLE#: EV19110108-01
CLIENT CONTACT: Stephanie Holt DATE RECEIVED: 11/14/2019
CLIENT PROJECT: Acrowood South COLLECTION DATE: 11/14/2019 8:17:00 AM
CLIENT SAMPLE ID: B12-2.5 WDOE ACCREDITATION: C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	260	26	1	MG/KG	11/18/2019	EBS
TPH-Oil Range	NWTPH-DX	1100	51	1	MG/KG	11/18/2019	EBS
Mercury	EPA-7471	0.022	0.020	1	MG/KG	11/15/2019	RAL
Arsenic	EPA-6020	5.3	0.20	1	MG/KG	11/18/2019	RAL
Cadmium	EPA-6020	0.26	0.10	1	MG/KG	11/18/2019	RAL
Chromium	EPA-6020	23	0.10	1	MG/KG	11/18/2019	RAL
Lead	EPA-6020	58	0.10	1	MG/KG	11/18/2019	RAL

SURROGATE	METHOD	%REC	ANALYSIS DATE	ANALYSIS BY
C25	NWTPH-DX	463 SUR12	11/18/2019	EBS

SUR12 -Surrogate recoveries were outside of the control limits due to matrix interference.
Chromatogram indicates that it is likely that sample contains an unidentified diesel range product and lube oil.
Diesel range product results biased high due to oil range product overlap.



CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc.	DATE:	12/13/2019
	PO Box 153	ALS JOB#:	EV19110108
	Fox Island, WA 98333	ALS SAMPLE#:	EV19110108-03
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/14/2019
CLIENT PROJECT:	Acrowood South	COLLECTION DATE:	11/14/2019 8:35:00 AM
CLIENT SAMPLE ID	B13-5	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	0.025	0.020	1	MG/KG	11/15/2019	RAL
Arsenic	EPA-6020	3.5	0.20	1	MG/KG	11/18/2019	RAL
Cadmium	EPA-6020	U	0.10	1	MG/KG	11/18/2019	RAL
Chromium	EPA-6020	34	0.10	1	MG/KG	11/18/2019	RAL
Lead	EPA-6020	2.6	0.10	1	MG/KG	11/18/2019	RAL

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	12/13/2019
		ALS JOB#:	EV19110108
		ALS SAMPLE#:	EV19110108-04
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/14/2019
CLIENT PROJECT:	Acrowood South	COLLECTION DATE:	11/14/2019 9:00:00 AM
CLIENT SAMPLE ID	B14-4	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	0.030	0.020	1	MG/KG	11/15/2019	RAL
Arsenic	EPA-6020	3.7	0.20	1	MG/KG	11/18/2019	RAL
Cadmium	EPA-6020	0.11	0.10	1	MG/KG	11/18/2019	RAL
Chromium	EPA-6020	17	0.10	1	MG/KG	11/18/2019	RAL
Lead	EPA-6020	87	0.10	1	MG/KG	11/18/2019	RAL

CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	12/13/2019
		ALS JOB#:	EV19110108
		ALS SAMPLE#:	EV19110108-05
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/14/2019
CLIENT PROJECT:	Acrowood South	COLLECTION DATE:	11/14/2019 10:15:00 AM
CLIENT SAMPLE ID	B15-4	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Chromium (VI)	EPA-7196	U	5.0	1	MG/KG	12/13/2019	JNF
Mercury	EPA-7471	0.046	0.020	1	MG/KG	11/15/2019	RAL
Arsenic	EPA-6020	6.6	0.20	1	MG/KG	11/18/2019	RAL
Cadmium	EPA-6020	0.54	0.10	1	MG/KG	11/18/2019	RAL
Chromium	EPA-6020	60	0.10	1	MG/KG	11/18/2019	RAL
Lead	EPA-6020	97	0.10	1	MG/KG	11/18/2019	RAL



CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc.	DATE:	12/13/2019
	PO Box 153	ALS JOB#:	EV19110108
	Fox Island, WA 98333	ALS SAMPLE#:	EV19110108-06
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/14/2019
CLIENT PROJECT:	Acrowood South	COLLECTION DATE:	11/14/2019 10:35:00 AM
CLIENT SAMPLE ID	B16-6	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
Mercury	EPA-7471	0.030	0.020	1	MG/KG	11/15/2019	RAL
Arsenic	EPA-6020	4.1	0.20	1	MG/KG	11/18/2019	RAL
Cadmium	EPA-6020	0.37	0.10	1	MG/KG	11/18/2019	RAL
Chromium	EPA-6020	40	0.10	1	MG/KG	11/18/2019	RAL
Lead	EPA-6020	110	0.10	1	MG/KG	11/18/2019	RAL



CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc.	DATE:	12/13/2019
	PO Box 153	ALS JOB#:	EV19110108
	Fox Island, WA 98333	ALS SAMPLE#:	EV19110108-07
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/14/2019
CLIENT PROJECT:	Acrowood South	COLLECTION DATE:	11/14/2019 10:12:00 AM
CLIENT SAMPLE ID	TP1-2	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS	ANALYSIS
						DATE	BY
Mercury	EPA-7471	0.023	0.020	1	MG/KG	11/15/2019	RAL
Arsenic	EPA-6020	3.4	0.20	1	MG/KG	11/18/2019	RAL
Cadmium	EPA-6020	0.10	0.10	1	MG/KG	11/18/2019	RAL
Chromium	EPA-6020	27	0.10	1	MG/KG	11/18/2019	RAL
Lead	EPA-6020	3.5	0.10	1	MG/KG	11/18/2019	RAL

CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	12/13/2019
		ALS JOB#:	EV19110108
		ALS SAMPLE#:	EV19110108-08
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/14/2019
CLIENT PROJECT:	Acrowood South	COLLECTION DATE:	11/14/2019 11:02:00 AM
CLIENT SAMPLE ID	TP2-2	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	0.057	0.020	1	MG/KG	11/15/2019	RAL
Arsenic	EPA-6020	4.7	0.20	1	MG/KG	11/18/2019	RAL
Cadmium	EPA-6020	U	0.10	1	MG/KG	11/18/2019	RAL
Chromium	EPA-6020	35	0.10	1	MG/KG	11/18/2019	RAL
Lead	EPA-6020	3.4	0.10	1	MG/KG	11/18/2019	RAL

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	12/13/2019
		ALS JOB#:	EV19110108
		ALS SAMPLE#:	EV19110108-09
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/14/2019
CLIENT PROJECT:	Acrowood South	COLLECTION DATE:	11/14/2019 11:40:00 AM
CLIENT SAMPLE ID	TP3-3	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	0.046	0.020	1	MG/KG	12/03/2019	RAL
Arsenic	EPA-6020	4.6	0.20	1	MG/KG	12/05/2019	RAL
Cadmium	EPA-6020	U	0.10	1	MG/KG	12/05/2019	RAL
Chromium	EPA-6020	40	0.20	1	MG/KG	12/05/2019	RAL
Lead	EPA-6020	6.4	0.10	1	MG/KG	12/05/2019	RAL

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	12/13/2019
		ALS JOB#:	EV19110108
		ALS SAMPLE#:	EV19110108-10
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/14/2019
CLIENT PROJECT:	Acrowood South	COLLECTION DATE:	11/14/2019 12:12:00 PM
CLIENT SAMPLE ID	TP4-3	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	U	0.020	1	MG/KG	12/03/2019	RAL
Arsenic	EPA-6020	4.6	0.20	1	MG/KG	12/05/2019	RAL
Cadmium	EPA-6020	0.12	0.10	1	MG/KG	12/05/2019	RAL
Chromium	EPA-6020	36	0.20	1	MG/KG	12/05/2019	RAL
Lead	EPA-6020	5.0	0.10	1	MG/KG	12/05/2019	RAL

U - Analyte analyzed for but not detected at level above reporting limit.

CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	12/13/2019
		ALS JOB#:	EV19110108
		ALS SAMPLE#:	EV19110108-11
CLIENT CONTACT:	Stephanie Holt	DATE RECEIVED:	11/14/2019
CLIENT PROJECT:	Acrowood South	COLLECTION DATE:	11/14/2019 12:40:00 PM
CLIENT SAMPLE ID	TP5-3	WDOE ACCREDITATION:	C601

SAMPLE DATA RESULTS

ANALYTE	METHOD	RESULTS	REPORTING LIMITS	DILUTION FACTOR	UNITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	U	0.020	1	MG/KG	11/15/2019	RAL
Arsenic	EPA-6020	6.0	0.20	1	MG/KG	11/18/2019	RAL
Cadmium	EPA-6020	0.11	0.10	1	MG/KG	11/18/2019	RAL
Chromium	EPA-6020	41	0.10	1	MG/KG	11/18/2019	RAL
Lead	EPA-6020	9.2	0.10	1	MG/KG	11/18/2019	RAL

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: EcoCon, Inc. DATE: 12/13/2019
PO Box 153 ALS SDG#: EV19110108
Fox Island, WA 98333 WDOE ACCREDITATION: C601
CLIENT CONTACT: Stephanie Holt
CLIENT PROJECT: Acrowood South

LABORATORY BLANK RESULTS

MB-111419S3 - Batch 147637 - Soil by NWTPH-DX

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
TPH-Diesel Range	NWTPH-DX	U	MG/KG	25	11/15/2019	EBS
TPH-Oil Range	NWTPH-DX	U	MG/KG	50	11/15/2019	EBS

U - Analyte analyzed for but not detected at level above reporting limit.

MBLK-R352489 - Batch R352489 - Soil by EPA-7196

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Chromium (VI)	EPA-7196	U	MG/KG	5.0	12/13/2019	JNF

U - Analyte analyzed for but not detected at level above reporting limit.

MBLK-351767 - Batch R351767 - Soil by EPA-7471

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	U	MG/KG	0.020	12/03/2019	RAL

U - Analyte analyzed for but not detected at level above reporting limit.

MBLK-R350984 - Batch R350984 - Soil by EPA-7471

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Mercury	EPA-7471	U	MG/KG	0.020	11/15/2019	RAL

U - Analyte analyzed for but not detected at level above reporting limit.

MB-111519S - Batch 147629 - Soil by EPA-6020

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-6020	U	MG/KG	0.20	11/18/2019	RAL
Cadmium	EPA-6020	U	MG/KG	0.10	11/18/2019	RAL
Chromium	EPA-6020	U	MG/KG	0.10	11/18/2019	RAL
Lead	EPA-6020	U	MG/KG	0.10	11/18/2019	RAL

U - Analyte analyzed for but not detected at level above reporting limit.

MB-120319S - Batch 148217 - Soil by EPA-6020

ANALYTE	METHOD	RESULTS	UNITS	REPORTING LIMITS	ANALYSIS DATE	ANALYSIS BY
Arsenic	EPA-6020	U	MG/KG	0.20	12/05/2019	RAL
Cadmium	EPA-6020	U	MG/KG	0.10	12/05/2019	RAL
Chromium	EPA-6020	U	MG/KG	0.20	12/05/2019	RAL
Lead	EPA-6020	U	MG/KG	0.10	12/05/2019	RAL

CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	12/13/2019
CLIENT CONTACT:	Stephanie Holt	ALS SDG#:	EV19110108
CLIENT PROJECT:	Acrowood South	WDOE ACCREDITATION:	C601

LABORATORY BLANK RESULTS

MB-120319S - Batch 148217 - Soil by EPA-6020

U - Analyte analyzed for but not detected at level above reporting limit.



CERTIFICATE OF ANALYSIS

CLIENT: EcoCon, Inc.
PO Box 153
Fox Island, WA 98333
CLIENT CONTACT: Stephanie Holt
CLIENT PROJECT: Acrowood South

DATE: 12/13/2019
ALS SDG#: EV19110108
WDOE ACCREDITATION: C601

LABORATORY CONTROL SAMPLE RESULTS

ALS Test Batch ID: 147637 - Soil by NWTPH-DX

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
TPH-Diesel Range - BS	NWTPH-DX	92.3			75.5	122.1	11/15/2019	EBS
TPH-Diesel Range - BSD	NWTPH-DX	94.3	2		75.5	122.1	11/15/2019	EBS

ALS Test Batch ID: R352489 - Soil by EPA-7196

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Chromium (VI) - BS	EPA-7196	104			91	114	12/13/2019	JNF
Chromium (VI) - BSD	EPA-7196	103	1		91	114	12/13/2019	JNF

ALS Test Batch ID: R350984 - Soil by EPA-7471

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Mercury - BS	EPA-7471	105			81.8	117	11/15/2019	RAL
Mercury - BSD	EPA-7471	106	0		81.8	117	11/15/2019	RAL

ALS Test Batch ID: R351767 - Soil by EPA-7471

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Mercury - BS	EPA-7471	102			81.8	117	12/03/2019	RAL
Mercury - BSD	EPA-7471	102	0		81.8	117	12/03/2019	RAL

ALS Test Batch ID: 147629 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Arsenic - BS	EPA-6020	99.2			80	120	11/18/2019	RAL
Arsenic - BSD	EPA-6020	98.7	1		80	120	11/18/2019	RAL
Cadmium - BS	EPA-6020	103			80	120	11/18/2019	RAL
Cadmium - BSD	EPA-6020	103	1		80	120	11/18/2019	RAL
Chromium - BS	EPA-6020	97.0			80	120	11/18/2019	RAL
Chromium - BSD	EPA-6020	96.8	0		80	120	11/18/2019	RAL
Lead - BS	EPA-6020	96.6			80	120	11/18/2019	RAL
Lead - BSD	EPA-6020	96.2	0		80	120	11/18/2019	RAL

ALS Test Batch ID: 148217 - Soil by EPA-6020

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Arsenic - BS	EPA-6020	95.5			80	120	12/05/2019	RAL
Arsenic - BSD	EPA-6020	92.8	3		80	120	12/05/2019	RAL
Cadmium - BS	EPA-6020	99.3			80	120	12/05/2019	RAL

CERTIFICATE OF ANALYSIS

CLIENT:	EcoCon, Inc. PO Box 153 Fox Island, WA 98333	DATE:	12/13/2019
		ALS SDG#:	EV19110108
		WDOE ACCREDITATION:	C601
CLIENT CONTACT:	Stephanie Holt		
CLIENT PROJECT:	Acrowood South		

LABORATORY CONTROL SAMPLE RESULTS

SPIKED COMPOUND	METHOD	%REC	RPD	QUAL	LIMITS		ANALYSIS DATE	ANALYSIS BY
					MIN	MAX		
Cadmium - BSD	EPA-6020	96.7	3		80	120	12/05/2019	RAL
Chromium - BS	EPA-6020	95.4			80	120	12/05/2019	RAL
Chromium - BSD	EPA-6020	92.5	3		80	120	12/05/2019	RAL
Lead - BS	EPA-6020	94.3			80	120	12/05/2019	RAL
Lead - BSD	EPA-6020	91.2	3		80	120	12/05/2019	RAL

APPROVED BY



Laboratory Director



ALS Job# _____ (Laboratory Use Only)

EV9110108

Date 11.14.19 Page 1 Of 2

PROJECT ID: <u>Acreswood South</u>				DATE		TIME		TYPE		LAB#	
REPORT TO: <u>ECI</u>				DATE		TIME		TYPE		LAB#	
COMPANY: <u>Stephanie Holt</u>				DATE		TIME		TYPE		LAB#	
PROJECT MANAGER: <u>P.O. Box 153</u>				DATE		TIME		TYPE		LAB#	
ADDRESS: <u>Fox Island, WA</u>				DATE		TIME		TYPE		LAB#	
PHONE: <u>479-426-1489</u>				DATE		TIME		TYPE		LAB#	
E-MAIL: <u>Stephanie@allegi.com</u>				DATE		TIME		TYPE		LAB#	
INVOICE TO COMPANY: <u>ECI</u>				DATE		TIME		TYPE		LAB#	
ATTENTION: <u>Kelly Melland</u>				DATE		TIME		TYPE		LAB#	
ADDRESS: <u>Kelly@allegi.com</u>				DATE		TIME		TYPE		LAB#	
1.	B12-2.5	11-14-19	8:17	Soil	1						
2.	B12-9	8:25			2						
3.	B13-5	8:35			3						
4.	B14-4	9:00			4						
5.	B15-4	10:15			5						
6.	B16-6	10:35			6						
7.	TP1-2	10:12			7						
8.	TP2-2	11:02			8						
9.	TP3-3	11:40			9						
10.	TP4-3	12:12			10						

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: [Signature] / 11.14.19 / 13:45

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: [Signature] / 11.14.19 / 13.45

Received By: James R. S. 11/14/19 1:45
Relinquished By: _____

Received By: Paul Bognas 11/14/19 1:45

Received By: _____

TURNAROUND REQUESTED in Business Days*
OTHER: Organic, Metals & Inorganic Analysis

Specify: _____

Fuels & Hydrocarbon Analysis

SAME DAY
1
3
5

***Turnaround request less than standard may incur Rush Charges**



ALS Job# (Laboratory Use Only)

Date 11.14.19 Page 2 Of 2

SPECIAL INSTRUCTIONS

SIGNATURES (Name, Company, Date, Time):

1. Relinquished By: [Signature] 11-14-19 / 1:45

Received By: [Signature] 11/14/19 1:45

2. Relinquished By: _____

Received By: _____

TURNAROUND REQUESTED in Business Days*
Organic, Metals & Inorganic Analysis OTHER:

Fuels & Hydrocarbon Analysis

Standard	5	3	2	1	SAME DAY
☒ NO					
☒		3			SAME DAY
Standard				1	

Specify: _____

*Turnaround request less than standard may incur Rush Charges