Interim Action Completion Report 2021 Boulevard Road SE Olympia, Washington

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Professional Certification

This document was prepared under my direction. The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I hereby certify that I was in responsible charge of the work performed for this document.



May 8, 2023

Joel Hecker, LG, LHG Senior Geologist PIONEER Technologies Corporation Washington LG #3285 Date



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Interim Action Completion Report

List of Acronyms

Acronym	Explanation
BMPs	Best Management Practices
CFR	Code of Federal Regulations
City	City of Olympia
DHE	DH Environmental Incorporated
Ecology	Washington Department of Ecology
ESA	Environmental Site Assessment
HASP	Health and Safety Plan
IA	Interim Action
Kd	Distribution Coefficient
MTCA	Model Toxics Control Act
NFA	No Further Action
PIONEER	PIONEER Technologies Corporation
QA/QC	Quality Assurance/Quality Control
SHA	Site Hazard Assessment
Site	2021 Boulevard Road SE, Olympia, Washington
SLs	Model Toxics Control Act Method B Screening Levels for Unrestricted Land Use
TEE	Terrestrial Ecological Evaluation
WA DFW	Washington Department of Fish and Wildlife
Work Plan	Interim Action Work Plan



SECTION 1: INTRODUCTION

PIONEER Technologies Corporation (PIONEER) has prepared this Interim Action (IA) Completion Report for the site located at 2021 Boulevard Road SE, Olympia, Thurston County, Washington (Site). The purpose of this report is to present the results from activities that were conducted at the Site in February and March of 2023. IA activities were performed in accordance with the Washington Department of Ecology (Ecology)-approved IA Work Plan (Work Plan) (PIONEER 2021c).

1.1 Site Background

The Site consists of 0.90 acres of vacant grass- and gravel-covered land. The Site is located in a residential area in the eastern portion of Olympia (see Figure 1). PIONEER completed a Phase I Environmental Site Assessment (ESA) of the Site and prepared a Phase I ESA report in July 2021 (PIONEER 2021a). Prior to 1941, the Site was vacant, partially wooded land. By 1949, a residence was constructed on the south-central portion of the Site. By 1956, three greenhouses and an office associated with Smith's Greenhouse (i.e., a plant nursery) were built around the residence. In 1966, a fire destroyed the office and it was replaced with a retail store and outdoor sales area. By 1978, Smith's Greenhouse business became Boulevard Nursery and continued operating as a nursery into the mid-2000s at which time the Site was abandoned. Several iterations of building demolition and soil grading occurred between 2012 and 2017. By 2020, no structures were present and a soil berm was present along the Site's western edge (see Figure 2). The origin of the soil berm was reportedly scraped topsoil from throughout the Site (PIONEER 2021a).

1.2 Previous Investigations and Environmental Conditions

Previous soil sampling for pesticides associated with former nursery operations occurred in 2009 and 2020. Based on the lack of pesticides exceeding Model Toxics Control Act (MTCA) Method B Screening Levels for Unrestricted Land Use (SLs), Ecology granted a No Further Action (NFA) opinion for the Site in 2020 (Ecology 2020; see Appendix A). Ecology's Facility ID for the Site is 3749 and the Cleanup Site ID is 223. Subsequent soil sampling occurred in April 2021 and one soil sample collected from the soil berm contained dieldrin, a pesticide, at concentrations exceeding MTCA SLs. As a result, Ecology rescinded the NFA opinion (Ecology 2021; see Appendix A). PIONEER collected additional soil samples from the soil berm in July 2021 as part of a Phase II ESA completed for a prospective purchaser. A total of nine different pesticides were detected in soil samples; however, only dieldrin exceeded the SL. Dieldrin concentrations exceeded the SL at seven of the 13 locations sampled, including six of the seven soil borings. A summary of the soil samples collected on the Site to date are included in Table 1.

The Phase II ESA recommended that prior to redeveloping the Site, the contaminated portion of the soil berm should be excavated and disposed of at a licensed disposal facility. The disposal should be followed by confirmation sampling at the limits of the excavation to confirm remaining soil does not exceed the dieldrin SL (PIONEER 2021b).



1.3 Objective of the Interim Action

The objectives of this IA were to:

- Remove the dieldrin-contaminated soil berm on the western edge of the Site in order to facilitate future development of the Site for unrestricted (e.g., residential) land use.
- Obtain an NFA opinion from Ecology for the Site.

Introduction



SECTION 2: SUMMARY OF IA ACTIVITIES

This section describes the procedures that were used to implement the IA as outlined in the Work Plan (PIONEER 2021). The following IA activities were performed by DH Environmental Incorporated (DHE) in 2023, with oversight provided by PIONEER on behalf of the City of Olympia (City): Site preparation, berm removal, restoration, and waste disposal. Fieldwork documentation is presented in Appendix B and a photographic log of fieldwork activities is presented in Appendix C.

2.1 Site Preparation

As part of the IA mobilization, an on-site pre-construction meeting and site-walk was conducted on February 20, 2023. Parties present included representatives of PIONEER, DHE, and the City. Topics of discussion included schedule, logistics of operations, pollution prevention, overhead utilities, and final site stabilization.

A private utility locate was completed in July 2021 and no subsurface utilities were identified in the vicinity of the planned excavation. The height of the overhead utility lines along Boulevard Road SE was assessed and verified to be sufficient for equipment in the field by the contractor, prior to bringing equipment on-site. Prior to mobilization, DHE completed a public utility locate through Washington State Utilities Underground Location Center.

On February 20, 2023, DHE placed straw waddles around the work area, rumble strips along the haul route, and mobilized all equipment to the Site.

2.2 Excavation and Confirmation Sampling of Soil Berm

Excavation activities commenced on February 20, 2023. DHE excavated the entire soil berm and placed the soil in a temporary stockpile on a layer of Visqueen immediately east of the berm. The temporary stockpile was covered with a layer of Visqueen. After creation of the temporary stockpile, confirmation sample locations were staked in accordance with Figure 3 of the Work Plan, and samples were collected from 13 locations at the base of the berm, with one duplicate sample collected from the north end of the excavated berm (see Figure 3 and Table 1).

Four trucks with trailers, each with a capacity of 32-tons, arrived on-site on February 21, 2023. All trucks and trailers were loaded by the excavator operator to near capacity before departure to the approved disposal facility (Wasco County Landfill in The Dulles, Oregon). At the conclusion of loading, the excavator operator consolidated the stock-pile in preparation for the next day, and the stock-pile was covered with a layer of Visqueen. Similar activity was again conducted on February 22 and 24, 2023. Due to inclement weather conditions, (i.e., snow), the trucks were not able to arrive to the Site and excavation activities were cancelled on February 23, 2023.

2.2.1 Confirmation Sampling and Additional Excavation

As stated above, 13 confirmation samples and one duplicate were initially collected from the base of the berm, six to 12 inches below surrounding grade, on February 20, 2023. The samples were taken to Libby



Environmental and analyzed by Fremont Analytical for organochlorine pesticides via USEPA Method 8081. Sample results for ten of the 13 samples were below the SL for dieldrin, while three of the samples (i.e., SS-06, SS-09, and SS-13) had exceedances of the dieldrin SL (see Figure 3; Table-1).

These three areas with dieldrin exceedances were over-excavated to six to 12 inches below the surrounding grade on February 24, 2023 and 10 additional confirmation samples were collected from over-excavated area (i.e., SS-14 to SS-23). Three small trees that had grown on the berm (with trunks approximately three-inches or less in diameter) were removed to facilitate the over-excavation. At the conclusion of loading and over-excavating the additional material, the excavator operator consolidated the remaining stockpile and the stockpile was covered with a layer of Visqueen.

On February 27, 2023, four trucks with trailers were loaded by excavator with the remaining stock-piled contaminated-soil followed by the Visqueen and temporary best management practices (BMPs; i.e., straw wattles and silt socks). The Site was demobilized in accordance with the Work Plan.

2.2.2 Additional Confirmation Sampling

Sample results for nine of the ten additional confirmation samples were below the dieldrin SL, while a single sample (i.e., SS-22) had an exceedance of dieldrin, just over twice the SL (see Figure 3 and Table 1).

Additional excavation by hand was performed at the south end of the former berm area, immediately surrounding the sample location with the exceedance of dieldrin SL. The excavated soil was placed into three, 55-gallon drums and disposed of at the approved waste disposal facility. Two additional confirmation samples were collected at the extents of the additional over-excavation (i.e., SS-24 and SS-25; see Figure 3). The results for both confirmation samples were below SLs (see Table 1). Based on the results of the confirmation sampling, all in-place soil is less than SLs. Laboratory analytical reports are provided in Appendix D.

2.3 Equipment Decontamination

Equipment was decontaminated to prevent transport of impacted sediment and debris to unaffected areas. All equipment was cleaned before arriving and was inspected prior to use. All equipment parts in contact with excavated sediment or OWS components (e.g., excavator and skid-steer buckets) were decontaminated by dry-brushing prior to restoration and demobilization.

2.4 Grading and Restoration

Following the completion of removal activities, restoration including grading the edges of the excavation perimeter to eliminate straight edges, followed by seeding and strawing the excavated area.

2.4.1 Grading

Due to the shallow nature of the excavation, no backfill was brought in to the Site. The edges of the excavation were graded for a smooth transition to the excavated elevation and to eliminate straight edges.





2.4.2 Seeding and Final Restoration

The following activities were performed on February 27, 2023, after grading:

- 1. Straw wattles that were previously placed across the base of the berm during excavation were removed and disposed of off-site; and
- 2. Disturbed areas were hydroseeded with native grass seed and covered with straw.

2.5 Waste Management and Disposal

Dieldrin-contaminated soil waste was generated during the IA, as discussed below. Waste disposal documentation for the solid waste, including initial landfill approval documentation and final disposal tickets, is presented in Appendix E.

Impacted solids, including excavated contaminated soils, landscape cloth, reinforcement bar, vegetations, and miscellaneous buried debris recovered during excavation were directly loaded into truck and trailer for off-site disposal. In total, 488 tons of impacted solids, distributed between 16, 32-ton capacity trucks and trailers and three 55-gallon drums, were transported and disposed-of at the Wasco County Landfill in The Dalles, Oregon.

No impacted water was generated during IA.

2.6 Quality Assurance/Quality Control

Construction quality assurance/quality control (QA/QC) measures were implemented to ensure that the construction activities were completed safely, effectively, and successfully in accordance with the Work Plan and Quality Assurance Project Plan (PIONEER 2020). All IA activities were performed by a licensed contractor, and PIONEER representatives provided QA/QC oversight of the IA to ensure compliance with the Work Plan. No QA/QC issues that affected the implementation of the Work Plan were identified.

In accordance with the WP to collect a duplicate sample for every 20 samples, duplicate samples/additional aliquots were collected at samples SS-01 and SS-22 (see Figure 3). The lab results were within 50% of each other for duplicates.

2.7 Health and Safety

All fieldwork was conducted in a safe manner consistent with the project-specific Health and Safety Plan (HASP; PIONEER 2023). The HASP was developed prior to the start of field activities and met the requirements in Occupational Safety and Health Administration's Hazardous Waste Operations and Emergency Response Standard, 29 Code of Federal Regulations (CFR) 1910.120 or 29 CFR 1926.65, paragraph (b)(4). All fieldwork was conducted consistent with the project-specific HASP and fieldworkers were required to understand and abide by the requirements of the HASP.





2.8 Deviations from the Work Plan

The following deviations from the Work Plan were noted:

- The Work Plan stated that excavation activities were expected to take two days. Excavation activities began on February 20, 2023, and were concluded on February 27, 2023, followed by demobilization. No excavation activities were performed on February 23, 2023 because disposal trucks were not able to arrive due to inclement weather conditions (i.e., snowfall). Additional unanticipated excavation was performed on the south end of the berm on March 30, 2023 due to a dieldrin exceedance in soil sample SS-22. This additional excavation activity was approved by the City prior to commencement. This resulted in the excavation of an additional three, 55-gallon drums of solid waste that were collected and disposed of on April 17, 2023 in accordance with the Work Plan. In total, excavation was performed on the site on six calendar days, rather than two.
- In order to remove the impacted soil to the extent necessary, three small trees that had grown on the berm (with trunks approximately three-inches or less in diameter) were removed along the western Site boundary.



SECTION 3: DATA EVALUATION AND CONCLUSIONS

This section presents the data evaluations, conclusions, accomplishments, and effectiveness of the IA.

3.1 Terrestrial Ecological Evaluation

Conditions remain the same as during the filing of the previous NFA for the Site in 2020. In the previous NFA, regarding a Terrestrial Ecological Evaluation (TEE), Ecology stated:

"The Simplified TEE was found to apply at the Site. None of the detected analytes exceeded the respective simplified TEE soil concentrations for unrestricted land use found in Table 749-2 of MTCA. Based on the Washington Department of Fish & Wildlife (WA DFW) priority habitat map (https://geodataservices.wdfw.wa.gov/hp/phs/), no priority habitats are located on or adjacent to the Property or the Site" (Ecology 2020).

3.2 Soil-to-Groundwater Evaluation

Conditions remain the same as during the filing of the previous NFA for the Site in 2020. In the previous NFA, Ecology stated:

"No groundwater sampling has been conducted at the Site; however, no soil contamination has been found to suggest a groundwater concern. The water table is reported within the SHA [Site Hazard Assessment] on file for the Site to be at a depth of approximately 27 feet below ground surface. The detected chlorinated pesticides all have high distribution coefficients (Kd) and relatively low solubility such that migration to groundwater is unlikely" (Ecology 2020).

3.3 Accomplishments

Specific accomplishments of this IA included:

- Removing and properly disposing of 488 tons of dieldrin-contaminated soil comprising the soil berm;
- Removing and properly disposing of the temporary erosion control measures; and
- Grading the edges of excavation and restoring disturbed areas with seed and straw.

3.4 Effectiveness

The removal of dieldrin-contaminated soil at concentrations greater than the SL is a permanent remedy. This satisfies the objective of the IA, and therefore, remediation is considered complete at the Site.

3.5 Conclusion

The Site has been successfully remediated. Given the removal of soil containing dieldrin at concentrations greater than the SL, a No Further Action status should be reinstated for the Site lifting all restrictions on future Site usage.



Interim Action Completion Report

SECTION 4: REFERENCES

- Ecology. 2020. No Further Action Letter, Boulevard Nursery, 2021 Boulevard Road SE, Olympia, Washington. October.
- Ecology. 2021. Rescission of No Further Action (NFA) Status for the following Site: Boulevard Nursery, 2021 Boulevard Road SE, Olympia, Washington. June.
- PIONEER. 2020. Quality Assurance Project Plan for the City of Olympia's Brownfield Assessment Grant. March.
- PIONEER. 2021a. Phase I Environmental Site Assessment. 2021 Boulevard Road SE, Olympia, Washington. July.
- PIONEER. 2021b. Phase II Environmental Site Assessment. 2021 Boulevard Road SE, Olympia, Washington. August.

PIONEER. 2021c. Interim Action Work Plan. 2021 Boulevard Road SE, Olympia, Washington. August. Revised. February 2023.

PIONEER. 2023. Health and Safety Plan-Rev1. 2021 Boulevard Road SE, Olympia, Washington. February.

Figures







Tables

	Soil Scre	eenina Levels1									5	Sample Lo	cation. De	oth Interva	al (in Feet k	bas). and S	Sample Da	te								
	Method B Cleanup	Simplified	S-1	S-2	S-3	S-4	S-5	S-6	S-7	WM#1	WM#2	WM#3	PTC-SB1	PTC-SB1	PTC-SB2	PTC-SB2 Dups	PTC-SB3	PTC-SB3	PTC-SB4	PTC-SB4	PTC-SB5	PTC-SB5	FTC-SB6	PTC-SB6	PTC-SB7	PTC-SB7
	Level (CLARC	TEE Concentration	1'	1'	1'	1'	1'	1'	1'	1'	1'	1'	0-1'	2-4'	0-1'	0-1'	0-1'	2-4'	0-1'	3-5'	0-1'	3-5'	0-1'	3-5'	0-1'	4-6'
Constituent	Database) (mg/kg)	(Table 749-2) (mg/kg)	4/23/09	4/23/09	4/23/09	8/24/20	8/24/20	8/24/20	8/24/20	4/22/21	4/22/21	4/22/21	7/27/21	7/27/21	7/27/21	7/27/21	7/27/21	7/27/21	7/27/21	7/27/21	7/27/21	7/27/21	7/27/21	7/27/21	7/27/21	7/27/21
4,4´-DDD	2.4	1.0 (5)	0.064	0.034	ND	0.012	0.0093 U	0.010 U	0.011 U	0.076	0.014 U	0.017 U	0.015 U	0.016 U	0.015 U	0.014 U	0.015 U	0.016 U	0.014 U	0.11	0.014 U	0.016 U	0.015 U	0.017 U	0.018	0.051
4,4´-DDE	2.9	1.0 ⁽⁵⁾	0.14	0.12	ND	0.030	0.0093 U	0.010 U	0.011 U	0.050	0.032	0.052	0.023	0.031	0.0099 U	0.0095 U	0.043	0.12	0.032	0.16	0.0094 U	0.024	0.024	0.030	0.062	0.069
4,4´-DDT	2.9	1.0 (5)	0.036	0.014	ND	0.034	0.0093 U	0.010 U	0.011 U	0.20	0.074	0.15	0.034	0.026	0.015 U	0.014 U	0.073	0.019	0.043	0.32	0.14 U	0.16 U	0.15 U	0.17 U	0.15 U	0.17 U
Aldrin	0.059	0.17	NA	NA	NA	0.0095 U	0.0093 U	0.010 U	0.011 U	0.011 U	0.0095 U	0.011 U	0.0099 U	0.011 U	0.0099 U	0.0095 U	0.010 U	0.011 U	0.0096 U	0.0099 U	0.0094 U	0.011 U	0.010 U	0.011 U	0.010 U	0.011 U
Alpha BHC	0.16	10 (2)	NA	NA	NA	0.0095 U	0.0093 U	0.010 U	0.011 U	0.017 U	0.014 U	0.017 U	0.015 U	0.016 U	0.015 U	0.014 U	0.015 U	0.016 U	0.014 U	0.015 U	0.014 U	0.016 U	0.015 U	0.017 U	0.015 U	0.017 U
Beta BHC	0.56	10 (2)	NA	NA	NA	0.0095 U	0.0093 U	0.010 U	0.011 U	0.017 U	0.014 U	0.017 U	0.015 U	0.016 U	0.015 U	0.014 U	0.015 U	0.016 U	0.014 U	0.015 U	0.014 U	0.016 U	0.015 U	0.017 U	0.015 U	0.017 U
Cis-Chlordane	2.9	1.0 ⁽⁴⁾	ND	ND	ND	0.0095 U	0.0093 U	0.018	0.011 U	0.018	0.019	0.020	0.015 U	0.016 U	0.015 U	0.014 U	0.017	0.016 U	0.017	0.015 U	0.014 U	0.016 U	0.015 U	0.017 U	0.018	0.017 U
Delta BHC	No Value	10 ⁽²⁾	NA	NA	NA	0.0095 U	0.0093 U	0.010 U	0.011 U	0.017 U	0.014 U	0.017 U	0.015 U	0.016 U	0.015 U	0.014 U	0.015 U	0.016 U	0.014 U	0.015 U	0.014 U	0.016 U	0.015 U	0.017 U	0.015 U	0.017 U
Dieldrin	0.063	0.17	ND	0.038	ND	0.034	0.054	0.010 U	0.011 U	0.046	0.29	0.049	0.88	0.049	0.070	0.0095	0.33	0.075	0.062	0.070	0.020	0.011 U	0.037	0.067	0.13	0.021
Endosulfan I	No Value	No Value	NA	NA	NA	0.0095 U	0.0093 U	0.010 U	0.011 U	0.011 U	0.035	0.011 U	0.024	0.011 U	0.0099 U	0.0095 U	0.010 U	0.011 U	0.0096 U	0.0099 U	0.0094 U	0.025	0.010 U	0.011 U	0.010 U	0.011 U
Endosulfan II	No Value	No Value	NA	NA	NA	0.0095 U	0.0093 U	0.010 U	0.011 U	0.025	0.014 U	0.017 U	0.015 U	0.016 U	0.015 U	0.014 U	0.015 U	0.016 U	0.014 U	0.024	0.014 U	0.016 U	0.015 U	0.017 U	0.015 U	0.017 U
Endosulfan sulfate	480	No Value	NA	NA	NA	0.0095 U	0.0093 U	0.010 U	0.011 U	0.017 U	0.014 U	0.017 U	0.015 U	0.016 U	0.015 U	0.014 U	0.015 U	0.016 U	0.014 U	0.015 U	0.014 U	0.016 U	0.015 U	0.017 U	0.015 U	0.017 U
Endrin	24	0.40	NA	NA	NA	0.0095 U	0.0093 U	0.010 U	0.011 U	0.021	0.014 U	0.061	0.015 U	0.016 U	0.015 U	0.014 U	0.015 U	0.016 U	0.014 U	0.20	0.014 U	0.016 U	0.017	0.017 U	0.015 U	0.062
Endrin aldehyde	No Value	No Value	NA	NA	NA	0.0095 U	0.0093 U	0.010 U	0.011 U	0.017 U	0.014 U	0.017 U	0.015 U	0.016 U	0.015 U	0.014 U	0.015 U	0.016 U	0.014 U	0.015 U	0.014 U	0.016 U	0.015 U	0.017 U	0.015 U	0.017 U
Endrin ketone	No Value	No Value	NA	NA	NA	0.0095 U	0.0093 U	0.010 U	0.011 U	0.038	0.014 U	0.017 U	0.023	0.016 U	0.015 U	0.014 U	0.015 U	0.016 U	0.014 U	0.050	0.014 U	0.016 U	0.015 U	0.017 U	0.015 U	0.017 U
gamma-Chlordane	2.9	1.0 ⁽⁴⁾	ND	ND	ND	0.0095 U	0.0093 U	0.010	0.011 U	0.017 U	0.014 U	0.017 U	0.015 U	0.016 U	0.015 U	0.014 U	0.015 U	0.016 U	0.014 U	0.015 U	0.014 U	0.016 U	0.015 U	0.017 U	0.015 U	0.017 U
Heptachlor	0.22	0.60 (3)	NA	NA	NA	0.0095 U	0.0093 U	0.010 U	0.011 U	0.011 U	0.0095 U	0.011 U	0.0099 U	0.011 U	0.0099 U	0.0095 U	0.010 U	0.011 U	0.0096 U	0.0099 U	0.0094 U	0.011 U	0.010 U	0.011 U	0.010 U	0.011 U
Heptachlor epoxide	0.11	0.60 (3)	NA	NA	NA	0.0095 U	0.0093 U	0.010 U	0.011 U	0.011 U	0.0095 U	0.011 U	0.0099 U	0.011 U	0.0099 U	0.0095 U	0.010 U	0.011 U	0.0096 U	0.0099 U	0.0094 U	0.011 U	0.010 U	0.011 U	0.010 U	0.011 U
Lindane	0.91	10 (2)	NA	NA	NA	0.0095 U	0.0093 U	0.010 U	0.011 U	0.011 U	0.0095 U	0.011 U	0.0099 U	0.011 U	0.0099 U	0.0095 U	0.010 U	0.011 U	0.0096 U	0.0099 U	0.0094 U	0.011 U	0.010 U	0.011 U	0.010 U	0.011 U
Methoxychlor	400	No Value	NA	NA	NA	0.0095 U	0.0093 U	0.010 U	0.011 U	0.13	0.019 U	0.022 U	0.020 U	0.022 U	0.020 U	0.019 U	0.020 U	0.022 U	0.019 U	0.20 U	0.19 U	0.22 U	0.20 U	0.22 U	0.20 U	0.22 U
Toxaphene	0.91	No Value	NA	NA	NA	0.095 U	0.093 U	0.10 U	0.11 U	0.077 U	0.067 U	0.077 U	0.069 U	0.076 U	0.069 U	0.067 U	0.071 U	0.076 U	0.067 U	0.069 U	0.066 U	0.076 U	0.072 U	0.077 U	0.072 U	0.078 U

Table 1: Summary of 2009 through 2023 Soil Analytical Results

Notes:

RCRA Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) were also analyzed at locations S-1 through S-3. All analyzed metals concentrations were below MTCA soil screening levels. Feet bgs: feet below ground surface, No Value: a screening level cannot be calculated because no values exist in CLARC (Ecology 2021) or Table 749-2, mg/kg: milligrams per kilogram, U: constituent not detected at listed reporting limit.

Results shown for PTC-SB2 and SS-1 are the average of the duplicate samples. Results shown for SS-22 are the average of the three analyzed aliquots. Refer to laboratory analytical reports in Appendix D for individual results.

NA: it is unclear if constituent was analyzed during 2009 sampling event. "Other pesticides" are not described in the associated laboratory report.

ND: not detected above the laboratory reporting limit, which not provided in historical environmental reports.

Bold compounds were detected at the shown concentration.

Grayed out samples are those that have been excavated, and are no longer in-place.

The highlighted concentration exceeds MTCA Method B Cleanup Level

¹ Screening levels shown are the more restrictive of the Method B direct contact non-cancer (Equation 740-1) or cancer (Equation 740-2) cleanup level. Simplified TEE concentrations for unrestricted land use are those shown in MTCA Table 749-2. ² TEE Concentration for sum of BHCs.

³ TEE Concentration for sum of heptachlor and heptachlor epoxide.

⁴ TEE Concentration for sum of chlordanes

⁵ TEE Concentration for sum of DDT, DDE, and DDD.



	Soil Scre	ening Levels ¹	els ¹ Sample Location, Depth Interval (in Feet bgs), and Sample Date																								
	Method B Cleanup	Simplified	SS-1 Dups	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	SS-10	SS-11	SS-12	SS-13	SS-14	SS-15	SS-16	SS-17	SS-18	SS-19	SS-20	SS-21	SS-22 Dups	SS-23	SS-24	SS-25
	Level (CLARC	TEE Concentration	0.5-1'	0.5-1'	0.5-1'	0.5-1'	0.5-1'	0.5-1'	0.5-1'	0.5-1'	0.5-1'	0.5-1'	0.5-1'	0.5-1'	0.5-1'	0.5-1'	0.5-1'	0.5-1'	0.5-1'	0.5-1'	0.5-1'	0.5-1'	0.5-1'	0.5-1'	0.5-1'	0.5-1'	0.5-1'
Constituent	Database) (mg/kg)	(Table 749-2) (mg/kg)	2/20/23	2/20/23	2/20/23	2/20/23	2/20/23	2/20/23	2/20/23	2/20/23	2/20/23	2/20/23	2/20/23	2/20/23	2/20/23	2/24/23	2/24/23	2/24/23	2/24/23	2/24/23	2/24/23	2/24/23	2/24/23	2/24/23	2/24/23	3/30/23	3/30/23
4,4´-DDD	2.4	1.0 (5)	0.016 U	0.017 U	0.0154 U	0.0146 U	0.061 J	0.0871 U	0.0803 U	0.051 J	0.0855 U	0.0848 U	0.0861 U	0.0845 U	0.0863 U	0.0181 U	0.0171 U	0.0176 U	0.0183 U	0.0165 U	0.0182 U	0.0176 U	0.0173 U	0.018 U	0.0179 U	0.0177 U	0.0178 U
4,4´-DDE	2.9	1.0 (5)	0.0024 J	0.0081 J	0.0041 J	0.017	0.077	0.03 J	0.048 J	0.16	0.024 J	0.0565 U	0.03 J	0.028 J	0.014 J	0.0073 J	0.0114 U	0.0117 U	0.0122 U	0.011 U	0.0071 J	0.0343	0.047	0.13	0.0119 U	0.0118 U	0.0119 U
4,4´-DDT	2.9	1.0 (5)	0.017 U	0.0064 J	0.0070 J	0.0086 J	0.062 J	0.0929 U	0.076 J	0.048 J	0.0912 U	0.0905 U	0.036 J	0.031 J	0.092 U	0.0193 U	0.0183 U	0.0187 U	0.0196 U	0.0176 U	0.0194 U	0.0098 J	0.027	0.045	0.0191 U	0.0189 U	0.0190 U
Aldrin	0.059	0.17	0.011 U	0.0114 U	0.0103 U	0.00977 U	0.0604 U	0.0581 U	0.0535 U	0.0563 U	0.057 U	0.0565 U	0.0574 U	0.0564 U	0.0575 U	0.012 U	0.0114 U	0.0117 U	0.0122 U	0.011 U	0.0121 U	0.0117 U	0.0116 U	0.012 U	0.0119 U	0.0118 U	0.0119 U
Alpha BHC	0.16	10 (2)	0.011 U	0.0114 U	0.0103 U	0.00977 U	0.0604 U	0.0581 U	0.0535 U	0.0563 U	0.057 U	0.0565 U	0.0574 U	0.0564 U	0.0575 U	0.012 U	0.0114 U	0.0117 U	0.0122 U	0.011 U	0.0121 U	0.0117 U	0.0116 U	0.012 U	0.0119 U	0.0118 U	0.0119 U
Beta BHC	0.56	10 ⁽²⁾	0.011 U	0.0114 U	0.0103 U	0.00977 U	0.0604 U	0.0581 U	0.0535 U	0.0563 U	0.057 U	0.0565 U	0.0574 U	0.0564 U	0.0575 U	0.012 U	0.0114 U	0.0117 U	0.0122 U	0.011 U	0.0121 U	0.0117 U	0.0116 U	0.012 U	0.0119 U	0.0118 U	0.0119 U
Cis-Chlordane	2.9	1.0 ⁽⁴⁾	0.0041 J	0.0114 U	0.0103 U	0.012	0.0604 U	0.0581 U	0.0535 U	0.0563 U	0.019 J	0.0565 U	0.0574 U	0.0564 U	0.0575 U	0.012 U	0.0114 U	0.0117 U	0.0122 U	0.011 U	0.0121 U	0.0117 U	0.0116 U	0.012 U	0.0119 U	0.0118 U	0.0119 U
Delta BHC	No Value	10 ⁽²⁾	0.011 U	0.0114 U	0.0103 U	0.00977 U	0.0604 U	0.0581 U	0.0535 U	0.0563 U	0.057 U	0.0565 U	0.0574 U	0.0564 U	0.0575 U	0.012 U	0.0114 U	0.0117 U	0.0122 U	0.011 U	0.0121 U	0.0117 U	0.0116 U	0.012 U	0.0119 U	0.0118 U	0.0119 U
Dieldrin	0.063	0.17	0.011 J	0.0087 J	0.0048 J	0.052	0.028 J	0.069	0.060	0.031 J	0.11	0.055 J	0.057 U	0.024 J	0.11	0.012 U	0.0114 U	0.0117 U	0.0122 U	0.011 U	0.0084 J	0.0117 U	0.0075 J	0.12	0.0119 U	0.0118 U	0.0119 U
Endosulfan I	No Value	No Value	0.011 U	0.0114 U	0.0103 U	0.00977 U	0.0604 U	0.0581 U	0.0535 U	0.0563 U	0.057 U	0.0565 U	0.0574 U	0.0564 U	0.0575 U	0.012 U	0.0114 U	0.0117 U	0.0122 U	0.011 U	0.0121 U	0.0117 U	0.0116 U	0.012 U	0.0119 U	0.0118 U	0.0119 U
Endosulfan II	No Value	No Value	0.016 U	0.017 U	0.0154 U	0.0146 U	0.0906 U	0.0871 U	0.0803 U	0.0844 U	0.0855 U	0.0848 U	0.0861 U	0.0845 U	0.0863 U	0.0181 U	0.0171 U	0.0176 U	0.0183 U	0.0165 U	0.0182 U	0.0176 U	0.0173 U	0.018 U	0.0179 U	0.0177 U	0.0178 U
Endosulfan sulfate	480	No Value	0.016 U	0.017 U	0.0154 U	0.0146 U	0.0906 U	0.0871 U	0.0803 U	0.0844 U	0.0855 U	0.0848 U	0.0861 U	0.0845 U	0.0863 U	0.0181 U	0.0171 U	0.0176 U	0.0183 U	0.0165 U	0.0182 U	0.0176 U	0.0173 U	0.018 U	0.0179 U	0.0177 U	0.0178 U
Endrin	24	0.40	0.016 U	0.017 U	0.0154 U	0.0146 U	0.11	0.0871 U	0.045 J	0.032 J	0.0855 U	0.0848 U	0.0861 U	0.0845 U	0.0863 U	0.0181 U	0.0171 U	0.0176 U	0.0183 U	0.0165 U	0.0182 U	0.0176 U	0.0173 U	0.018 U	0.0179 U	0.0177 U	0.0178 U
Endrin aldehyde	No Value	No Value	0.013 J	0.0182 U	0.0164 U	0.0156 U	0.0966 U	0.0929 U	0.0856 U	0.0901 U	0.0912 U	0.0905 U	0.0918 U	0.0902 U	0.092 U	0.0193 U	0.0183 U	0.0187 U	0.0196 U	0.0176 U	0.0194 U	0.0187 U	0.0185 U	0.019 U	0.0191 U	0.0189 U	0.0190 U
Endrin ketone	No Value	No Value	0.021 U	0.0227 U	0.0205 U	0.0195 U	0.121 U	0.116 U	0.107 U	0.113 U	0.114 U	0.113 U	0.115 U	0.113 U	0.115 U	0.0241 U	0.0229 U	0.0234 U	0.0244 U	0.0221 U	0.0242 U	0.0234 U	0.0231 U	0.024 U	0.0238 U	0.0236 U	0.0237 U
gamma-Chlordane	2.9	1.0 (4)	0.011 U	0.0114 U	0.0103 U	0.0039 J	0.0604 U	0.0581 U	0.0535 U	0.0563 U	0.057 U	0.0565 U	0.0574 U	0.0564 U	0.0575 U	0.012 U	0.0114 U	0.0117 U	0.0122 U	0.011 U	0.0121 U	0.0117 U	0.0116 U	0.012 U	0.0119 U	0.0118 U	0.0119 U
Heptachlor	0.22	0.60 (3)	0.011 U	0.0114 U	0.0103 U	0.00977 U	0.0604 U	0.0581 U	0.0535 U	0.0563 U	0.057 U	0.0565 U	0.0574 U	0.0564 U	0.0575 U	0.012 U	0.0114 U	0.0117 U	0.0122 U	0.011 U	0.0121 U	0.0117 U	0.0116 U	0.012 U	0.0119 U	0.0118 U	0.0119 U
Heptachlor epoxide	0.11	0.60 (3)	0.011 U	0.0114 U	0.0103 U	0.00977 U	0.0604 U	0.0581 U	0.0535 U	0.0563 U	0.057 U	0.0565 U	0.0574 U	0.0564 U	0.0575 U	0.012 U	0.0114 U	0.0117 U	0.0122 U	0.011 U	0.0121 U	0.0117 U	0.0116 U	0.012 U	0.0119 U	0.0118 U	0.0119 U
Lindane	0.91	10 (2)	0.011 U	0.0114 U	0.0103 U	0.00977 U	0.0604 U	0.0581 U	0.0535 U	0.0563 U	0.057 U	0.0565 U	0.0574 U	0.0564 U	0.0575 U	0.012 U	0.0114 U	0.0117 U	0.0122 U	0.011 U	0.0121 U	0.0117 U	0.0116 U	0.012 U	0.0119 U	0.0118 U	0.0119 U
Methoxychlor	400	No Value	0.021 U	0.0227 U	0.0205 U	0.0195 U	0.121 U	0.116 U	0.107 U	0.113 U	0.114 U	0.113 U	0.115 U	0.113 U	0.115 U	0.0241 U	0.0229 U	0.0234 U	0.0244 U	0.0221 U	0.0242 U	0.0234 U	0.0231 U	0.024 U	0.0238 U	0.0236 U	0.0237 U
Toxaphene	0.91	No Value	0.074 U	0.0795 U	0.0718 U	0.0684 U	0.423 U	0.406 U	0.375 U	0.394 U	0.399 U	0.396 U	0.402 U	0.395 U	0.403 U	0.0843 U	0.08 U	0.082 U	0.0856 U	0.0772 U	0.0849 U	0.0819 U	2.7	0.083 U	0.0834 U	0.0827 U	0.0830 U

Table 1: Summary of 2009 through 2023 Soil Analytical Results

Notes:

RCRA Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) were also analyzed at locations S-1 through S-3. All analyzed metals concentrations were below MTCA soil screening levels. Feet bgs: feet below ground surface, No Value: a screening level cannot be calculated because no values exist in CLARC (Ecology 2021) or Table 749-2, mg/kg: milligrams per kilogram, U: constituent not detected at listed reporting limit.

Results shown for PTC-SB2 and SS-1 are the average of the duplicate samples. Results shown for SS-22 are the average of the three analyzed aliquots. Refer to laboratory analytical reports in Appendix D for individual results.

NA: it is unclear if constituent was analyzed during 2009 sampling event. "Other pesticides" are not described in the associated laboratory report.

ND: not detected above the laboratory reporting limit, which not provided in historical environmental reports.

Bold compounds were detected at the shown concentration.

Grayed out samples are those that have been excavated, and are no longer in-place.

The highlighted concentration exceeds MTCA Method B Cleanup Level

¹ Screening levels shown are the more restrictive of the Method B direct contact non-cancer (Equation 740-1) or cancer (Equation 740-2) cleanup level. Simplified TEE concentrations for unrestricted land use are those shown in MTCA Table 749-2. ² TEE Concentration for sum of BHCs.

³ TEE Concentration for sum of heptachlor and heptachlor epoxide.

⁴ TEE Concentration for sum of chlordanes

⁵ TEE Concentration for sum of DDT, DDE, and DDD.



Appendix A



STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

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October 30, 2020

Brian Barlow 12833 Vail Cut Off Road SW Rainier, WA 98576

Re: No Further Action at the following Site:

- Site Name: Boulevard Nursery
- Site Address: 2021 Boulevard Rd SE, Olympia
- Facility Site ID No.: 3749
- Cleanup Site ID No.: 223
- VCP Project No.: XS0001

Dear Brian Barlow:

The Washington State Department of Ecology (Ecology) received your request for an opinion on your independent cleanup of the Boulevard Nursery site (Site). This letter provides our opinion. We are providing this opinion under the authority of the Model Toxics Control Act (MTCA), Chapter 70.105D RCW.

Issue Presented and Opinion

Is further remedial action necessary to clean up contamination at the Site?

NO. Ecology has determined that no further remedial action is necessary to clean up contamination at the Site.

This opinion is based on an analysis of whether the remedial action meets the substantive requirements of MTCA, Chapter 70.105D RCW, and its implementing regulations, Chapter 173-340 WAC (collectively "substantive requirements of MTCA"). The analysis is provided below.

Description of the Site

This opinion applies only to the Site described below. The Site is defined by the nature and extent of contamination associated with the following release:

- Chlorinated pesticides (e.g. DDT and Dieldrin) into the Soil and potentially Groundwater.
- Metals (arsenic and lead) into the Soil and potentially Groundwater.

Enclosure A includes a detailed description and diagram of the Site, as currently known to Ecology. Please note a parcel of real property can be affected by multiple sites. At this time, we have no information that the parcel(s) associated with this Site are affected by other sites.

Ecology notes that the Site Hazard Assessment, conducted at the Site in 2012 listed site contaminants as DDT, Dieldrin, Arsenic, and Lead. However, the SHA stated:

The metals and pesticides detected in soil did not exceed applicable cleanup levels defined by the Washington State Department of Ecology Model Toxics Control Act (MTCA). However, since only a screening level assessment was conducted, the limited number of soil samples did not fully characterize potential impacts to subsurface soil and groundwater at the site. Additional analysis would be required to fully assess the site in accordance with MTCA standards.

Further investigations have verified the presence of chlorinated pesticides in soils, albeit below MTCA cleanup levels. After further review, and further discussed below, Ecology has concluded that no further investigation is warranted with respect to pesticides or metals in soil or groundwater. The Site is outside the boundary of the Tacoma Smelter Plume site.

The Site is located at 2021 Boulevard Rd SE, in Olympia WA and is located entirely within Thurston County Parcel Number 12824411300. The property consists of a vacant lot that was formerly a plant nursery. The property is surrounded by farm and residential properties. To the west and north is a small farm property, and to the south and east (across Boulevard Road) are residences.

Basis for the Opinion

This opinion is based on the information contained in the following documents:

- 1. *Limited Phase II Environmental Site Assessment, Target Property: Boulevard Nursery.* Hemphill, Green and Associates LLC. June 10, 2009.
- 2. Early Notice Letter Regarding Release of Hazardous Substances at the Boulevard Nursery. Department of Ecology to Jeffrey Niven. January 13, 2010.

- 3. *Site Hazard Assessment Worksheet, Boulevard Nursery*. Thurston County Public Health & Social Services Department. August 28, 2012.
- 4. *Phase II Site Characterization Report, The Former Boulevard Nursery Site.* ADESA LLC. September 6, 2020.

A number of these documents are accessible in electronic form from the Site webpage <u>https://apps.ecology.wa.gov/gsp/Sitepage.aspx?csid=223</u>. The complete records are stored in the Central Files of the Headquarters Office of Ecology, for review by appointment only.

Visit our Public Records Request page <u>https://ecology.wa.gov/About-us/Accountability-transparency/Public-records-requests</u>, to submit a public records request or get more information about the process. If you require assistance with this process, you may contact the Public Records Officer at <u>publicrecordsofficer@ecy.wa.gov</u> or 360-407-6040.

This opinion is void if any of the information contained in those documents is materially false or misleading.

Analysis of the Cleanup

Ecology has concluded that **no further remedial action** is necessary to clean up contamination at the Site.

That conclusion that no further remedial action is necessary is based on the following analysis:

1. Characterization of the Site.

Ecology has determined your characterization of the Site is sufficient to establish cleanup standards and select a cleanup action for the identified release. The Site is described above and in **Enclosure A.**

Three shallow soil samples were collected and analyzed in 2009 during a limited Phase II Environmental Site Assessment (ESA). The soil samples were analyzed for heavy metals and chlorinated pesticides. Five heavy metals were detected in the soil samples (As, Ba, Cr, Pb, and Hg) but at concentrations less than their respective cleanup levels.

Four pesticides (Dieldrin, DDT, DDD, and DDE) were also detected at concentrations less than MTCA cleanup levels. Dieldrin was the pesticide with the highest concentration relative to its cleanup level (detected in one sample at 0.038 mg/kg compared to the Method B (direct contact cancer) cleanup level of 0.063 mg/kg.

The limited Phase II concluded:

"The pesticides detected in site soils were below applicable Washington State Model Toxic Control Act (MTCA) pesticide cleanup standards. However, only a screening level assessment was conducted, and the number of samples collected was not sufficient to define the magnitude or extent of the pesticide impacts. The fact that several pesticides... were detected is of concern considering the property could be redeveloped for residential use."

This conclusion was mirrored in the both Ecology's Early Notice Letter (2010) and the Site Hazard Assessment (2012). Shallow soil sampling was conducted at an additional four locations in 2020. The soil samples were analyzed for chlorinated pesticides by EPA Method 8081. Five chlorinated pesticides (Dieldrin, DDT, DDD, DDE, gamma chlordane, and alpha chlordane) were detected in at least one soil sample. However, all of these detections were below Method B (direct contact, cancer) cleanup levels.

The highest concentration of a chlorinated pesticide detected (relative to its respective cleanup level) was 0.0536 mg/kg Dieldrin at location S-5, below the Method B cleanup level of 0.063 mg/kg.

No groundwater sampling has been conducted at the Site; however, no soil contamination has been found to suggest a groundwater concern. The water table is reported within the SHA to be at a depth of approximately 27 feet below ground surface (ft bgs). The detected chlorinated pesticides all have high distribution coefficients (Kd) and relatively low solubility such that migration to groundwater is unlikely.

2. Establishment of cleanup standards.

Cleanup Levels

The following Method A Cleanup Levels for unrestricted land use and simplified Terrestrial Ecological Evaluation (TEE) soil concentrations have been used at the Site:

Contaminant	Maximum Concentration in Site Soils (mg/kg)	Statewide Background Concentration (mg/kg)	MTCA Cleanup Level (mg/kg)	Simplified TEE Concentration (Table 749-2) (mg/kg)
Arsenic	9.77	7	20^{1}	20
Barium	205	NA	$16,000^2$	1,250
Chromium	39.4	42	2000^{1}	42
Lead	145	17	250^{1}	220
Mercury	0.167	0.07	2^{1}	9

NA = Not available.

1 – Method A cleanup level.

2 – Method B (direct contact, non-cancer) cleanup level.

Contaminant	Maximum Concentration in Site Soils (mg/kg)	MTCA Cleanup Level (mg/kg)	Simplified TEE Concentration (Table 749-2) (mg/kg)
Dieldrin	0.0536	0.063^2	0.17
DDT	0.036	2.9^{2}	1.0^{5}
DDE	0.14	2.9^{2}	1.0^{5}
DDD	0.064	2.4^{3}	1.0^{5}
Alpha chlordane	0.0176	$2.9^{2,4}$	1.0^{4}
Gamma chlordane	0.0101	$2.9^{2,4}$	1.0^{4}

2 – Method B (direct contact cancer) cleanup level.

3 – Method B (direct contact non-cancer) cleanup level.

4 – Cleanup level/concentration for total chlordane.

5 - Concentration for total DDT + DDE + DDD.

<u>Point of Compliance (POC)</u>: Standard, throughout the Site, for soil extending from the surface to 15 feet below ground surface (ft bgs) (direct contact pathway).

<u>Terrestrial Ecological Evaluation (TEE)</u>: A TEE form was submitted to Ecology. The Simplified TEE was found to apply at the Site. None of the detected analytes exceeded the respective simplified TEE soil concentrations for unrestricted land use found in Table 749-2 of MTCA. Based on the Washington Department of Fish & Wildlife (WA DFW) priority habitat map (<u>https://geodataservices.wdfw.wa.gov/hp/phs/</u>), no priority habitats are located on or adjacent to the Property or the Site.

3. Cleanup.

No cleanup level exceedances have been found at the Site which would require further action. Per WAC 173-340-360(2), it is our professional judgment that no further action is required for this cleanup.

Listing of the Site

Based on this opinion, Ecology will initiate the process of removing the Site from our lists of hazardous waste sites, including:

- Hazardous Sites List.
- Confirmed and Suspected Contaminated Sites List.

That process includes public notice and opportunity to comment. Based on the comments received, Ecology will either remove the Site from the applicable lists or withdraw this opinion.

Limitations of the Opinion

1. Opinion does not settle liability with the state.

Liable persons are strictly liable, jointly and severally, for all remedial action costs and for all natural resource damages resulting from the release or releases of hazardous substances at the Site. This opinion **does not**:

- Resolve or alter a person's liability to the state.
- Protect liable persons from contribution claims by third parties.

To settle liability with the state and obtain protection from contribution claims, a person must enter into a consent decree with Ecology under RCW 70.105D.040(4).

2. Opinion does not constitute a determination of substantial equivalence.

To recover remedial action costs from other liable persons under MTCA, one must demonstrate that the action is the substantial equivalent of an Ecology-conducted or Ecology-supervised action. This opinion does not determine whether the action you performed is substantially equivalent. Courts make that determination. *See* RCW 70.105D.080 and WAC 173-340-545.

3. State is immune from liability.

The state, Ecology, and its officers and employees are immune from all liability, and no cause of action of any nature may arise from any act or omission in providing this opinion. *See* RCW 70.105D.030(1)(i).

Termination of Agreement

Thank you for cleaning up the Site under the Voluntary Cleanup Program (VCP). This opinion terminates the VCP Agreement governing this project (#XS0001).

For more information about the VCP and the cleanup process, please visit our web site: <u>www.</u> <u>https://ecology.wa.gov/Spills-Cleanup/Contamination-cleanup/Cleanup-process/Cleanup-options/Voluntary-cleanup-program.</u>

If you have any questions about this opinion or the termination of the Agreement, please contact me by phone at (509) 454-7835 or e-mail at frank.winslow@ecy.wa.gov.

Sincerely,

Frude 1. Winnin

Frank P. Winslow, LHG Toxics Cleanup Program Central Regional Office

FPW: anf

Enclosures: A – Site Description and Diagram

cc: William Rutherford, ADESA

Enclosure A

Site Description and Diagram

Site and Property Description

The subject property is a vacant lot at 2021 Boulevard Rd SE, in Olympia WA that was a former plant nursery. The Site, as defined in MTCA, is "...any site or 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". The Site is located entirely within Thurston County Parcel Number 12824411300.

The property consists of a 0.9 acre vacant lot that was formerly a plant nursery. The property is surrounded by farm and residential properties. To the west and north is a small farm property, and to the south and east (across Boulevard Road) are residences. The Site is in an area of low topographic relief, roughly two miles southeast of downtown Olympia. Soils are reported to be sandy loam.

Sources and Extent of Soil Contamination

As discussed above, heavy metals and chlorinated pesticides were detected in soils at the Site in 2009. Additional soil sampling for chlorinated pesticides were conducted in 2020. None of the analytes were detected above MTCA cleanup levels during either investigation. The chlorinated pesticides are believed to likely be attributable to historical pesticide applications, associated with the plant nursery, or potentially, pre-nursery activities at the property.

Groundwater

No groundwater sampling has been conducted at the Site; however, no soil contamination has been found to suggest a groundwater contamination concern. The water table is reported within the SHA to be at a depth of approximately 27 feet below ground surface (ft bgs). The chlorinated pesticides all have high distribution coefficients (Kd) and low solubility such that migration to groundwater is unlikely.





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June 7, 2021

Brian Barlow 12833 Vail Cut Off Road SW Rainier, WA 98576 <u>barlowauto@hotmail.com</u>

Re: Rescission of No Further Action (NFA) Status for the following Site:

- Site Name: Boulevard Nursery
- Site Address: 2021 Boulevard Road SE, Olympia, WA 98501
- Facility/Site ID: 3749
- Cleanup Site ID: 223
- VCP Project No.: XS0001

Dear Brian Barlow:

The Department of Ecology (Ecology) issued a No Further Action (NFA) determination for the Boulevard Nursery site (Site) on October 30, 2020. Additional data was received by Ecology on May 3, 2021, including laboratory analytical data and a site plan map showing those additional soil sampling locations. The site plan map and a summary table presenting analytical results from soil samples collected on April 22, 2021, are provided in Enclosure A.

One of the soil samples collected on April 22, 2021 had a concentration of Dieldrin at 0.289 milligrams per kilogram (mg/kg). This Dieldrin concentration exceeds the Model Toxics Cleanup Act (MTCA) Method B cleanup level of 0.063 mg/kg. The soil samples were reportedly collected on or adjacent to a pile of soil near the rear of the property.

Based on this information, Ecology rescinds the October 20, 2020 NFA determination under expedited Voluntary Cleanup Program (VCP) project XS0001. The effective date of the rescission is the date of this letter.

Brian Barlow June 7, 2021 Page 2

Next Steps

Ecology will update its records to reflect that Ecology has rescinded the NFA determination for this Site. The Site will be listed in future publications of the <u>Confirmed</u> and <u>Suspected Contaminated Sites List</u>.¹

If you have any questions about the rescission or next steps, please contact me at (360) 407-7226 or at <u>barry.rogowski@ecy.wa.gov</u>.

Sincerely,

Bany Rogowsh.

Barry Rogowski Section Manager Toxics Cleanup Program

Enclosure

cc: William Rutherford, ADESA Environmental Nick Acklam, Ecology Frank Winslow, Ecology

¹ <u>https://apps.ecology.wa.gov/tcpwebreporting/reports/cleanup/contaminated</u>

ENCLOSURE A

Boulevard N						
Samples col	lect Apri	l 22, 202	1			
		Sample				
Investigation	Sample	Depth	DDT	DDD	DDE	Dieldrin
Year	Location	(inches)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Method A Clean	up Level		3	NA	NA	NA
Method B Clean	up Level (c	ancer)	2.9	4.2	2.9	0.063
2009	S-1	12	0.036	0.064	0.14	ND
	S-2	12	0.014	0.034	0.12	0.038
	S-3	12	ND	ND	ND	ND
2020	S-4	12	0.0337	0.0116	0.0296	0.0344
	S-5	12	ND	ND	ND	0.0536
	S-6	12	ND	ND	ND	ND
	S-7	12	ND	ND	ND	ND
2021	1	10	0.202	0.0764	0.0499	0.0460
	2	10	0.0743	ND	0.0319	0.289
	3	14	0.148	ND	0.0516	0.0492


Appendix B

PIONEER TECHNOLOGIES CORPORATION (PTC) FIELD CHECKLIST

Project/Task Name: 2021 Blue Bern Parason Site Location: 2021 Blue Per Farason	dy mpin
Requested By / Date: 2/10/23 JH Work Deadline: 2/24/23	
	COMPLETED
- oversee renoval of all bern to GM' being more	
- photograph + note daily prograp on field forms	
<u>Complete</u> daily tallgate reatings w/ contractor	
- Renove ENTIRE bern including portion on north beyond shown all figure	YES NO
13 + 1 duplicate 6 see locations of samples on Figure	□ YES □ NO
- Collect ~15 samples from base of completed excavation (2 jors	
- Document location using GPS or Measuring wheel	
- Drop of samples on ice to Libby the cold	YES 🗆 NO
- call Joel if any questions/ concerns	YES NO
- concepted additional 10 samples on 2124/23	JES INO
	COMPLETED
\square Poview Docs: Field Figure \square VES \square NO \square Health & Safety Meeting	
A concerned boost A concerned conting	
Agency Not 7 Utility Educate 7 Concrete Coning 17 Fes 1 No by Carl 1 Minom One	
The Purchase / Rent Equip: UYES UNO UPotential Hvv	
Client/Agency Coordination:	
Calibrate Equipment: <u>ND</u> <u>ND</u> <u>ND</u> <u>ND</u> <u>ND</u> <u>ND</u> <u>ND</u> <u>ND</u>	
	,
SAMPLING REQUIREMENTS	
Field Testing:	i
De Lab Testing: Orgenschlanne jesticious na 8081 Laboratory: Libby	
Lab Testing: Standard 5-10 day turnarand time Laboratory:	
Lab Testing: Laboratory:	
FIELD SUPPLIES NEEDED	
Site Map X Camera X Survey Equip / GPS X Vehicle □ Water Level Indicator / Interface Probe	
Std Field Equip (keys, forms, SAP, HASP, PPE, decon, tools)	est Kits
Drilling Equip (PID, references, knife, baggies, tape)	_
🕅 Soil Equip (SS bowls, spoon/shovel, hand auger, pick, sieves) 🔲 IDW: 🗌 Drums 🗱 5-gal bu	ickets
GWM (pump, tubing, gen., compres., bailers, rope/string, PDB)	
Pump / Slug Test Equip (GWM Equip, slug, stopwatch)	

Date: 02/20/2023 Site Lo	cation: 1021 Boule	ward fd se	Site Arrival Time:	;:55 am Site Dep	arture Time : 14:45
WEATHER TEMPERATURE	Clear Sun To 32	32-50	Drizzle 50-70	Rain 70-85 Severe	Snow 85 Up
PEOPLE PRESENT ON-SITI	Michael Kur shellea Pat	ME Kov	ASSOCIATION PINNEER DHE		ON-SITE AND OFF-SITE - 14145 - いいいち
	Nathan Krus	с	DHE	-63 9	6°00 - 14:30

NOTES ON WORK COMPLETED

6:55	Arrived on site
7:20	Excavator delivered on-site (Batteries dead, mechanic was called)
2:07	Mechanic arrived on-site
9.25	BMPS delivered on-site 3 visyuine laid at for time stax-ple
3:50	Began excavating bern onto visquine
2:30	staxed locations for sampling
13:05	began callecting soil samples
13:35	Finished collecting samples.
13:50	departed to deliver samples to lab & came back to site
14:45	departed from ate
	9
0.000	
2	
SIGNAT	TURE: MY/MICHAN DATE: 02/20/20CS
	2.0

ATHED	Clear Su	n	Overcast	C	Drizzle	Rain	>	Snow	
	To 32	32-50			50-70 70-			85 Up	
D Calm		(Med.)		Strong	Seve	evere			
OPLE PRESENT O	N-SITE		NAME		ASSOCIATION		TIME ON	-SITE AND OFF-SITE	
	[Michael Ku		Michael Kurkov PIONEER		ER		6:00 - 8:25	
	T T	1 lathan	Kruse.	DHE			6100 - 8:2	5	
		challon	Dalla	DHE			(at00 - 9:2	5	
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o Anrival	to site								
V 6:10 safet	1 tailoate								
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Vavato Merato		.)!.	1	1 11 1		1			
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ACATION CONTINUE		msolidat	ed stockpi	le, then tar	-ped at conc.	חשבעו			
ALANCO VE MELAN		mselidat	ed stockpi	ik, then tar	ped at conc.	nacal			
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	Clear Sun		Overcast	Drizzle	Rain	1	Snow
	To 32		32-50	50-70	70-8	5	85 Up
NIFERATURE	Calm		Med	Strong	Seve	ere	
	0						
OPLE PRESENT OI	N-SITE		NAME	ASSOCIA	TION	TIME	ON-SITE AND OFF-SITE
	M	chael	Kurkar	PTC		6:00 - 8	3:40
	N	lathen !	Kruse	THE		6-00 - 8	140
	S	nellea 1	Patte	DHE		6:00 - 8:	:40
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						-	
t excavator of depart from	stte	gins re	Stocking ple, \$	pile is tarped			
5 excavator of depart from	ste	gns re	Stocking ple, \$	pile is tarpod			
5 excavator of depart from	ste	gns a	Stocking ple,	pile is tarpod			
5 excavator of 0 depart from	ste	gns a	Stocking ple,	pile is tarpod			
5 excavator up 0 depart from	ste	gus a	Stocking ple,	pile is tarpod			
5 excavator of depart from	ste	gns re	Stocking ple,	pile is tarpod			
5 excavator up 0 depart from	ste	gins re	Stocking ple,	pile is tarpod			
5 excavator of 0 depart from	ste	gus a	Stocking ple,	pile is tarpod			
5 excavator of 0 depart from	ste	gns a	Stocking ple,	pile is tarpod			
5 excavator of 0 depart from	ste	gws (2	Stocking ple,	pile is tarpod			
5 excavator of 0 depart from	serator be	gws (c	Stocking ple,	pile is tarpod			
5 excavator of 0 depart from	ste	gins re	Stocking ple,	pile is tarpod			
5 excavator of D depart from	ste	g ws 12	Stocking ple,	pile is tarpod			
E excavator of depart from	ste	gws (2	Stocking ple,	pile is tarpod			
E excavator of depart from	ste	gws (2	Stocking ple,	pile is tarpod			
E excavator (1) depart from	ste	gws (2	Stocking ple,	pile is tarpod			
5 excavator (1) 9 depart from	secutor be	gws (c	Stocking ple,	pile is tarpod			
5 excavator (1) 0 depart from	Strator be	gws (c	Stocking ple, \$	pile is tarpod			
5 excavator (1) 0 depart from	Ste	g ws (c	Stocking ple, \$	pile is tarpod			
excavator of depart from	secutor be	gws (2	Stocking ple, \$	pile is tarpod			

FATHER	Clear S	un	Overcast		Drizzle	Rain		Snow S	
	10 32)	32-50		50-70	70-85		85 Up	
IND	calm	>	Med.		Strong	Sever	e		
							THE ON		
PEOPLE PRESENT ON-SITE		Michael		017				Line on-site and off-site	
		Nathan	Kruse	DHE	<u></u>		6:00 - 6:20	<u> </u>	
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ES ON WORK COMPLE	ETED								
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Date: 02/24/2023 Site	Location: 2021 B	lvd Rd SE	Site Arrival Time: <u>b</u>	Site Dep	oarture Time : <u>9:45</u>
WEATHER TEMPERATURE WIND	Clear Sun To 32 Calm	Overcast 32-50 Med.	Drizzle 50-70 Strong	Rain 70-85 Severe	Snow 85 Up
PEOPLE PRESENT ON-S	ITE Muchael Noet He Nathan Shellea Jeremy	NAME Kurean Cher Kruse Patte Graham	ASSOCIATION PTC PTC DHE DHE City of Olympia	TIM 6:00 - 6 6:00 - 6 6:00 - 6 6:00 -	E ON-SITE AND OFF-SITE 9:45 1:45 1:45 1:45 6:25

NOTES ON WORK COMPLETED

6:00	arrived on-str	
6:05	Safety tailage	
1:05	Truck's arrived	
	samples collected as excavation was done	(2-9:00)
9.45	digarted from str	,
	Start in the second sec	
		
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<u> </u>		
	\bigcirc	/ /
SIGNA	TURE: Marine	DATE: <u>02/24/2023</u>
	L	

PIONEER DAILY FIELD REPORT

EATHER	clear Sun /	1	Overcast		Drizzle	Rain		Snow
MOEDATUDE	10-32	audy	32-50		50-70	70-85		85 Up
ND	calm		Med.		Strong	Sever	e	
OPLE PRESENT ON SITE		N	AME		ASSOCIATION		TIME ON SIT	TE AND OFF SITE
	Joel	Joel Hecker		PIDNEER		08:30 - 09:40		
	Mich	nel Ku	NOTAN	PIONE	ER		08:30 - 00	1:40
20 - completed ren	ved ber	n are F soil	into the	3 drums	uth ogreen	nent with	City d' Ol	ympia
20 - Completed ren -sampled 2 lo -de-conned eq 40 - departed fro	ved ber noval of rations exponent,	n are F soil (5524 Sealed Faled	1) to the 1) to the 1) to	roknoe 3 drums, 5) at ex ed drums taken t	tents of ad	ent with	City d' Ol excellention ntal Lab	ympia
20 - Completed ren -Sampled 2 lo -de-conned equ 40 - departed fro	ved ber noval of rations pipment,	n are F soil (ss24 Sealed , Sur	ples upp	rohna u 3 drums 5) at ex ed drums taken t	tents of ad	ent with official Environme	City d' Ol excelation ntal Lab.	ympia
20 - Completed ren -Sampled 2 lo -da-conned equ 40 - departed fro	ved ber noval of rations pipment,	n are F soil (ss24 sealed , Sun	ples upe	rohna u 3 drums 5) at ex ed drums taken t	tents of ad	Environme	City d' Ol excelvation ntal Lab.	<u>у</u> три
20 - Completed ren -Sampled 2 lo -de-conned eq 40 - departed Fri	ved ber noval of rations ripment,	m are F soil (SS24 Sealed + San	ples uppe	rohne u 3 drums 5) at ex ed drums taken t	tents of ad	ent with of tional ,	City d' Ol	<u>у</u> три
20 - Completed ren -sampled 2 lo -de-conned equ :40 - departed fro	ved ber noval of rations pipment,	n are F soil (ss24 sealed , San	ples upe	rohna u 3 drums 5) at ex ed drums taken t	itents of ad	Environme	City d' Ol	<u>у</u> три
20 - Completed ren -sampled 2 lo -de-conned equ :40 - departed fro	ved ber noval of rations supment,	n are F soil (ss24 sealed , San	ples uppe	rohne u 3 drums 5) at ex 20 drums taken t	itents of ad	Environal	City d' 01 excevetion ntal Lab	<u>у</u> три
20 - Completed ren -sampled 2 lo -de-conned equ :40 - departed Fri	ved ber noval of rations ripment;	m are F soil (SS24 Sealed + San	ples uppe	rohne u 3 drums 5) at ex ed drums taken t	uth agricents of ad	ent with e) tional ,	City d' 01 excervation Intal Lab	<u>у</u> три
20 - Completed ren -sampled 2 la -de-conned equi :40 - departed Fri	ved ber noval of rations exponent;	m are F soil (SS24 Sealed + Sur	ples upp	rohne u 3 drums 5) at ex ed drums taken t	tents of ad	ent with of tional ,	City of 01	<u>утри</u>
20 - Completed ren -sampled 2 lo -de-conned equi :40 - departed fro	ved ber noval of rations pipment, om site	n are F soil (ss24 sealed , Sun	ples upp	rohne u 3 drums 5) at ex ed drums taken t	itents of ad	Environal	City d' 01 excervation ntal Lab.	<u>у</u> три
20 - Completed ren -Sampled 2 lo -de-conned eq :40 - departed fro	ved ber noval of rations exponent;	m are F soil (ss24 sealed , San	ples uppe	rohna u 3 drums 5) at ex ed drums taken t	itents of ad	ent with ent with entire and a Environment	ntal Lab	<u>у</u> <u>три</u>
20 - Completed ren -sampled 2 lo -de-conned eq :40 - departed Fri	ved ber noval of rations ripment +	m are F soil (SS24 Sealed + San	ples we	rohna u 3 drums 5) at ex ed drums taken t	tents of ad	ent with ent with ent with Environme	ntal Lab	<u>у</u> трих
20 - Completed ren -sampled 2 lo -de-conned eq :40 - departed fro	ved bern noval of rations exponent;	m are F soil (SS24 Sealed + Sur	ples upp	rohne u 3 drums 5) at ex ed drums taken t	tents of ad	ent with of tional ,	ntal Lab	<u>у</u> три.
20 - Completed ren -sampled 2 lo -de-conned equi :40 - departed fro	ved ber noval of rations upment,	n are F soil (ss24 sealed , San	ples uppe	rohne u 3 drums 5) at ex ed drums taken t	itents of ad	Environal	ntal Lab	<u>у</u> <u>три</u>
20 - Completed ren -sampled 2 lo -de-conned equi :40 - departed fro	ved ber noval of rations ripment +	m are F soil (ss24 sealed , San	ples uppe	rohna u 3 drums 5) at ex ed drums taken t	itents of ad	ent with ent with ent with Environme	ntal Lab	<u>у</u> <u>три</u>
20 - Completed ren -sampled 2 la -de-conned equi :40 - departed Fri	ved bern noval of rations reporent +	m are F soil (SS24 Sealed - San	ples uppe	rohne u 3 drums 5) at ex ed drums taken t	tents of ad	Environal	ntal Lab	<u>у</u> три.

Daily Excavation Inspection Report

Site 2021 Boulevard for SE Location of Excavation West sole of farcel Depth bern (approx 5' in height) excavated to -0.5 to -1.0 het below grade Soil Type Contaminated will Dieldrin (topsoil)

ITEMO	CONDITION		DEMADKS		
	good rejected	n/a	REWARKS		
Slope Ratio			Steep, 1:1 approx, was compared		
Shoring		X	b tarped for		
Shielding	,	X	removal on Collowing		
Barricades		X	dues.		
Water Removal		X	0		
Traffic Control		/ •	Field crew maintained stadistance		
Spoil Pile	J		Temporary was tarped		



Daily Excavation Inspection Report

Site 2021 Boulevard Rd DE
Location of Excavation wast side of parcel
Depth approx & height bern Arckpile
Soil Type contaminated with dieldrin (top soil)

ITEMS	aood	CONDITION rejected	n/a	REMARKS
Slope Ratio				AMOX 1:1 Cartin
Shoring			X	1.
Shielding		L	×	
Barricades			X	
Water Removal			X	
Traffic Control	1			Trucks followed same mute sole distance maintainer
Spoil Pile	1	1		anoulidated 3 tapped



Competent Person: Michael Kurkov	
Date: 02/21/2023	Time: 8:00 Am

Daily Excavation Inspection Report

Site 2021 Burlevard Rd SE	
Location of Excavation west site of property	
Depth approx 6.5 remaining fact-pile	
Soil Type (Intaminated with dieldrin (topsoil)	

ITEMS		CONDITION		DEMADKS
	good	rejected	n/a	KEWARKS
Slope Ratio	1			
Shoring		1	X	
Shielding	1		X	
Barricades			~	
Water Removal			X	
Traffic Control				
Spoil Pile				



Daily Excavation Inspection Report

Site 2021 Bouleward Rd SE Lacey WA	
Location of Excavation West side of farcel, additional	0.5-10' excavation due to
Depth 0,5-1.0' additional excavation in 3 areas	dieldrin exceedances.
Soil Type Topsoil contaminated with dieldrin	

ITEMS		CONDITION		DEMADKS		
	good	rejected	n/a	REMARKS		
Slope Ratio	✓			excavated soil added to stock-ple		
Shoring			×			
Shielding			×			
Barricades			X			
Water Removal			×			
Traffic Control						
Spoil Pile				Pile re-stocked 3 tapped		



Competent Person: Michael Kurka	
Date: <u>02/24/2023</u>	Time: <u>9:45 am</u>

Appendix C



Table of Contents

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Photo No. 10	6
Photo No. 11	7
Photo No. 12	7



Photo No. 1

Date: March 2023 (Google) Direction Photo Taken: Vertical Description:

Plan view of parcel prior to berm excavation.







Photo No. 3

Date: 02/20/2023

Direction Photo Taken: South

Description: View of berm excavated to 6 to 12 inches below surrounding grade and temporarily stockpiled immediately East of berm location.



Photo No. 4

Date: 02/20/2023

Direction Photo Taken: South

Description:

View of existing berm location and temporary wattle at completion of berm excavation, and temporary stockpile covered in Visqueen.





Photo No. 5

Date: 02/21/2023

Direction Photo Taken: Southwest

Description: View of truck and trailer being loaded with dieldrincontaminated soil for offsite disposal.



Photo No. 6

Date: 02/22/2023

Direction Photo Taken: West

Description:

View of excavator operator consolidating dieldrin-contaminated soil after all trucks have been loaded for the day.





Photo No. 7

Date: 02/22/2023

Direction Photo Taken: Northwest

Description: View of temporary stockpile of dieldrincontaminated soil after consolidation and covering with Visqueen.



Photo No. 8

Date: 02/24/2023

Direction Photo Taken: East

Description:

View of area of additional excavation to 6 to 12 inches below surrounding grade around sample SS06, which had an exceedance of dieldrin screening level.





Photo No. 9

Date: 02/24/2023

Direction Photo Taken: West

Description: View of area of additional excavation to 6 to 12 inches below surrounding grade around sample SS09, which had an exceedance of dieldrin screening level.



Photo No. 10

Date: 02/24/2023

Direction Photo Taken: South

Description:

View of area of additional excavation to 6 to 12 inches below surrounding grade around sample SS09, which had an exceedance of dieldrin screening level.





Photo No. 11	
Date: 02/27/2023	
Direction Photo Taken: South	
Description: View of existing berm location after excavation, seeding, and strawing.	

Photo No. 12

Date: 03/30/2023

Direction Photo Taken: South

Description:

View of area of additional excavation to 6 to 12 inches below surrounding grade beyond sample SS22, which had an exceedance of dieldrin screening level. The additional excavation was hand dug around tree roots.



Appendix D



Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957

February 23, 2023

Joel Hecker Pioneer Technologies Corporation 5205 Corporate Center Ct SE, Suite C Lacey, WA 98503

Dear Joel Hecker:

Please find enclosed the analytical data report for the 2021 Blvd Interim Action project located in Olympia, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of within 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Shy I Uni

Sherry L. Chilcutt Senior Chemist Libby Environmental, Inc.

Libby Environmen	tal,	Inc.		Cł	nain d	of Cu	stoc	y Re	cor	d				1	www.LibbyB	Environmental.com
3322 South Bay Road NE Olympia, WA 98506	Pl Fa	n: 360-352 ax: 360-352	-2110 -4154			Date:	Febru	ary 2	0. 2	023		Pa	ge:		1 0	f
Client: DI OSCO /						Projec	ct Mana	ger: The	A	ecker	r					
Address: 5205 Contract	Ch.	r ct.	Sr			Projec	ct Name	: 2021	GI	ud Ir	tern	Act	0			
City: Larey		State:	IA Zip:	98503		Locati	ion: ()	m.n.a				Cit	y, Sta	te:	WA	
Phone: 361- 525- 2739		Fax:				Collec	ctor: M	chael	K	rkov		Da	te of (Collec	tion:	
Client Project # 2021	3/vol.					Email	Hec	kerj(eur	pione	es.c	om				
Sample Number	Dept	h Time	Sample Type	Container Type	500	E C C		BOLLAND PH	01 00 00 00 00 00 00 00 00 00 00 00 00 0	5 5 5 1	APH OF	8-10 1-8-2011	008210 008210	AN CO	Field	Notes
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450-554-0.5-1-0223																
5 50- 555 -0.5-1-0223																
6 50-586-0.5-1-0223																
7 60-557 -0.5-1-0223																
8 50- 558 -0.5-1-0223																
9 50 - 559 -0.5-1 -0223																
10 00 - 5510 - 05-1 - 0223																
11 50 - 5511 -0.5-1 -0223																
12 50- 3512-0.5-1-0223																
13 60 - 5513 - 0.5-1 - 0223																
1- 30 - 3514 -0.5 - 0225																
1550-551-0.5-1-0223-01	4												(
16				6												
17																
Relinquished by:	AU -	14:14	Date / Time	Received by:	B		7~700	Date	/ Time	Sa	mple	Recei	ot NI	Rem	arks:	results
Relinquished by:	ov (WW .	Date / Time	Received :	Ŋ-		2 20-1	Date	/ Time	Cooler Te	mp.	1	°C	1	Thus	day (nous
				94						Sample T	emp.		°C	007	prenous	discussion
Relinquished by:			Date / Time	Received by:				Date	/ Time	Total Nur Contai	nber of ners			TAT	24HR	48HR 5-DAY

LEGAL ACTION CLAUSE: In the event	of default of payment and	d/or failure to pay.	Client agrees to p	bay the costs of	collection including court costs an	d reasonable attorney	fees to be determined by a court of law

Distribution. White - Lab, Yellow - Originator

Libby Environmental, Inc.

2021 BLVD INTERIM ACTION PROJECT Pioneer Technologies Corporation Libby Project # L23B082 Date Received 2/20/2023 Time Received 2:14 PM 3322 South Bay Road NE Olympia, WA 98506 Phone: (360) 352-2110 FAX: (360) 352-4154 Email: libbyenv@gmail.com

Received By RJK

Sample Receipt Checklist

Chain of Custody				
1. Is the Chain of Custody is complete?	✓ Yes	🗌 No		
2. How was the sample delivered?	✓ Hand Delivered	Picked Up		Shipped
Log In				
3. Cooler or Shipping Container is present.	✓ Yes	🗌 No		N/A
4. Cooler or Shipping Container is in good condition.	✓ Yes	🗌 No		N/A
5. Cooler or Shipping Container has Custody Seals present.	Yes	✓ No		N/A
6. Was an attempt made to cool the samples?	✓ Yes	🗌 No		N/A
7. Temperature of cooler (0°C to 8°C recommended)	-8.1	°C		
8. Temperature of sample(s) (0°C to 8°C recommended)	-4.3	°C		
9. Did all containers arrive in good condition (unbroken)?	✓ Yes	🗌 No		
10. Is it clear what analyses were requested?	✓ Yes	🗌 No		
11. Did container labels match Chain of Custody?	✓ Yes	🗌 No		
12. Are matrices correctly identified on Chain of Custody?	✓ Yes	🗌 No		
13. Are correct containers used for the analysis indicated?	✓ Yes	🗌 No		
14. Is there sufficient sample volume for indicated analysis?	✓ Yes	🗌 No		
15. Were all containers properly preserved per each analysis?	✓ Yes	🗌 No		
16. Were VOA vials collected correctly (no headspace)?	Yes	🗌 No		✓ N/A
17. Were all holding times able to be met?	✓ Yes	🗌 No		
Discrepancies/ Notes				
18. Was client notified of all discrepancies?	Yes	🗌 No		✓ N/A
Person Notified:		-	Date:	
By Whom:		-	Via:	
Regarding:		_		
19. Comments.				



3600 Fremont Ave. N. Seattle, WA 98103 T: (206) 352-3790 F: (206) 352-7178 info@fremontanalytical.com

Libby Environmental Sherry Chilcutt 3322 South Bay Road NE Olympia, WA 98506

RE: 2021 Blvd Interim Action Work Order Number: 2302366

February 23, 2023

Attention Sherry Chilcutt:

Fremont Analytical, Inc. received 14 sample(s) on 2/21/2023 for the analyses presented in the following report.

Organochlorine Pesticides by EPA Method 8081 Sample Moisture (Percent Moisture)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910



CLIENT: Project: Work Order:	Libby Environmental 2021 Blvd Interim Action 2302366	Work Order S	Sample Summary
Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2302366-001	SO-SS1-0.5-1-0223	02/20/2023 12:00 PM	02/21/2023 12:02 PM
2302366-002	SO-SS2-0.5-1-0223	02/20/2023 12:00 PM	02/21/2023 12:02 PM
2302366-003	SO-SS3-0.5-1-0223	02/20/2023 12:00 PM	02/21/2023 12:02 PM
2302366-004	SO-SS4-0.5-1-0223	02/20/2023 12:00 PM	02/21/2023 12:02 PM
2302366-005	SO-SS5-0.5-1-0223	02/20/2023 12:00 PM	02/21/2023 12:02 PM
2302366-006	SO-SS6-0.5-1-0223	02/20/2023 12:00 PM	02/21/2023 12:02 PM
2302366-007	SO-SS7-0.5-1-0223	02/20/2023 12:00 PM	02/21/2023 12:02 PM
2302366-008	SO-SS8-0.5-1-0223	02/20/2023 12:00 PM	02/21/2023 12:02 PM
2302366-009	SO-SS9-0.5-1-0223	02/20/2023 12:00 PM	02/21/2023 12:02 PM
2302366-010	SO-SS10-0.5-1-0223	02/20/2023 12:00 PM	02/21/2023 12:02 PM
2302366-011	SO-SS11-0.5-1-0223	02/20/2023 12:00 PM	02/21/2023 12:02 PM
2302366-012	SO-SS12-0.5-1-0223	02/20/2023 12:00 PM	02/21/2023 12:02 PM
2302366-013	SO-SS13-0.5-1-0223	02/20/2023 12:00 PM	02/21/2023 12:02 PM
2302366-014	SO-SS1-0.5-1-0223-01	02/20/2023 12:00 PM	02/21/2023 12:02 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned



Case Narrative

WO#: **2302366** Date: **2/23/2023**

CLIENT:Libby EnvironmentalProject:2021 Blvd Interim Action

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers & Acronyms



WO#: **2302366** Date Reported: **2/23/2023**

Qualifiers:

- * Flagged value is not within established control limits
- B Analyte detected in the associated Method Blank
- D Dilution was required
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- I Analyte with an internal standard that does not meet established acceptance criteria
- J Analyte detected below Reporting Limit
- N Tentatively Identified Compound (TIC)
- Q Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S Spike recovery outside accepted recovery limits
- ND Not detected at the Reporting Limit
- R High relative percent difference observed

Acronyms:

%Rec - Percent Recovery

- CCB Continued Calibration Blank
- CCV Continued Calibration Verification
- DF Dilution Factor
- DUP Sample Duplicate
- HEM Hexane Extractable Material
- ICV Initial Calibration Verification
- LCS/LCSD Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL Maximum Contaminant Level
- MB or MBLANK Method Blank
- MDL Method Detection Limit
- MS/MSD Matrix Spike / Matrix Spike Duplicate
- PDS Post Digestion Spike
- Ref Val Reference Value
- REP Sample Replicate
- RL Reporting Limit
- RPD Relative Percent Difference
- SD Serial Dilution
- SGT Silica Gel Treatment
- SPK Spike
- Surr Surrogate



Client: Libby Environmental	Collection Date: 2/20/2023 12:00:00 PM					
Project: 2021 Blvd Interim Action Lab ID: 2302366-001 Client Sample ID: SO-SS1-0.5-1-02	23			Matrix: So	oil	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides by EP	A Method 8	<u>081</u>		Batch	ID:	39504 Analyst: KJ
Toxaphene	ND	0.0747		mg/Kg-dry	1	2/22/2023 5:37:18 PM
Alpha BHC	ND	0.0107		mg/Kg-dry	1	2/22/2023 5:37:18 PM
Beta BHC	ND	0.0107		mg/Kg-dry	1	2/22/2023 5:37:18 PM
Gamma BHC (Lindane)	ND	0.0107		mg/Kg-dry	1	2/22/2023 5:37:18 PM
Delta BHC	ND	0.0107		mg/Kg-dry	1	2/22/2023 5:37:18 PM
Heptachlor	ND	0.0107		mg/Kg-dry	1	2/22/2023 5:37:18 PM
Aldrin	ND	0.0107		mg/Kg-dry	1	2/22/2023 5:37:18 PM
Heptachlor epoxide	ND	0.0107		mg/Kg-dry	1	2/22/2023 5:37:18 PM
gamma-Chlordane	ND	0.0107		mg/Kg-dry	1	2/22/2023 5:37:18 PM
Endosulfan I	ND	0.0107		mg/Kg-dry	1	2/22/2023 5:37:18 PM
alpha-Chlordane	ND	0.0107		mg/Kg-dry	1	2/22/2023 5:37:18 PM
Dieldrin	0.00729	0.0107	J	mg/Kg-dry	1	2/22/2023 5:37:18 PM
4,4´-DDE	ND	0.0107		mg/Kg-dry	1	2/22/2023 5:37:18 PM
Endrin	ND	0.0160		mg/Kg-dry	1	2/22/2023 5:37:18 PM
Endosulfan II	ND	0.0160		mg/Kg-dry	1	2/22/2023 5:37:18 PM
4,4´-DDD	ND	0.0160		mg/Kg-dry	1	2/22/2023 5:37:18 PM
Endrin aldehyde	ND	0.0171		mg/Kg-dry	1	2/22/2023 5:37:18 PM
Endosulfan sulfate	ND	0.0160		mg/Kg-dry	1	2/22/2023 5:37:18 PM
4,4´-DDT	ND	0.0171	Q	mg/Kg-dry	1	2/22/2023 5:37:18 PM
Endrin ketone	ND	0.0213		mg/Kg-dry	1	2/22/2023 5:37:18 PM
Methoxychlor	ND	0.0213	Q	mg/Kg-dry	1	2/22/2023 5:37:18 PM
Surr: Decachlorobiphenyl	96.5	12.7 - 168		%Rec	1	2/22/2023 5:37:18 PM
Surr: Tetrachloro-m-xylene	103	66.6 - 140		%Rec	1	2/22/2023 5:37:18 PM
NOTES:						
Q - Associated calibration verification is below	w acceptance ci	iteria. Result ma	y be low-bia	ased.		
Sample Moisture (Percent Moistur	<u>re)</u>			Batch	ID:	R81991 Analyst: MP
Percent Moisture	10.8	0.500		wt%	1	2/21/2023 1:39:08 PM



Client: Libby Environmental	Collection Date: 2/20/2023 12:00:00 PM					
Project: 2021 Bive Interim Action Lab ID: 2302366-002 Client Sample ID: SO-SS2-0.5-1-023	23			Matrix: So	oil	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides by EP	A Method 8	<u>081</u>		Batch	ID:	39504 Analyst: KJ
Toxaphene	ND	0.0795		mg/Kg-dry	1	2/22/2023 6:06:32 PM
Alpha BHC	ND	0.0114		mg/Kg-dry	1	2/22/2023 6:06:32 PM
Beta BHC	ND	0.0114		mg/Kg-dry	1	2/22/2023 6:06:32 PM
Gamma BHC (Lindane)	ND	0.0114		mg/Kg-dry	1	2/22/2023 6:06:32 PM
Delta BHC	ND	0.0114		mg/Kg-dry	1	2/22/2023 6:06:32 PM
Heptachlor	ND	0.0114		mg/Kg-dry	1	2/22/2023 6:06:32 PM
Aldrin	ND	0.0114		mg/Kg-dry	1	2/22/2023 6:06:32 PM
Heptachlor epoxide	ND	0.0114		mg/Kg-dry	1	2/22/2023 6:06:32 PM
gamma-Chlordane	ND	0.0114		mg/Kg-dry	1	2/22/2023 6:06:32 PM
Endosulfan I	ND	0.0114		mg/Kg-dry	1	2/22/2023 6:06:32 PM
alpha-Chlordane	ND	0.0114		mg/Kg-dry	1	2/22/2023 6:06:32 PM
Dieldrin	0.00873	0.0114	J	mg/Kg-dry	1	2/22/2023 6:06:32 PM
4,4´-DDE	0.00807	0.0114	J	mg/Kg-dry	1	2/22/2023 6:06:32 PM
Endrin	ND	0.0170		mg/Kg-dry	1	2/22/2023 6:06:32 PM
Endosulfan II	ND	0.0170		mg/Kg-dry	1	2/22/2023 6:06:32 PM
4,4´-DDD	ND	0.0170		mg/Kg-dry	1	2/22/2023 6:06:32 PM
Endrin aldehyde	ND	0.0182		mg/Kg-dry	1	2/22/2023 6:06:32 PM
Endosulfan sulfate	ND	0.0170		mg/Kg-dry	1	2/22/2023 6:06:32 PM
4,4´-DDT	0.00641	0.0182	JQ	mg/Kg-dry	1	2/22/2023 6:06:32 PM
Endrin ketone	ND	0.0227		mg/Kg-dry	1	2/22/2023 6:06:32 PM
Methoxychlor	ND	0.0227	Q	mg/Kg-dry	1	2/22/2023 6:06:32 PM
Surr: Decachlorobiphenyl	109	12.7 - 168		%Rec	1	2/22/2023 6:06:32 PM
Surr: Tetrachloro-m-xylene	106	66.6 - 140		%Rec	1	2/22/2023 6:06:32 PM
NOTES:						
Q - Associated calibration verification is below	w acceptance cr	iteria. Result ma	y be low-bia	ased.		
Sample Moisture (Percent Moistur	<u>re)</u>			Batch	ID:	R81991 Analyst: MP
Percent Moisture	20.1	0.500		wt%	1	2/21/2023 1:39:08 PM



Client: Libby Environmental	Collection Date: 2/20/2023 12:00:00 PM					
Project: 2021 Bivd Interim Action Lab ID: 2302366-003 Client Sample ID: SO-SS3-0.5-1-02	23			Matrix: So	oil	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides by EP	A Method 8	<u>081</u>		Batch	ID:	39504 Analyst: KJ
Toxaphene	ND	0.0718		mg/Kg-dry	1	2/22/2023 6:16:15 PM
Alpha BHC	ND	0.0103		mg/Kg-dry	1	2/22/2023 6:16:15 PM
Beta BHC	ND	0.0103		mg/Kg-dry	1	2/22/2023 6:16:15 PM
Gamma BHC (Lindane)	ND	0.0103		mg/Kg-dry	1	2/22/2023 6:16:15 PM
Delta BHC	ND	0.0103		mg/Kg-dry	1	2/22/2023 6:16:15 PM
Heptachlor	ND	0.0103		mg/Kg-dry	1	2/22/2023 6:16:15 PM
Aldrin	ND	0.0103		mg/Kg-dry	1	2/22/2023 6:16:15 PM
Heptachlor epoxide	ND	0.0103		mg/Kg-dry	1	2/22/2023 6:16:15 PM
gamma-Chlordane	ND	0.0103		mg/Kg-dry	1	2/22/2023 6:16:15 PM
Endosulfan I	ND	0.0103		mg/Kg-dry	1	2/22/2023 6:16:15 PM
alpha-Chlordane	ND	0.0103		mg/Kg-dry	1	2/22/2023 6:16:15 PM
Dieldrin	0.00483	0.0103	J	mg/Kg-dry	1	2/22/2023 6:16:15 PM
4.4´-DDE	0.00408	0.0103	J	mg/Kg-dry	1	2/22/2023 6:16:15 PM
Endrin	ND	0.0154		mg/Kg-dry	1	2/22/2023 6:16:15 PM
Endosulfan II	ND	0.0154		mg/Kg-dry	1	2/22/2023 6:16:15 PM
4.4´-DDD	ND	0.0154		mg/Kg-dry	1	2/22/2023 6:16:15 PM
Endrin aldehyde	ND	0.0164		mg/Kg-dry	1	2/22/2023 6:16:15 PM
Endosulfan sulfate	ND	0.0154		mg/Kg-dry	1	2/22/2023 6:16:15 PM
4,4´-DDT	0.00702	0.0164	JQ	mg/Kg-dry	1	2/22/2023 6:16:15 PM
Endrin ketone	ND	0.0205		mg/Kg-dry	1	2/22/2023 6:16:15 PM
Methoxychlor	ND	0.0205	Q	mg/Kg-dry	1	2/22/2023 6:16:15 PM
Surr: Decachlorobiphenyl	109	12.7 - 168		%Rec	1	2/22/2023 6:16:15 PM
Surr: Tetrachloro-m-xylene	111	66.6 - 140		%Rec	1	2/22/2023 6:16:15 PM
NOTES:						
Q - Associated calibration verification is below	w acceptance cr	iteria. Result ma	y be low-bia	ased.		
Sample Moisture (Percent Moistur	<u>re)</u>			Batch	ID:	R81991 Analyst: MP
Percent Moisture	14.8	0.500		wt%	1	2/21/2023 1:39:08 PM



Client: Libby Environmental	Collection Date: 2/20/2023 12:00:00 PM					
Lab ID: 2302366-004	22			Matrix: Sc	oil	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides by EP	A Method 8	<u>081</u>		Batch	ID:	39504 Analyst: KJ
Toxaphene	ND	0.0684		mg/Kg-dry	1	2/22/2023 6:25:58 PM
Alpha BHC	ND	0.00977		ma/Ka-drv	1	2/22/2023 6:25:58 PM
Beta BHC	ND	0.00977		ma/Ka-drv	1	2/22/2023 6:25:58 PM
Gamma BHC (Lindane)	ND	0.00977		ma/Ka-drv	1	2/22/2023 6:25:58 PM
Delta BHC	ND	0.00977		mg/Kg-dry	1	2/22/2023 6:25:58 PM
Heptachlor	ND	0.00977		mg/Kg-dry	1	2/22/2023 6:25:58 PM
Aldrin	ND	0.00977		mg/Kg-dry	1	2/22/2023 6:25:58 PM
Heptachlor epoxide	ND	0.00977		mg/Kg-dry	1	2/22/2023 6:25:58 PM
gamma-Chlordane	0.00387	0.00977	J	mg/Kg-dry	1	2/22/2023 6:25:58 PM
Endosulfan I	ND	0.00977		mg/Kg-dry	1	2/22/2023 6:25:58 PM
alpha-Chlordane	0.0118	0.00977		mg/Kg-dry	1	2/22/2023 6:25:58 PM
Dieldrin	0.0518	0.00977		mg/Kg-dry	1	2/22/2023 6:25:58 PM
4,4´-DDE	0.0166	0.00977		mg/Kg-dry	1	2/22/2023 6:25:58 PM
Endrin	ND	0.0146		mg/Kg-dry	1	2/22/2023 6:25:58 PM
Endosulfan II	ND	0.0146		mg/Kg-dry	1	2/22/2023 6:25:58 PM
4,4´-DDD	ND	0.0146		mg/Kg-dry	1	2/22/2023 6:25:58 PM
Endrin aldehyde	ND	0.0156		mg/Kg-dry	1	2/22/2023 6:25:58 PM
Endosulfan sulfate	ND	0.0146		mg/Kg-dry	1	2/22/2023 6:25:58 PM
4,4´-DDT	0.00863	0.0156	JQ	mg/Kg-dry	1	2/22/2023 6:25:58 PM
Endrin ketone	ND	0.0195		mg/Kg-dry	1	2/22/2023 6:25:58 PM
Methoxychlor	ND	0.0195	Q	mg/Kg-dry	1	2/22/2023 6:25:58 PM
Surr: Decachlorobiphenyl	101	12.7 - 168		%Rec	1	2/22/2023 6:25:58 PM
Surr: Tetrachloro-m-xylene	114	66.6 - 140		%Rec	1	2/22/2023 6:25:58 PM
NOTES:						
Q - Associated calibration verification is belo	w acceptance ci	riteria. Result ma	y be low-bia	ased.		
Sample Moisture (Percent Moistu	<u>re)</u>			Batch	ID:	R81991 Analyst: MP
Percent Moisture	12.2	0.500		wt%	1	2/21/2023 1:39:08 PM



Client: Libby Environmental	Collection Date: 2/20/2023 12:00:00 PM					
Project: 2021 Blvd Interim Action Lab ID: 2302366-005 Client Sample ID: SO SSE 0.5.1.02	22			Matrix: So	oil	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides by EPA	A Method 8	<u>081</u>		Batch	ID:	39504 Analyst: KJ
Toxaphene	ND	0.423	D	mg/Kg-dry	5	2/22/2023 6:35:44 PM
Alpha BHC	ND	0.0604	D	ma/Ka-drv	5	2/22/2023 6:35:44 PM
Beta BHC	ND	0.0604	D	mg/Kg-dry	5	2/22/2023 6:35:44 PM
Gamma BHC (Lindane)	ND	0.0604	D	mg/Kg-dry	5	2/22/2023 6:35:44 PM
Delta BHC	ND	0.0604	D	mg/Kg-dry	5	2/22/2023 6:35:44 PM
Heptachlor	ND	0.0604	D	mg/Kg-dry	5	2/22/2023 6:35:44 PM
Aldrin	ND	0.0604	D	mg/Kg-dry	5	2/22/2023 6:35:44 PM
Heptachlor epoxide	ND	0.0604	D	mg/Kg-dry	5	2/22/2023 6:35:44 PM
gamma-Chlordane	ND	0.0604	D	mg/Kg-dry	5	2/22/2023 6:35:44 PM
Endosulfan I	ND	0.0604	D	mg/Kg-dry	5	2/22/2023 6:35:44 PM
alpha-Chlordane	ND	0.0604	D	mg/Kg-dry	5	2/22/2023 6:35:44 PM
Dieldrin	0.0278	0.0604	DJ	mg/Kg-dry	5	2/22/2023 6:35:44 PM
4,4'-DDE	0.0767	0.0604	D	mg/Kg-dry	5	2/22/2023 6:35:44 PM
Endrin	0.105	0.0906	D	mg/Kg-dry	5	2/22/2023 6:35:44 PM
Endosulfan II	ND	0.0906	D	mg/Kg-dry	5	2/22/2023 6:35:44 PM
4,4´-DDD	0.0606	0.0906	DJ	mg/Kg-dry	5	2/22/2023 6:35:44 PM
Endrin aldehyde	ND	0.0966	D	mg/Kg-dry	5	2/22/2023 6:35:44 PM
Endosulfan sulfate	ND	0.0906	D	mg/Kg-dry	5	2/22/2023 6:35:44 PM
4,4´-DDT	0.0616	0.0966	DJQ	mg/Kg-dry	5	2/22/2023 6:35:44 PM
Endrin ketone	ND	0.121	D	mg/Kg-dry	5	2/22/2023 6:35:44 PM
Methoxychlor	ND	0.121	DQ	mg/Kg-dry	5	2/22/2023 6:35:44 PM
Surr: Decachlorobiphenyl	84.2	12.7 - 168	D	%Rec	5	2/22/2023 6:35:44 PM
Surr: Tetrachloro-m-xylene	95.5	66.6 - 140	D	%Rec	5	2/22/2023 6:35:44 PM
NOTES:						
Q - Associated calibration verification is below	v acceptance cr	riteria. Result ma	y be low-bia	ased.		
Sample Moisture (Percent Moistur	<u>e)</u>			Batch	ID:	R81991 Analyst: MP
Percent Moisture	19.0	0.500		wt%	1	2/21/2023 1:39:08 PM



 Work Order:
 2302366

 Date Reported:
 2/23/2023

Client: Libby Environmental				Collection	Date:	2/20/2023 12:00:00 PM
Project: 2021 Blvd Interim Action						
I ah ID: 2302366-006				Matrix: Sc	vil	
Client Semple ID: SO SSC 0 5 1 022	22				///	
Client Sample ID: 50-556-0.5-1-022	23					
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides by EPA	Method 8	<u>081</u>		Batch	ID: 39	9504 Analyst: KJ
Toxaphene	ND	0.406	D	mg/Kg-dry	5	2/22/2023 6:45:28 PM
Alpha BHC	ND	0.0581	D	mg/Kg-dry	5	2/22/2023 6:45:28 PM
Beta BHC	ND	0.0581	D	mg/Kg-dry	5	2/22/2023 6:45:28 PM
Gamma BHC (Lindane)	ND	0.0581	D	mg/Kg-dry	5	2/22/2023 6:45:28 PM
Delta BHC	ND	0.0581	D	mg/Kg-dry	5	2/22/2023 6:45:28 PM
Heptachlor	ND	0.0581	D	mg/Kg-dry	5	2/22/2023 6:45:28 PM
Aldrin	ND	0.0581	D	mg/Kg-dry	5	2/22/2023 6:45:28 PM
Heptachlor epoxide	ND	0.0581	D	mg/Kg-dry	5	2/22/2023 6:45:28 PM
gamma-Chlordane	ND	0.0581	D	mg/Kg-dry	5	2/22/2023 6:45:28 PM
Endosulfan I	ND	0.0581	D	mg/Kg-dry	5	2/22/2023 6:45:28 PM
alpha-Chlordane	ND	0.0581	D	mg/Kg-dry	5	2/22/2023 6:45:28 PM
Dieldrin	0.0689	0.0581	D	mg/Kg-dry	5	2/22/2023 6:45:28 PM
4,4´-DDE	0.0300	0.0581	DJ	mg/Kg-dry	5	2/22/2023 6:45:28 PM
Endrin	ND	0.0871	D	mg/Kg-dry	5	2/22/2023 6:45:28 PM
Endosulfan II	ND	0.0871	D	mg/Kg-dry	5	2/22/2023 6:45:28 PM
4,4´-DDD	ND	0.0871	D	mg/Kg-dry	5	2/22/2023 6:45:28 PM
Endrin aldehyde	ND	0.0929	D	mg/Kg-dry	5	2/22/2023 6:45:28 PM
Endosulfan sulfate	ND	0.0871	D	mg/Kg-dry	5	2/22/2023 6:45:28 PM
4,4´-DDT	ND	0.0929	DQ	mg/Kg-dry	5	2/22/2023 6:45:28 PM
Endrin ketone	ND	0.116	D	mg/Kg-dry	5	2/22/2023 6:45:28 PM
Methoxychlor	ND	0.116	DQ	mg/Kg-dry	5	2/22/2023 6:45:28 PM
Surr: Decachlorobiphenyl	82.7	12.7 - 168	D	%Rec	5	2/22/2023 6:45:28 PM
Surr: Tetrachloro-m-xylene	94.2	66.6 - 140	D	%Rec	5	2/22/2023 6:45:28 PM
NOTES:						
Q - Associated calibration verification is below	/ acceptance cr	iteria. Result ma	y be low-bia	ased.		
Sample Moisture (Percent Moistur	<u>e)</u>			Batch	ID: R	81991 Analyst: MP

Percent Moisture

22.9

0.500

wt%

1

2/21/2023 1:39:08 PM



 Work Order:
 2302366

 Date Reported:
 2/23/2023

Client: Libby Environmental				Collection	Date:	2/20/2023 12:00:00 PM
Project: 2021 Blvd Interim Action						
Lab ID: 2302366-007				Matrix: So	bil	
Client Sample ID: SO-SS7-0.5-1-022	23					
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides by EPA	Method 8	<u>081</u>		Batch	n ID: 39	9504 Analyst: KJ
Toxaphene	ND	0.375	D	mg/Kg-dry	5	2/22/2023 6:55:13 PM
Alpha BHC	ND	0.0535	D	mg/Kg-dry	5	2/22/2023 6:55:13 PM
Beta BHC	ND	0.0535	D	mg/Kg-dry	5	2/22/2023 6:55:13 PM
Gamma BHC (Lindane)	ND	0.0535	D	mg/Kg-dry	5	2/22/2023 6:55:13 PM
Delta BHC	ND	0.0535	D	mg/Kg-dry	5	2/22/2023 6:55:13 PM
Heptachlor	ND	0.0535	D	mg/Kg-dry	5	2/22/2023 6:55:13 PM
Aldrin	ND	0.0535	D	mg/Kg-dry	5	2/22/2023 6:55:13 PM
Heptachlor epoxide	ND	0.0535	D	mg/Kg-dry	5	2/22/2023 6:55:13 PM
gamma-Chlordane	ND	0.0535	D	mg/Kg-dry	5	2/22/2023 6:55:13 PM
Endosulfan I	ND	0.0535	D	mg/Kg-dry	5	2/22/2023 6:55:13 PM
alpha-Chlordane	ND	0.0535	D	mg/Kg-dry	5	2/22/2023 6:55:13 PM
Dieldrin	0.0600	0.0535	D	mg/Kg-dry	5	2/22/2023 6:55:13 PM
4,4´-DDE	0.0478	0.0535	DJ	mg/Kg-dry	5	2/22/2023 6:55:13 PM
Endrin	0.0453	0.0803	DJ	mg/Kg-dry	5	2/22/2023 6:55:13 PM
Endosulfan II	ND	0.0803	D	mg/Kg-dry	5	2/22/2023 6:55:13 PM
4,4´-DDD	ND	0.0803	D	mg/Kg-dry	5	2/22/2023 6:55:13 PM
Endrin aldehyde	ND	0.0856	D	mg/Kg-dry	5	2/22/2023 6:55:13 PM
Endosulfan sulfate	ND	0.0803	D	mg/Kg-dry	5	2/22/2023 6:55:13 PM
4,4´-DDT	0.0764	0.0856	DJQ	mg/Kg-dry	5	2/22/2023 6:55:13 PM
Endrin ketone	ND	0.107	D	mg/Kg-dry	5	2/22/2023 6:55:13 PM
Methoxychlor	ND	0.107	DQ	mg/Kg-dry	5	2/22/2023 6:55:13 PM
Surr: Decachlorobiphenyl	91.7	12.7 - 168	D	%Rec	5	2/22/2023 6:55:13 PM
Surr: Tetrachloro-m-xylene	91.9	66.6 - 140	D	%Rec	5	2/22/2023 6:55:13 PM
NOTES:						
Q - Associated calibration verification is below	v acceptance c	riteria. Result ma	y be low-bi	ased.		
Sample Moisture (Percent Moistur	<u>e)</u>			Batch	ID: R	81991 Analyst: MP

Percent Moisture

16.5

0.500

wt%

1

2/21/2023 1:39:08 PM



Client: Libby Environmental	Collection Date: 2/20/2023 12:00:00 PM					
Project: 2021 Blvd Interim Action						
Lab ID: 2302366-008				Matrix: So	oil	
Client Sample ID: SO-SS8-0.5-1-022	23					
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides by EP/	A Method 8	<u>081</u>		Batch	ID:	39504 Analyst: KJ
Toxaphene	ND	0.394	D	mg/Kg-dry	5	2/22/2023 7:04:58 PM
Alpha BHC	ND	0.0563	D	mg/Kg-dry	5	2/22/2023 7:04:58 PM
Beta BHC	ND	0.0563	D	mg/Kg-dry	5	2/22/2023 7:04:58 PM
Gamma BHC (Lindane)	ND	0.0563	D	mg/Kg-dry	5	2/22/2023 7:04:58 PM
Delta BHC	ND	0.0563	D	mg/Kg-dry	5	2/22/2023 7:04:58 PM
Heptachlor	ND	0.0563	D	mg/Kg-dry	5	2/22/2023 7:04:58 PM
Aldrin	ND	0.0563	D	mg/Kg-dry	5	2/22/2023 7:04:58 PM
Heptachlor epoxide	ND	0.0563	D	mg/Kg-dry	5	2/22/2023 7:04:58 PM
gamma-Chlordane	ND	0.0563	D	mg/Kg-dry	5	2/22/2023 7:04:58 PM
Endosulfan I	ND	0.0563	D	mg/Kg-dry	5	2/22/2023 7:04:58 PM
alpha-Chlordane	ND	0.0563	D	mg/Kg-dry	5	2/22/2023 7:04:58 PM
Dieldrin	0.0306	0.0563	DJ	mg/Kg-dry	5	2/22/2023 7:04:58 PM
4,4´-DDE	0.155	0.0563	D	mg/Kg-dry	5	2/22/2023 7:04:58 PM
Endrin	0.0322	0.0844	DJ	mg/Kg-dry	5	2/22/2023 7:04:58 PM
Endosulfan II	ND	0.0844	D	mg/Kg-dry	5	2/22/2023 7:04:58 PM
4,4´-DDD	0.0511	0.0844	DJ	mg/Kg-dry	5	2/22/2023 7:04:58 PM
Endrin aldehyde	ND	0.0901	D	mg/Kg-dry	5	2/22/2023 7:04:58 PM
Endosulfan sulfate	ND	0.0844	D	mg/Kg-dry	5	2/22/2023 7:04:58 PM
4,4´-DDT	0.0480	0.0901	DJQ	mg/Kg-dry	5	2/22/2023 7:04:58 PM
Endrin ketone	ND	0.113	D	mg/Kg-dry	5	2/22/2023 7:04:58 PM
Methoxychlor	ND	0.113	DQ	mg/Kg-dry	5	2/22/2023 7:04:58 PM
Surr: Decachlorobiphenyl	92.8	12.7 - 168	D	%Rec	5	2/22/2023 7:04:58 PM
Surr: Tetrachloro-m-xylene	101	66.6 - 140	D	%Rec	5	2/22/2023 7:04:58 PM
NOTES:						
Q - Associated calibration verification is below	v acceptance c	riteria. Result ma	y be low-bi	ased.		
Sample Moisture (Percent Moistur	<u>e)</u>			Batch	ID:	R81991 Analyst: MP
Percent Moisture	15.1	0.500		wt%	1	2/21/2023 1:39:08 PM


Work Order: 2302366 Date Reported: 2/23/2023

Client: Libby Environmental				Collection	Date:	2/20/2023 12:00:00 PM
Project: 2021 Blvd Interim Action						
I ab ID: 2302366-009				Matrix: Sc	sil	
Client Semple ID: 00 000	.					
Client Sample ID: 50-559-0.5-1-02	23					
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides by EP/	A Method 8	<u>081</u>		Batch	n ID: 39	9504 Analyst: KJ
Toxaphene	ND	0.399	D	mg/Kg-dry	5	2/22/2023 7:14:42 PM
Alpha BHC	ND	0.0570	D	mg/Kg-dry	5	2/22/2023 7:14:42 PM
Beta BHC	ND	0.0570	D	mg/Kg-dry	5	2/22/2023 7:14:42 PM
Gamma BHC (Lindane)	ND	0.0570	D	mg/Kg-dry	5	2/22/2023 7:14:42 PM
Delta BHC	ND	0.0570	D	mg/Kg-dry	5	2/22/2023 7:14:42 PM
Heptachlor	ND	0.0570	D	mg/Kg-dry	5	2/22/2023 7:14:42 PM
Aldrin	ND	0.0570	D	mg/Kg-dry	5	2/22/2023 7:14:42 PM
Heptachlor epoxide	ND	0.0570	D	mg/Kg-dry	5	2/22/2023 7:14:42 PM
gamma-Chlordane	ND	0.0570	D	mg/Kg-dry	5	2/22/2023 7:14:42 PM
Endosulfan I	ND	0.0570	D	mg/Kg-dry	5	2/22/2023 7:14:42 PM
alpha-Chlordane	0.0188	0.0570	DJ	mg/Kg-dry	5	2/22/2023 7:14:42 PM
Dieldrin	0.114	0.0570	D	mg/Kg-dry	5	2/22/2023 7:14:42 PM
4,4´-DDE	0.0240	0.0570	DJ	mg/Kg-dry	5	2/22/2023 7:14:42 PM
Endrin	ND	0.0855	D	mg/Kg-dry	5	2/22/2023 7:14:42 PM
Endosulfan II	ND	0.0855	D	mg/Kg-dry	5	2/22/2023 7:14:42 PM
4,4´-DDD	ND	0.0855	D	mg/Kg-dry	5	2/22/2023 7:14:42 PM
Endrin aldehyde	ND	0.0912	D	mg/Kg-dry	5	2/22/2023 7:14:42 PM
Endosulfan sulfate	ND	0.0855	D	mg/Kg-dry	5	2/22/2023 7:14:42 PM
4,4´-DDT	ND	0.0912	DQ	mg/Kg-dry	5	2/22/2023 7:14:42 PM
Endrin ketone	ND	0.114	D	mg/Kg-dry	5	2/22/2023 7:14:42 PM
Methoxychlor	ND	0.114	DQ	mg/Kg-dry	5	2/22/2023 7:14:42 PM
Surr: Decachlorobiphenyl	89.2	12.7 - 168	D	%Rec	5	2/22/2023 7:14:42 PM
Surr: Tetrachloro-m-xylene	99.5	66.6 - 140	D	%Rec	5	2/22/2023 7:14:42 PM
NOTES:						
Q - Associated calibration verification is below	<i>v</i> acceptance cr	riteria. Result ma	y be low-bi	ased.		
Sample Moisture (Percent Moistur	<u>'e)</u>			Batch	ID: R	81991 Analyst: MP

Percent Moisture

19.7

0.500

wt%

1

2/21/2023 1:39:08 PM



 Work Order:
 2302366

 Date Reported:
 2/23/2023

Client: Libby Environmental	Collection Date: 2/20/2023 12:00:00 PM										
Project: 2021 Blvd Interim Action											
Lab ID: 2302366-010				Matrix: So	oil						
Client Sample ID: SO-SS10-0.5-1-02	223										
Analyses	Result	RL	Qual	Units	DF	Date Analyzed					
Organochlorine Pesticides by EPA	<u>\ Method 8</u>	<u>081</u>		Batch	n ID: 39	9504 Analyst: KJ					
Toxaphene	ND	0.396	D	mg/Kg-dry	5	2/22/2023 7:24:24 PM					
Alpha BHC	ND	0.0565	D	mg/Kg-dry	5	2/22/2023 7:24:24 PM					
Beta BHC	ND	0.0565	D	mg/Kg-dry	5	2/22/2023 7:24:24 PM					
Gamma BHC (Lindane)	ND	0.0565	D	mg/Kg-dry	5	2/22/2023 7:24:24 PM					
Delta BHC	ND	0.0565	D	mg/Kg-dry	5	2/22/2023 7:24:24 PM					
Heptachlor	ND	0.0565	D	mg/Kg-dry	5	2/22/2023 7:24:24 PM					
Aldrin	ND	0.0565	D	mg/Kg-dry	5	2/22/2023 7:24:24 PM					
Heptachlor epoxide	ND	0.0565	D	mg/Kg-dry	5	2/22/2023 7:24:24 PM					
gamma-Chlordane	ND	0.0565	D	mg/Kg-dry	5	2/22/2023 7:24:24 PM					
Endosulfan I	ND	0.0565	D	mg/Kg-dry	5	2/22/2023 7:24:24 PM					
alpha-Chlordane	ND	0.0565	D	mg/Kg-dry	5	2/22/2023 7:24:24 PM					
Dieldrin	0.0550	0.0565	DJ	mg/Kg-dry	5	2/22/2023 7:24:24 PM					
4,4´-DDE	ND	0.0565	D	mg/Kg-dry	5	2/22/2023 7:24:24 PM					
Endrin	ND	0.0848	D	mg/Kg-dry	5	2/22/2023 7:24:24 PM					
Endosulfan II	ND	0.0848	D	mg/Kg-dry	5	2/22/2023 7:24:24 PM					
4,4´-DDD	ND	0.0848	D	mg/Kg-dry	5	2/22/2023 7:24:24 PM					
Endrin aldehyde	ND	0.0905	D	mg/Kg-dry	5	2/22/2023 7:24:24 PM					
Endosulfan sulfate	ND	0.0848	D	mg/Kg-dry	5	2/22/2023 7:24:24 PM					
4,4´-DDT	ND	0.0905	DQ	mg/Kg-dry	5	2/22/2023 7:24:24 PM					
Endrin ketone	ND	0.113	D	mg/Kg-dry	5	2/22/2023 7:24:24 PM					
Methoxychlor	ND	0.113	DQ	mg/Kg-dry	5	2/22/2023 7:24:24 PM					
Surr: Decachlorobiphenyl	85.8	12.7 - 168	D	%Rec	5	2/22/2023 7:24:24 PM					
Surr: Tetrachloro-m-xylene	92.8	66.6 - 140	D	%Rec	5	2/22/2023 7:24:24 PM					
NOTES:											
Q - Associated calibration verification is below	v acceptance cr	riteria. Result ma	y be low-bi	ased.							
Sample Moisture (Percent Moistur	<u>e)</u>			Batch	ID: R	81991 Analyst: MP					

Percent Moisture

18.0

0.500

wt%

1

2/21/2023 1:39:08 PM



Client: Libby Environmental				Collection	Dat	te: 2/20/2023 12:00:00 PM
Project: 2021 Bivd Interim Action Lab ID: 2302366-011 Client Seconda ID: 202 ACTION				Matrix: So	oil	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides by EP	A Method 8	<u>081</u>		Batch	ID:	39504 Analyst: KJ
Toxaphene	ND	0.402	D	mg/Kg-dry	5	2/22/2023 7:34:05 PM
Alpha BHC	ND	0.0574	D	mg/Kg-dry	5	2/22/2023 7:34:05 PM
Beta BHC	ND	0.0574	D	mg/Kg-dry	5	2/22/2023 7:34:05 PM
Gamma BHC (Lindane)	ND	0.0574	D	mg/Kg-dry	5	2/22/2023 7:34:05 PM
Delta BHC	ND	0.0574	D	mg/Kg-dry	5	2/22/2023 7:34:05 PM
Heptachlor	ND	0.0574	D	mg/Kg-dry	5	2/22/2023 7:34:05 PM
Aldrin	ND	0.0574	D	mg/Kg-dry	5	2/22/2023 7:34:05 PM
Heptachlor epoxide	ND	0.0574	D	mg/Kg-dry	5	2/22/2023 7:34:05 PM
gamma-Chlordane	ND	0.0574	D	mg/Kg-dry	5	2/22/2023 7:34:05 PM
Endosulfan I	ND	0.0574	D	mg/Kg-dry	5	2/22/2023 7:34:05 PM
alpha-Chlordane	ND	0.0574	D	mg/Kg-dry	5	2/22/2023 7:34:05 PM
Dieldrin	ND	0.0574	D	mg/Kg-dry	5	2/22/2023 7:34:05 PM
4,4´-DDE	0.0300	0.0574	DJ	mg/Kg-dry	5	2/22/2023 7:34:05 PM
Endrin	ND	0.0861	D	mg/Kg-dry	5	2/22/2023 7:34:05 PM
Endosulfan II	ND	0.0861	D	mg/Kg-dry	5	2/22/2023 7:34:05 PM
4,4´-DDD	ND	0.0861	D	mg/Kg-dry	5	2/22/2023 7:34:05 PM
Endrin aldehyde	ND	0.0918	D	mg/Kg-dry	5	2/22/2023 7:34:05 PM
Endosulfan sulfate	ND	0.0861	D	mg/Kg-dry	5	2/22/2023 7:34:05 PM
4,4´-DDT	0.0356	0.0918	DJQ	mg/Kg-dry	5	2/22/2023 7:34:05 PM
Endrin ketone	ND	0.115	D	mg/Kg-dry	5	2/22/2023 7:34:05 PM
Methoxychlor	ND	0.115	DQ	mg/Kg-dry	5	2/22/2023 7:34:05 PM
Surr: Decachlorobiphenyl	91.6	12.7 - 168	D	%Rec	5	2/22/2023 7:34:05 PM
Surr: Tetrachloro-m-xylene	99.0	66.6 - 140	D	%Rec	5	2/22/2023 7:34:05 PM
NOTES:						
Q - Associated calibration verification is below	v acceptance c	riteria. Result ma	y be low-bia	ased.		
Sample Moisture (Percent Moistur	<u>e)</u>			Batch	ID:	R81991 Analyst: MP
Percent Moisture	21.8	0.500		wt%	1	2/21/2023 1:39:08 PM



 Work Order:
 2302366

 Date Reported:
 2/23/2023

Client: Libby Environmental				Collection	Dat	te: 2/20/2023 12:00:00 PM
Project: 2021 Blvd Interim Action Lab ID: 2302366-012				Matrix: So	oil	
Analyses	223 Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides by EP	A Method 8	<u>081</u>		Batch	ID:	39504 Analyst: KJ
Toxaphene	ND	0.395	D	mg/Kg-dry	5	2/22/2023 7:43:48 PM
Alpha BHC	ND	0.0564	D	mg/Kg-dry	5	2/22/2023 7:43:48 PM
Beta BHC	ND	0.0564	D	mg/Kg-dry	5	2/22/2023 7:43:48 PM
Gamma BHC (Lindane)	ND	0.0564	D	mg/Kg-dry	5	2/22/2023 7:43:48 PM
Delta BHC	ND	0.0564	D	mg/Kg-dry	5	2/22/2023 7:43:48 PM
Heptachlor	ND	0.0564	D	mg/Kg-dry	5	2/22/2023 7:43:48 PM
Aldrin	ND	0.0564	D	mg/Kg-dry	5	2/22/2023 7:43:48 PM
Heptachlor epoxide	ND	0.0564	D	mg/Kg-dry	5	2/22/2023 7:43:48 PM
gamma-Chlordane	ND	0.0564	D	mg/Kg-dry	5	2/22/2023 7:43:48 PM
Endosulfan I	ND	0.0564	D	mg/Kg-dry	5	2/22/2023 7:43:48 PM
alpha-Chlordane	ND	0.0564	D	mg/Kg-dry	5	2/22/2023 7:43:48 PM
Dieldrin	0.0239	0.0564	DJ	mg/Kg-dry	5	2/22/2023 7:43:48 PM
4,4´-DDE	0.0280	0.0564	DJ	mg/Kg-dry	5	2/22/2023 7:43:48 PM
Endrin	ND	0.0845	D	mg/Kg-dry	5	2/22/2023 7:43:48 PM
Endosulfan II	ND	0.0845	D	mg/Kg-dry	5	2/22/2023 7:43:48 PM
4,4´-DDD	ND	0.0845	D	mg/Kg-dry	5	2/22/2023 7:43:48 PM
Endrin aldehyde	ND	0.0902	D	mg/Kg-dry	5	2/22/2023 7:43:48 PM
Endosulfan sulfate	ND	0.0845	D	mg/Kg-dry	5	2/22/2023 7:43:48 PM
4,4'-DDT	0.0314	0.0902	DJQ	mg/Kg-dry	5	2/22/2023 7:43:48 PM
Endrin ketone	ND	0.113	D	mg/Kg-dry	5	2/22/2023 7:43:48 PM
Methoxychlor	ND	0.113	DQ	mg/Kg-dry	5	2/22/2023 7:43:48 PM
Surr: Decachlorobiphenyl	87.0	12.7 - 168	D	%Rec	5	2/22/2023 7:43:48 PM
Surr: Tetrachloro-m-xylene	95.8	66.6 - 140	D	%Rec	5	2/22/2023 7:43:48 PM
NOTES:						
Q - Associated calibration verification is belo	w acceptance c	riteria. Result ma	y be low-bia	ased.		
Sample Moisture (Percent Moistur	re)			Batch	ID:	R81991 Analyst: MP
Percent Moisture	24.5	0.500		wt%	1	2/21/2023 1:39:08 PM

Original



 Work Order:
 2302366

 Date Reported:
 2/23/2023

Client: Libby Environmental				Collection	Date:	2/20/2023 12:00:00 PM
Project: 2021 Blvd Interim Action						
Lab ID: 2302366-013				Matrix: So	bil	
Client Sample ID: SO-SS13-0.5-1-02	223					
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides by EPA	A Method 8	<u>081</u>		Batch	n ID: 39	9504 Analyst: KJ
Toxaphene	ND	0.403	D	mg/Kg-dry	5	2/22/2023 7:53:33 PM
Alpha BHC	ND	0.0575	D	mg/Kg-dry	5	2/22/2023 7:53:33 PM
Beta BHC	ND	0.0575	D	mg/Kg-dry	5	2/22/2023 7:53:33 PM
Gamma BHC (Lindane)	ND	0.0575	D	mg/Kg-dry	5	2/22/2023 7:53:33 PM
Delta BHC	ND	0.0575	D	mg/Kg-dry	5	2/22/2023 7:53:33 PM
Heptachlor	ND	0.0575	D	mg/Kg-dry	5	2/22/2023 7:53:33 PM
Aldrin	ND	0.0575	D	mg/Kg-dry	5	2/22/2023 7:53:33 PM
Heptachlor epoxide	ND	0.0575	D	mg/Kg-dry	5	2/22/2023 7:53:33 PM
gamma-Chlordane	ND	0.0575	D	mg/Kg-dry	5	2/22/2023 7:53:33 PM
Endosulfan I	ND	0.0575	D	mg/Kg-dry	5	2/22/2023 7:53:33 PM
alpha-Chlordane	ND	0.0575	D	mg/Kg-dry	5	2/22/2023 7:53:33 PM
Dieldrin	0.108	0.0575	D	mg/Kg-dry	5	2/22/2023 7:53:33 PM
4,4´-DDE	0.0137	0.0575	DJ	mg/Kg-dry	5	2/22/2023 7:53:33 PM
Endrin	ND	0.0863	D	mg/Kg-dry	5	2/22/2023 7:53:33 PM
Endosulfan II	ND	0.0863	D	mg/Kg-dry	5	2/22/2023 7:53:33 PM
4,4´-DDD	ND	0.0863	D	mg/Kg-dry	5	2/22/2023 7:53:33 PM
Endrin aldehyde	ND	0.0920	D	mg/Kg-dry	5	2/22/2023 7:53:33 PM
Endosulfan sulfate	ND	0.0863	D	mg/Kg-dry	5	2/22/2023 7:53:33 PM
4,4´-DDT	ND	0.0920	DQ	mg/Kg-dry	5	2/22/2023 7:53:33 PM
Endrin ketone	ND	0.115	D	mg/Kg-dry	5	2/22/2023 7:53:33 PM
Methoxychlor	ND	0.115	DQ	mg/Kg-dry	5	2/22/2023 7:53:33 PM
Surr: Decachlorobiphenyl	102	12.7 - 168	D	%Rec	5	2/22/2023 7:53:33 PM
Surr: Tetrachloro-m-xylene	101	66.6 - 140	D	%Rec	5	2/22/2023 7:53:33 PM
NOTES:						
Q - Associated calibration verification is below	v acceptance ci	riteria. Result ma	y be low-bi	ased.		
Sample Moisture (Percent Moistur	<u>e)</u>			Batch	ID: R	81991 Analyst: MP

Percent Moisture

20.7

0.500

wt%

1

2/21/2023 1:39:08 PM



Client: Libby Environmental				Collection	Dat	te: 2/20/2023 12:00:00 PM
Lab ID: 2302366-014 Client Sample ID: SO-SS1-0.5-	n 1-0223-01			Matrix: So	oil	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides by	EPA Method 80	<u>081</u>		Batch	ID:	39504 Analyst: KJ
Toxaphene	ND	0.0734		mg/Kg-dry	1	2/22/2023 8:03:16 PM
Alpha BHC	ND	0.0105		mg/Kg-dry	1	2/22/2023 8:03:16 PM
Beta BHC	ND	0.0105		mg/Kg-dry	1	2/22/2023 8:03:16 PM
Gamma BHC (Lindane)	ND	0.0105		mg/Kg-dry	1	2/22/2023 8:03:16 PM
Delta BHC	ND	0.0105		mg/Kg-dry	1	2/22/2023 8:03:16 PM
Heptachlor	ND	0.0105		mg/Kg-dry	1	2/22/2023 8:03:16 PM
Aldrin	ND	0.0105		mg/Kg-dry	1	2/22/2023 8:03:16 PM
Heptachlor epoxide	ND	0.0105		mg/Kg-dry	1	2/22/2023 8:03:16 PM
gamma-Chlordane	ND	0.0105		mg/Kg-dry	1	2/22/2023 8:03:16 PM
Endosulfan I	ND	0.0105		mg/Kg-dry	1	2/22/2023 8:03:16 PM
alpha-Chlordane	0.00405	0.0105	J	mg/Kg-dry	1	2/22/2023 8:03:16 PM
Dieldrin	0.00965	0.0105	J	mg/Kg-dry	1	2/22/2023 8:03:16 PM
4,4´-DDE	0.00242	0.0105	J	mg/Kg-dry	1	2/22/2023 8:03:16 PM
Endrin	ND	0.0157		mg/Kg-dry	1	2/22/2023 8:03:16 PM
Endosulfan II	ND	0.0157		mg/Kg-dry	1	2/22/2023 8:03:16 PM
4,4´-DDD	ND	0.0157		mg/Kg-dry	1	2/22/2023 8:03:16 PM
Endrin aldehyde	0.0133	0.0168	J	mg/Kg-dry	1	2/22/2023 8:03:16 PM
Endosulfan sulfate	ND	0.0157		mg/Kg-dry	1	2/22/2023 8:03:16 PM
4,4'-DDT	ND	0.0168	Q	mg/Kg-dry	1	2/22/2023 8:03:16 PM
Endrin ketone	ND	0.0210		mg/Kg-dry	1	2/22/2023 8:03:16 PM
Methoxychlor	ND	0.0210	Q	mg/Kg-dry	1	2/22/2023 8:03:16 PM
Surr: Decachlorobiphenyl	104	12.7 - 168		%Rec	1	2/22/2023 8:03:16 PM
Surr: Tetrachloro-m-xylene	113	66.6 - 140		%Rec	1	2/22/2023 8:03:16 PM
NOTES:						
Q - Associated calibration verification is	below acceptance cr	iteria. Result ma	y be low-bia	ased.		
Sample Moisture (Percent Mo	<u>isture)</u>			Batch	ID:	R81991 Analyst: MP
Percent Moisture	13.1	0.500		wt%	1	2/21/2023 1:39:08 PM



CLIENT: Libby Environmental

Project: 2021 Blvd Interim Action

QC SUMMARY REPORT

Organochlorine Pesticides by EPA Method 8081

Sample ID: PEST-CCV-39504A SampType: CCV		Units: µg/L			Prep Da	te: 2/22/20	23	RunNo: 82036			
Client ID: CCV	Batch ID: 39504					Analysis Da	te: 2/22/20	23	SeqNo: 170	02123	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alpha BHC	204	0.0100	200.0	0	102	80	120				
Beta BHC	205	0.0100	200.0	0	103	80	120				
Gamma BHC (Lindane)	205	0.0100	200.0	0	102	80	120				
Delta BHC	205	0.0100	200.0	0	102	80	120				
Heptachlor	206	0.0100	200.0	0	103	80	120				
Aldrin	206	0.0100	200.0	0	103	80	120				
Heptachlor epoxide	206	0.0100	200.0	0	103	80	120				
gamma-Chlordane	206	0.0100	200.0	0	103	80	120				
Endosulfan I	206	0.0100	200.0	0	103	80	120				
alpha-Chlordane	206	0.0100	200.0	0	103	80	120				
Dieldrin	205	0.0100	200.0	0	103	80	120				
4,4´-DDE	205	0.0100	200.0	0	102	80	120				
Endrin	205	0.0150	200.0	0	103	80	120				
Endosulfan II	206	0.0150	200.0	0	103	80	120				
4,4´-DDD	205	0.0150	200.0	0	102	80	120				
Endrin aldehyde	207	0.0160	200.0	0	104	80	120				
Endosulfan sulfate	211	0.0150	200.0	0	105	80	120				
4,4´-DDT	199	0.0160	200.0	0	99.7	80	120				
Endrin ketone	212	0.0200	200.0	0	106	80	120				
Methoxychlor	209	0.0200	200.0	0	104	80	120				
Surr: Decachlorobiphenyl	238		200.0		119	54.6	157				
Surr: Tetrachloro-m-xylene	199		200.0		99.6	59.3	135				
Sample ID: TOX-CCV-39504A	SampType: CCV			Units: µg/L		Prep Da	te: 2/22/20	23	RunNo: 820)36	
Client ID: CCV	Batch ID: 39504					Analysis Da	te: 2/22/20	23	SeqNo: 170	02124	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toxaphene	1,130	0.0700	1,000	0	113	80	120				
Surr: Decachlorobiphenyl	215		200.0		107	54.6	157				
Surr: Tetrachloro-m-xylene	188		200.0		93.9	59.3	135				



Project:

CLIENT: Libby Environmental

2021 Blvd Interim Action

QC SUMMARY REPORT

Organochlorine Pesticides by EPA Method 8081

Sample ID: MB-39504	SampType: MBLK			Units: mg/Kg		Prep Da	te: 2/21/2	023	RunNo: 820	36	
Client ID: MBLKS	Batch ID: 39504					Analysis Da	te: 2/22/2	023	SeqNo: 170	2125	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toxaphene	ND	0.0700									
Alpha BHC	ND	0.0100									
Beta BHC	ND	0.0100									
Gamma BHC (Lindane)	ND	0.0100									
Delta BHC	ND	0.0100									
Heptachlor	ND	0.0100									
Aldrin	ND	0.0100									
Heptachlor epoxide	ND	0.0100									
gamma-Chlordane	ND	0.0100									
Endosulfan I	ND	0.0100									
alpha-Chlordane	ND	0.0100									
Dieldrin	ND	0.0100									
4,4´-DDE	ND	0.0100									
Endrin	ND	0.0150									
Endosulfan II	ND	0.0150									
4,4´-DDD	ND	0.0150									
Endrin aldehyde	ND	0.0160									
Endosulfan sulfate	ND	0.0150									
4,4´-DDT	ND	0.0160									Q
Endrin ketone	ND	0.0200									
Methoxychlor	ND	0.0200									Q
Surr: Decachlorobiphenyl	0.243		0.2000		121	12.7	168				
Surr: Tetrachloro-m-xylene	0.208		0.2000		104	66.6	140				

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Sample ID: LCS1-39504	SampType: LCS			Units: mg/Kg		Prep Dat	e: 2/21/20	23	RunNo: 820	36	
Client ID: LCSS	Batch ID: 39504					Analysis Dat	te: 2/22/20	23	SeqNo: 170	2126	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alpha BHC Beta BHC	0.229 0.211	0.0100 0.0100	0.2000 0.2000	0 0	115 105	69 67.4	143 133				



Project:

CLIENT: Libby Environmental

2021 Blvd Interim Action

QC SUMMARY REPORT

Organochlorine Pesticides by EPA Method 8081

Sample ID: LCS1-39504	SampType: LCS			Units: mg/Kg		Prep Da	te: 2/21/2023	RunNo: 82036
Client ID: LCSS	Batch ID: 39504					Analysis Da	te: 2/22/2023	SeqNo: 1702126
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref	Val %RPD RPDLimit Qual
Gamma BHC (Lindane)	0.232	0.0100	0.2000	0	116	66.8	135	
Delta BHC	0.229	0.0100	0.2000	0	114	67.9	133	
Heptachlor	0.237	0.0100	0.2000	0	118	73.5	149	
Aldrin	0.242	0.0100	0.2000	0	121	68.7	140	
Heptachlor epoxide	0.243	0.0100	0.2000	0	121	69.9	139	
gamma-Chlordane	0.241	0.0100	0.2000	0	121	68.1	136	
Endosulfan I	0.239	0.0100	0.2000	0	120	70.2	137	
alpha-Chlordane	0.234	0.0100	0.2000	0	117	66.4	135	
Dieldrin	0.238	0.0100	0.2000	0	119	65.1	137	
4,4´-DDE	0.238	0.0100	0.2000	0	119	62.7	131	
Endrin	0.243	0.0150	0.2000	0	121	68.1	142	
Endosulfan II	0.240	0.0150	0.2000	0	120	63.8	135	
4,4´-DDD	0.237	0.0150	0.2000	0	119	59.3	139	
Endrin aldehyde	0.240	0.0160	0.2000	0	120	62.9	134	
Endosulfan sulfate	0.236	0.0150	0.2000	0	118	62.5	133	
4,4´-DDT	0.241	0.0160	0.2000	0	121	67.4	135	
Endrin ketone	0.245	0.0200	0.2000	0	122	61	132	
Methoxychlor	0.237	0.0200	0.2000	0	119	65.9	135	
Surr: Decachlorobiphenyl	0.256		0.2000		128	12.7	168	
Surr: Tetrachloro-m-xylene	0.213		0.2000		107	66.6	140	
Sample ID: LCS2-39504	SampType: LCS			Units: mg/Kg		Prep Da	te: 2/21/2023	RunNo: 82036
Client ID: LCSS	Batch ID: 39504					Analysis Da	te: 2/22/2023	SeqNo: 1702127
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD Ref	Val %RPD RPDLimit Qual
Toxaphene	0.998	0.0700	1.000	0	99.8	48.6	147	
Surr: Decachlorobiphenyl	0.231		0.2000		115	12.7	168	
Surr: Tetrachloro-m-xylene	0.204		0.2000		102	66.6	140	



CLIENT: Libby Environmental

Project: 2021 Blvd Interim Action

QC SUMMARY REPORT

Organochlorine Pesticides by EPA Method 8081

Sample ID: 2302366-001AMS	SampType: MS			Units: mg/ I	Kg-dry	Prep Date: 2/21/202		23 RunNo: 82036			
Client ID: SO-SS1-0.5-1-0223	Batch ID: 39504					Analysis Da	te: 2/22/20	023	SeqNo: 170)2129	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alpha BHC	0.234	0.0110	0.2198	0	107	73.2	151				
Beta BHC	0.213	0.0110	0.2198	0	97.1	65.1	144				
Gamma BHC (Lindane)	0.234	0.0110	0.2198	0	106	67.5	144				
Delta BHC	0.231	0.0110	0.2198	0	105	67.7	143				
Heptachlor	0.230	0.0110	0.2198	0	105	75.3	159				
Aldrin	0.234	0.0110	0.2198	0	106	68.5	149				
Heptachlor epoxide	0.233	0.0110	0.2198	0	106	70.6	147				
gamma-Chlordane	0.221	0.0110	0.2198	0	100	54.2	149				
Endosulfan I	0.219	0.0110	0.2198	0	99.7	65	147				
alpha-Chlordane	0.210	0.0110	0.2198	0	95.7	61.9	144				
Dieldrin	0.230	0.0110	0.2198	0.009085	101	61.2	146				
4,4´-DDE	0.213	0.0110	0.2198	0	96.9	59.4	143				
Endrin	0.223	0.0165	0.2198	0	102	71.1	147				
Endosulfan II	0.215	0.0165	0.2198	0	97.7	65.3	138				
4,4´-DDD	0.217	0.0165	0.2198	0	98.8	59	146				
Endrin aldehyde	0.171	0.0176	0.2198	0	77.9	49.9	129				
Endosulfan sulfate	0.221	0.0165	0.2198	0	101	53.3	142				
4,4´-DDT	0.188	0.0176	0.2198	0	85.5	57.3	154				
Endrin ketone	0.229	0.0220	0.2198	0	104	61.7	133				
Methoxychlor	0.202	0.0220	0.2198	0	91.7	57.5	145				
Surr: Decachlorobiphenyl	0.255		0.2198		116	12.7	168				
Surr: Tetrachloro-m-xylene	0.219		0.2198		99.5	66.6	140				
Sample ID: 2302366-001AMSD	SampType: MSD			Units: mg/l	Kg-dry	Prep Da	te: 2/21/20)23	RunNo: 820)36	
Client ID: SO-SS1-0.5-1-0223	Batch ID: 39504					Analysis Da	te: 2/22/20)23	SeqNo: 170	02130	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alpha BHC	0.234	0.0110	0.2202	0	106	73.2	151	0.3105	28.1	30	
Beta BHC	0.213	0.0110	0.2202	0	96.6	65.1	144	0.2812	27.7	30	
Gamma BHC (Lindane)	0.231	0.0110	0.2202	0	105	67.5	144	0.3036	27.1	30	
Delta BHC	0.228	0.0110	0.2202	0	104	67.7	143	0.2998	27.2	30	



QC SUMMARY REPORT

Work Order: 2302366

Project:

CLIENT: Libby Environmental

2021 Blvd Interim Action

202

200

203

175

195

194

0.0100

0.0100

0.0100

0.0100

0.0100

0.0100

200.0

200.0

200.0

200.0

200.0

200.0

Organochlorine Pesticides by EPA Method 8081

Sample ID: 2302366-001AMSD	SampType: MSD			Units: mg/Kg	-dry	Prep Date	e: 2/21/202	23	RunNo: 820	36	
Client ID: SO-SS1-0.5-1-0223	Batch ID: 39504					Analysis Date	e: 2/22/20 2	23	SeqNo: 170	2130	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heptachlor	0.222	0.0110	0.2202	0	101	75.3	159	0.2944	28.1	30	
Aldrin	0.230	0.0110	0.2202	0	104	68.5	149	0.2981	25.8	30	
Heptachlor epoxide	0.229	0.0110	0.2202	0	104	70.6	147	0.2932	24.8	30	
gamma-Chlordane	0.220	0.0110	0.2202	0	100	54.2	149	0.2800	23.8	30	
Endosulfan I	0.218	0.0110	0.2202	0	99.2	65	147	0.2674	20.2	30	
alpha-Chlordane	0.214	0.0110	0.2202	0	97.0	61.9	144	0.2736	24.6	30	
Dieldrin	0.231	0.0110	0.2202	0.009085	101	61.2	146	0.2892	22.2	30	
4,4´-DDE	0.213	0.0110	0.2202	0	96.8	59.4	143	0.2808	27.4	30	
Endrin	0.219	0.0165	0.2202	0	99.3	71.1	147	0.2954	29.9	30	
Endosulfan II	0.218	0.0165	0.2202	0	99.2	65.3	138	0.2709	21.4	30	
4,4´-DDD	0.234	0.0165	0.2202	0	106	59	146	0.3288	33.9	30	R
Endrin aldehyde	0.171	0.0176	0.2202	0	77.7	49.9	129	0.1688	1.40	30	
Endosulfan sulfate	0.215	0.0165	0.2202	0	97.6	53.3	142	0.2620	19.7	30	
4,4´-DDT	0.163	0.0176	0.2202	0	74.1	57.3	154	0.1831	11.5	30	
Endrin ketone	0.232	0.0220	0.2202	0	106	61.7	133	0.2695	14.8	30	
Methoxychlor	0.181	0.0220	0.2202	0	82.1	57.5	145	0.1854	2.57	30	
Surr: Decachlorobiphenyl	0.241		0.2202		109	12.7	168		0		
Surr: Tetrachloro-m-xylene	0.215		0.2202		97.5	66.6	140		0		
NOTES:											
R - High RPD observed, spike red	covery is within range.										
Sample ID: PEST-CCV-39504B	SampType: CCV			Units: µg/L		Prep Date	e: 2/22/20 2	23	RunNo: 820	36	
Client ID: CCV	Batch ID: 39504					Analysis Date	e: 2/22/20 2	23	SeqNo: 170	2144	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alpha BHC	207	0.0100	200.0	0	104	80	120				

0

0

0

0

0

0

101

99.8

101

87.6

97.7

97.1

80

80

80

80

80

80

120

120

120

120

120

120

Aldrin

Beta BHC

Delta BHC

Heptachlor

Gamma BHC (Lindane)

Heptachlor epoxide



CLIENT: Libby Environmental

Project: 2021 Blvd Interim Action

QC SUMMARY REPORT

Organochlorine Pesticides by EPA Method 8081

Sample ID: PEST-CCV-39504B	SampType	CCV			Units: µg/L		Prep Dat	e: 2/22/20	23	RunNo: 820	36	
Client ID: CCV	Batch ID:	39504					Analysis Dat	e: 2/22/20	23	SeqNo: 170	2144	
Analyte	F	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
gamma-Chlordane		189	0.0100	200.0	0	94.5	80	120				
Endosulfan I		190	0.0100	200.0	0	95.0	80	120				
alpha-Chlordane		186	0.0100	200.0	0	93.2	80	120				
Dieldrin		192	0.0100	200.0	0	95.9	80	120				
4,4´-DDE		184	0.0100	200.0	0	91.9	80	120				
Endrin		175	0.0150	200.0	0	87.4	80	120				
Endosulfan II		187	0.0150	200.0	0	93.3	80	120				
4,4´-DDD		226	0.0150	200.0	0	113	80	120				
Endrin aldehyde		166	0.0160	200.0	0	82.9	80	120				
Endosulfan sulfate		180	0.0150	200.0	0	89.9	80	120				
4,4´-DDT		93.7	0.0160	200.0	0	46.8	80	120				S
Endrin ketone		167	0.0200	200.0	0	83.6	80	120				
Methoxychlor		108	0.0200	200.0	0	54.2	80	120				S
Surr: Decachlorobiphenyl		196		200.0		97.8	54.6	157				
Surr: Tetrachloro-m-xylene		205		200.0		103	59.3	135				
NOTES:												

S - Outlying spike recovery observed (low bias). Samples will be qualified with a Q.

Sample ID: TOX-CCV-39504B	SampType: CCV			Units: µg/L		Prep Dat	te: 2/22/20	23	RunNo: 820	36	
Client ID: CCV	Batch ID: 39504					Analysis Dat	te: 2/22/20	23	SeqNo: 170	2145	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toxaphene	1,170	0.0700	1,000	0	117	80	120				
Surr: Decachlorobiphenyl	183		200.0		91.6	54.6	157				
Surr: Tetrachloro-m-xylene	207		200.0		103	59.3	135				



Sample Log-In Check List

Client Name: LIBBY	Work Order Numb	per: 2302366		
Logged by: Brianna Barnes	Date Received:	2/21/2023 1	12:02:00 PM	
Chain of Custody				
1. Is Chain of Custody complete?	Yes 🖌	No 🗌	Not Present	
2. How was the sample delivered?	<u>Client</u>			
Log In				
3. Coolers are present?	Yes 🖌	No 🗌		
4. Shipping container/cooler in good condition?	Yes 🖌	No 🗌		
 Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact) 	Yes 🗌	No 🗌	Not Present 🗹	
6. Was an attempt made to cool the samples?	Yes 🖌	No 🗌	NA 🗌	
7. Were all items received at a temperature of $>2^{\circ}C$ to $6^{\circ}C$ *	Yes 🗹	No 🗌		
8. Sample(s) in proper container(s)?	Yes 🖌	No 🗌		
9. Sufficient sample volume for indicated test(s)?	Yes 🖌	No 🗌		
10. Are samples properly preserved?	Yes 🖌	No 🗌		
11. Was preservative added to bottles?	Yes	No 🔽	NA 🗌	
12. Is there headspace in the VOA vials?	Yes	No 🗌	NA 🖌	
13. Did all samples containers arrive in good condition(unbroken)?	Yes 🖌	No 🗌		
14. Does paperwork match bottle labels?	Yes 🗹	No 🗌		
15. Are matrices correctly identified on Chain of Custody?	Yes 🖌	No 🗌		
16. Is it clear what analyses were requested?	Yes 🖌	No		
17. Were all holding times able to be met?	Yes 🖌	No 🗌		
<u>Special Handling (if applicable)</u>				
18. Was client notified of all discrepancies with this order?	Yes	No 🗌	NA 🗹	
Person Notified: Date:				
By Whom: Via:	eMail Ph	one 🗌 Fax 🗌	In Person	
Regarding:				
Client Instructions:				
19. Additional remarks:				-

Item Information

Item #	Temp ⁰C
Sample	1.7

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

1	BB	A
-	X	1
ANTE:	ONME	2

3322 South Bay Road NE . Olympia, WA 98506-2957

SUBCONTRACT ORDER L23B082

2302366

Sending	Laboratory:	
Sending	Laboratory:	

Libby Environmental, Inc.
3322 South Bay Road NE
Olympia, WA 98506
Phone: 360-352-2110
Fax: 360-352-4154

Project Manager: Sherry Chilcutt LibbyEnv@gmail.com

Project: 2021 Blvd Interim Action

Fremont Analytical, Inc.		
3600 Fremont Ave N		
Seattle, WA 98103		
Phone: (206) 352-3790		
Fax:		
	 	aAw

pue Requested Turnaround (TAT) 2123

Analysis Comments Lab ID: L23B082-01 Client Sample ID: SO-SS1-0.5-1-0223 Soil Sampled: 02/20/2023 00:00 Pesticide, Chlorinated 8081 please Containers Supplied: Lab ID: L23B082-02 Client Sample ID: SO-SS2-0.5-1-0223 Soil Sampled: 02/20/2023 00:00 Pesticide, Chlorinated 8081 please Containers Supplied: Lab ID: L23B082-03 Client Sample ID: SO-SS3-0.5-1-0223 Soil Sampled: 02/20/2023 00:00 Pesticide, Chlorinated 8081 please Containers Supplied: Client Sample ID: SO-SS4-0.5-1-0223 Soil Sampled: 02/20/2023 00:00 Lab ID: L23B082-04 Pesticide, Chlorinated 8081 please Containers Supplied: Lab ID: L23B082-05 Client Sample ID: SO-SS5-0.5-1-0223 Soil Sampled: 02/20/2023 00:00 Pesticide, Chlorinated 8081 please Containers Supplied: Lab ID: L23B082-06 Client Sample ID: SO-SS6-0.5-1-0223 Soil Sampled: 02/20/2023 00:00 Pesticide, Chlorinated 8081 please Containers Supplied:

Adie ander 2/21/23/202 Released By Anith and 2.20.27 Page 1 of 2

02/21/23 Received B

Page 1 of 2



3322 South Bay Road NE • Olympia, WA 98506-2957

SUBCONTRACT ORDER L23B082

(Continued)

2302366

Project: 2021 Blvd Interim Action

Analysis	Comments	
Client Sample ID: SO-SS7-0.5-1-0223 Soil Sample	led: 02/20/2023 00:00	Lab ID: L23B082-07
Pesticide, Chlorinated	8081 please	
Containers Supplied:		
Client Sample ID: SO-SS8-0.5-1-0223 Soil Sample	led: 02/20/2023 00:00	Lab ID: L23B082-08
Pesticide, Chlorinated	8081 please	
Containers Supplied:		
Client Sample ID: SO-SS9-0.5-1-0223 Soil Sample	led: 02/20/2023 00:00	Lab ID: L23B082-09
Pesticide, Chlorinated	8081 please	
Containers Supplied:		
Client Sample ID: SO-SS10-0.5-1-0223 Soil Sam	pled: 02/20/2023 00:00	Lab ID: L23B082-10
Pesticide, Chlorinated	8081 please	
Containers Supplied:		
Client Sample ID: SO-SS11-0.5-1-0223 Soil Sam	pled: 02/20/2023 00:00	Lab ID: L23B082-11
Pesticide, Chlorinated	8081 please	
Containers Supplied:		
Client Sample ID: SO-SS12-0.5-1-0223 Soil Sam	pled: 02/20/2023 00:00	Lab ID: L23B082-12
Pesticide, Chlorinated	8081 please	
Containers Supplied:		
Client Sample ID: SO-SS13-0.5-1-0223 Soil Sam	pled: 02/20/2023 00:00	Lab ID: L23B082-13
Pesticide, Chlorinated	8081 please	
Containers Supplied:		
Client Sample ID: SO-SS1-0.5-1-0223-01 Soil Sa	mpled: 02/20/2023 00:00	Lab ID: L23B082-14
Pesticide, Chlorinated	8081 please	
Containers Supplied:		
Alsolation applas	MANNIA	7/2/1/22 12-22
Hole Childrens 44123 1	Passived Bi	00027 12.02
Deleased by Date	neceived by	Page 27 of 27



3322 South Bay Road NE • Olympia, WA 98506-2957

March 16, 2023

Joel Hecker Pioneer Technologies Corporation 5205 Corporate Center Ct SE, Suite C Lacey, WA 98503

Dear Joel Hecker:

Please find enclosed the analytical data report for the 2021 Blvd Interim Action project located in Lacey, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of within 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Shy I Uni

Sherry L. Chilcutt Senior Chemist Libby Environmental, Inc.

Libby Environmen	tal	l, In	C.		Ch	ain d	of C	ust	ody	Re	cor	d							www.L	ibbyEnvi	ronmental.com
3322 South Bay Road NE Olympia, WA 98506		Ph: Fax:	360-352-2 360-352-4	2110 154			Date	e: 0	2/24	1/20	23					Pag	e:	1		of	1
Client: PIONEER Tech	Int: PIONEER Technologies Project Manager: Joel Herker																				
Address: 5205 Corporate	č	ente	r Ct	SF			Proj	ect Na	ime:	2021	BI	vd	Inte	CIM	A	ctio	0				
City:) aces			State: \	A Zip:	98503		Loca	ation:	Oht	0010				<u>a 10</u>		City	, Sta	ite:	lare	1 10	IA
Phone: 210 - 222 - 373	9		Fax: -	-			Colle	ector:	Mic	hael	16.	-K-N	/			Date	e of (Colle	ction:	02/24	12023
Client Project # 2021 BIN	Id,	_					Ema	ail:	1 .10	- unc/										UEIEI	12023
Sample Number	De	epth	Time	Sample Type	Container Type	50 S	10 10 10 10 10 10 10 10 10 10 10 10 10 1	SUBLES ST	+ 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SHILL OF	10 10 10 10 10	2 2 2 P	100 00 C	Asta St. Ast OF	C 210	in vo	8210 8210	des	Balan Balan F	ield Not	ies
1 50-5514-0.5-1-0223	0,5	5-1	7:06	G	2 Jars (402)	_			\rightarrow	_	-				_	X					
250-5515-0.5-1-0223	1		7:10						_	_	-				_	+		_			
3 50-55 16-0,5-1-0223			8:48				_			_	-					1					
4 50-5517-0.5-1-0223			6:51				_		_	_					_	\perp					
5 50-5518-0.5-1-0223			8:53																		
6 so-ss19-0.5-1-0223			8:56																		
7 50-55 20-05-1- 0223			8:59																		
8 50-55 21-0.5 -1- 0223			9:01																		
9 50-5522 -0.5-1-0223			9:03												_(XQ					
10 50-5523-0.5-1-0223		4	9:06	*	V											Y					
11																			7-7-2 TWIC	3 RE-	LE FROM
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Relinquished by:				Date / Time	Received by:					Date	Time	Total Co	Numb	er of ers				TA	T: 24	HR 48	HR 5-DAY

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law.

Distribution: White - Lab, Yellow - Originator

2021 BLVD INTERIM ACTION PROJECT Pioneer Technologies Corporation Libby Project # L23B105 Date Received 2/24/2023 Time Received 9:59 AM 3322 South Bay Road NE Olympia, WA 98506 Phone: (360) 352-2110 FAX: (360) 352-4154 Email: libbyenv@gmail.com

Received By AR

Sample Receipt Checklist

<u>Chain of Custody</u>			
1. Is the Chain of Custody is complete?	✓ Yes	🗌 No	
2. How was the sample delivered?	✓ Hand Delivered	Picked Up	Shipped
Log In			
3. Cooler or Shipping Container is present.	✓ Yes	🗌 No	□ N/A
4. Cooler or Shipping Container is in good condition.	✓ Yes	🗋 No	N/A
5. Cooler or Shipping Container has Custody Seals present.	Yes	✓ No	N/A
6. Was an attempt made to cool the samples?	✓ Yes	🗌 No	□ N/A
7. Temperature of cooler (0°C to 8°C recommended)	3.2	°C	
8. Temperature of sample(s) (0°C to 8°C recommended)	3.2	°C	
9. Did all containers arrive in good condition (unbroken)?	✓ Yes	🗌 No	
10. Is it clear what analyses were requested?	✓ Yes	🗌 No	
11. Did container labels match Chain of Custody?	✓ Yes	🗋 No	
12. Are matrices correctly identified on Chain of Custody?	✓ Yes	🗋 No	
13. Are correct containers used for the analysis indicated?	✓ Yes	🗋 No	
14. Is there sufficient sample volume for indicated analysis?	✓ Yes	🗌 No	
15. Were all containers properly preserved per each analysis?	✓ Yes	🗌 No	
16. Were VOA vials collected correctly (no headspace)?	Yes	🗋 No	☑ N/A
17. Were all holding times able to be met?	✓ Yes	🗌 No	
Discrepancies/ Notes			
18. Was client notified of all discrepancies?	Yes	🗌 No	✓ N/A
Person Notified:		Date:	
By Whom:		Via:	
Regarding:			
19. Comments.			



3600 Fremont Ave. N. Seattle, WA 98103 T: (206) 352-3790 F: (206) 352-7178 info@fremontanalytical.com

Libby Environmental Sherry Chilcutt 3322 South Bay Road NE Olympia, WA 98506

RE: 2021 Blvd Interim Action Work Order Number: 2302446

March 15, 2023

Attention Sherry Chilcutt:

Fremont Analytical, Inc. received 10 sample(s) on 2/24/2023 for the analyses presented in the following report.

Organochlorine Pesticides by EPA Method 8081 Sample Moisture (Percent Moisture)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Revision v1



CLIENT: Project: Work Order:	Libby Environmental 2021 Blvd Interim Action 2302446	Work Order Sample Summary						
Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received					
2302446-001	SO-SS14-0.5-1-0223	02/24/2023 7:06 AM	02/24/2023 11:45 AM					
2302446-002	SO-SS15-0.5-1-0223	02/24/2023 7:10 AM	02/24/2023 11:45 AM					
2302446-003	SO-SS16-0.5-1-0223	02/24/2023 8:48 AM	02/24/2023 11:45 AM					
2302446-004	SO-SS17-0.5-1-0223	02/24/2023 8:51 AM	02/24/2023 11:45 AM					
2302446-005	SO-SS18-0.5-1-0223	02/24/2023 8:53 AM	02/24/2023 11:45 AM					
2302446-006	SO-SS19-0.5-1-0223	02/24/2023 8:56 AM	02/24/2023 11:45 AM					
2302446-007	SO-SS20-0.5-1-0223	02/24/2023 8:59 AM	02/24/2023 11:45 AM					
2302446-008	SO-SS21-0.5-1-0223	02/24/2023 9:01 AM	02/24/2023 11:45 AM					
2302446-009	SO-SS22-0.5-1-0223	02/24/2023 9:03 AM	02/24/2023 11:45 AM					
2302446-010	SO-SS23-0.5-1-0223	02/24/2023 9:06 AM	02/24/2023 11:45 AM					



Case Narrative

WO#: **2302446** Date: **3/15/2023**

CLIENT:Libby EnvironmentalProject:2021 Blvd Interim Action

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

3/15/2023: Revision 1 includes re-analysis of "SO-SS22-0.5-1-0223" per client request. Two additional aliquots were analyzed, one from each of the sample jars provided.

Qualifiers & Acronyms



WO#: **2302446** Date Reported: **3/15/2023**

Qualifiers:

- * Associated LCS is outside of control limits
- B Analyte detected in the associated Method Blank
- D Dilution was required
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- I Analyte with an internal standard that does not meet established acceptance criteria
- J Analyte detected below Reporting Limit
- N Tentatively Identified Compound (TIC)
- Q Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S Spike recovery outside accepted recovery limits
- ND Not detected at the Method Detection Limit
- R High relative percent difference observed

Acronyms:

%Rec - Percent Recovery

- CCB Continued Calibration Blank
- CCV Continued Calibration Verification
- DF Dilution Factor
- DUP Sample Duplicate
- HEM Hexane Extractable Material
- ICV Initial Calibration Verification
- LCS/LCSD Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL Maximum Contaminant Level
- MB or MBLANK Method Blank
- MDL Method Detection Limit
- MS/MSD Matrix Spike / Matrix Spike Duplicate
- PDS Post Digestion Spike
- Ref Val Reference Value
- **REP Sample Replicate**
- RL Reporting Limit
- **RPD** Relative Percent Difference
- SD Serial Dilution
- SGT Silica Gel Treatment
- SPK Spike
- Surr Surrogate



Client: Libby Environmental	Collection Date: 2/24/2023 7:06:00 AM						
Project: 2021 Blvd Interim Action Lab ID: 2302446-001			N	latrix: S	Soil		
Analyses	223 Result	RL	MDL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides by EPA	Method 80	81		Batcl	n ID: 39570	C	Analyst: KJ
Toxaphene	ND	0.0843	0.0300		mg/Kg-dry	1	03/01/23 15:44:44
Alpha BHC	ND	0.0120	0.00310		mg/Kg-dry	1	03/01/23 15:44:44
Beta BHC	ND	0.0120	0.00314		mg/Kg-dry	1	03/01/23 15:44:44
Gamma BHC (Lindane)	ND	0.0120	0.00346		mg/Kg-dry	1	03/01/23 15:44:44
Delta BHC	ND	0.0120	0.00251		mg/Kg-dry	1	03/01/23 15:44:44
Heptachlor	ND	0.0120	0.00455		mg/Kg-dry	1	03/01/23 15:44:44
Aldrin	ND	0.0120	0.00301		mg/Kg-dry	1	03/01/23 15:44:44
Heptachlor epoxide	ND	0.0120	0.00365		mg/Kg-dry	1	03/01/23 15:44:44
gamma-Chlordane	ND	0.0120	0.00341		mg/Kg-dry	1	03/01/23 15:44:44
Endosulfan I	ND	0.0120	0.00462		mg/Kg-dry	1	03/01/23 15:44:44
alpha-Chlordane	ND	0.0120	0.00371		mg/Kg-dry	1	03/01/23 15:44:44
Dieldrin	ND	0.0120	0.00472		mg/Kg-dry	1	03/01/23 15:44:44
4,4´-DDE	0.00733	0.0120	0.00266	J	mg/Kg-dry	1	03/01/23 15:44:44
Endrin	ND	0.0181	0.00512		mg/Kg-dry	1	03/01/23 15:44:44
Endosulfan II	ND	0.0181	0.00574		mg/Kg-dry	1	03/01/23 15:44:44
4,4´-DDD	ND	0.0181	0.00553		mg/Kg-dry	1	03/01/23 15:44:44
Endrin aldehyde	ND	0.0193	0.00621		mg/Kg-dry	1	03/01/23 15:44:44
Endosulfan sulfate	ND	0.0181	0.00599		mg/Kg-dry	1	03/01/23 15:44:44
4,4´-DDT	ND	0.0193	0.00659		mg/Kg-dry	1	03/01/23 15:44:44
Endrin ketone	ND	0.0241	0.00662		mg/Kg-dry	1	03/01/23 15:44:44
Methoxychlor	ND	0.0241	0.00908		mg/Kg-dry	1	03/01/23 15:44:44
Surr: Decachlorobiphenyl	106	12.7 - 168			%Rec	1	03/01/23 15:44:44
Surr: Tetrachloro-m-xylene	97.2	66.6 - 140			%Rec	1	03/01/23 15:44:44
Sample Moisture (Percent Moisture	<u>e)</u>			Batcl	n ID: R820	92	Analyst: MP
Percent Moisture	19.3	0.500	0.100		wt%	1	02/27/23 9:32:50



Client: Libby Environmental	Collection Date: 2/24/2023 7:10:00 AM							
Project: 2021 Blvd Interim Action Lab ID: 2302446-002 Client Sample ID: SO SS15 0 5 1 022	Matrix: Soil							
Analyses	Result	RL	MDL	Qual Units DF	Date Analyzed			
Organochlorine Pesticides by EPA	Method 80	<u>81</u>		Batch ID: 39570	Analyst: KJ			
Toxaphene	ND	0.0800	0.0285	mg/Kg-dry 1	03/01/23 16:13:47			
Alpha BHC	ND	0.0114	0.00294	mg/Kg-dry 1	03/01/23 16:13:47			
Beta BHC	ND	0.0114	0.00298	mg/Kg-dry 1	03/01/23 16:13:47			
Gamma BHC (Lindane)	ND	0.0114	0.00328	mg/Kg-dry 1	03/01/23 16:13:47			
Delta BHC	ND	0.0114	0.00238	mg/Kg-dry 1	03/01/23 16:13:47			
Heptachlor	ND	0.0114	0.00432	mg/Kg-dry 1	03/01/23 16:13:47			
Aldrin	ND	0.0114	0.00286	mg/Kg-dry 1	03/01/23 16:13:47			
Heptachlor epoxide	ND	0.0114	0.00347	mg/Kg-dry 1	03/01/23 16:13:47			
gamma-Chlordane	ND	0.0114	0.00324	mg/Kg-dry 1	03/01/23 16:13:47			
Endosulfan I	ND	0.0114	0.00439	mg/Kg-dry 1	03/01/23 16:13:47			
alpha-Chlordane	ND	0.0114	0.00352	mg/Kg-dry 1	03/01/23 16:13:47			
Dieldrin	ND	0.0114	0.00448	mg/Kg-dry 1	03/01/23 16:13:47			
4,4´-DDE	ND	0.0114	0.00252	mg/Kg-dry 1	03/01/23 16:13:47			
Endrin	ND	0.0171	0.00486	mg/Kg-dry 1	03/01/23 16:13:47			
Endosulfan II	ND	0.0171	0.00545	mg/Kg-dry 1	03/01/23 16:13:47			
4,4´-DDD	ND	0.0171	0.00525	mg/Kg-dry 1	03/01/23 16:13:47			
Endrin aldehyde	ND	0.0183	0.00590	mg/Kg-dry 1	03/01/23 16:13:47			
Endosulfan sulfate	ND	0.0171	0.00568	mg/Kg-dry 1	03/01/23 16:13:47			
4,4´-DDT	ND	0.0183	0.00626	mg/Kg-dry 1	03/01/23 16:13:47			
Endrin ketone	ND	0.0229	0.00629	mg/Kg-dry 1	03/01/23 16:13:47			
Methoxychlor	ND	0.0229	0.00862	mg/Kg-dry 1	03/01/23 16:13:47			
Surr: Decachlorobiphenyl	99.5	12.7 - 168		%Rec 1	03/01/23 16:13:47			
Surr: Tetrachloro-m-xylene	91.4	66.6 - 140		%Rec 1	03/01/23 16:13:47			
Sample Moisture (Percent Moisture)				Batch ID: R82092	Analyst: MP			
Percent Moisture	17.8	0.500	0.100	wt% 1	02/27/23 9:32:50			



Client: Libby Environmental	Collection Date: 2/24/2023 8:48:00 AM							
Project: 2021 Blvd Interim Action Lab ID: 2302446-003		Matrix: Soil						
Analyses	23 Result	RL	MDL	Qual Units D	F Date Analyzed			
Organochlorine Pesticides by EPA	Method 80	<u>81</u>		Batch ID: 39570	Analyst: KJ			
Toxaphene	ND	0.0820	0.0292	mg/Kg-dry 1	03/01/23 16:23:28			
Alpha BHC	ND	0.0117	0.00302	mg/Kg-dry 1	03/01/23 16:23:28			
Beta BHC	ND	0.0117	0.00305	mg/Kg-dry 1	03/01/23 16:23:28			
Gamma BHC (Lindane)	ND	0.0117	0.00336	mg/Kg-dry 1	03/01/23 16:23:28			
Delta BHC	ND	0.0117	0.00244	mg/Kg-dry 1	03/01/23 16:23:28			
Heptachlor	ND	0.0117	0.00443	mg/Kg-dry 1	03/01/23 16:23:28			
Aldrin	ND	0.0117	0.00293	mg/Kg-dry 1	03/01/23 16:23:28			
Heptachlor epoxide	ND	0.0117	0.00355	mg/Kg-dry 1	03/01/23 16:23:28			
gamma-Chlordane	ND	0.0117	0.00332	mg/Kg-dry 1	03/01/23 16:23:28			
Endosulfan I	ND	0.0117	0.00450	mg/Kg-dry 1	03/01/23 16:23:28			
alpha-Chlordane	ND	0.0117	0.00361	mg/Kg-dry 1	03/01/23 16:23:28			
Dieldrin	ND	0.0117	0.00459	mg/Kg-dry 1	03/01/23 16:23:28			
4,4´-DDE	ND	0.0117	0.00259	mg/Kg-dry 1	03/01/23 16:23:28			
Endrin	ND	0.0176	0.00498	mg/Kg-dry 1	03/01/23 16:23:28			
Endosulfan II	ND	0.0176	0.00559	mg/Kg-dry 1	03/01/23 16:23:28			
4,4´-DDD	ND	0.0176	0.00538	mg/Kg-dry 1	03/01/23 16:23:28			
Endrin aldehyde	ND	0.0187	0.00604	mg/Kg-dry 1	03/01/23 16:23:28			
Endosulfan sulfate	ND	0.0176	0.00583	mg/Kg-dry 1	03/01/23 16:23:28			
4,4´-DDT	ND	0.0187	0.00641	mg/Kg-dry 1	03/01/23 16:23:28			
Endrin ketone	ND	0.0234	0.00645	mg/Kg-dry 1	03/01/23 16:23:28			
Methoxychlor	ND	0.0234	0.00884	mg/Kg-dry 1	03/01/23 16:23:28			
Surr: Decachlorobiphenyl	111	12.7 - 168		%Rec 1	03/01/23 16:23:28			
Surr: Tetrachloro-m-xylene	97.1	66.6 - 140		%Rec 1	03/01/23 16:23:28			
Sample Moisture (Percent Moisture)				Batch ID: R82092	Analyst: MP			
Percent Moisture	18.5	0.500	0.100	wt% 1	02/27/23 9:32:50			



Client: Libby Environmental	Collection Date: 2/24/2023 8:51:00 AM								
Project: 2021 Blvd Interim Action Lab ID: 2302446-004			Μ	atrix: Soil	rix: Soil				
Analyses	23 Result	RL	MDL	Qual Units	DF	Date Analyzed			
Organochlorine Pesticides by EPA M	Method 80	<u>81</u>		Batch ID: 39570		Analyst: KJ			
Toxaphene	ND	0.0856	0.0305	mg/Kg-dry	1	03/01/23 16:33:08			
Alpha BHC	ND	0.0122	0.00315	mg/Kg-dry	1	03/01/23 16:33:08			
Beta BHC	ND	0.0122	0.00319	mg/Kg-dry	1	03/01/23 16:33:08			
Gamma BHC (Lindane)	ND	0.0122	0.00351	mg/Kg-dry	1	03/01/23 16:33:08			
Delta BHC	ND	0.0122	0.00255	mg/Kg-dry	1	03/01/23 16:33:08			
Heptachlor	ND	0.0122	0.00462	mg/Kg-dry	1	03/01/23 16:33:08			
Aldrin	ND	0.0122	0.00306	mg/Kg-dry	1	03/01/23 16:33:08			
Heptachlor epoxide	ND	0.0122	0.00371	mg/Kg-dry	1	03/01/23 16:33:08			
gamma-Chlordane	ND	0.0122	0.00347	mg/Kg-dry	1	03/01/23 16:33:08			
Endosulfan I	ND	0.0122	0.00469	mg/Kg-dry	1	03/01/23 16:33:08			
alpha-Chlordane	ND	0.0122	0.00377	mg/Kg-dry	1	03/01/23 16:33:08			
Dieldrin	ND	0.0122	0.00479	mg/Kg-dry	1	03/01/23 16:33:08			
4,4´-DDE	ND	0.0122	0.00270	mg/Kg-dry	1	03/01/23 16:33:08			
Endrin	ND	0.0183	0.00520	mg/Kg-dry	1	03/01/23 16:33:08			
Endosulfan II	ND	0.0183	0.00583	mg/Kg-dry	1	03/01/23 16:33:08			
4,4´-DDD	ND	0.0183	0.00562	mg/Kg-dry	1	03/01/23 16:33:08			
Endrin aldehyde	ND	0.0196	0.00631	mg/Kg-dry	1	03/01/23 16:33:08			
Endosulfan sulfate	ND	0.0183	0.00608	mg/Kg-dry	1	03/01/23 16:33:08			
4,4´-DDT	ND	0.0196	0.00669	mg/Kg-dry	1	03/01/23 16:33:08			
Endrin ketone	ND	0.0244	0.00673	mg/Kg-dry	1	03/01/23 16:33:08			
Methoxychlor	ND	0.0244	0.00922	mg/Kg-dry	1	03/01/23 16:33:08			
Surr: Decachlorobiphenyl	108	12.7 - 168		%Rec	1	03/01/23 16:33:08			
Surr: Tetrachloro-m-xylene	98.6	66.6 - 140		%Rec	1	03/01/23 16:33:08			
Sample Moisture (Percent Moisture)				Batch ID: R8209	4	Analyst: MP			
Percent Moisture	19.2	0.500	0.100	wt%	1	02/27/23 9:50:37			



Client: Libby Environmental	Collection Date: 2/24/2023 8:53:00 AM								
Project: 2021 Blvd Interim Action Lab ID: 2302446-005	10		Matrix: Soil						
Analyses	Result	RL	MDL	Qual Units DF	Date Analyzed				
Organochlorine Pesticides by EPA N	<u>Method 8081</u>			Batch ID: 39570	Analyst: KJ				
Toxaphene	ND	0.0772	0.0275	mg/Kg-dry 1	03/01/23 16:42:51				
Alpha BHC	ND	0.0110	0.00284	mg/Kg-dry 1	03/01/23 16:42:51				
Beta BHC	ND	0.0110	0.00287	mg/Kg-dry 1	03/01/23 16:42:51				
Gamma BHC (Lindane)	ND	0.0110	0.00317	mg/Kg-dry 1	03/01/23 16:42:51				
Delta BHC	ND	0.0110	0.00230	mg/Kg-dry 1	03/01/23 16:42:51				
Heptachlor	ND	0.0110	0.00417	mg/Kg-dry 1	03/01/23 16:42:51				
Aldrin	ND	0.0110	0.00276	mg/Kg-dry 1	03/01/23 16:42:51				
Heptachlor epoxide	ND	0.0110	0.00335	mg/Kg-dry 1	03/01/23 16:42:51				
gamma-Chlordane	ND	0.0110	0.00313	mg/Kg-dry 1	03/01/23 16:42:51				
Endosulfan I	ND	0.0110	0.00423	mg/Kg-dry 1	03/01/23 16:42:51				
alpha-Chlordane	ND	0.0110	0.00340	mg/Kg-dry 1	03/01/23 16:42:51				
Dieldrin	ND	0.0110	0.00432	mg/Kg-dry 1	03/01/23 16:42:51				
4,4´-DDE	ND	0.0110	0.00243	mg/Kg-dry 1	03/01/23 16:42:51				
Endrin	ND	0.0165	0.00469	mg/Kg-dry 1	03/01/23 16:42:51				
Endosulfan II	ND	0.0165	0.00526	mg/Kg-dry 1	03/01/23 16:42:51				
4,4´-DDD	ND	0.0165	0.00507	mg/Kg-dry 1	03/01/23 16:42:51				
Endrin aldehyde	ND	0.0176	0.00569	mg/Kg-dry 1	03/01/23 16:42:51				
Endosulfan sulfate	ND	0.0165	0.00548	mg/Kg-dry 1	03/01/23 16:42:51				
4,4´-DDT	ND	0.0176	0.00604	mg/Kg-dry 1	03/01/23 16:42:51				
Endrin ketone	ND	0.0221	0.00607	mg/Kg-dry 1	03/01/23 16:42:51				
Methoxychlor	ND	0.0221	0.00832	mg/Kg-dry 1	03/01/23 16:42:51				
Surr: Decachlorobiphenyl	107	12.7 - 168		%Rec 1	03/01/23 16:42:51				
Surr: Tetrachloro-m-xylene	95.2	66.6 - 140		%Rec 1	03/01/23 16:42:51				
Sample Moisture (Percent Moisture)				Batch ID: R82094	Analyst: MP				
Percent Moisture	14.8	0.500	0.100	wt% 1	02/27/23 9:50:37				



Client: Libby Environmental	Collection Date: 2/24/2023 8:56:00 AM						
Project: 2021 Blvd Interim Action Lab ID: 2302446-006 Client Sample ID: SQ-SS19-0 5-1	-0223		N	latrix: S	Soil		
Analyses	Result	RL	MDL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides by El	PA Method 80	<u>81</u>		Batcl	h ID: 3957	0	Analyst: KJ
Toxaphene	ND	0.0849	0.0302		mg/Kg-dry	1	03/01/23 16:52:31
Alpha BHC	ND	0.0121	0.00312		mg/Kg-dry	1	03/01/23 16:52:31
Beta BHC	ND	0.0121	0.00316		mg/Kg-dry	1	03/01/23 16:52:31
Gamma BHC (Lindane)	ND	0.0121	0.00348		mg/Kg-dry	1	03/01/23 16:52:31
Delta BHC	ND	0.0121	0.00253		mg/Kg-dry	1	03/01/23 16:52:31
Heptachlor	ND	0.0121	0.00459		mg/Kg-dry	1	03/01/23 16:52:31
Aldrin	ND	0.0121	0.00303		mg/Kg-dry	1	03/01/23 16:52:31
Heptachlor epoxide	ND	0.0121	0.00368		mg/Kg-dry	1	03/01/23 16:52:31
gamma-Chlordane	ND	0.0121	0.00344		mg/Kg-dry	1	03/01/23 16:52:31
Endosulfan I	ND	0.0121	0.00465		mg/Kg-dry	1	03/01/23 16:52:31
alpha-Chlordane	ND	0.0121	0.00374		mg/Kg-dry	1	03/01/23 16:52:31
Dieldrin	0.00840	0.0121	0.00476	J	mg/Kg-dry	1	03/01/23 16:52:31
4,4´-DDE	0.00705	0.0121	0.00268	J	mg/Kg-dry	1	03/01/23 16:52:31
Endrin	ND	0.0182	0.00516		mg/Kg-dry	1	03/01/23 16:52:31
Endosulfan II	ND	0.0182	0.00579		mg/Kg-dry	1	03/01/23 16:52:31
4,4´-DDD	ND	0.0182	0.00557		mg/Kg-dry	1	03/01/23 16:52:31
Endrin aldehyde	ND	0.0194	0.00626		mg/Kg-dry	1	03/01/23 16:52:31
Endosulfan sulfate	ND	0.0182	0.00603		mg/Kg-dry	1	03/01/23 16:52:31
4,4´-DDT	ND	0.0194	0.00664		mg/Kg-dry	1	03/01/23 16:52:31
Endrin ketone	ND	0.0242	0.00667		mg/Kg-dry	1	03/01/23 16:52:31
Methoxychlor	ND	0.0242	0.00915		mg/Kg-dry	1	03/01/23 16:52:31
Surr: Decachlorobiphenyl	112	12.7 - 168			%Rec	1	03/01/23 16:52:31
Surr: Tetrachloro-m-xylene	98.1	66.6 - 140			%Rec	1	03/01/23 16:52:31
Sample Moisture (Percent Moist	ure)			Batcl	h ID: R820	94	Analyst: MP
Percent Moisture	19.9	0.500	0.100		wt%	1	02/27/23 9:50:37



Client: Libby Environmental	Collection Date: 2/24/2023 8:59:00 AM							
Project: 2021 Blvd Interim Action								
Lab ID: 2302446-007	0000	Matrix: Soil						
Client Sample ID: 50-5520-0.5-1	-UZZ3		MDI	0	L lucitor		Data Analyzad	
Analyses	Result	RL	MDL	Qual	Units	DF	Date Analyzed	
Organochlorine Pesticides by El	PA Method 80	<u>81</u>		Batcl	n ID: 39570	0	Analyst: KJ	
Toxaphene	ND	0.0819	0.0292		mg/Kg-dry	1	03/01/23 17:02:11	
Alpha BHC	ND	0.0117	0.00301		mg/Kg-dry	1	03/01/23 17:02:11	
Beta BHC	ND	0.0117	0.00305		mg/Kg-dry	1	03/01/23 17:02:11	
Gamma BHC (Lindane)	ND	0.0117	0.00336		mg/Kg-dry	1	03/01/23 17:02:11	
Delta BHC	ND	0.0117	0.00244		mg/Kg-dry	1	03/01/23 17:02:11	
Heptachlor	ND	0.0117	0.00443		mg/Kg-dry	1	03/01/23 17:02:11	
Aldrin	ND	0.0117	0.00293		mg/Kg-dry	1	03/01/23 17:02:11	
Heptachlor epoxide	ND	0.0117	0.00355		mg/Kg-dry	1	03/01/23 17:02:11	
gamma-Chlordane	ND	0.0117	0.00332		mg/Kg-dry	1	03/01/23 17:02:11	
Endosulfan I	ND	0.0117	0.00449		mg/Kg-dry	1	03/01/23 17:02:11	
alpha-Chlordane	ND	0.0117	0.00361		mg/Kg-dry	1	03/01/23 17:02:11	
Dieldrin	ND	0.0117	0.00459		mg/Kg-dry	1	03/01/23 17:02:11	
4,4´-DDE	0.0343	0.0117	0.00258		mg/Kg-dry	1	03/01/23 17:02:11	
Endrin	ND	0.0176	0.00498		mg/Kg-dry	1	03/01/23 17:02:11	
Endosulfan II	ND	0.0176	0.00558		mg/Kg-dry	1	03/01/23 17:02:11	
4,4´-DDD	ND	0.0176	0.00538		mg/Kg-dry	1	03/01/23 17:02:11	
Endrin aldehyde	ND	0.0187	0.00604		mg/Kg-dry	1	03/01/23 17:02:11	
Endosulfan sulfate	ND	0.0176	0.00582		mg/Kg-dry	1	03/01/23 17:02:11	
4,4´-DDT	0.00982	0.0187	0.00641	J	mg/Kg-dry	1	03/01/23 17:02:11	
Endrin ketone	ND	0.0234	0.00644		mg/Kg-dry	1	03/01/23 17:02:11	
Methoxychlor	ND	0.0234	0.00883		mg/Kg-dry	1	03/01/23 17:02:11	
Surr: Decachlorobiphenyl	106	12.7 - 168			%Rec	1	03/01/23 17:02:11	
Surr: Tetrachloro-m-xylene	99.4	66.6 - 140			%Rec	1	03/01/23 17:02:11	
Sample Moisture (Percent Moiste	ure)			Batcl	n ID: R820	94	Analyst: MP	
Percent Moisture	20.0	0.500	0.100		wt%	1	02/27/23 9:50:37	



Client: Libby Environmental		Collection Date: 2/24/2023 9:01:00 AM						
Project: 2021 Blvd Interim Action Lab ID: 2302446-008	n 4 0000	Matrix: Soil						
Analyses	1-0223 Result	RL	MDL	Qual	Units	DF	Date Analyzed	
Organochlorine Pesticides by E	EPA Method 80	<u>81</u>		Batcl	h ID: 3957	0	Analyst: KJ	
Toxaphene	2.73	0.0810	0.0288		mg/Kg-dry	1	03/01/23 17:11:56	
Alpha BHC	ND	0.0116	0.00298		mg/Kg-dry	1	03/01/23 17:11:56	
Beta BHC	ND	0.0116	0.00302		mg/Kg-dry	1	03/01/23 17:11:56	
Gamma BHC (Lindane)	ND	0.0116	0.00332		mg/Kg-dry	1	03/01/23 17:11:56	
Delta BHC	ND	0.0116	0.00241		mg/Kg-dry	1	03/01/23 17:11:56	
Heptachlor	ND	0.0116	0.00438		mg/Kg-dry	1	03/01/23 17:11:56	
Aldrin	ND	0.0116	0.00289		mg/Kg-dry	1	03/01/23 17:11:56	
Heptachlor epoxide	ND	0.0116	0.00351		mg/Kg-dry	1	03/01/23 17:11:56	
gamma-Chlordane	ND	0.0116	0.00328		mg/Kg-dry	1	03/01/23 17:11:56	
Endosulfan I	ND	0.0116	0.00444		mg/Kg-dry	1	03/01/23 17:11:56	
alpha-Chlordane	ND	0.0116	0.00357		mg/Kg-dry	1	03/01/23 17:11:56	
Dieldrin	0.00754	0.0116	0.00454	J	mg/Kg-dry	1	03/01/23 17:11:56	
4,4´-DDE	0.0470	0.0116	0.00255		mg/Kg-dry	1	03/01/23 17:11:56	
Endrin	ND	0.0173	0.00492		mg/Kg-dry	1	03/01/23 17:11:56	
Endosulfan II	ND	0.0173	0.00552		mg/Kg-dry	1	03/01/23 17:11:56	
4,4´-DDD	ND	0.0173	0.00532		mg/Kg-dry	1	03/01/23 17:11:56	
Endrin aldehyde	ND	0.0185	0.00597		mg/Kg-dry	1	03/01/23 17:11:56	
Endosulfan sulfate	ND	0.0173	0.00575		mg/Kg-dry	1	03/01/23 17:11:56	
4,4´-DDT	0.0272	0.0185	0.00633		mg/Kg-dry	1	03/01/23 17:11:56	
Endrin ketone	ND	0.0231	0.00636		mg/Kg-dry	1	03/01/23 17:11:56	
Methoxychlor	ND	0.0231	0.00873		mg/Kg-dry	1	03/01/23 17:11:56	
Surr: Decachlorobiphenyl	102	12.7 - 168			%Rec	1	03/01/23 17:11:56	
Surr: Tetrachloro-m-xylene	89.7	66.6 - 140			%Rec	1	03/01/23 17:11:56	
Sample Moisture (Percent Mois	<u>ture)</u>			Batcl	h ID: R820	94	Analyst: MP	
Percent Moisture	19.2	0.500	0.100		wt%	1	02/27/23 9:50:37	



Client: Libby Environmental		Collection Date: 2/24/2023 9:03:00 AM							
Lab ID: 2302446-009	on	Matrix: Soil							
Client Sample ID: SO-SS22-0.5	5-1-0223								
Analyses	Result	RL	MDL	Qual	Units	DF	Date Analyzed		
Organochlorine Pesticides by	EPA Method 80	<u>81</u>		Batc	h ID: 3957	0	Analyst: KJ		
Toxaphene	ND	0.0810	0.0288		mg/Kg-dry	1	03/01/23 17:31:20		
Alpha BHC	ND	0.0116	0.00298		mg/Kg-dry	1	03/01/23 17:31:20		
Beta BHC	ND	0.0116	0.00302		mg/Kg-dry	1	03/01/23 17:31:20		
Gamma BHC (Lindane)	ND	0.0116	0.00332		mg/Kg-dry	1	03/01/23 17:31:20		
Delta BHC	ND	0.0116	0.00241		mg/Kg-dry	1	03/01/23 17:31:20		
Heptachlor	ND	0.0116	0.00438		mg/Kg-dry	1	03/01/23 17:31:20		
Aldrin	ND	0.0116	0.00289		mg/Kg-dry	1	03/01/23 17:31:20		
Heptachlor epoxide	ND	0.0116	0.00351		mg/Kg-dry	1	03/01/23 17:31:20		
gamma-Chlordane	ND	0.0116	0.00328		mg/Kg-dry	1	03/01/23 17:31:20		
Endosulfan I	ND	0.0116	0.00444		mg/Kg-dry	1	03/01/23 17:31:20		
alpha-Chlordane	ND	0.0116	0.00357		mg/Kg-dry	1	03/01/23 17:31:20		
Dieldrin	0.127	0.0116	0.00454		mg/Kg-dry	1	03/01/23 17:31:20		
4,4´-DDE	0.170	0.0116	0.00255		mg/Kg-dry	1	03/01/23 17:31:20		
Endrin	ND	0.0173	0.00492		mg/Kg-dry	1	03/01/23 17:31:20		
Endosulfan II	ND	0.0173	0.00552		mg/Kg-dry	1	03/01/23 17:31:20		
4,4´-DDD	ND	0.0173	0.00532		mg/Kg-dry	1	03/01/23 17:31:20		
Endrin aldehyde	ND	0.0185	0.00597		mg/Kg-dry	1	03/01/23 17:31:20		
Endosulfan sulfate	ND	0.0173	0.00575		mg/Kg-dry	1	03/01/23 17:31:20		
4,4´-DDT	0.0601	0.0185	0.00633		mg/Kg-dry	1	03/01/23 17:31:20		
Endrin ketone	ND	0.0231	0.00636		mg/Kg-dry	1	03/01/23 17:31:20		
Methoxychlor	ND	0.0231	0.00873		mg/Kg-dry	1	03/01/23 17:31:20		
Surr: Decachlorobiphenyl	106	12.7 - 168			%Rec	1	03/01/23 17:31:20		
Surr: Tetrachloro-m-xylene	89.7	66.6 - 140			%Rec	1	03/01/23 17:31:20		
Organochlorine Pesticides by	EPA Method 80	<u>81</u>		Batc	h ID: 3968	8	Analyst: KJ		
Toxaphene	ND	0.0835	0.0297	Н	mg/Kg-dry	1	03/13/23 18:37:18		
Alpha BHC	ND	0.0119	0.00307	Н	mg/Kg-dry	1	03/13/23 18:37:18		
Beta BHC	ND	0.0119	0.00311	Н	mg/Kg-dry	1	03/13/23 18:37:18		
Gamma BHC (Lindane)	ND	0.0119	0.00342	Н	mg/Kg-dry	1	03/13/23 18:37:18		
Delta BHC	ND	0.0119	0.00248	Н	mg/Kg-dry	1	03/13/23 18:37:18		



Client: Libby Environmental		Collection Date: 2/24/2023 9:03:00 AM						
Lab ID: 2302446-009)/ I		N	latrix: S	Soil			
Client Sample ID: SO-SS22-0.5	-1-0223							
Analyses	Result	RL	MDL	Qual	Units	DF	Date Analyzed	
Organochlorine Pesticides by	EPA Method 80	<u>81</u>		Batc	h ID: 39688	3	Analyst: KJ	
Heptachlor	ND	0.0119	0.00451	н	mg/Kg-dry	1	03/13/23 18:37:18	
Aldrin	ND	0.0119	0.00298	н	mg/Kg-dry	1	03/13/23 18:37:18	
Heptachlor epoxide	ND	0.0119	0.00362	н	mg/Kg-dry	1	03/13/23 18:37:18	
gamma-Chlordane	ND	0.0119	0.00338	н	mg/Kg-dry	1	03/13/23 18:37:18	
Endosulfan I	ND	0.0119	0.00458	н	mg/Kg-dry	1	03/13/23 18:37:18	
alpha-Chlordane	ND	0.0119	0.00368	н	mg/Kg-dry	1	03/13/23 18:37:18	
Dieldrin	0.0997	0.0119	0.00468	н	mg/Kg-dry	1	03/13/23 18:37:18	
4,4´-DDE	0.121	0.0119	0.00263	н	mg/Kg-dry	1	03/13/23 18:37:18	
Endrin	ND	0.0179	0.00508	н	mg/Kg-dry	1	03/13/23 18:37:18	
Endosulfan II	ND	0.0179	0.00569	н	mg/Kg-dry	1	03/13/23 18:37:18	
4,4´-DDD	ND	0.0179	0.00548	н	mg/Kg-dry	1	03/13/23 18:37:18	
Endrin aldehyde	ND	0.0191	0.00615	н	mg/Kg-dry	1	03/13/23 18:37:18	
Endosulfan sulfate	ND	0.0179	0.00593	н	mg/Kg-dry	1	03/13/23 18:37:18	
4,4´-DDT	0.0459	0.0191	0.00653	н	mg/Kg-dry	1	03/13/23 18:37:18	
Endrin ketone	ND	0.0239	0.00656	н	mg/Kg-dry	1	03/13/23 18:37:18	
Methoxychlor	ND	0.0239	0.00900	н	mg/Kg-dry	1	03/13/23 18:37:18	
Surr: Decachlorobiphenyl	100	12.7 - 168		н	%Rec	1	03/13/23 18:37:18	
Surr: Tetrachloro-m-xylene	84.6	66.6 - 140		н	%Rec	1	03/13/23 18:37:18	
NOTES: Aliquot 2								
Organochlorine Pesticides by	EPA Method 80	<u>81</u>		Batc	h ID: 39688	3	Analyst: KJ	
Toxaphene	ND	0.0842	0.0300	н	mg/Kg-dry	1	03/13/23 18:56:45	
Alpha BHC	ND	0.0120	0.00310	н	mg/Kg-dry	1	03/13/23 18:56:45	
Beta BHC	ND	0.0120	0.00314	н	mg/Kg-dry	1	03/13/23 18:56:45	
Gamma BHC (Lindane)	ND	0.0120	0.00345	н	mg/Kg-dry	1	03/13/23 18:56:45	
Delta BHC	ND	0.0120	0.00251	н	mg/Kg-dry	1	03/13/23 18:56:45	
Heptachlor	ND	0.0120	0.00455	н	mg/Kg-dry	1	03/13/23 18:56:45	
Aldrin	ND	0.0120	0.00301	н	mg/Kg-dry	1	03/13/23 18:56:45	
Heptachlor epoxide	ND	0.0120	0.00365	Н	mg/Kg-dry	1	03/13/23 18:56:45	
gamma-Chlordane	ND	0.0120	0.00341	н	mg/Kg-dry	1	03/13/23 18:56:45	
Revision v1								



Client: Libby Environmental	Collection Date: 2/24/2023 9:03:00 AM						
Project:2021 Blvd Interim ActionLab ID:2302446-009Client Sample ID:SO-SS22-0 5-1-02	Matrix: Soil						
Analyses	Result	RL	MDL	Qual	Units	DF	Date Analyzed
Organochlorine Pesticides by EPA	Method 80	<u>81</u>		Batc	h ID: 39688	3	Analyst: KJ
Endosulfan I	ND	0.0120	0.00462	н	mg/Kg-dry	1	03/13/23 18:56:45
alpha-Chlordane	ND	0.0120	0.00371	н	mg/Kg-dry	1	03/13/23 18:56:45
Dieldrin	0.136	0.0120	0.00472	Н	mg/Kg-dry	1	03/13/23 18:56:45
4,4´-DDE	0.0981	0.0120	0.00266	Н	mg/Kg-dry	1	03/13/23 18:56:45
Endrin	ND	0.0180	0.00512	н	mg/Kg-dry	1	03/13/23 18:56:45
Endosulfan II	ND	0.0180	0.00574	н	mg/Kg-dry	1	03/13/23 18:56:45
4,4´-DDD	ND	0.0180	0.00553	н	mg/Kg-dry	1	03/13/23 18:56:45
Endrin aldehyde	ND	0.0192	0.00621	н	mg/Kg-dry	1	03/13/23 18:56:45
Endosulfan sulfate	ND	0.0180	0.00598	н	mg/Kg-dry	1	03/13/23 18:56:45
4,4´-DDT	0.0284	0.0192	0.00659	н	mg/Kg-dry	1	03/13/23 18:56:45
Endrin ketone	ND	0.0241	0.00662	н	mg/Kg-dry	1	03/13/23 18:56:45
Methoxychlor	ND	0.0241	0.00908	н	mg/Kg-dry	1	03/13/23 18:56:45
Surr: Decachlorobiphenyl	120	12.7 - 168		н	%Rec	1	03/13/23 18:56:45
Surr: Tetrachloro-m-xylene	103	66.6 - 140		н	%Rec	1	03/13/23 18:56:45
NOTES: Aliquot 3							
Sample Moisture (Percent Moisture)	Ì			Batc	h ID: R8209	94	Analyst: MP
Percent Moisture	20.5	0.500	0.100		wt%	1	02/27/23 9:50:37



Client: Libby Environmental	Collection Date: 2/24/2023 9:06:00 AM							
Project:2021 Blvd Interim ActionLab ID:2302446-010			Matrix: Soil					
Client Sample ID: SO-SS23-0.5-1-022	23							
Analyses	Result	RL	MDL	Qual Units DF	Date Analyzed			
Organochlorine Pesticides by EPA M	lethod 80	<u>81</u>		Batch ID: 39570	Analyst: KJ			
Toxaphene	ND	0.0834	0.0297	mg/Kg-dry 1	03/01/23 17:41:02			
Alpha BHC	ND	0.0119	0.00307	mg/Kg-dry 1	03/01/23 17:41:02			
Beta BHC	ND	0.0119	0.00311	mg/Kg-dry 1	03/01/23 17:41:02			
Gamma BHC (Lindane)	ND	0.0119	0.00342	mg/Kg-dry 1	03/01/23 17:41:02			
Delta BHC	ND	0.0119	0.00248	mg/Kg-dry 1	03/01/23 17:41:02			
Heptachlor	ND	0.0119	0.00451	mg/Kg-dry 1	03/01/23 17:41:02			
Aldrin	ND	0.0119	0.00298	mg/Kg-dry 1	03/01/23 17:41:02			
Heptachlor epoxide	ND	0.0119	0.00362	mg/Kg-dry 1	03/01/23 17:41:02			
gamma-Chlordane	ND	0.0119	0.00338	mg/Kg-dry 1	03/01/23 17:41:02			
Endosulfan I	ND	0.0119	0.00457	mg/Kg-dry 1	03/01/23 17:41:02			
alpha-Chlordane	ND	0.0119	0.00367	mg/Kg-dry 1	03/01/23 17:41:02			
Dieldrin	ND	0.0119	0.00467	mg/Kg-dry 1	03/01/23 17:41:02			
4,4´-DDE	ND	0.0119	0.00263	mg/Kg-dry 1	03/01/23 17:41:02			
Endrin	ND	0.0179	0.00507	mg/Kg-dry 1	03/01/23 17:41:02			
Endosulfan II	ND	0.0179	0.00568	mg/Kg-dry 1	03/01/23 17:41:02			
4,4´-DDD	ND	0.0179	0.00547	mg/Kg-dry 1	03/01/23 17:41:02			
Endrin aldehyde	ND	0.0191	0.00615	mg/Kg-dry 1	03/01/23 17:41:02			
Endosulfan sulfate	ND	0.0179	0.00592	mg/Kg-dry 1	03/01/23 17:41:02			
4,4´-DDT	ND	0.0191	0.00652	mg/Kg-dry 1	03/01/23 17:41:02			
Endrin ketone	ND	0.0238	0.00655	mg/Kg-dry 1	03/01/23 17:41:02			
Methoxychlor	ND	0.0238	0.00899	mg/Kg-dry 1	03/01/23 17:41:02			
Surr: Decachlorobiphenyl	106	12.7 - 168		%Rec 1	03/01/23 17:41:02			
Surr: Tetrachloro-m-xylene	86.7	66.6 - 140		%Rec 1	03/01/23 17:41:02			
Sample Moisture (Percent Moisture)				Batch ID: R82094	Analyst: MP			
Percent Moisture	20.2	0.500	0.100	wt% 1	02/27/23 9:50:37			



Project:

CLIENT: Libby Environmental

2021 Blvd Interim Action

QC SUMMARY REPORT

Organochlorine Pesticides by EPA Method 8081

Sample ID: MB-39570	SampType: MBLK			Units: mg/Kg	Units: mg/Kg		Prep Date: 2/28/2023			RunNo: 82165			
Client ID: MBLKS	Batch ID: 39570					Analysis Date	3/1/2023		SeqNo: 1706229				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Toxaphene	ND	0.0700											
Alpha BHC	ND	0.0100											
Beta BHC	ND	0.0100											
Gamma BHC (Lindane)	ND	0.0100											
Delta BHC	ND	0.0100											
Heptachlor	ND	0.0100											
Aldrin	ND	0.0100											
Heptachlor epoxide	ND	0.0100											
gamma-Chlordane	ND	0.0100											
Endosulfan I	ND	0.0100											
alpha-Chlordane	ND	0.0100											
Dieldrin	ND	0.0100											
4,4´-DDE	ND	0.0100											
Endrin	ND	0.0150											
Endosulfan II	ND	0.0150											
4,4´-DDD	ND	0.0150											
Endrin aldehyde	ND	0.0160											
Endosulfan sulfate	ND	0.0150											
4,4´-DDT	ND	0.0160											
Endrin ketone	ND	0.0200											
Methoxychlor	ND	0.0200											
Surr: Decachlorobiphenyl	0.193		0.2000		96.6	12.7	168						
Surr: Tetrachloro-m-xylene	0.173		0.2000		86.5	66.6	140						
Sample ID: LCS1-39570	SampType: LCS			Units: mg/Kg		Prep Date: 2/28/2023		RunNo: 82165					
Client ID: LCSS	Batch ID: 39570					Analysis Date: 3/1/2023			SeqNo: 1706230				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Alpha BHC	0.172	0.0100	0.2000	0	86.1	69	143						
Beta BHC	0.160	0.0100	0.2000	0	80.1	67.4	133						
Gamma BHC (Lindane)	0.174	0.0100	0.2000	0	87.0	66.8	135						



CLIENT: Libby Environmental

QC SUMMARY REPORT

Project: 2021 Blvd Interim Action

Organochlorine Pesticides by EPA Method 8081

Sample ID: LCS1-39570 SampType: LCS				Units: mg/Kg		Prep Dat	te: 2/28/20	23	RunNo: 82165 SeqNo: 1706230			
Client ID: LCSS	Batch ID: 39570				Analysis Date: 3/1/2023							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Delta BHC	0.171	0.0100	0.2000	0	85.6	67.9	133					
Heptachlor	0.173	0.0100	0.2000	0	86.5	73.5	149					
Aldrin	0.177	0.0100	0.2000	0	88.6	68.7	140					
Heptachlor epoxide	0.178	0.0100	0.2000	0	89.0	69.9	139					
gamma-Chlordane	0.174	0.0100	0.2000	0	87.2	68.1	136					
Endosulfan I	0.175	0.0100	0.2000	0	87.4	70.2	137					
alpha-Chlordane	0.170	0.0100	0.2000	0	85.2	66.4	135					
Dieldrin	0.175	0.0100	0.2000	0	87.3	65.1	137					
4,4´-DDE	0.171	0.0100	0.2000	0	85.3	62.7	131					
Endrin	0.177	0.0150	0.2000	0	88.5	68.1	142					
Endosulfan II	0.176	0.0150	0.2000	0	88.1	63.8	135					
4,4´-DDD	0.171	0.0150	0.2000	0	85.3	59.3	139					
Endrin aldehyde	0.175	0.0160	0.2000	0	87.4	62.9	134					
Endosulfan sulfate	0.172	0.0150	0.2000	0	85.9	62.5	133					
4,4´-DDT	0.170	0.0160	0.2000	0	85.1	67.4	135					
Endrin ketone	0.182	0.0200	0.2000	0	91.0	61	132					
Methoxychlor	0.170	0.0200	0.2000	0	84.9	65.9	135					
Surr: Decachlorobiphenyl	0.179		0.2000		89.7	12.7	168					
Surr: Tetrachloro-m-xylene	0.163		0.2000		81.7	66.6	140					
Sample ID: LCS2-39570	SampType: LCS			Units: mg/Kg		Prep Dat	te: 2/28/20	23	RunNo: 821	65		
Client ID: LCSS	Batch ID: 39570				Analysis Date: 3/1/2023			SeqNo: 1706231				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Toxaphene	0.752	0.0700	1.000	0	75.2	48.6	147					
Surr: Decachlorobiphenyl	0.178		0.2000		88.9	12.7	168					
Surr: Tetrachloro-m-xylene	0.166		0.2000		82.9	66.6	140					


Project:

CLIENT: Libby Environmental

2021 Blvd Interim Action

QC SUMMARY REPORT

Sample ID: 2302446-001AMS	SampType: MS			Units: mg/K	g-dry	Prep Da	te: 2/28/20	23	RunNo: 821	65	
Client ID: SO-SS14-0.5-1-0223	Batch ID: 39570					Analysis Da	te: 3/1/202	3	SeqNo: 170	06234	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alpha BHC	0.248	0.0120	0.2393	0	103	73.2	151				
Beta BHC	0.235	0.0120	0.2393	0	98.1	65.1	144				
Gamma BHC (Lindane)	0.247	0.0120	0.2393	0	103	67.5	144				
Delta BHC	0.254	0.0120	0.2393	0	106	67.7	143				
Heptachlor	0.251	0.0120	0.2393	0	105	75.3	159				
Aldrin	0.256	0.0120	0.2393	0	107	68.5	149				
Heptachlor epoxide	0.260	0.0120	0.2393	0	109	70.6	147				
gamma-Chlordane	0.251	0.0120	0.2393	0	105	54.2	149				
Endosulfan I	0.254	0.0120	0.2393	0	106	65	147				
alpha-Chlordane	0.248	0.0120	0.2393	0	104	61.9	144				
Dieldrin	0.255	0.0120	0.2393	0	106	61.2	146				
4,4´-DDE	0.261	0.0120	0.2393	0.007332	106	59.4	143				
Endrin	0.259	0.0179	0.2393	0	108	71.1	147				
Endosulfan II	0.253	0.0179	0.2393	0	106	65.3	138				
4,4´-DDD	0.248	0.0179	0.2393	0	104	59	146				
Endrin aldehyde	0.211	0.0191	0.2393	0	88.2	49.9	129				
Endosulfan sulfate	0.250	0.0179	0.2393	0	104	53.3	142				
4,4´-DDT	0.252	0.0191	0.2393	0	105	57.3	154				
Endrin ketone	0.261	0.0239	0.2393	0	109	61.7	133				
Methoxychlor	0.253	0.0239	0.2393	0	106	57.5	145				
Surr: Decachlorobiphenyl	0.249		0.2393		104	12.7	168				
Surr: Tetrachloro-m-xylene	0.228		0.2393		95.1	66.6	140				
Sample ID: 2302446-001AMSD	SampType: MSD			Units: mg/K	g-dry	Prep Da	te: 2/28/20	23	RunNo: 821	65	
Client ID: SO-SS14-0.5-1-0223	Batch ID: 39570					Analysis Da	te: 3/1/202	3	SeqNo: 170	06235	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alpha BHC	0.247	0.0121	0.2412	0	102	73.2	151	0.2476	0.243	30	
Beta BHC	0.234	0.0121	0.2412	0	97.0	65.1	144	0.2349	0.377	30	
Gamma BHC (Lindane)	0.248	0.0121	0.2412	0	103	67.5	144	0.2474	0.112	30	
Delta BHC	0.253	0.0121	0.2412	0	105	67.7	143	0.2537	0.446	30	



CLIENT: Libby Environmental

Project: 2021 Blvd Interim Action

QC SUMMARY REPORT

Sample ID: 2302446-001AMSD	SampType: MSD			Units: mg/Kg-	dry	Prep Dat	e: 2/28/20	23	RunNo: 821	65	
Client ID: SO-SS14-0.5-1-0223	Batch ID: 39570					Analysis Dat	e: 3/1/202	3	SeqNo: 170	6235	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heptachlor	0.250	0.0121	0.2412	0	104	75.3	159	0.2510	0.264	30	
Aldrin	0.256	0.0121	0.2412	0	106	68.5	149	0.2561	0.168	30	
Heptachlor epoxide	0.258	0.0121	0.2412	0	107	70.6	147	0.2598	0.617	30	
gamma-Chlordane	0.251	0.0121	0.2412	0	104	54.2	149	0.2505	0.172	30	
Endosulfan I	0.253	0.0121	0.2412	0	105	65	147	0.2539	0.344	30	
alpha-Chlordane	0.247	0.0121	0.2412	0	102	61.9	144	0.2477	0.376	30	
Dieldrin	0.253	0.0121	0.2412	0	105	61.2	146	0.2546	0.693	30	
4,4´-DDE	0.261	0.0121	0.2412	0.007332	105	59.4	143	0.2610	0.144	30	
Endrin	0.257	0.0181	0.2412	0	107	71.1	147	0.2592	0.764	30	
Endosulfan II	0.249	0.0181	0.2412	0	103	65.3	138	0.2529	1.56	30	
4,4´-DDD	0.247	0.0181	0.2412	0	102	59	146	0.2485	0.700	30	
Endrin aldehyde	0.217	0.0193	0.2412	0	90.0	49.9	129	0.2111	2.77	30	
Endosulfan sulfate	0.248	0.0181	0.2412	0	103	53.3	142	0.2495	0.476	30	
4,4'-DDT	0.251	0.0193	0.2412	0	104	57.3	154	0.2525	0.589	30	
Endrin ketone	0.259	0.0241	0.2412	0	107	61.7	133	0.2612	0.938	30	
Methoxychlor	0.253	0.0241	0.2412	0	105	57.5	145	0.2531	0.0653	30	
Surr: Decachlorobiphenyl	0.251		0.2412		104	12.7	168		0		
Surr: Tetrachloro-m-xylene	0.227		0.2412		93.9	66.6	140		0		
Sample ID: MB-39688	SampType: MBLK			Units: mg/Kg		Prep Dat	e: 3/13/20	23	RunNo: 824	43	
Client ID: MBLKS	Batch ID: 39688					Analysis Dat	e: 3/13/20	23	SeqNo: 171	2925	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toxaphene	ND	0.0700									
Alpha BHC	ND	0.0100									
Beta BHC	ND	0.0100									
Gamma BHC (Lindane)	ND	0.0100									
Delta BHC	ND	0.0100									
Heptachlor	ND	0.0100									
Aldrin	ND	0.0100									
Heptachlor epoxide	ND	0.0100									



Project:

CLIENT: Libby Environmental

2021 Blvd Interim Action

0.184

0.187

0.189

0.185

0.186

0.179

0.185

0.0100

0.0100

0.0100

0.0100

0.0100

0.0100

0.0100

0.2000

0.2000

0.2000

0.2000

0.2000

0.2000

0.2000

QC SUMMARY REPORT

Organochlorine Pesticides by EPA Method 8081

Sample ID: MB-39688	SampType: MBLK			Units: mg/Kg		Prep Date	e: 3/13/2023		RunNo: 824	43	
Client ID: MBLKS	Batch ID: 39688					Analysis Date	e: 3/13/2023		SeqNo: 171	2925	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPI	D Ref Val	%RPD	RPDLimit	Qual
gamma-Chlordane	ND	0.0100									
Endosulfan I	ND	0.0100									
alpha-Chlordane	ND	0.0100									
Dieldrin	ND	0.0100									
4,4´-DDE	ND	0.0100									
Endrin	ND	0.0150									
Endosulfan II	ND	0.0150									
4,4´-DDD	ND	0.0150									
Endrin aldehyde	ND	0.0160									
Endosulfan sulfate	ND	0.0150									
4,4´-DDT	ND	0.0160									
Endrin ketone	ND	0.0200									
Methoxychlor	ND	0.0200									
Surr: Decachlorobiphenyl	0.198		0.2000		98.9	12.7	168				
Surr: Tetrachloro-m-xylene	0.172		0.2000		85.8	66.6	140				
Sample ID: LCS1-39688	SampType: LCS			Units: mg/Kg		Prep Date	e: 3/13/2023		RunNo: 824	143	
Client ID: LCSS	Batch ID: 39688					Analysis Date	e: 3/13/2023		SeqNo: 171	2926	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPI	D Ref Val	%RPD	RPDLimit	Qual
Alpha BHC	0.182	0.0100	0.2000	0	91.1	69	143				
Beta BHC	0.168	0.0100	0.2000	0	83.9	67.4	133				
Gamma BHC (Lindane)	0.184	0.0100	0.2000	0	92.2	66.8	135				
Delta BHC	0.182	0.0100	0.2000	0	91.0	67.9	133				

0

0

0

0

0

0

0

92.0

93.7

94.3

92.5

92.9

89.4

92.4

73.5

68.7

69.9

68.1

70.2

66.4

65.1

149

140

139

136

137

135

137

Endosulfan I

Dieldrin

Heptachlor

Heptachlor epoxide

gamma-Chlordane

alpha-Chlordane

Aldrin



CLIENT: Libby Environmental

Project: 2021 Blvd Interim Action

QC SUMMARY REPORT

Sample ID: LCS1-39688	SampType: LCS			Units: mg/Kg		Prep Da	te: 3/13/2023		RunNo: 824	43	
Client ID: LCSS	Batch ID: 39688					Analysis Da	te: 3/13/2023		SeqNo: 171	2926	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD R	Ref Val	%RPD	RPDLimit	Qual
4,4'-DDE	0.180	0.0100	0.2000	0	90.0	62.7	131				
Endrin	0.188	0.0150	0.2000	0	94.0	68.1	142				
Endosulfan II	0.187	0.0150	0.2000	0	93.3	63.8	135				
4,4´-DDD	0.179	0.0150	0.2000	0	89.5	59.3	139				
Endrin aldehyde	0.186	0.0160	0.2000	0	93.1	62.9	134				
Endosulfan sulfate	0.184	0.0150	0.2000	0	91.9	62.5	133				
4,4´-DDT	0.181	0.0160	0.2000	0	90.4	67.4	135				
Endrin ketone	0.195	0.0200	0.2000	0	97.4	61	132				
Methoxychlor	0.180	0.0200	0.2000	0	90.1	65.9	135				
Surr: Decachlorobiphenyl	0.219		0.2000		109	12.7	168				
Surr: Tetrachloro-m-xylene	0.175		0.2000		87.6	66.6	140				
Sample ID: LCS2-39688	SampType: LCS			Units: mg/Kg		Prep Da	te: 3/13/2023		RunNo: 824	43	
Client ID: LCSS	Batch ID: 39688					Analysis Da	te: 3/13/2023		SeqNo: 171	2927	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD R	tef Val	%RPD	RPDLimit	Qual
Toxaphene	0.767	0.0700	1.000	0	76.7	48.6	147				
Surr: Decachlorobiphenyl	0.209		0.2000		105	12.7	168				
Surr: Tetrachloro-m-xylene	0.172		0.2000		86.2	66.6	140				
Sample ID: 2303175-001AMS	SampType: MS			Units: mg/Kg-	dry	Prep Da	te: 3/13/2023		RunNo: 824	43	
Client ID: BATCH	Batch ID: 39688					Analysis Da	te: 3/13/2023		SeqNo: 171	2929	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit RPD R	Ref Val	%RPD	RPDLimit	Qual
Alpha BHC	0.190	0.0103	0.2064	0	92.2	73.2	151				
Beta BHC	0.177	0.0103	0.2064	0	85.8	65.1	144				
Gamma BHC (Lindane)	0.193	0.0103	0.2064	0	93.5	67.5	144				
Delta BHC	0.192	0.0103	0.2064	0	93.3	67.7	143				
Heptachlor	0.189	0.0103	0.2064	0	91.7	75.3	159				
Aldrin	0.192	0.0103	0.2064	0	93.0	68.5	149				
Heptachlor epoxide	0.194	0.0103	0.2064	0	93.8	70.6	147				



CLIENT: Libby Environmental

Project: 2021 Blvd Interim Action

QC SUMMARY REPORT

Sample ID: 2303175-001AMS	SampType: MS			Units: mg/K	(g-dry	Prep Dat	e: 3/13/20	23	RunNo: 824	43	
Client ID: BATCH	Batch ID: 39688					Analysis Dat	e: 3/13/20	23	SeqNo: 171	2929	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
gamma-Chlordane	0.189	0.0103	0.2064	0	91.5	54.2	149				
Endosulfan I	0.190	0.0103	0.2064	0	92.0	65	147				
alpha-Chlordane	0.183	0.0103	0.2064	0	88.8	61.9	144				
Dieldrin	0.189	0.0103	0.2064	0	91.6	61.2	146				
4,4´-DDE	0.183	0.0103	0.2064	0	88.8	59.4	143				
Endrin	0.192	0.0155	0.2064	0	93.2	71.1	147				
Endosulfan II	0.191	0.0155	0.2064	0	92.7	65.3	138				
4,4´-DDD	0.181	0.0155	0.2064	0	87.8	59	146				
Endrin aldehyde	0.184	0.0165	0.2064	0	89.2	49.9	129				
Endosulfan sulfate	0.186	0.0155	0.2064	0	90.3	53.3	142				
4,4´-DDT	0.181	0.0165	0.2064	0	87.9	57.3	154				
Endrin ketone	0.198	0.0206	0.2064	0	96.1	61.7	133				
Methoxychlor	0.179	0.0206	0.2064	0	86.9	57.5	145				
Surr: Decachlorobiphenyl	0.206		0.2064		99.7	12.7	168				
Surr: Tetrachloro-m-xylene	0.179		0.2064		86.9	66.6	140				

Sample ID: 2303175-001AMSD	SampType: MSD			Units: mg/Kg	-dry	Prep Dat	e: 3/13/20	23	RunNo: 824	43	
Client ID: BATCH	Batch ID: 39688					Analysis Dat	ie: 3/13/20	23	SeqNo: 171	2930	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alpha BHC	0.201	0.0103	0.2064	0	97.4	73.2	151	0.1904	5.43	30	
Beta BHC	0.186	0.0103	0.2064	0	90.0	65.1	144	0.1771	4.74	30	
Gamma BHC (Lindane)	0.204	0.0103	0.2064	0	98.9	67.5	144	0.1931	5.52	30	
Delta BHC	0.203	0.0103	0.2064	0	98.5	67.7	143	0.1925	5.48	30	
Heptachlor	0.202	0.0103	0.2064	0	97.7	75.3	159	0.1893	6.35	30	
Aldrin	0.205	0.0103	0.2064	0	99.2	68.5	149	0.1919	6.52	30	
Heptachlor epoxide	0.206	0.0103	0.2064	0	99.9	70.6	147	0.1935	6.29	30	
gamma-Chlordane	0.201	0.0103	0.2064	0	97.6	54.2	149	0.1888	6.45	30	
Endosulfan I	0.202	0.0103	0.2064	0	97.9	65	147	0.1899	6.22	30	
alpha-Chlordane	0.195	0.0103	0.2064	0	94.7	61.9	144	0.1832	6.44	30	
Dieldrin	0.201	0.0103	0.2064	0	97.5	61.2	146	0.1890	6.30	30	



CLIENT: Libby Environmental

Project: 2021 Blvd Interim Action

QC SUMMARY REPORT

Sample ID: 2303175-001AMSD	SampType: MSD			Units: mg/Kg	J-dry	Prep Dat	te: 3/13/20	23	RunNo: 824	43	
Client ID: BATCH	Batch ID: 39688					Analysis Dat	te: 3/13/20	23	SeqNo: 171	2930	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4,4'-DDE	0.195	0.0103	0.2064	0	94.7	59.4	143	0.1832	6.46	30	
Endrin	0.205	0.0155	0.2064	0	99.3	71.1	147	0.1923	6.33	30	
Endosulfan II	0.203	0.0155	0.2064	0	98.5	65.3	138	0.1912	6.14	30	
4,4´-DDD	0.194	0.0155	0.2064	0	93.8	59	146	0.1812	6.65	30	
Endrin aldehyde	0.195	0.0165	0.2064	0	94.4	49.9	129	0.1842	5.64	30	
Endosulfan sulfate	0.198	0.0155	0.2064	0	96.2	53.3	142	0.1863	6.32	30	
4,4´-DDT	0.194	0.0165	0.2064	0	94.1	57.3	154	0.1814	6.82	30	
Endrin ketone	0.210	0.0206	0.2064	0	102	61.7	133	0.1984	5.65	30	
Methoxychlor	0.191	0.0206	0.2064	0	92.4	57.5	145	0.1793	6.14	30	
Surr: Decachlorobiphenyl	0.220		0.2064		107	12.7	168		0		
Surr: Tetrachloro-m-xylene	0.190		0.2064		92.0	66.6	140		0		



Sample Log-In Check List

Client Name: LIBBY	Work Order Num	per: 2302446	
Logged by: Clare Griggs	Date Received:	2/24/2023	3 11:45:00 AM
Chain of Custody			
1. Is Chain of Custody complete?	Yes 🖌	No 🗌	Not Present
2. How was the sample delivered?	<u>Client</u>		
_oa In			
3 Coolers are present?	Yes 🖌	No 🗌	
4. Shipping container/cooler in good condition?	Yes 🖌	No 🗌	
 Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact) 	Yes	No 🗌	Not Present 🗹
6 Was an attempt made to cool the samples?	Yes	No 🗸	
	Inknown prior to re	ceipt.	
7. Were all items received at a temperature of >2°C to 6°C *	Yes	No 🗌	NA 🗹
8. Sample(s) in proper container(s)?	Yes 🗹	No 🗌	
Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗌	
10. Are samples properly preserved?	Yes 🗹	No 🗌	_
11. Was preservative added to bottles?	Yes	No 🗹	NA
12. Is there headspace in the VOA vials?	Yes	No 🗌	NA 🔽
13. Did all samples containers arrive in good condition(unbroken)?	Yes 🖌	No 🗌	
14. Does paperwork match bottle labels?	Yes 🖌	No 🗌	
A.E. Are matrices correctly identified on Chain of Quaterly?	Vac d		
15. Are matrices correctly identified on Chain of Custody?	Yes V		
10. Is it clear what analyses were requested?			
17. Were all holding times able to be met?	res 💌		
Special Handling (if applicable)			
18. Was client notified of all discrepancies with this order?	Yes	No 🗌	NA 🖌
Person Notified: Date	:		
By Whom: Via:	eMail Ph	one 🗌 Fax	In Person
Regarding:			
Client Instructions:			
19 Additional remarks:			

	Item #	Temp ⁰C
Sample		7.4

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Sending Laboratory:	Subcontracted Laboratory:	
Libby Environmental, Inc. 3322 South Bay Road NE Olympia, WA 98506 Phone: 360-352-2110 Fax: 360-352-4154 Project Manager: Sherry Chilcutt LibbyEnv@gmail.com	Fremont Analytical, Inc. 3600 Fremont Ave N Seattle, WA 98103 Phone: (206) 352-3790 Fax: Requested Turnaround (TAT)	Sta
Project: 2021 Blvd Interim Action		
Analysis	Comments	
lient Sample ID: SO-SS14-0.5-1-0223 Soil Sample	d: 02/24/2023 07:06	Lab ID: L23B105-01
Pesticide, Chlorinated Containers Supplied:	8081 please	
Client Sample ID: SO-SS15-0.5-1-0223 Soil Sample	d: 02/24/2023 07:10	Lab ID: L23B105-02
Pesticide, Chlorinated Containers Supplied:	8081 please	
Client Sample ID: SO-SS16-0.5-1-0223 Soil Sample	d: 02/24/2023 08:48	Lab ID: L23B105-03
Pesticide, Chlorinated Containers Supplied:	8081 please	
Client Sample ID: SO-SS17-0.5-1-0223 Soil Sample	d: 02/24/2023 08:51	Lab ID: L23B105-04
Pest cide, Chlorinated Containers Supplied:	8081 please	
Client Sample ID: SO-SS18-0.5-1-0223 Soil Sample	ed: 02/24/2023 08:53	Lab ID: L23B105-05
Pesticide, Chlorinated Containers Supplied:	8081 please	
Client Sample ID: SO-SS19-0.5-1-0223 Soil Sample	ed: 02/24/2023 08:56	Lab ID: L23B105-06
Pesticide, Chlorinated Containers Supplied:	8081 please	
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Libby Environmental, Inc. 3322 South Bay Road NE • Olympia, WA 98506-2957

SUBCONTRACT ORDER L23B105

(Continued)

Project: 2021 Blvd Interim Action

Analysis			Comments	
Client Sample ID: S0-SS20-0.5-1-0223	Soil s	Sampled: 0	02/24/2023 08:59	Lab ID: L23B105-07
Pesticide, Chlorinated			8081 please	
Containers Supplied:				
Client Sample ID: SO-SS21-0.5-1-0223	Soil .	Sampled: (02/24/2023 09:01	Lab ID: L23B105-08
Pesticide, Chlorinated			8081 please	
Containers Supplied:				
Client Sample ID: SO-SS22-0.5-1-0223	Soil	Sampled:	02/24/2023 09:03	Lab ID: L23B105-09
Pesticide, Chlorinated		1000	8081 please	
Containers Supplied:				
Client Sample ID: SO-SS23-0.5-1-0223	Soil	Sampled:	02/24/2023 09:06	Lab ID: L23B105-10
Pesticide, Chlorinated			8081 please	
Containers Supplied:				
1 ANIN 11:45 2	-24-	23	Aru	2/14/23 11:45
Released By D	ate		Received By	Date
		Page	2 of 2	Dage 27 of 20

Subconducted Euboratory.	
Fremont Analytical, Inc. 3600 Fremont Ave N Seattle, WA 98103 Phone: (206) 352-3790 Fax: Requested Turnaround (TAT)	Sta
Comments	
02/24/2023 07:06	Lab ID: L23B105-01
8081 please	
02/24/2023 07:10	Lab ID: L23B105-02
8081 please	
02/24/2023 08:48	Lab ID: L23B105-03
8081 please	
02/24/2023 08:51	Lab ID: L23B105-04
8081 please	
02/24/2023 08:53	Lab ID: L23B105-05
8081 please	
02/24/2023 08:56	Lab ID: L23B105-06
8081 please	
	Fremont Analytical, Inc. 3600 Fremont Ave N Seattle, WA 98103 Phone: (206) 352-3790 Fax: Requested Turnaround (TAT) _ Comments 02/24/2023 07:06 8081 please 02/24/2023 07:10 8081 please 02/24/2023 08:48 8081 please 02/24/2023 08:51 8081 please 02/24/2023 08:51 8081 please 02/24/2023 08:53 8081 please 02/24/2023 08:53 8081 please



Libby Environmental, Inc. 3322 South Bay Road NE • Olympia, WA 98506-2957

SUBCONTRACT ORDER L23B105

(Continued)

Project: 2021 Blvd Interim Action

Analysis	Comments	
Client Sample ID: SO-SS20-0.5-1-0223 Soi	Sampled: 02/24/2023 08:59	Lab ID: L23B105-07
Pesticide, Chlorinated	8081 please	
Containers Supplied:		
Client Sample ID: SO-SS21-0.5-1-0223 Sol	Sampled: 02/24/2023 09:01	Lab ID: L23B105-08
Pesticide, Chlorinated	8081 please	
Containers Supplied:	-	
Client Sample ID: SO-SS22-0.5-1-0223 Sol	I Sampled: 02/24/2023 09:03	Lab ID: L23B105-09
Pesticide, Chlorinated	8081 please	
Containers Supplied: Re-analyze twice, once fr	om each sample jar provided.	
Client Sample ID: SO-SS23-0.5-1-0223 50	I Sampled: 02/24/2023 09:06	Lab ID: L23B105-10
Pesticide, Chlorinated	8081 please	
Containers Supplied:		
	Δ	
HANK 11:45 2-24	1-23 Automs 2	1/23 11:45
Released By Date	Received By	Date



Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957 Phone (360) 352-2110 • libbyenv@gmail.com

April 07, 2023

Joel Hecker Pioneer Technologies Corporation 5205 Corporate Center Court SE, Suite A Olympia, WA 98503

RE: 2021 Boulevard Work Order Number: L23C173

Enclosed are the results of analyses for samples received by our laboratory on 3/30/2023.

Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of within 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please feel free to contact us. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

- 2 Mint

Sherry Chilcutt Senior Chemist

Libby Environme	ntal, Ir	IC.		Cl	nain	of	Cu	stoc	ly I	Rec	or	ď						www	v.Libb	yEnviro	nmenta	al.co
3322 South Bay Road NE	Ph:	360-352-2	2110					01	201	22								1		. 1		of 15
Olympia, WA 98506	Fax:	360-352-4	4154				Date:	5/1	001	4					Pa	age:		l		of		
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Phone: 360- 828- 3	139	Fax:				(Collect	or:	54						Da	ate of	Colle	ection	: 3	1201-	20	
Client Project # 2021	Bouleva	rd				E	mail:	Hec	kerj	e	مكد	IUNE	er	Lor								
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												Con	taine	rs			TA	T: 2	24HR	48	IR 5-	DAY
LEGAL ACTION CLAUSE: In the event of default of pa	yment and/or failur	re to pay, Client a	grees to pay the cost	ts of collection including of	ourt costs	and reaso	nable atto	mey fees to	be deter	mined by	a court	of law.						Distribu	ution: W	hite - Lab.	Yellow - O	riginator

Libby Environmental, Inc.

2021 BOULEVARD PROJECT Pioneer Technologies Corporation Libby Project # L23C173 Date Received 3/30/2023 Time Received 9:41 3322 South Bay Road NE Olympia, WA 98506 Phone: (360) 352-2110 FAX: (360) 352-4154 Email: libbyenv@gmail.com

Received By SG

Sample Receipt Checklist

Chain of Custody			
1. Is the Chain of Custody is complete?	✓ Yes	🗌 No	
2. How was the sample delivered?	✓ Hand Delivered	Picked Up	Shipped
Log In			
3. Cooler or Shipping Container is present.	✓ Yes	No No	N/A
4. Cooler or Shipping Container is in good condition.	✓ Yes	🗋 No	N/A
5. Cooler or Shipping Container has Custody Seals present.	Yes	✓ No	N/A
6. Was an attempt made to cool the samples?	✓ Yes	🗌 No	N/A
7. Temperature of cooler (0°C to 8°C recommended)	6.6	°C	
8. Temperature of sample(s) (0°C to 8°C recommended)	6.8	°C	
9. Did all containers arrive in good condition (unbroken)?	✓ Yes	🔲 No	
10. Is it clear what analyses were requested?	✓ Yes	🗌 No	
11. Did container labels match Chain of Custody?	✓ Yes	🗌 No	
12. Are matrices correctly identified on Chain of Custody?	✓ Yes	🗌 No	
13. Are correct containers used for the analysis indicated?	✓ Yes	🗌 No	
14. Is there sufficient sample volume for indicated analysis?	✓ Yes	🔲 No	
15. Were all containers properly preserved per each analysis?	✓ Yes	🗌 No	
16. Were VOA vials collected correctly (no headspace)?	Yes	🗌 No	✓ N/A
17. Were all holding times able to be met?	✓ Yes	🗌 No	
Discrepancies/ Notes			
18. Was client notified of all discrepancies?	Yes	🗌 No	☑ N/A
Person Notified:		Date:	
By Whom:		Via:	
Regarding:			
19. Comments.			



3600 Fremont Ave. N. Seattle, WA 98103 T: (206) 352-3790 F: (206) 352-7178 info@fremontanalytical.com

Libby Environmental Sherry Chilcutt 3322 South Bay Road NE Olympia, WA 98506

RE: 2021 Boulevard Work Order Number: 2303697

April 07, 2023

Attention Sherry Chilcutt:

Fremont Analytical, Inc. received 2 sample(s) on 3/31/2023 for the analyses presented in the following report.

Organochlorine Pesticides by EPA Method 8081 Sample Moisture (Percent Moisture)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes Project Manager

DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910

Original



CLIENT: Project: Work Order:	Libby Environmental 2021 Boulevard 2303697	Work Order Sample Su							
Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received						
2303697-001	SO-SS24-0323	03/30/2023 9:20 AM	03/31/2023 9:35 AM						
2303697-002	SO-SS-25-0323	03/30/2023 9:25 AM	03/31/2023 9:35 AM						



Case Narrative

WO#: **2303697** Date: **4/7/2023**

CLIENT:Libby EnvironmentalProject:2021 Boulevard

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers & Acronyms



WO#: 2303697 Date Reported: 4/7/2023

Qualifiers:

- * Flagged value is not within established control limits
- B Analyte detected in the associated Method Blank
- D Dilution was required
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- I Analyte with an internal standard that does not meet established acceptance criteria
- J Analyte detected below Reporting Limit
- N Tentatively Identified Compound (TIC)
- Q Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S Spike recovery outside accepted recovery limits
- ND Not detected at the Reporting Limit
- R High relative percent difference observed

Acronyms:

%Rec - Percent Recovery CCB - Continued Calibration Blank **CCV** - Continued Calibration Verification **DF** - Dilution Factor **DUP - Sample Duplicate** HEM - Hexane Extractable Material ICV - Initial Calibration Verification LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate MCL - Maximum Contaminant Level MB or MBLANK - Method Blank MDL - Method Detection Limit MS/MSD - Matrix Spike / Matrix Spike Duplicate PDS - Post Digestion Spike Ref Val - Reference Value **REP - Sample Replicate** RL - Reporting Limit

- RPD Relative Percent Difference
- SD Serial Dilution
- SGT Silica Gel Treatment
- SPK Spike
- Surr Surrogate



Analytical Report

 Work Order:
 2303697

 Date Reported:
 4/7/2023

Client: Libby Environmental				Collection	Dat	te: 3/30/2023 9:20:00 AM
Project: 2021 Boulevard						
Lab ID: 2303697-001				Matrix: So	oil	
Client Sample ID: S0-SS24-0323					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
				•••••		
Organochlorine Pesticides by EPA	Method 80	<u>81</u>		Batch	ID:	39930 Analyst: KJ
Toxaphene	ND	0.0827		ma/Ka-drv	1	4/6/2023 3:56:57 PM
Alpha BHC	ND	0.0118		ma/Ka-drv	1	4/6/2023 3:56:57 PM
Beta BHC	ND	0.0118		mg/Kg-dry	1	4/6/2023 3:56:57 PM
Gamma BHC (Lindane)	ND	0.0118		mg/Kg-dry	1	4/6/2023 3:56:57 PM
Delta BHC	ND	0.0118		mg/Kg-dry	1	4/6/2023 3:56:57 PM
Heptachlor	ND	0.0118		mg/Kg-dry	1	4/6/2023 3:56:57 PM
Aldrin	ND	0.0118		mg/Kg-dry	1	4/6/2023 3:56:57 PM
Heptachlor epoxide	ND	0.0118		mg/Kg-dry	1	4/6/2023 3:56:57 PM
gamma-Chlordane	ND	0.0118		mg/Kg-dry	1	4/6/2023 3:56:57 PM
Endosulfan I	ND	0.0118		mg/Kg-dry	1	4/6/2023 3:56:57 PM
alpha-Chlordane	ND	0.0118		mg/Kg-dry	1	4/6/2023 3:56:57 PM
Dieldrin	ND	0.0118		mg/Kg-dry	1	4/6/2023 3:56:57 PM
4,4´-DDE	ND	0.0118		mg/Kg-dry	1	4/6/2023 3:56:57 PM
Endrin	ND	0.0177		mg/Kg-dry	1	4/6/2023 3:56:57 PM
Endosulfan II	ND	0.0177		mg/Kg-dry	1	4/6/2023 3:56:57 PM
4,4´-DDD	ND	0.0177		mg/Kg-dry	1	4/6/2023 3:56:57 PM
Endrin aldehyde	ND	0.0189		mg/Kg-dry	1	4/6/2023 3:56:57 PM
Endosulfan sulfate	ND	0.0177		mg/Kg-dry	1	4/6/2023 3:56:57 PM
4,4´-DDT	ND	0.0189		mg/Kg-dry	1	4/6/2023 3:56:57 PM
Endrin ketone	ND	0.0236		mg/Kg-dry	1	4/6/2023 3:56:57 PM
Methoxychlor	ND	0.0236		mg/Kg-dry	1	4/6/2023 3:56:57 PM
Surr: Decachlorobiphenyl	86.5	12.7 - 168		%Rec	1	4/6/2023 3:56:57 PM
Surr: Tetrachloro-m-xylene	67.2	66.6 - 140		%Rec	1	4/6/2023 3:56:57 PM
Sample Moisture (Percent Moisture	<u>ə)</u>			Batch	ID:	R82874 Analyst: MP
Percent Moisture	17.4	0.500		wt%	1	4/3/2023 8:35:16 AM



Analytical Report

 Work Order:
 2303697

 Date Reported:
 4/7/2023

Client: Libby Environmental				Collection	Da	te: 3/30/2023 9:25:00 AM
Project: 2021 Boulevard						
Lab ID: 2303697-002				Matrix: Sc	sil	
Client Sample ID: SO_SS_25_0323					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Analyses	Result	PI	Qual	Units	DF	Date Analyzed
Analyses	Result		Quai	Onits		Date Analyzed
Organochlorine Pesticides by EPA	Method 80	<u>81</u>		Batch	n ID:	39930 Analyst: KJ
Toxaphene	ND	0.0830		mg/Kg-dry	1	4/6/2023 4:26:02 PM
Alpha BHC	ND	0.0119		mg/Kg-dry	1	4/6/2023 4:26:02 PM
Beta BHC	ND	0.0119		mg/Kg-dry	1	4/6/2023 4:26:02 PM
Gamma BHC (Lindane)	ND	0.0119		mg/Kg-dry	1	4/6/2023 4:26:02 PM
Delta BHC	ND	0.0119		mg/Kg-dry	1	4/6/2023 4:26:02 PM
Heptachlor	ND	0.0119		mg/Kg-dry	1	4/6/2023 4:26:02 PM
Aldrin	ND	0.0119		mg/Kg-dry	1	4/6/2023 4:26:02 PM
Heptachlor epoxide	ND	0.0119		mg/Kg-dry	1	4/6/2023 4:26:02 PM
gamma-Chlordane	ND	0.0119		mg/Kg-dry	1	4/6/2023 4:26:02 PM
Endosulfan I	ND	0.0119		mg/Kg-dry	1	4/6/2023 4:26:02 PM
alpha-Chlordane	ND	0.0119		mg/Kg-dry	1	4/6/2023 4:26:02 PM
Dieldrin	ND	0.0119		mg/Kg-dry	1	4/6/2023 4:26:02 PM
4,4'-DDE	ND	0.0119		mg/Kg-dry	1	4/6/2023 4:26:02 PM
Endrin	ND	0.0178		mg/Kg-dry	1	4/6/2023 4:26:02 PM
Endosulfan II	ND	0.0178		mg/Kg-dry	1	4/6/2023 4:26:02 PM
4,4´-DDD	ND	0.0178		mg/Kg-dry	1	4/6/2023 4:26:02 PM
Endrin aldehyde	ND	0.0190		mg/Kg-dry	1	4/6/2023 4:26:02 PM
Endosulfan sulfate	ND	0.0178		mg/Kg-dry	1	4/6/2023 4:26:02 PM
4,4´-DDT	ND	0.0190		mg/Kg-dry	1	4/6/2023 4:26:02 PM
Endrin ketone	ND	0.0237		mg/Kg-dry	1	4/6/2023 4:26:02 PM
Methoxychlor	ND	0.0237		mg/Kg-dry	1	4/6/2023 4:26:02 PM
Surr: Decachlorobiphenyl	145	12.7 - 168		%Rec	1	4/6/2023 4:26:02 PM
Surr: Tetrachloro-m-xylene	119	66.6 - 140		%Rec	1	4/6/2023 4:26:02 PM
Sample Moisture (Percent Moistur	<u>e)</u>			Batch	n ID:	R82874 Analyst: MP
Percent Moisture	19.4	0.500		wt%	1	4/3/2023 8:35:16 AM



CLIENT: Libby Environmental

Project: 2021 Boulevard

QC SUMMARY REPORT

Sample ID: MB-39930	SampType: MBLK			Units: mg/Kg	Prep Date: 4/5/2023			RunNo: 83000			
Client ID: MBLKS	Batch ID: 39930					Analysis Date	4/6/202	3	SeqNo: 17	27586	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toxaphene	ND	0.0700									
Alpha BHC	ND	0.0100									
Beta BHC	ND	0.0100									
Gamma BHC (Lindane)	ND	0.0100									
Delta BHC	ND	0.0100									
Heptachlor	ND	0.0100									
Aldrin	ND	0.0100									
Heptachlor epoxide	ND	0.0100									
gamma-Chlordane	ND	0.0100									
Endosulfan I	ND	0.0100									
alpha-Chlordane	ND	0.0100									
Dieldrin	ND	0.0100									
4,4´-DDE	ND	0.0100									
Endrin	ND	0.0150									
Endosulfan II	ND	0.0150									
4,4´-DDD	ND	0.0150									
Endrin aldehyde	ND	0.0160									
Endosulfan sulfate	ND	0.0150									
4,4´-DDT	ND	0.0160									
Endrin ketone	ND	0.0200									
Methoxychlor	ND	0.0200									
Surr: Decachlorobiphenyl	0.191		0.2000		95.7	12.7	168				
Surr: Tetrachloro-m-xylene	0.146		0.2000		73.1	66.6	140				
Sample ID: LCS1-39930	SampType: LCS			Units: mg/Kg		Prep Date:	4/5/202	23	RunNo: 83	000	
Client ID: LCSS	Batch ID: 39930					Analysis Date	4/6/202	23	SeqNo: 172	27587	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit H	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alpha BHC	0.192	0.0100	0.2000	0	95.8	68.1	149				
Beta BHC	0.177	0.0100	0.2000	0	88.7	69.8	138				
Gamma BHC (Lindane)	0.196	0.0100	0.2000	0	97.8	68.7	139				



Project:

CLIENT: Libby Environmental

2021 Boulevard

QC SUMMARY REPORT

Sample ID: LCS1-39930	SampType: LCS			Units: mg/Kg	Prep Date: 4/5/2023			3	RunNo: 83000			
Client ID: LCSS	Batch ID: 39930					Analysis Da	ite: 4/6/202	3	SeqNo: 17	27587		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Delta BHC	0.193	0.0100	0.2000	0	96.5	70	138					
Heptachlor	0.196	0.0100	0.2000	0	98.0	77.9	150					
Aldrin	0.199	0.0100	0.2000	0	99.3	68.1	144					
Heptachlor epoxide	0.203	0.0100	0.2000	0	102	69.3	143					
gamma-Chlordane	0.197	0.0100	0.2000	0	98.6	67	141					
Endosulfan I	0.202	0.0100	0.2000	0	101	68.2	142					
alpha-Chlordane	0.192	0.0100	0.2000	0	96.0	65.3	140					
Dieldrin	0.198	0.0100	0.2000	0	98.9	66.3	142					
4,4´-DDE	0.191	0.0100	0.2000	0	95.4	64	135					
Endrin	0.200	0.0150	0.2000	0	99.9	71.7	144					
Endosulfan II	0.203	0.0150	0.2000	0	102	67.6	135					
4,4´-DDD	0.189	0.0150	0.2000	0	94.7	61.8	142					
Endrin aldehyde	0.173	0.0160	0.2000	0	86.5	65.1	135					
Endosulfan sulfate	0.199	0.0150	0.2000	0	99.7	64.1	135					
4,4´-DDT	0.192	0.0160	0.2000	0	95.8	68.2	140					
Endrin ketone	0.209	0.0200	0.2000	0	105	66.4	132					
Methoxychlor	0.188	0.0200	0.2000	0	93.9	66	136					
Surr: Decachlorobiphenyl	0.200		0.2000		99.8	12.7	168					
Surr: Tetrachloro-m-xylene	0.154		0.2000		76.8	66.6	140					
Sample ID: LCS2-39930	SampType: LCS			Units: mg/Kg		Prep Da	ite: 4/5/202	3	RunNo: 83	000		
Client ID: LCSS	Batch ID: 39930					Analysis Da	ite: 4/6/202	3	SeqNo: 172	27588		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Toxaphene	0.794	0.0700	1.000	0	79.4	58	150					
Surr: Decachlorobiphenyl	0.187		0.2000		93.4	12.7	168					
Surr: Tetrachloro-m-xylene	0.147		0.2000		73.6	66.6	140					



CLIENT: Libby Environmental

Project: 2021 Boulevard

QC SUMMARY REPORT

Sample ID: 2303697-001AMS	SampType: MS			Units: mg/k	(g-dry	Prep Da	te: 4/5/2023	3	RunNo: 83000		
Client ID: SO-SS24-0323	Batch ID: 39930					Analysis Da	te: 4/6/2023	3	SeqNo: 172	7590	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alpha BHC	0.260	0.0118	0.2366	0	110	70.1	157				
Beta BHC	0.242	0.0118	0.2366	0	102	69.4	153				
Gamma BHC (Lindane)	0.265	0.0118	0.2366	0	112	62.3	155				
Delta BHC	0.267	0.0118	0.2366	0	113	67.8	154				
Heptachlor	0.261	0.0118	0.2366	0	110	72.6	164				
Aldrin	0.264	0.0118	0.2366	0	112	65.1	155				
Heptachlor epoxide	0.272	0.0118	0.2366	0	115	67.1	156				
gamma-Chlordane	0.263	0.0118	0.2366	0	111	50.8	158				
Endosulfan I	0.270	0.0118	0.2366	0	114	69.5	145				
alpha-Chlordane	0.256	0.0118	0.2366	0	108	60.1	148				
Dieldrin	0.266	0.0118	0.2366	0	112	55.3	159				
4,4´-DDE	0.257	0.0118	0.2366	0	109	49.3	157				
Endrin	0.254	0.0177	0.2366	0	107	62.8	162				
Endosulfan II	0.277	0.0177	0.2366	0	117	69.2	143				
4,4´-DDD	0.257	0.0177	0.2366	0	109	60.5	152				
Endrin aldehyde	0.262	0.0189	0.2366	0	111	49.6	134				
Endosulfan sulfate	0.272	0.0177	0.2366	0	115	59.9	146				
4,4´-DDT	0.260	0.0189	0.2366	0	110	46.2	168				
Endrin ketone	0.291	0.0237	0.2366	0	123	60	147				
Methoxychlor	0.256	0.0237	0.2366	0	108	55	154				
Surr: Decachlorobiphenyl	0.267		0.2366		113	12.7	168				
Surr: Tetrachloro-m-xylene	0.203		0.2366		85.7	66.6	140				
Sample ID: 2303697-001AMSD	SampType: MSD			Units: mg/k	(g-dry	Prep Da	te: 4/5/2023	3	RunNo: 830	00	
Client ID: SO-SS24-0323	Batch ID: 39930					Analysis Da	te: 4/6/2023	3	SeqNo: 172	7591	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alpha BHC	0.246	0.0118	0.2368	0	104	70.1	157	0.2600	5.73	30	
Beta BHC	0.231	0.0118	0.2368	0	97.6	69.4	153	0.2417	4.41	30	
Gamma BHC (Lindane)	0.251	0.0118	0.2368	0	106	62.3	155	0.2652	5.52	30	
Delta BHC	0.255	0.0118	0.2368	0	108	67.8	154	0.2668	4.44	30	



CLIENT: Libby Environmental

Project: 2021 Boulevard

QC SUMMARY REPORT

Sample ID: 2303697-001AMSD	SampType: MSD			Units: mg/K	g-dry	Prep Dat	te: 4/5/202	23	RunNo: 830	00	
Client ID: SO-SS24-0323	Batch ID: 39930					Analysis Dat	te: 4/6/202	23	SeqNo: 172	7591	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heptachlor	0.250	0.0118	0.2368	0	106	72.6	164	0.2609	4.21	30	
Aldrin	0.254	0.0118	0.2368	0	107	65.1	155	0.2643	3.83	30	
Heptachlor epoxide	0.262	0.0118	0.2368	0	111	67.1	156	0.2724	3.87	30	
gamma-Chlordane	0.254	0.0118	0.2368	0	107	50.8	158	0.2626	3.14	30	
Endosulfan I	0.261	0.0118	0.2368	0	110	69.5	145	0.2704	3.51	30	
alpha-Chlordane	0.248	0.0118	0.2368	0	105	60.1	148	0.2564	3.24	30	
Dieldrin	0.257	0.0118	0.2368	0	108	55.3	159	0.2658	3.52	30	
4,4´-DDE	0.249	0.0118	0.2368	0	105	49.3	157	0.2567	3.20	30	
Endrin	0.248	0.0178	0.2368	0	105	62.8	162	0.2542	2.52	30	
Endosulfan II	0.267	0.0178	0.2368	0	113	69.2	143	0.2769	3.76	30	
4,4´-DDD	0.247	0.0178	0.2368	0	105	60.5	152	0.2569	3.74	30	
Endrin aldehyde	0.258	0.0189	0.2368	0	109	49.6	134	0.2621	1.46	30	
Endosulfan sulfate	0.260	0.0178	0.2368	0	110	59.9	146	0.2724	4.48	30	
4,4´-DDT	0.251	0.0189	0.2368	0	106	46.2	168	0.2604	3.80	30	
Endrin ketone	0.277	0.0237	0.2368	0	117	60	147	0.2906	4.81	30	
Methoxychlor	0.244	0.0237	0.2368	0	103	55	154	0.2558	4.56	30	
Surr: Decachlorobiphenyl	0.288		0.2368		122	12.7	168		0		
Surr: Tetrachloro-m-xylene	0.224		0.2368		94.5	66.6	140		0		



Sample Log-In Check List

Client Name: LIBBY	Work Order Num	ber: 2303697		
Logged by: Morgan Wilson	Date Received:	3/31/2023	9:35:00 AM	
Chain of Custody				
1. Is Chain of Custody complete?	Yes 🖌	No 🗌	Not Present	
2. How was the sample delivered?	UPS			
Log In				
3. Coolers are present?	Yes 🖌	No 🗌		
4. Shipping container/cooler in good condition?	Yes 🖌	No 🗌		
 Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact) 	Yes	No 🗌	Not Present 🗹	
6. Was an attempt made to cool the samples?	Yes 🗹	No 🗌	NA 🗌	
7. Were all items received at a temperature of >2°C to 6°C *	Yes 🖌	No 🗌		
8. Sample(s) in proper container(s)?	Yes 🖌	No 🗌		
9. Sufficient sample volume for indicated test(s)?	Yes 🖌	No 🗌		
10. Are samples properly preserved?	Yes 🖌	No 🗌		
11. Was preservative added to bottles?	Yes 🗌	No 🗹	NA 🗌	
12. Is there headspace in the VOA vials?	Yes	No 🗌	NA 🔽	
13. Did all samples containers arrive in good condition(unbroken)?	Yes 🗹	No 🗌		
14. Does paperwork match bottle labels?	Yes 🗹	No 🗌		
15. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗌		
16. Is it clear what analyses were requested?	Yes 🗹	No 🗌		
17. Were all holding times able to be met?	Yes 🖌	No 🗌		
<u>Special Handling (if applicable)</u>				
18. Was client notified of all discrepancies with this order?	Yes	No 🗌	NA 🗹	_
Person Notified: Date	:			
By Whom: Via:	🗌 eMail 🗌 Ph	one 🗌 Fax 🛛	In Person	
Regarding:				
Client Instructions:				
19. Additional remarks:				

Item Information

Item #	Temp ⁰C
Samplle	1.8

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Libby Environmental, Inc.

3322 South Bay Road NE · Olympia, WA 98506-2957

SUBCONTRACT ORDER L23C173

Page 12 of 1

Page 15 of 15

Sending Laboratory:

Libby Environmental, Inc. 3322 South Bay Road NE Olympia, WA 98506 Phone: 360-352-2110 Fax: 360-352-4154

Project Manager: Sherry Chilcutt LibbyEnv@gmail.com

Subcontracted Laboratory:

Fremont Analytical, Inc. 3600 Fremont Ave N Seattle, WA 98103 Phone: (206) 352-3790 Fax:

Requested Turnaround (TAT)

Project: 2021 Boulevard

Released

mitti anolu 3.30.23

Comments Analysis Lab ID: L23C173-01 Soil Sampled: 03/30/2023 09:20 Client Sample ID: SO-SS24-0323 8081 please Pesticide, Chlorinated Containers Supplied: Lab ID: L23C173-02 Client Sample ID: SO-SS-25-0323 Soil Sampled: 03/30/2023 09:25 8081 please Pesticide, Chlorinated Containers Supplied: Date Date **Beceived By**

Page 1 of 1

Appendix E



Waste Profile: Boulevard Nursery Soil

Status: APPROVED

Approval Number: WC-23-28

Generator Company

Company: Pioneer Technologies Corporation Address: City: Postal Code: Phone: State/Province: County:

Generator Site

Site: PIONEER Technologies Corporation Address: 5205 Corporate Center Court Southeast City: Lacey Postal code: 98503 Phone: State/Province: WA County:

Waste Origin

Address: 2021 Boulevard Road SE City: Olympia State/Province: WA Postal code: 98501 County: Thurston

Landfill

Landfill: Wasco County Landfill Address: 2550 Steele Road City: The Dalles State/Province: OR Postal code: 97058 Phone:

Billing Company

Company: DH Environmental Address: 1011 SW Klickitat Way Address 2: Suite 107 City: Seattle Postal Code: 98134 Phone: 206-445-4556

State/Province: WA County: King

Billing Site

Company: DH Environmental Address: 1011 SW Klickitat Way Address 2: Suite 107 City: Seattle Postal code: 98134 Phone: 206-445-4556 State/Province: WA

County: King

Broker/Consultant Company 1

Company: DH Environmental Address: 1011 SW Klickitat Way Address 2: Suite 107 City: Seattle Postal Code: 98134 Phone: 206-445-4556 State/Province: WA County: King

Broker/Consultant Site 1

Company: DH Environmental Address: 1011 SW Klickitat Way Address 2: Suite 107 City: Seattle Postal Code: 98134 Phone: 206-445-4556 State/Province: WA County: King

Transporter Company 1

Company: Dietrich Trucking, LLC Address: 7211 NE 43rd Ave. Address 2: STE. A City: Vancouver Postal Code: 98661 Phone: (360) 892-3881 State/Province: WA County: Clark

Transporter Site 1

Company: Garland Address: 7211 NE 43rd Ave. STE. A Vancouver, WA 98661 Address 2: STE. A City: Vancouver Postal code: 98661 Phone: Smith State/Province: WA County: Clark State ID: Clark Permit #: Permit Exp.:

Non-Hazardous determination

EPA hazardous waste: No Process knowledge: No Process knowledge details: Safety data sheet:false

Certified analytical: Yes

Is this a representative sample in accordance with 40 CFR 261? Yes What type of sample is this?:Grab Sample ID:Multiple samples - see attached data Exempt waste:False Exempt waste item: Reference to exemption: State hazardous material: No State waste codes: Waste delisted: No Contains PCB: No Is this waste subject to 40 CFR 761? No Is this a remediation project under 40 CFR 761.61(a)? No Has this waste been imported into the USA? No Contains asbestos: No Asbestos type: Produced from benzene transfer or benzene waste operations: No Waste contain NORM or TENORM radioactive material: No Isotopes: Waste contain regulated, untreated or infectious medical waste: No Waste subject to RCRA Organic Air Emissions Standards: No Waste from a CERCLA site: No Record of decision: Waste produced from a site remediation project: No DOT hazardous: No

Waste Description

Waste description: Soil containing concentrations of Dieldrin Industrial waste: No How was waste generated?:Nursery operations Why is this material being disposed? the Deildrin concentration exceeds the Ecology Method B cleanup level for Deildrin - 0.88 mg/kg was the highest concentration detected Waste been contaminated: Yes Contamination description: Concentrations of Dieldrin detected in the soil Waste constituents: Dieldrin: 0.00-0.00% Color:gray to brown Physical state:Solid Free liquid range: pH:N/A Odor:No Odor Odor description: Material reactive: No Flash point:N/A

Shipping details

Event frequency: One Time Anticipated number of loads: 17 Estimated annual quantity: 500 Unit of measure: Tons Shipping frequency: One time Quantity per shipment: 500 tons Container type: Dump Truck Container type description: Container size: 30 tons

Signature

I hereby certify that all information contained herein is true and correct, and the material described is properly identified, classified, packaged, labeled, and prepared as indicated. I certify that this waste is either (i) not hazardous or dangerous as defined by the U.S. EPA, or the state or province of origin; or (ii) (and applicable to TX only) hazardous, special or industrial waste (including friable asbestos) that meets the classification of Class II waste. I certify that this waste does not contain any regulated radioactive materials and does not contain PCB's regulated by TSCA or any other regulatory authority. I certify that all known and suspected hazards have been disclosed. I certify that all samples used for this analysis are representative of the materials described herein. I understand that all wastes may undergo inspection upon arrival at the designated facility and may be refused if the delivered material does not conform to the description herein. Notification will be provided immediately if there is a change in the composition of, or process generating this waste stream, prior to offering the waste for shipment or management.

Tony Bahnick Print Name: Certification signature: Anthony J. Bahnick

Title: Sr. Project Manager

Company: DH Environmental

Certified at: 2023-01-25T18:49:09.3345548+00:00

2550 Steele Road

The Dalles, OR 97058

369	Ticket:	459231
DH Environmental, Inc.	Date In:	2/21/2023
David Hill	Time In:	10:29:08
	Date Out:	2/21/2023
Seattle, WA 98134	Time Out:	11:06:52
	Ref:	8403

Description

Scale 3 Gross Weight:	98460	Vehicle:	WC-23-28
Scale 7 Tare Weight:	39520	Roll- Off:	
Net Weight:	58940	Tons:	29.47

OTHER SOILS OTHER SOILS OPERATOR: LINDAM PO: TRAILER:

DRIVER: DIETRICH 8403

2550 Steele Road

The Dalles, OR 97058

369	Ticket:	459232
DH Environmental, Inc.	Date In:	2/21/2023
David Hill	Time In:	10:29:53
	Date Out:	2/21/2023
Seattle, WA 98134	Time Out:	10:57:01
	Ref:	8402

Description

Scale 3 Gross Weight:	102940	Vehicle:	WC-23-28
Scale 7 Tare Weight:	39640	Roll- Off:	
Net Weight:	63300	Tons:	31.65

OTHER SOILS OTHER SOILS OPERATOR: LINDAM PO: TRAILER:

DRIVER: DIETRICH 8402

2550 Steele Road

The Dalles, OR 97058

369	Ticket:	459233
DH Environmental, Inc.	Date In:	2/21/2023
David Hill	Time In:	10:30:29
	Date Out:	2/21/2023
Seattle, WA 98134	Time Out:	11:07:50
	Ref:	8537

Description

Scale 3 Gross Weight:	102840	Vehicle:	WC-23-28
Scale 7 Tare Weight:	39500	Roll- Off:	
Net Weight:	63340	Tons:	31.67

OTHER SOILS OTHER SOILS OPERATOR: LINDAM PO: TRAILER:

DRIVER: DIETRICH 8537

2550 Steele Road

The Dalles, OR 97058

369	Ticket:	459244
DH Environmental, Inc.	Date In:	2/21/2023
David Hill	Time In:	10:51:01
	Date Out:	2/21/2023
Seattle, WA 98134	Time Out:	11:28:34
	Ref:	8401

Description

Scale 3 Gross Weight:	102060	Vehicle:	WC-23-28
Scale 7 Tare Weight:	39720	Roll- Off:	
Net Weight:	62340	Tons:	31.17

OTHER SOILS OTHER SOILS OPERATOR: LINDAM PO: TRAILER:

DRIVER: DIETRICH 8401

2550 Steele Road

The Dalles, OR 97058

369	Ticket:	459418
DH Environmental, Inc.	Date In:	2/22/2023
David Hill	Time In:	10:49:40
	Date Out:	2/22/2023
Seattle, WA 98134	Time Out:	11:32:21
	Ref:	8403

Description

Scale 3 Gross Weight:	101680	Vehicle:	WC-23-28
Scale 7 Tare Weight:	40060	Roll- Off:	
Net Weight:	61620	Tons:	30.81

OTHER SOILS OTHER SOILS OPERATOR: BLWEST PO: TRAILER:

DRIVER: DIETRICH 8403

2550 Steele Road

The Dalles, OR 97058

369	Ticket:	459419
DH Environmental, Inc.	Date In:	2/22/2023
David Hill	Time In:	10:50:26
	Date Out:	2/22/2023
Seattle, WA 98134	Time Out:	11:30:27
	Ref:	8402

Description

Scale 3 Gross Weight:	105960	Vehicle:	WC-23-28
Scale 7 Tare Weight:	40100	Roll- Off:	
Net Weight:	65860	Tons:	32.93

OTHER SOILS OTHER SOILS OPERATOR: BLWEST PO: TRAILER:

DRIVER: DIETRICH 8402
2550 Steele Road

The Dalles, OR 97058

369	Ticket:	459420
DH Environmental, Inc.	Date In:	2/22/2023
David Hill	Time In:	10:51:15
	Date Out:	2/22/2023
Seattle, WA 98134	Time Out:	11:31:26
	Ref:	8401

Description

Scale 3 Gross Weight:	103700	Vehicle:	WC-23-28
Scale 7 Tare Weight:	40160	Roll- Off:	
Net Weight:	63540	Tons:	31.77

OTHER SOILS OTHER SOILS OPERATOR: BLWEST PO: TRAILER:

DRIVER: DIETRICH 8401

2550 Steele Road

The Dalles, OR 97058

369	Ticket:	459422
DH Environmental, Inc.	Date In:	2/22/2023
David Hill	Time In:	10:52:58
	Date Out:	2/22/2023
Seattle, WA 98134	Time Out:	11:20:00
	Ref:	8537

Description

Scale 3 Gross Weight:	104020	Vehicle:	WC-23-28
Scale 7 Tare Weight:	40120	Roll- Off:	
Net Weight:	63900	Tons:	31.95

OTHER SOILS OTHER SOILS OPERATOR: BLWEST PO: TRAILER:

DRIVER: DIETRICH 8537

2550 Steele Road

The Dalles, OR 97058

369	Ticket:	459532
DH Environmental, Inc.	Date In:	2/24/2023
David Hill	Time In:	11:24:30
	Date Out:	2/24/2023
Seattle, WA 98134	Time Out:	11:39:33
	Ref:	8402

Description

Scale 3 Gross Weight:	103160	Vehicle:	WC-23-28
Scale 7 Tare Weight:	41420	Roll- Off:	
Net Weight:	61740	Tons:	30.87

OTHER SOILS OTHER SOILS OPERATOR: BLWEST PO: TRAILER:

DRIVER: DIETRICH 8402

2550 Steele Road

The Dalles, OR 97058

369	Ticket:	459533
DH Environmental, Inc.	Date In:	2/24/2023
David Hill	Time In:	11:25:15
	Date Out:	2/24/2023
Seattle, WA 98134	Time Out:	11:45:29
	Ref:	8401

Description

Scale 3 Gross Weight:	102600	Vehicle:	WC-23-28
Scale 7 Tare Weight:	42180	Roll- Off:	
Net Weight:	60420	Tons:	30.21

OTHER SOILS OTHER SOILS OPERATOR: BLWEST PO: TRAILER:

DRIVER: DIETRICH 8401

2550 Steele Road

The Dalles, OR 97058

369	Ticket:	459534
DH Environmental, Inc.	Date In:	2/24/2023
David Hill	Time In:	11:30:41
	Date Out:	2/24/2023
Seattle, WA 98134	Time Out:	12:06:23
	Ref:	8537

Description

Scale 3 Gross Weight:	102420	Vehicle:	WC-23-28
Scale 7 Tare Weight:	39680	Roll- Off:	
Net Weight:	62740	Tons:	31.37

OTHER SOILS OTHER SOILS OPERATOR: BLWEST PO: TRAILER:

DRIVER: DIETRICH 8537

2550 Steele Road

The Dalles, OR 97058

369	Ticket:	459542
DH Environmental, Inc.	Date In:	2/24/2023
David Hill	Time In:	11:58:43
	Date Out:	2/24/2023
Seattle, WA 98134	Time Out:	12:30:25
	Ref:	8404

Description

Scale 3 Gross Weight:	100960	Vehicle:	WC-23-28
Scale 7 Tare Weight:	39920	Roll- Off:	
Net Weight:	61040	Tons:	30.52

OTHER SOILS OTHER SOILS OPERATOR: BLWEST PO: TRAILER:

DRIVER: DIETRICH 8404

2550 Steele Road

The Dalles, OR 97058

369	Ticket:	459666
DH Environmental, Inc.	Date In:	2/27/2023
David Hill	Time In:	10:33:11
	Date Out:	2/27/2023
Seattle, WA 98134	Time Out:	10:59:35
	Ref:	8402

Description

Scale 3 Gross Weight:	87880	Vehicle:	WC-23-28
Scale 7 Tare Weight:	40280	Roll- Off:	
Net Weight:	47600	Tons:	23.80

OTHER SOILS OTHER SOILS OPERATOR: SBEAVER PO: TRAILER:

DRIVER: DIETRICH 8402

2550 Steele Road

The Dalles, OR 97058

369	Ticket:	459672
DH Environmental, Inc.	Date In:	2/27/2023
David Hill	Time In:	10:46:48
	Date Out:	2/27/2023
Seattle, WA 98134	Time Out:	11:56:49
	Ref:	8401

Description

Scale 3 Gross Weight:	103220	Vehicle:	WC-23-28
Scale 7 Tare Weight:	39560	Roll- Off:	
Net Weight:	63660	Tons:	31.83

OTHER SOILS OTHER SOILS OPERATOR: SBEAVER PO: TRAILER:

DRIVER: DIETRICH 8401

2550 Steele Road

The Dalles, OR 97058

369	Ticket:	459681
DH Environmental, Inc.	Date In:	2/27/2023
David Hill	Time In:	11:22:55
	Date Out:	2/27/2023
Seattle, WA 98134	Time Out:	11:55:33
	Ref:	8404

Description

Scale 3 Gross Weight:	101880	Vehicle:	WC-23-28
Scale 7 Tare Weight:	39340	Roll- Off:	
Net Weight:	62540	Tons:	31.27

OTHER SOILS OTHER SOILS OPERATOR: SBEAVER PO: TRAILER:

DRIVER: DIETRICH 8404

2550 Steele Road

The Dalles, OR 97058

369	Ticket:	459683
DH Environmental, Inc.	Date In:	2/27/2023
David Hill	Time In:	11:26:21
	Date Out:	2/27/2023
Seattle, WA 98134	Time Out:	11:54:33
	Ref:	8537

Description

Scale 3 Gross Weight:	91960	Vehicle:	WC-23-28
Scale 7 Tare Weight:	39520	Roll- Off:	
Net Weight:	52440	Tons:	26.22

OTHER SOILS OTHER SOILS OPERATOR: SBEAVER PO: TRAILER:

DRIVER: DIETRICH 8537

T	NON-HAZARDOUS	1. Generator ID Number		2. Page 1 of	3. Emergency Re	sponse	e Phone	4. Waste T	racking Nu	mber		
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	5. Generator's Name and Maili	ng Address			Generator's Site	Addres	s (if different	than mailing add	ress)			
	2021 Boolevard F	Road SE										
	Olympia VA 98	501	NO.	1								
	Generator's Phone: 6. Transporter 1. Company Nan	ne				_			Number			
	DH Environme	ntal Inc.							100	0047	2.1	7
	7. Transporter 2 Company Nan	ne						U.S. EPA ID	Number		-	-
								1				
	8. Designated Facility Name an	nd Site Address						U.S. EPA ID	Number			
	5400 W Marginal	ierica.										
	Seattle MA 991	16										
	Facility's Phone:										-	
	9 Waste Shinning Nam	e and Description			10	. Conta	ainers	11. Total	12. Unit	-		
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