MAUL FOSTER ALONGI
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August 14, 2024
Project No. M2580.02.002

Whitney Murdoch
Working Homes, LLC
whitneym@workinghomesllc.org

Re: Joseph Tax Lot Surface Soil Investigation

Dear Whitney Cummings:

At the request of Working Homes, LLC., Maul Foster & Alongi, Inc. (MFA), conducted a surface soil investigation at Tax Lot 02S45E290000103, in Joseph, Oregon (the Property). The details of the investigation are described in this report.

Background

The Property is approximately 20-acres of undeveloped land in Joseph, Oregon (Figure 1). The Property has been utilized for agriculture (e.g., barley) and for pastureland since it was purchased by the current owner's family in the early 1950s.

Maul Foster & Alongi, Inc. previously conducted a Phase I Environmental Site Assessment[1] which identified the use of herbicides as a Recognized Environmental Condition for the Property. Herbicides were broadcast over the entire Property during barley growing operations for much of the 1990s. Residual metals, chlorinated herbicides, and dioxins may be present in soil and have the potential to be harmful to construction workers and property occupants. At the request of Working Homes, LLC., MFA has conducted soil sampling and analytical analysis to determine if contaminants are present in the soil before development begins. Field activities, analytical results, and conclusions are described below.

Field Activities

Surface soils were assessed using modified incremental sampling methodology (ISM) procedures to determine a statistically supported unbiased mean concentration of each analyte within predefined areas of the Property. The Property was divided into six defined areas, termed decision units (DUs), as shown on Figure 2. Thirty increment samples were collected from 30 random locations within each DU. The target mass of each increment was approximately 33 grams, to achieve the overall target sample mass of 1 kilogram. The increments were homogenized and combined into one ISM sample and analyzed to obtain a representative average surface soil contaminant concentration for each DU.

Increments were collected using stainless-steel sampling equipment (e.g., shovels, spoons, and bowls) from a target depth ranging from the ground surface to 1 foot. Sampling equipment was

[1] 2023. Maul Foster & Alongi, Inc. Phase I Environmental Site Assessment, Tax Lot 02S45E290000103, Joseph, Oregon. October 16.

decontaminated between each DU, using distilled water, phosphate-fee detergent, and paper towels. After sample collection, the surface was restored to the previous condition, as much as was practicable.

Analytical Results and Screening Criteria

ISM samples were submitted to Apex Laboratories for the following analysis:

- Resource Recovery and Conservation Act 8 metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and sliver) by U.S. Environmental Protection Agency (USEPA) Method 6020
- Chlorinated herbicides by USEPA Method 8151
- Dioxins/ Furans by USEPA Method 8290A

Analytical sample results were screened against the Oregon Department of Environmental Quality (DEQ) risk-based concentrations (RBCs). RBCs evaluate the risk of exposure of specific analytes to humans and the environment based on the toxicity of each analyte, the pathway of the exposure, and current and likely future receptors (construction workers, residential occupants, etc.). DEQ guidance also defines screening criteria for the use of materials for construction (fill), which are associated with RBCs and account for region-specific background metals concentrations. Analytical results were screened against the following criteria and are shown in the attached Table:

- Residential RBCs for soil ingestion, dermal contact, and inhalation
- Construction and excavation worker RBCs for soil ingestion, dermal contact, and inhalation
- Residential RBCs for soil volatilization to outdoor air
- Residential RBCs for soil leaching to groundwater
- Clean fill (Blue Mountain Region)
- Background metals concentrations (Blue Mountain Region)

Conclusions

Soil samples collected and analyzed from each of the six DUs at the Property, did not exceed the respective DEQ RBC screening criteria for metals, chlorinated herbicides, or dioxins/furans. Additionally, when compared to clean fill screening criteria and background metal concentrations typical for the Blue Mountain Region, soil sample concentrations were not detected above method reporting limits or were below screening criteria concentrations, indicating that the surface soil from the Property is suitable for use as fill material during development. Analytical results indicate that the historical use of herbicides has not impacted surface soil at the Property. Based on this data and due to the likely discing/tiling of soil, impacts to subsurface soils appear unlikely and no further investigation is warranted.

Sincerely,

Maul Foster & Alongi, Inc.

Lisa M. Pritzl
Senior Geologist

Caitlin Bryan
Principal Environmental Scientist

Attachments

Limitations

Figures

Table - Summary of Soil Analytical Results

Analytical Laboratory Report

cc: Nils Christoffersen

Limitations

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

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

Figures

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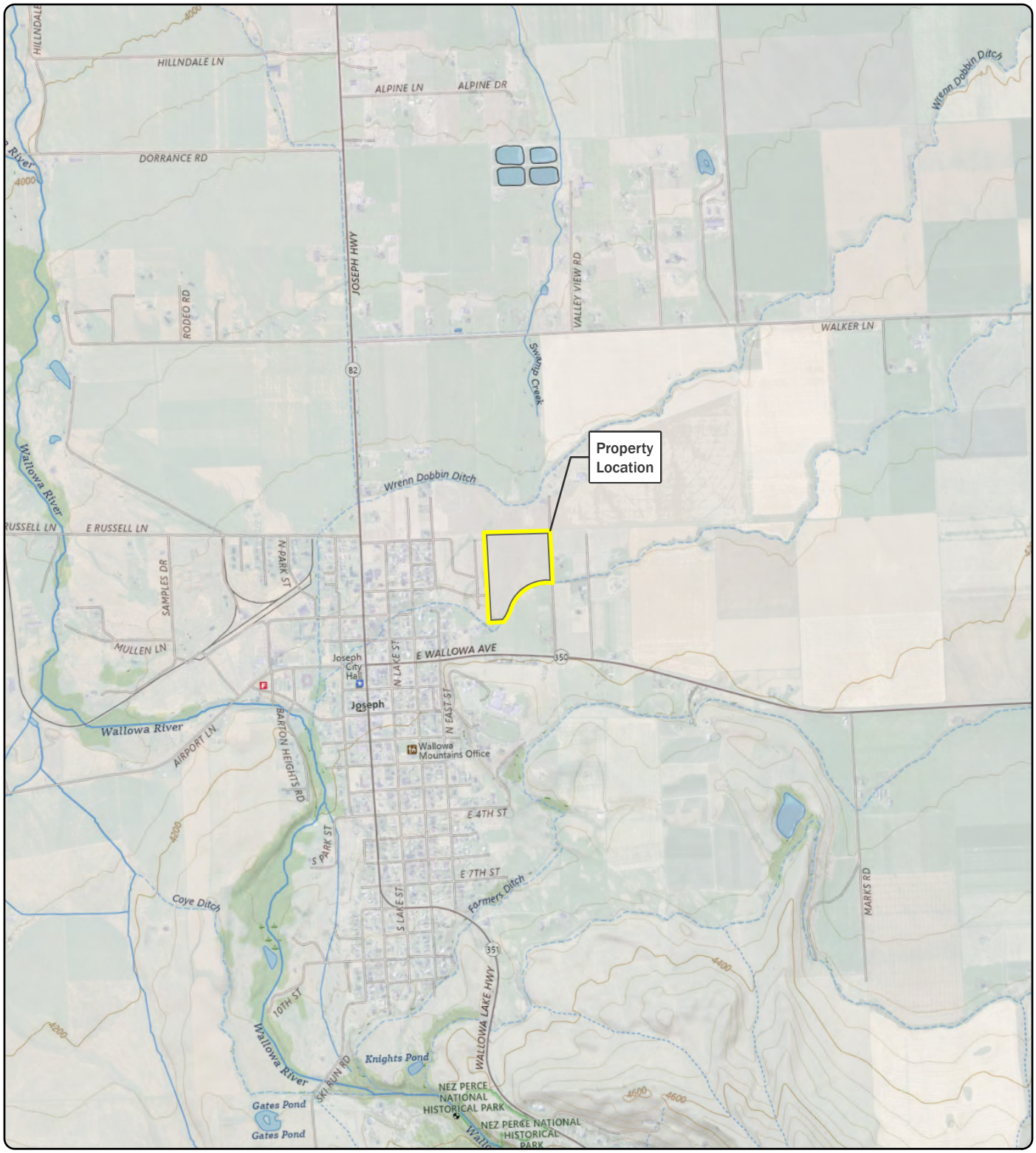

Notes
U.S. Geological Survey 7.5-minute topographic quadrangle (2020): Joseph.
Township 2 south, range 45 east, section 29.

Data Source
Property boundary obtained from Wallowa County.

Legend

Property Boundary

Figure 1
Property Location

Tax Lot 02S452900103
Joseph, OR

0 1,000 2,000
Feet

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p. 971 544 2139 | www.maulfoster.com

Path: X:\O_MFA_Projects\M2580.01\002\Pro\M2580_02_002_004.aprx\Fig 1 Property Location
Print Date: 8/1/2024
Reviewed By: pthweatt
Produced By: sturner
Project: M2580.02.002

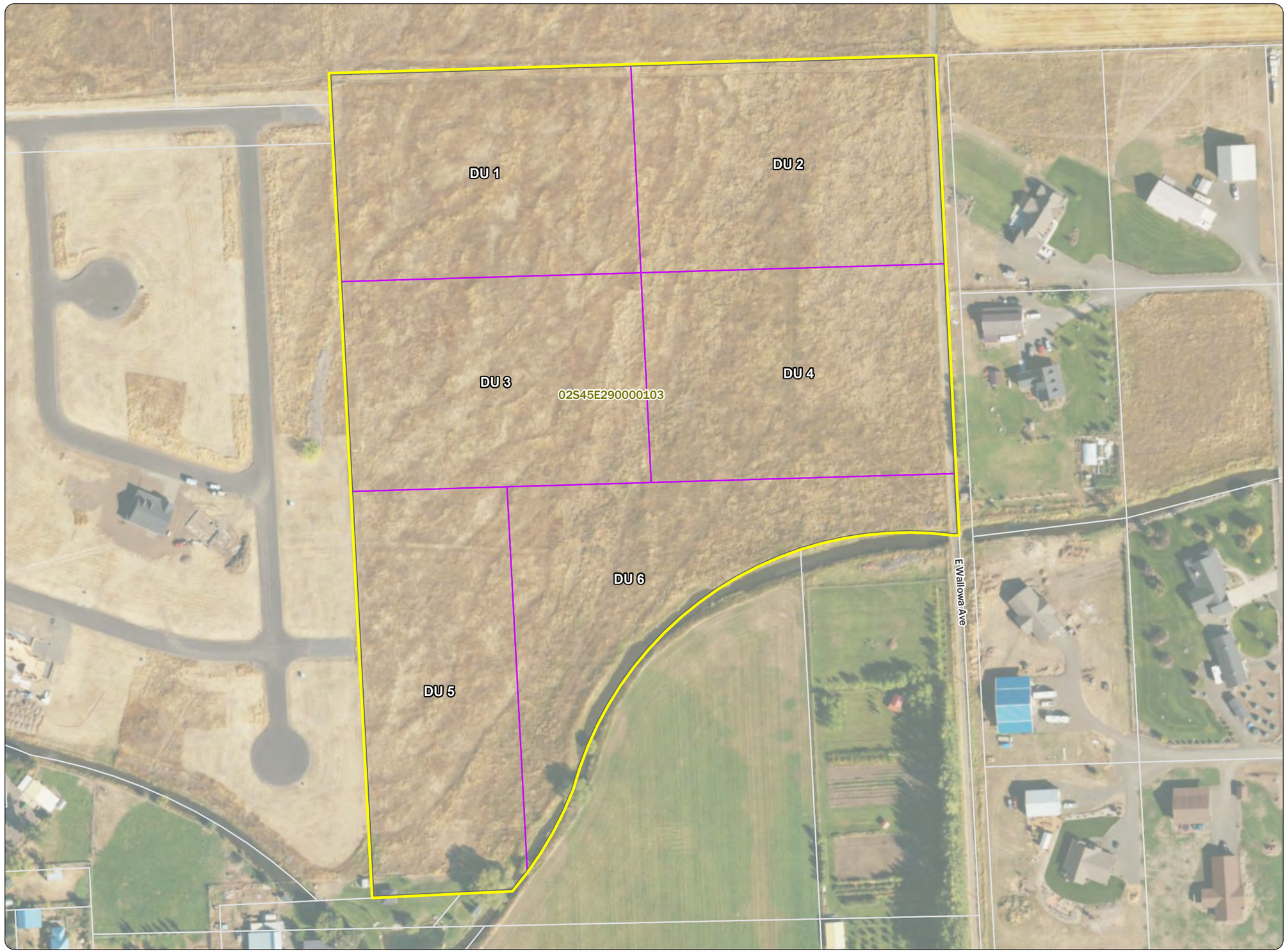

Figure 2
Property Overview

Tax Lot 02S452900103
Joseph, OR

Legend

- Property Boundary
- Surface Soil Sampling Decision Unit
- Tax Lot

0 100
Feet

Data Sources
Aerial photograph obtained from State of Oregon (2022); tax lot data obtained from Wallowa County.

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Path: X:\O_MFA_Projects\M2580\011.002\Pro\M2580_02_002_004.aprx\Fig 2 Property Overview
Project: M2580.02.002 Produced By: sturner Reviewed By: pthweatt Print Date: 8/1/2024

Table

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Table
Summary of Soil Analytical Results
Joseph Tax Lot Surface Soil Investigation
Working Homes, LLC

Location:	RBC, Soil Ingestion, Dermal Contact, and Inhalation[1]			RBC, Soil, Volatilization to Outdoor Air[1]	RBC, Soil, Leaching to Groundwater[1]	DEQ Clean Fill[2]	DEQ Background Metals[3]	DU1	DU2	DU3	DU4		DU5	DU6
Sample Name:								DU1-COMP	DU2-COMP	DU3-COMP	DU4-COMP	DU-COMP-DUP	DU5-COMP	DU6-COMP
Collection Date:	Residential	Construction Worker	Excavation Worker	Residential	Residential	Blue Mountains	Blue Mountains	06/21/2024	06/21/2024	06/21/2024	06/21/2024	06/21/2024	06/21/2024	06/21/2024
Metals (mg/kg)[a]														
Arsenic	0.43	15	420	NV	NV	14	14	3.9 J	4.1 U	3.9 U	4.4 U	6.8 J	5.3 J	4.3 U
Barium	15,000	69,000	NV	NV	NV	950	950	160	160	170	160	160	170	140
Cadmium	78	350	9,700	NV	NV	0.69	0.69	0.46 U	0.49 U	0.46 U	0.52 U	0.44 U	0.46 U	0.51 U
Chromium	120,000[b]	230,000[b]	NV	NV	NV	190	190	13	16	13	15	16	13	14
Lead	400	800	800	NV	30	21	21	12 U	12 U	11 U	13 U	11 U	11 U	13 U
Mercury	23	110	2,900	NV	NV	1.4	1.4	0.037 J	0.021 J	0.022 J	0.023 J	0.025 J	0.023 J	0.024 J
Selenium	NV	NV	NV	NV	NV	0.93	0.93	24 U^1+	25 U^1+	23 U^1+	26 U^1+	23 U^1+	23 U^1+	26 U^1+
Silver	390	1,800	49,000	NV	NV	0.51	0.51	2.2 U	2.4 U	2.2 U	2.5 U	2.2 U	2.2 U	2.5 U
Chlorinated herbicides (mg/kg)														
2,4,5-T	NV	NV	NV	NV	NV	4.1	NA	0.0039 U	0.0039 U	0.0039 U	0.0044 U	0.011 U	0.011 U	0.014 U
2,4,5-TP (Silvex)	NV	NV	NV	NV	NV	3.7	NA	0.0079 U	0.008 U	0.0078 U	0.009 U	0.011 U	0.011 U	0.014 U
2,4-D	630	2,700	74,000	NV	2.3	2.3	NA	0.051 U	0.051 U	0.051 U	0.058 U	0.11 U	0.11 U	0.14 U
2,4-DB	NV	NV	NV	NV	NV	25	NA	0.11 U	0.11 U	0.1 U	0.12 U	0.11 U	0.11 U	0.14 U
Dalapon	NV	NV	NV	NV	NV	7.2	NA	0.076 U	0.077 U	0.075 U	0.087 U	0.27 U	0.29 U	0.35 U
Dicamba	NV	NV	NV	NV	NV	9	NA	0.005 U	0.005 U	0.0049 U	0.0057 U	0.011 U	0.011 U	0.014 U
Dichlorprop	NV	NV	NV	NV	NV	NV	NA	0.052 U	0.052 U	0.051 U	0.059 U	0.11 U	0.11 U	0.14 U
Dinoseb	NV	NV	NV	NV	NV	7.8	NA	0.062 U	0.062 U	0.061 U	0.07 U	0.11 U	0.11 U	0.14 U
MCPA	32	130	3,700	NV	0.097	0.097	NA	5.1 U	5.1 U	5.1 U	5.8 U	11 U	11 U	14 U
MCPP	NV	NV	NV	NV	NV	0.28	NA	7 U	7 U	6.9 U	7.9 U	11 U	11 U	14 U
Dioxins/Furans (pg/g)														
1,2,3,4,6,7,8-HpCDD	NV	NV	NV	NV	NV	NV	NA	4.1 Jq	4.4 J	3.7 J	2.8 J	1.6 J	5.8	4 J
1,2,3,4,6,7,8-HpCDF	NV	NV	NV	NV	NV	NV	NA	1.1 J	1.4 J	0.92 J	0.68 J	0.49 Jq	1.6 J	0.87 Jq
1,2,3,4,7,8,9-HpCDF	NV	NV	NV	NV	NV	NV	NA	0.093 U	0.24 U	0.13 U	0.11 U	0.11 U	0.12 U	0.17 U
1,2,3,4,7,8-HxCDD	NV	NV	NV	NV	NV	NV	NA	0.12 U	0.42 U	0.11 U	0.16 U	0.11 U	0.34 J	0.26 U
1,2,3,4,7,8-HxCDF	NV	NV	NV	NV	NV	NV	NA	0.085 U	0.38 U	0.16 U	0.29 U	0.1 U	0.11 U	0.27 U
1,2,3,6,7,8-HxCDD	NV	NV	NV	NV	NV	NV	NA	0.11 U	0.4 U	0.12 U	0.18 U	0.11 U	0.38 Jq	0.26 U
1,2,3,6,7,8-HxCDF	NV	NV	NV	NV	NV	NV	NA	0.077 U	0.37 U	0.15 U	0.28 U	0.094 U	0.11 U	0.26 U
1,2,3,7,8,9-HxCDD	NV	NV	NV	NV	NV	NV	NA	0.11 U	0.39 U	0.11 U	0.16 U	0.1 U	0.29 Jq	0.24 U
1,2,3,7,8,9-HxCDF	NV	NV	NV	NV	NV	NV	NA	0.078 U	0.34 U	0.15 U	0.25 U	0.083 U	0.1 U	0.25 U
1,2,3,7,8-PeCDD	NV	NV	NV	NV	NV	NV	NA	0.1 U	0.48 U	0.19 U	0.25 U	0.15 U	0.13 U	0.27 U
1,2,3,7,8-PeCDF	NV	NV	NV	NV	NV	NV	NA	0.062 U	0.28 U	0.095 U	0.15 U	0.078 U	0.085 U	0.17 U
2,3,4,6,7,8-HxCDF	NV	NV	NV	NV	NV	NV	NA	0.07 U	0.31 U	0.13 U	0.23 U	0.074 U	0.092 U	0.23 U
2,3,4,7,8-PeCDF	NV	NV	NV	NV	NV	NV	NA	0.071 U	0.3 U	0.1 U	0.17 U	0.088 U	0.098 U	0.2 U
2,3,7,8-TCDD	4.7	170	4,800	24,000	6.8	0.29	NA	0.21 U	0.95 U	0.18 U	0.14 U	0.13 U	0.15 U	0.22 U
2,3,7,8-TCDF	NV	NV	NV	NV	NV	NV	NA	0.15 U	0.69 U	0.15 U	0.093 U	0.085 U	0.11 U	0.16 U
OCDD	NV	NV	NV	NV	NV	NV	NA	33 B	29 B	26 B	17 B	12 qB	41 B	30 B
OCDF	NV	NV	NV	NV	NV	NV	NA	2.6 J	2.8 Jq	1.7 J	1.6 Jq	1.1 Jq	2.6 J	2 J
Total HpCDDs	NV	NV	NV	NV	NV	NV	NA	7.8 q	7.3 q	6.5 q	4.6 Jq	3.3 J	10	6.8 q
Total HpCDFs	NV	NV	NV	NV	NV	NV	NA	2.2 J	2.5 Jq	1.7 Jq	1.2 Jq	0.49 Jq	3.2 J	1.6 Jq
Total HxCDDs	NV	NV	NV	NV	NV	100	NA	0.78 J	0.42 U	0.59 U	0.27 U	0.33 U	1.9 Jq	0.67 U
Total HxCDFs	NV	NV	NV	NV	NV	NV	NA	0.59 U	0.38 U	0.49 J	0.29 U	0.1 U	1.1 J	0.44 U
Total PeCDDs	NV	NV	NV	NV	NV	NV	NA	0.1 U	0.48 U	0.19 U	0.25 U	0.15 U	0.13 U	0.27 U
Total PeCDFs	NV	NV	NV	NV	NV	NV	NA	0.29 U	0.6 U	0.11 U	0.17 U	0.088 U	0.26 U	0.2 U
Total TCDDs	NV	NV	NV	NV	NV	NV	NA	0.69 J	0.95 U	0.73 Jq	0.14 U	0.13 U	0.15 U	0.22 U

Table
Summary of Soil Analytical Results
Joseph Tax Lot Surface Soil Investigation
Working Homes, LLC

Location:	RBC, Soil Ingestion, Dermal Contact, and Inhalation[1]			RBC, Soil, Volatilization to Outdoor Air[1]	RBC, Soil, Leaching to Groundwater[1]	DEQ Clean Fill[2]	DEQ Background Metals[3]	DU1	DU2	DU3	DU4		DU5	DU6
Sample Name:								DU1-COMP	DU2-COMP	DU3-COMP	DU4-COMP	DU-COMP-DUP	DU5-COMP	DU6-COMP
Collection Date:	Residential	Construction Worker	Excavation Worker	Residential	Residential	Blue Mountains	Blue Mountains	06/21/2024	06/21/2024	06/21/2024	06/21/2024	06/21/2024	06/21/2024	06/21/2024
Total TCDFs	NV	NV	NV	NV	NV	NV	NA	0.31 U	0.69 U	0.4 U	0.14 U	0.12 U	0.32 U	0.3 U

Notes

Results are not validated and are provided with original laboratory qualifiers.

No screening level exceedances were identified.

^1+ = initial calibration verification is outside acceptance limits, high biased.

B = compound was found in the blank and sample.

DEQ = Oregon Department of Environmental Quality.

DU = decision unit.

J = result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

mg/kg = milligrams per kilogram.

NA = not applicable.

NV = no value.

pg/g = picograms per gram.

q = the reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.

RBC = risk-based concentration.

TEQ = toxicity equivalency.

U = result is non-detect at the estimated detection limit or method detection limit.

[a]Metals results screened to DEQ RBCs only if results are above Background Metals values.

[b]Screening value for trivalent chromium.

References

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

[2]DEQ. 2019. Clean Fill Determinations, Tables 1 and 2. Oregon Department of Environmental Quality, Materials Management, Portland, Oregon. February.

[3]DEQ. 2013. *Development of Oregon Background Metals Concentrations in Soil* . Oregon Department of Environmental Quality, Land Quality Division Cleanup Program, Portland, Oregon. March.

Attachment

Analytical Laboratory Report

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ANALYTICAL REPORT

PREPARED FOR

Attn: Lisa Pritzl
Maul Foster & Alongi Inc
601 East Front Avenue, Suite 202
Coeur d'Alene, Idaho 83814

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JOB DESCRIPTION

Joseph, OR

JOB NUMBER

590-25509-1

Eurofins Spokane
11922 East 1st Ave
Spokane WA 99206

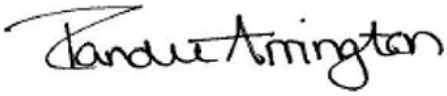
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization



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Authorized for release by
Randee Arrington, Business Unit Manager
Randee.Arrington@et.eurofinsus.com
(509)924-9200

Table of Contents

Job Narrative
590-25509-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 6/24/2024 11:06 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C.

Herbicides
Method 8151A: The continuing calibration verification (CCV) associated with 570-459935 recovered high and outside the control limits for Dichlorprop on one column. Results are confirmed on both columns and reported from the passing column. The associated samples are: DU4-COMP (590-25509-1), DU-COMP-DUP (590-25509-2), DU1-COMP (590-25509-3), DU2-COMP (590-25509-4), DU3-COMP (590-25509-5), DU5-COMP (590-25509-6) and DU6-COMP (590-25509-7).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Dioxin
Method 8290A: The bracketing continuing calibration verification associated with batch 320-776255 has 1,2,3,4,7,8,9-HpCDF with percent difference value that is between the method criteria of 20% to 25% deviation from the initial calibration curve. Per method guidelines, an average relative response factor (RRF) is calculated from the bracketing CCV and is used to quantitate the Isotope Dilution Analyte (IDA) recovery in the associated samples. However, due to a limitation of the algorithm used by the data system -20.2%D for this analyte is rounded to -20%D and the average RRF has not been used. This anomaly has insignificant impact on the data reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 6010D: The low level initial calibration verification (ICVL) associated with batch 590-48174 recovered above the upper control limit for Selenium. The samples associated with this ICV were either 10x the spike amount, have hits below the RL, or are non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: Maul Foster & Alongi Inc
Project/Site: Joseph, OR

Job ID: 590-25509-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-25509-1	DU4-COMP	Solid	06/21/24 13:15	06/24/24 11:06
590-25509-2	DU-COMP-DUP	Solid	06/21/24 13:15	06/24/24 11:06
590-25509-3	DU1-COMP	Solid	06/21/24 12:15	06/24/24 11:06
590-25509-4	DU2-COMP	Solid	06/21/24 10:45	06/24/24 11:06
590-25509-5	DU3-COMP	Solid	06/21/24 13:45	06/24/24 11:06
590-25509-6	DU5-COMP	Solid	06/21/24 15:15	06/24/24 11:06
590-25509-7	DU6-COMP	Solid	06/21/24 14:30	06/24/24 11:06

Definitions/Glossary

Client: Maul Foster & Alongi Inc
Project/Site: Joseph, OR

Job ID: 590-25509-1

Qualifiers

Dioxin

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: Maul Foster & Alongi Inc
Project/Site: Joseph, OR

Job ID: 590-25509-1

Client Sample ID: DU4-COMP

Date Collected: 06/21/24 13:15
Date Received: 06/24/24 11:06

Lab Sample ID: 590-25509-1

Matrix: Solid
Percent Solids: 83.7

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		12	4.4	ug/Kg	☼	07/05/24 11:43	07/10/24 23:10	1
2,4,5-TP (Silvex)	ND		12	9.0	ug/Kg	☼	07/05/24 11:43	07/10/24 23:10	1
2,4-D	ND		120	58	ug/Kg	☼	07/05/24 11:43	07/10/24 23:10	1
2,4-DB	ND		120	120	ug/Kg	☼	07/05/24 11:43	07/10/24 23:10	1
Dalapon	ND		300	87	ug/Kg	☼	07/05/24 11:43	07/10/24 23:10	1
Dicamba	ND		12	5.7	ug/Kg	☼	07/05/24 11:43	07/10/24 23:10	1
Dichlorprop	ND		120	59	ug/Kg	☼	07/05/24 11:43	07/12/24 22:40	1
Dinoseb	ND		120	70	ug/Kg	☼	07/05/24 11:43	07/10/24 23:10	1
MCPA	ND		12000	5800	ug/Kg	☼	07/05/24 11:43	07/10/24 23:10	1
MCPP	ND		12000	7900	ug/Kg	☼	07/05/24 11:43	07/10/24 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*77*		*20 - 163*	*07/05/24 11:43*	*07/10/24 23:10*	*1*

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		1.2	0.14	pg/g	☼	06/29/24 08:08	07/03/24 11:09	1
2,3,7,8-TCDF	ND		1.2	0.093	pg/g	☼	06/29/24 08:08	07/03/24 11:09	1
1,2,3,7,8-PeCDD	ND		5.9	0.25	pg/g	☼	06/29/24 08:08	07/03/24 11:09	1
1,2,3,7,8-PeCDF	ND		5.9	0.15	pg/g	☼	06/29/24 08:08	07/03/24 11:09	1
2,3,4,7,8-PeCDF	ND		5.9	0.17	pg/g	☼	06/29/24 08:08	07/03/24 11:09	1
1,2,3,4,7,8-HxCDD	ND		5.9	0.16	pg/g	☼	06/29/24 08:08	07/03/24 11:09	1
1,2,3,6,7,8-HxCDD	ND		5.9	0.18	pg/g	☼	06/29/24 08:08	07/03/24 11:09	1
1,2,3,7,8,9-HxCDD	ND		5.9	0.16	pg/g	☼	06/29/24 08:08	07/03/24 11:09	1
1,2,3,4,7,8-HxCDF	ND		5.9	0.29	pg/g	☼	06/29/24 08:08	07/03/24 11:09	1
1,2,3,6,7,8-HxCDF	ND		5.9	0.28	pg/g	☼	06/29/24 08:08	07/03/24 11:09	1
1,2,3,7,8,9-HxCDF	ND		5.9	0.25	pg/g	☼	06/29/24 08:08	07/03/24 11:09	1
2,3,4,6,7,8-HxCDF	ND		5.9	0.23	pg/g	☼	06/29/24 08:08	07/03/24 11:09	1
1,2,3,4,6,7,8-HpCDD	**2.8**	**J**	5.9	0.082	pg/g	☼	06/29/24 08:08	07/03/24 11:09	1
1,2,3,4,6,7,8-HpCDF	**0.68**	**J**	5.9	0.11	pg/g	☼	06/29/24 08:08	07/03/24 11:09	1
1,2,3,4,7,8,9-HpCDF	ND		5.9	0.11	pg/g	☼	06/29/24 08:08	07/03/24 11:09	1
OCDD	**17**	**B**	12	0.20	pg/g	☼	06/29/24 08:08	07/03/24 11:09	1
OCDF	**1.6**	**J q**	12	0.11	pg/g	☼	06/29/24 08:08	07/03/24 11:09	1
Total TCDD	ND		1.2	0.14	pg/g	☼	06/29/24 08:08	07/03/24 11:09	1
Total TCDF	ND		1.2	0.14	pg/g	☼	06/29/24 08:08	07/03/24 11:09	1
Total PeCDD	ND		5.9	0.25	pg/g	☼	06/29/24 08:08	07/03/24 11:09	1
Total PeCDF	ND		5.9	0.17	pg/g	☼	06/29/24 08:08	07/03/24 11:09	1
Total HxCDD	ND		5.9	0.27	pg/g	☼	06/29/24 08:08	07/03/24 11:09	1
Total HxCDF	ND		5.9	0.29	pg/g	☼	06/29/24 08:08	07/03/24 11:09	1
Total HpCDD	**4.6**	**J q**	5.9	0.082	pg/g	☼	06/29/24 08:08	07/03/24 11:09	1
Total HpCDF	**1.2**	**J q**	5.9	0.11	pg/g	☼	06/29/24 08:08	07/03/24 11:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*68*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:09*	*1*
13C-2,3,7,8-TCDF	*60*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:09*	*1*
13C-1,2,3,7,8-PeCDD	*64*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:09*	*1*
13C-1,2,3,7,8-PeCDF	*65*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:09*	*1*
13C-2,3,4,7,8-PeCDF	*67*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:09*	*1*
13C-1,2,3,4,7,8-HxCDD	*70*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:09*	*1*
13C-1,2,3,6,7,8-HxCDD	*70*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:09*	*1*
13C-1,2,3,4,7,8-HxCDF	*59*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:09*	*1*

Client Sample ID: DU4-COMP

Lab Sample ID: 590-25509-1
Date Collected: 06/21/24 13:15
Matrix: Solid
Date Received: 06/24/24 11:06
Percent Solids: 83.7

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,6,7,8-HxCDF	*61*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:09*	*1*
13C-2,3,4,6,7,8-HxCDF	*63*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:09*	*1*
13C-1,2,3,7,8,9-HxCDF	*58*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:09*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*71*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:09*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*66*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:09*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*71*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:09*	*1*
13C-OCDD	*69*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:09*	*1*
13C-OCDF	*61*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:09*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		11	4.4	mg/Kg	☼	06/27/24 11:08	07/01/24 15:48	10
Barium	**160**		11	2.9	mg/Kg	☼	06/27/24 11:08	07/01/24 15:48	10
Cadmium	ND		8.8	0.52	mg/Kg	☼	06/27/24 11:08	07/01/24 15:48	10
Chromium	**15**		11	1.6	mg/Kg	☼	06/27/24 11:08	07/01/24 15:48	10
Lead	ND		26	13	mg/Kg	☼	06/27/24 11:08	07/01/24 15:48	10
Selenium	ND	^1+	44	26	mg/Kg	☼	06/27/24 11:08	07/01/24 15:48	10
Silver	ND		11	2.5	mg/Kg	☼	06/27/24 11:08	07/01/24 15:48	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	**23**	**J**	57	14	ug/Kg	☼	06/27/24 11:15	07/03/24 14:54	1

Client Sample ID: DU-COMP-DUP

Lab Sample ID: 590-25509-2
Date Collected: 06/21/24 13:15
Matrix: Solid
Date Received: 06/24/24 11:06
Percent Solids: 92.8

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		11	4.0	ug/Kg	☼	07/05/24 11:43	07/10/24 23:32	1
2,4,5-TP (Silvex)	ND		11	8.1	ug/Kg	☼	07/05/24 11:43	07/10/24 23:32	1
2,4-D	ND		110	52	ug/Kg	☼	07/05/24 11:43	07/10/24 23:32	1
2,4-DB	ND		110	110	ug/Kg	☼	07/05/24 11:43	07/10/24 23:32	1
Dalapon	ND		270	78	ug/Kg	☼	07/05/24 11:43	07/10/24 23:32	1
Dicamba	ND		11	5.1	ug/Kg	☼	07/05/24 11:43	07/10/24 23:32	1
Dichlorprop	ND		110	53	ug/Kg	☼	07/05/24 11:43	07/12/24 23:03	1
Dinoseb	ND		110	63	ug/Kg	☼	07/05/24 11:43	07/10/24 23:32	1
MCPA	ND		11000	5200	ug/Kg	☼	07/05/24 11:43	07/10/24 23:32	1
MCPP	ND		11000	7100	ug/Kg	☼	07/05/24 11:43	07/10/24 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*91*		*20 - 163*	*07/05/24 11:43*	*07/10/24 23:32*	*1*

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		1.1	0.13	pg/g	☼	06/29/24 08:08	07/03/24 11:56	1
2,3,7,8-TCDF	ND		1.1	0.085	pg/g	☼	06/29/24 08:08	07/03/24 11:56	1
1,2,3,7,8-PeCDD	ND		5.4	0.15	pg/g	☼	06/29/24 08:08	07/03/24 11:56	1
1,2,3,7,8-PeCDF	ND		5.4	0.078	pg/g	☼	06/29/24 08:08	07/03/24 11:56	1
2,3,4,7,8-PeCDF	ND		5.4	0.088	pg/g	☼	06/29/24 08:08	07/03/24 11:56	1
1,2,3,4,7,8-HxCDD	ND		5.4	0.11	pg/g	☼	06/29/24 08:08	07/03/24 11:56	1

Client Sample ID: DU-COMP-DUP

Date Collected: 06/21/24 13:15
Date Received: 06/24/24 11:06

Lab Sample ID: 590-25509-2

Matrix: Solid
Percent Solids: 92.8

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,6,7,8-HxCDD	ND		5.4	0.11	pg/g	☼	06/29/24 08:08	07/03/24 11:56	1
1,2,3,7,8,9-HxCDD	ND		5.4	0.10	pg/g	☼	06/29/24 08:08	07/03/24 11:56	1
1,2,3,4,7,8-HxCDF	ND		5.4	0.10	pg/g	☼	06/29/24 08:08	07/03/24 11:56	1
1,2,3,6,7,8-HxCDF	ND		5.4	0.094	pg/g	☼	06/29/24 08:08	07/03/24 11:56	1
1,2,3,7,8,9-HxCDF	ND		5.4	0.083	pg/g	☼	06/29/24 08:08	07/03/24 11:56	1
2,3,4,6,7,8-HxCDF	ND		5.4	0.074	pg/g	☼	06/29/24 08:08	07/03/24 11:56	1
1,2,3,4,6,7,8-HpCDD	**1.6**	**J**	5.4	0.092	pg/g	☼	06/29/24 08:08	07/03/24 11:56	1
1,2,3,4,6,7,8-HpCDF	**0.49**	**J q**	5.4	0.11	pg/g	☼	06/29/24 08:08	07/03/24 11:56	1
1,2,3,4,7,8,9-HpCDF	ND		5.4	0.11	pg/g	☼	06/29/24 08:08	07/03/24 11:56	1
OCDD	**12**	**q B**	11	0.18	pg/g	☼	06/29/24 08:08	07/03/24 11:56	1
OCDF	**1.1**	**J q**	11	0.14	pg/g	☼	06/29/24 08:08	07/03/24 11:56	1
Total TCDD	ND		1.1	0.13	pg/g	☼	06/29/24 08:08	07/03/24 11:56	1
Total TCDF	ND		1.1	0.12	pg/g	☼	06/29/24 08:08	07/03/24 11:56	1
Total PeCDD	ND		5.4	0.15	pg/g	☼	06/29/24 08:08	07/03/24 11:56	1
Total PeCDF	ND		5.4	0.088	pg/g	☼	06/29/24 08:08	07/03/24 11:56	1
Total HxCDD	ND		5.4	0.33	pg/g	☼	06/29/24 08:08	07/03/24 11:56	1
Total HxCDF	ND		5.4	0.10	pg/g	☼	06/29/24 08:08	07/03/24 11:56	1
Total HpCDD	**3.3**	**J**	5.4	0.092	pg/g	☼	06/29/24 08:08	07/03/24 11:56	1
Total HpCDF	**0.49**	**J q**	5.4	0.11	pg/g	☼	06/29/24 08:08	07/03/24 11:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*60*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:56*	*1*
13C-2,3,7,8-TCDF	*52*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:56*	*1*
13C-1,2,3,7,8-PeCDD	*57*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:56*	*1*
13C-1,2,3,7,8-PeCDF	*58*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:56*	*1*
13C-2,3,4,7,8-PeCDF	*57*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:56*	*1*
13C-1,2,3,4,7,8-HxCDD	*57*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:56*	*1*
13C-1,2,3,6,7,8-HxCDD	*60*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:56*	*1*
13C-1,2,3,4,7,8-HxCDF	*50*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:56*	*1*
13C-1,2,3,6,7,8-HxCDF	*52*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:56*	*1*
13C-2,3,4,6,7,8-HxCDF	*57*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:56*	*1*
13C-1,2,3,7,8,9-HxCDF	*54*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:56*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*64*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:56*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*57*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:56*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*63*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:56*	*1*
13C-OCDD	*62*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:56*	*1*
13C-OCDF	*55*		*40 - 135*	*06/29/24 08:08*	*07/03/24 11:56*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.8**	**J**	9.4	3.7	mg/Kg	☼	06/27/24 11:08	07/01/24 16:05	10
Barium	**160**		9.4	2.5	mg/Kg	☼	06/27/24 11:08	07/01/24 16:05	10
Cadmium	ND		7.5	0.44	mg/Kg	☼	06/27/24 11:08	07/01/24 16:05	10
Chromium	**16**		9.4	1.3	mg/Kg	☼	06/27/24 11:08	07/01/24 16:05	10
Lead	ND		23	11	mg/Kg	☼	06/27/24 11:08	07/01/24 16:05	10
Selenium	ND	^1+	38	23	mg/Kg	☼	06/27/24 11:08	07/01/24 16:05	10
Silver	ND		9.4	2.2	mg/Kg	☼	06/27/24 11:08	07/01/24 16:05	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	**25**	**J**	51	13	ug/Kg	☼	06/27/24 11:15	07/03/24 15:09	1

Client: Maul Foster & Alongi Inc
Project/Site: Joseph, OR

Job ID: 590-25509-1

Client Sample ID: DU1-COMP

Date Collected: 06/21/24 12:15
Date Received: 06/24/24 11:06

Lab Sample ID: 590-25509-3

Matrix: Solid
Percent Solids: 94.7

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		11	3.9	ug/Kg	☼	07/05/24 11:43	07/10/24 23:54	1
2,4,5-TP (Silvex)	ND		11	7.9	ug/Kg	☼	07/05/24 11:43	07/10/24 23:54	1
2,4-D	ND		110	51	ug/Kg	☼	07/05/24 11:43	07/10/24 23:54	1
2,4-DB	ND		110	110	ug/Kg	☼	07/05/24 11:43	07/10/24 23:54	1
Dalapon	ND		260	76	ug/Kg	☼	07/05/24 11:43	07/10/24 23:54	1
Dicamba	ND		11	5.0	ug/Kg	☼	07/05/24 11:43	07/10/24 23:54	1
Dichlorprop	ND		110	52	ug/Kg	☼	07/05/24 11:43	07/12/24 23:25	1
Dinoseb	ND		110	62	ug/Kg	☼	07/05/24 11:43	07/10/24 23:54	1
MCPA	ND		11000	5100	ug/Kg	☼	07/05/24 11:43	07/10/24 23:54	1
MCPP	ND		11000	7000	ug/Kg	☼	07/05/24 11:43	07/10/24 23:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*70*		*20 - 163*	*07/05/24 11:43*	*07/10/24 23:54*	*1*

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		1.0	0.21	pg/g	☼	06/29/24 08:08	07/03/24 12:44	1
2,3,7,8-TCDF	ND		1.0	0.15	pg/g	☼	06/29/24 08:08	07/03/24 12:44	1
1,2,3,7,8-PeCDD	ND		5.1	0.10	pg/g	☼	06/29/24 08:08	07/03/24 12:44	1
1,2,3,7,8-PeCDF	ND		5.1	0.062	pg/g	☼	06/29/24 08:08	07/03/24 12:44	1
2,3,4,7,8-PeCDF	ND		5.1	0.071	pg/g	☼	06/29/24 08:08	07/03/24 12:44	1
1,2,3,4,7,8-HxCDD	ND		5.1	0.12	pg/g	☼	06/29/24 08:08	07/03/24 12:44	1
1,2,3,6,7,8-HxCDD	ND		5.1	0.11	pg/g	☼	06/29/24 08:08	07/03/24 12:44	1
1,2,3,7,8,9-HxCDD	ND		5.1	0.11	pg/g	☼	06/29/24 08:08	07/03/24 12:44	1
1,2,3,4,7,8-HxCDF	ND		5.1	0.085	pg/g	☼	06/29/24 08:08	07/03/24 12:44	1
1,2,3,6,7,8-HxCDF	ND		5.1	0.077	pg/g	☼	06/29/24 08:08	07/03/24 12:44	1
1,2,3,7,8,9-HxCDF	ND		5.1	0.078	pg/g	☼	06/29/24 08:08	07/03/24 12:44	1
2,3,4,6,7,8-HxCDF	ND		5.1	0.070	pg/g	☼	06/29/24 08:08	07/03/24 12:44	1
1,2,3,4,6,7,8-HpCDD	**4.1**	**J q**	5.1	0.14	pg/g	☼	06/29/24 08:08	07/03/24 12:44	1
1,2,3,4,6,7,8-HpCDF	**1.1**	**J**	5.1	0.093	pg/g	☼	06/29/24 08:08	07/03/24 12:44	1
1,2,3,4,7,8,9-HpCDF	ND		5.1	0.093	pg/g	☼	06/29/24 08:08	07/03/24 12:44	1
OCDD	**33**	**B**	10	0.22	pg/g	☼	06/29/24 08:08	07/03/24 12:44	1
OCDF	**2.6**	**J**	10	0.089	pg/g	☼	06/29/24 08:08	07/03/24 12:44	1
Total TCDD	**0.69**	**J**	1.0	0.21	pg/g	☼	06/29/24 08:08	07/03/24 12:44	1
Total TCDF	ND		1.0	0.31	pg/g	☼	06/29/24 08:08	07/03/24 12:44	1
Total PeCDD	ND		5.1	0.10	pg/g	☼	06/29/24 08:08	07/03/24 12:44	1
Total PeCDF	ND		5.1	0.29	pg/g	☼	06/29/24 08:08	07/03/24 12:44	1
Total HxCDD	**0.78**	**J**	5.1	0.11	pg/g	☼	06/29/24 08:08	07/03/24 12:44	1
Total HxCDF	ND		5.1	0.59	pg/g	☼	06/29/24 08:08	07/03/24 12:44	1
Total HpCDD	**7.8**	**q**	5.1	0.14	pg/g	☼	06/29/24 08:08	07/03/24 12:44	1
Total HpCDF	**2.2**	**J**	5.1	0.093	pg/g	☼	06/29/24 08:08	07/03/24 12:44	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*71*		*40 - 135*	*06/29/24 08:08*	*07/03/24 12:44*	*1*
13C-2,3,7,8-TCDF	*64*		*40 - 135*	*06/29/24 08:08*	*07/03/24 12:44*	*1*
13C-1,2,3,7,8-PeCDD	*67*		*40 - 135*	*06/29/24 08:08*	*07/03/24 12:44*	*1*
13C-1,2,3,7,8-PeCDF	*69*		*40 - 135*	*06/29/24 08:08*	*07/03/24 12:44*	*1*
13C-2,3,4,7,8-PeCDF	*68*		*40 - 135*	*06/29/24 08:08*	*07/03/24 12:44*	*1*
13C-1,2,3,4,7,8-HxCDD	*73*		*40 - 135*	*06/29/24 08:08*	*07/03/24 12:44*	*1*
13C-1,2,3,6,7,8-HxCDD	*77*		*40 - 135*	*06/29/24 08:08*	*07/03/24 12:44*	*1*
13C-1,2,3,4,7,8-HxCDF	*65*		*40 - 135*	*06/29/24 08:08*	*07/03/24 12:44*	*1*

Client Sample ID: DU1-COMP

Lab Sample ID: 590-25509-3

Date Collected: 06/21/24 12:15
Matrix: Solid
Date Received: 06/24/24 11:06
Percent Solids: 94.7

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,6,7,8-HxCDF	*69*		*40 - 135*	*06/29/24 08:08*	*07/03/24 12:44*	*1*
13C-2,3,4,6,7,8-HxCDF	*70*		*40 - 135*	*06/29/24 08:08*	*07/03/24 12:44*	*1*
13C-1,2,3,7,8,9-HxCDF	*61*		*40 - 135*	*06/29/24 08:08*	*07/03/24 12:44*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*77*		*40 - 135*	*06/29/24 08:08*	*07/03/24 12:44*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*71*		*40 - 135*	*06/29/24 08:08*	*07/03/24 12:44*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*76*		*40 - 135*	*06/29/24 08:08*	*07/03/24 12:44*	*1*
13C-OCDD	*72*		*40 - 135*	*06/29/24 08:08*	*07/03/24 12:44*	*1*
13C-OCDF	*65*		*40 - 135*	*06/29/24 08:08*	*07/03/24 12:44*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.9**	**J**	9.8	3.9	mg/Kg	☼	06/27/24 11:08	07/01/24 16:09	10
Barium	**160**		9.8	2.6	mg/Kg	☼	06/27/24 11:08	07/01/24 16:09	10
Cadmium	ND		7.8	0.46	mg/Kg	☼	06/27/24 11:08	07/01/24 16:09	10
Chromium	**13**		9.8	1.4	mg/Kg	☼	06/27/24 11:08	07/01/24 16:09	10
Lead	ND		23	12	mg/Kg	☼	06/27/24 11:08	07/01/24 16:09	10
Selenium	ND	^1+	39	24	mg/Kg	☼	06/27/24 11:08	07/01/24 16:09	10
Silver	ND		9.8	2.2	mg/Kg	☼	06/27/24 11:08	07/01/24 16:09	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	**37**	**J**	48	12	ug/Kg	☼	06/27/24 11:15	07/03/24 15:12	1

Client Sample ID: DU2-COMP

Lab Sample ID: 590-25509-4

Date Collected: 06/21/24 10:45
Matrix: Solid
Date Received: 06/24/24 11:06
Percent Solids: 92.7

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		11	3.9	ug/Kg	☼	07/05/24 11:43	07/11/24 00:16	1
2,4,5-TP (Silvex)	ND		11	8.0	ug/Kg	☼	07/05/24 11:43	07/11/24 00:16	1
2,4-D	ND		110	51	ug/Kg	☼	07/05/24 11:43	07/11/24 00:16	1
2,4-DB	ND		110	110	ug/Kg	☼	07/05/24 11:43	07/11/24 00:16	1
Dalapon	ND		260	77	ug/Kg	☼	07/05/24 11:43	07/11/24 00:16	1
Dicamba	ND		11	5.0	ug/Kg	☼	07/05/24 11:43	07/11/24 00:16	1
Dichlorprop	ND		110	52	ug/Kg	☼	07/05/24 11:43	07/12/24 23:47	1
Dinoseb	ND		110	62	ug/Kg	☼	07/05/24 11:43	07/11/24 00:16	1
MCPA	ND		11000	5100	ug/Kg	☼	07/05/24 11:43	07/11/24 00:16	1
MCPP	ND		11000	7000	ug/Kg	☼	07/05/24 11:43	07/11/24 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*83*		*20 - 163*	*07/05/24 11:43*	*07/11/24 00:16*	*1*

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		1.0	0.95	pg/g	☼	06/29/24 08:08	07/03/24 13:36	1
2,3,7,8-TCDF	ND		1.0	0.69	pg/g	☼	06/29/24 08:08	07/03/24 13:36	1
1,2,3,7,8-PeCDD	ND		5.2	0.48	pg/g	☼	06/29/24 08:08	07/03/24 13:36	1
1,2,3,7,8-PeCDF	ND		5.2	0.28	pg/g	☼	06/29/24 08:08	07/03/24 13:36	1
2,3,4,7,8-PeCDF	ND		5.2	0.30	pg/g	☼	06/29/24 08:08	07/03/24 13:36	1
1,2,3,4,7,8-HxCDD	ND		5.2	0.42	pg/g	☼	06/29/24 08:08	07/03/24 13:36	1

Client Sample ID: DU2-COMP
Date Collected: 06/21/24 10:45
Date Received: 06/24/24 11:06

Lab Sample ID: 590-25509-4
Matrix: Solid
Percent Solids: 92.7

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,6,7,8-HxCDD	ND		5.2	0.40	pg/g	☼	06/29/24 08:08	07/03/24 13:36	1
1,2,3,7,8,9-HxCDD	ND		5.2	0.39	pg/g	☼	06/29/24 08:08	07/03/24 13:36	1
1,2,3,4,7,8-HxCDF	ND		5.2	0.38	pg/g	☼	06/29/24 08:08	07/03/24 13:36	1
1,2,3,6,7,8-HxCDF	ND		5.2	0.37	pg/g	☼	06/29/24 08:08	07/03/24 13:36	1
1,2,3,7,8,9-HxCDF	ND		5.2	0.34	pg/g	☼	06/29/24 08:08	07/03/24 13:36	1
2,3,4,6,7,8-HxCDF	ND		5.2	0.31	pg/g	☼	06/29/24 08:08	07/03/24 13:36	1
1,2,3,4,6,7,8-HpCDD	**4.4**	**J**	5.2	0.28	pg/g	☼	06/29/24 08:08	07/03/24 13:36	1
1,2,3,4,6,7,8-HpCDF	**1.4**	**J**	5.2	0.24	pg/g	☼	06/29/24 08:08	07/03/24 13:36	1
1,2,3,4,7,8,9-HpCDF	ND		5.2	0.24	pg/g	☼	06/29/24 08:08	07/03/24 13:36	1
OCDD	**29**	**B**	10	0.44	pg/g	☼	06/29/24 08:08	07/03/24 13:36	1
OCDF	**2.8**	**J q**	10	0.36	pg/g	☼	06/29/24 08:08	07/03/24 13:36	1
Total TCDD	ND		1.0	0.95	pg/g	☼	06/29/24 08:08	07/03/24 13:36	1
Total TCDF	ND		1.0	0.69	pg/g	☼	06/29/24 08:08	07/03/24 13:36	1
Total PeCDD	ND		5.2	0.48	pg/g	☼	06/29/24 08:08	07/03/24 13:36	1
Total PeCDF	ND		5.2	0.60	pg/g	☼	06/29/24 08:08	07/03/24 13:36	1
Total HxCDD	ND		5.2	0.42	pg/g	☼	06/29/24 08:08	07/03/24 13:36	1
Total HxCDF	ND		5.2	0.38	pg/g	☼	06/29/24 08:08	07/03/24 13:36	1
Total HpCDD	**7.3**	**q**	5.2	0.28	pg/g	☼	06/29/24 08:08	07/03/24 13:36	1
Total HpCDF	**2.5**	**J q**	5.2	0.24	pg/g	☼	06/29/24 08:08	07/03/24 13:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*72*		*40 - 135*	*06/29/24 08:08*	*07/03/24 13:36*	*1*
13C-2,3,7,8-TCDF	*64*		*40 - 135*	*06/29/24 08:08*	*07/03/24 13:36*	*1*
13C-1,2,3,7,8-PeCDD	*67*		*40 - 135*	*06/29/24 08:08*	*07/03/24 13:36*	*1*
13C-1,2,3,7,8-PeCDF	*72*		*40 - 135*	*06/29/24 08:08*	*07/03/24 13:36*	*1*
13C-2,3,4,7,8-PeCDF	*73*		*40 - 135*	*06/29/24 08:08*	*07/03/24 13:36*	*1*
13C-1,2,3,4,7,8-HxCDD	*70*		*40 - 135*	*06/29/24 08:08*	*07/03/24 13:36*	*1*
13C-1,2,3,6,7,8-HxCDD	*75*		*40 - 135*	*06/29/24 08:08*	*07/03/24 13:36*	*1*
13C-1,2,3,4,7,8-HxCDF	*61*		*40 - 135*	*06/29/24 08:08*	*07/03/24 13:36*	*1*
13C-1,2,3,6,7,8-HxCDF	*66*		*40 - 135*	*06/29/24 08:08*	*07/03/24 13:36*	*1*
13C-2,3,4,6,7,8-HxCDF	*66*		*40 - 135*	*06/29/24 08:08*	*07/03/24 13:36*	*1*
13C-1,2,3,7,8,9-HxCDF	*63*		*40 - 135*	*06/29/24 08:08*	*07/03/24 13:36*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*72*		*40 - 135*	*06/29/24 08:08*	*07/03/24 13:36*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*67*		*40 - 135*	*06/29/24 08:08*	*07/03/24 13:36*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*72*		*40 - 135*	*06/29/24 08:08*	*07/03/24 13:36*	*1*
13C-OCDD	*67*		*40 - 135*	*06/29/24 08:08*	*07/03/24 13:36*	*1*
13C-OCDF	*62*		*40 - 135*	*06/29/24 08:08*	*07/03/24 13:36*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10	4.1	mg/Kg	☼	06/27/24 11:08	07/01/24 16:13	10
Barium	**160**		10	2.8	mg/Kg	☼	06/27/24 11:08	07/01/24 16:13	10
Cadmium	ND		8.4	0.49	mg/Kg	☼	06/27/24 11:08	07/01/24 16:13	10
Chromium	**16**		10	1.5	mg/Kg	☼	06/27/24 11:08	07/01/24 16:13	10
Lead	ND		25	12	mg/Kg	☼	06/27/24 11:08	07/01/24 16:13	10
Selenium	ND	^1+	42	25	mg/Kg	☼	06/27/24 11:08	07/01/24 16:13	10
Silver	ND		10	2.4	mg/Kg	☼	06/27/24 11:08	07/01/24 16:13	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	**21**	**J**	48	12	ug/Kg	☼	06/27/24 11:15	07/03/24 15:14	1

Client: Maul Foster & Alongi Inc
Project/Site: Joseph, OR

Job ID: 590-25509-1

Client Sample ID: DU3-COMP

Date Collected: 06/21/24 13:45
Date Received: 06/24/24 11:06

Lab Sample ID: 590-25509-5

Matrix: Solid
Percent Solids: 95.6

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		10	3.9	ug/Kg	☼	07/05/24 11:43	07/11/24 00:39	1
2,4,5-TP (Silvex)	ND		10	7.8	ug/Kg	☼	07/05/24 11:43	07/11/24 00:39	1
2,4-D	ND		100	51	ug/Kg	☼	07/05/24 11:43	07/11/24 00:39	1
2,4-DB	ND		100	100	ug/Kg	☼	07/05/24 11:43	07/11/24 00:39	1
Dalapon	ND		260	75	ug/Kg	☼	07/05/24 11:43	07/11/24 00:39	1
Dicamba	ND		10	4.9	ug/Kg	☼	07/05/24 11:43	07/11/24 00:39	1
Dichlorprop	ND		100	51	ug/Kg	☼	07/05/24 11:43	07/13/24 00:09	1
Dinoseb	ND		100	61	ug/Kg	☼	07/05/24 11:43	07/11/24 00:39	1
MCPA	ND		10000	5100	ug/Kg	☼	07/05/24 11:43	07/11/24 00:39	1
MCPP	ND		10000	6900	ug/Kg	☼	07/05/24 11:43	07/11/24 00:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*78*		*20 - 163*	*07/05/24 11:43*	*07/11/24 00:39*	*1*

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		1.0	0.18	pg/g	☼	06/29/24 08:08	07/03/24 14:23	1
2,3,7,8-TCDF	ND		1.0	0.15	pg/g	☼	06/29/24 08:08	07/03/24 14:23	1
1,2,3,7,8-PeCDD	ND		5.1	0.19	pg/g	☼	06/29/24 08:08	07/03/24 14:23	1
1,2,3,7,8-PeCDF	ND		5.1	0.095	pg/g	☼	06/29/24 08:08	07/03/24 14:23	1
2,3,4,7,8-PeCDF	ND		5.1	0.10	pg/g	☼	06/29/24 08:08	07/03/24 14:23	1
1,2,3,4,7,8-HxCDD	ND		5.1	0.11	pg/g	☼	06/29/24 08:08	07/03/24 14:23	1
1,2,3,6,7,8-HxCDD	ND		5.1	0.12	pg/g	☼	06/29/24 08:08	07/03/24 14:23	1
1,2,3,7,8,9-HxCDD	ND		5.1	0.11	pg/g	☼	06/29/24 08:08	07/03/24 14:23	1
1,2,3,4,7,8-HxCDF	ND		5.1	0.16	pg/g	☼	06/29/24 08:08	07/03/24 14:23	1
1,2,3,6,7,8-HxCDF	ND		5.1	0.15	pg/g	☼	06/29/24 08:08	07/03/24 14:23	1
1,2,3,7,8,9-HxCDF	ND		5.1	0.15	pg/g	☼	06/29/24 08:08	07/03/24 14:23	1
2,3,4,6,7,8-HxCDF	ND		5.1	0.13	pg/g	☼	06/29/24 08:08	07/03/24 14:23	1
1,2,3,4,6,7,8-HpCDD	**3.7**	**J**	5.1	0.15	pg/g	☼	06/29/24 08:08	07/03/24 14:23	1
1,2,3,4,6,7,8-HpCDF	**0.92**	**J**	5.1	0.12	pg/g	☼	06/29/24 08:08	07/03/24 14:23	1
1,2,3,4,7,8,9-HpCDF	ND		5.1	0.13	pg/g	☼	06/29/24 08:08	07/03/24 14:23	1
OCDD	**26**	**B**	10	0.25	pg/g	☼	06/29/24 08:08	07/03/24 14:23	1
OCDF	**1.7**	**J**	10	0.20	pg/g	☼	06/29/24 08:08	07/03/24 14:23	1
Total TCDD	**0.73**	**J q**	1.0	0.18	pg/g	☼	06/29/24 08:08	07/03/24 14:23	1
Total TCDF	ND		1.0	0.40	pg/g	☼	06/29/24 08:08	07/03/24 14:23	1
Total PeCDD	ND		5.1	0.19	pg/g	☼	06/29/24 08:08	07/03/24 14:23	1
Total PeCDF	ND		5.1	0.11	pg/g	☼	06/29/24 08:08	07/03/24 14:23	1
Total HxCDD	ND		5.1	0.59	pg/g	☼	06/29/24 08:08	07/03/24 14:23	1
Total HxCDF	**0.49**	**J**	5.1	0.15	pg/g	☼	06/29/24 08:08	07/03/24 14:23	1
Total HpCDD	**6.5**	**q**	5.1	0.15	pg/g	☼	06/29/24 08:08	07/03/24 14:23	1
Total HpCDF	**1.7**	**J q**	5.1	0.12	pg/g	☼	06/29/24 08:08	07/03/24 14:23	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*78*		*40 - 135*	*06/29/24 08:08*	*07/03/24 14:23*	*1*
13C-2,3,7,8-TCDF	*68*		*40 - 135*	*06/29/24 08:08*	*07/03/24 14:23*	*1*
13C-1,2,3,7,8-PeCDD	*75*		*40 - 135*	*06/29/24 08:08*	*07/03/24 14:23*	*1*
13C-1,2,3,7,8-PeCDF	*80*		*40 - 135*	*06/29/24 08:08*	*07/03/24 14:23*	*1*
13C-2,3,4,7,8-PeCDF	*80*		*40 - 135*	*06/29/24 08:08*	*07/03/24 14:23*	*1*
13C-1,2,3,4,7,8-HxCDD	*85*		*40 - 135*	*06/29/24 08:08*	*07/03/24 14:23*	*1*
13C-1,2,3,6,7,8-HxCDD	*83*		*40 - 135*	*06/29/24 08:08*	*07/03/24 14:23*	*1*
13C-1,2,3,4,7,8-HxCDF	*72*		*40 - 135*	*06/29/24 08:08*	*07/03/24 14:23*	*1*

Client Sample ID: DU3-COMP

Lab Sample ID: 590-25509-5
Date Collected: 06/21/24 13:45
Matrix: Solid
Date Received: 06/24/24 11:06
Percent Solids: 95.6

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,6,7,8-HxCDF	*75*		*40 - 135*	*06/29/24 08:08*	*07/03/24 14:23*	*1*
13C-2,3,4,6,7,8-HxCDF	*73*		*40 - 135*	*06/29/24 08:08*	*07/03/24 14:23*	*1*
13C-1,2,3,7,8,9-HxCDF	*68*		*40 - 135*	*06/29/24 08:08*	*07/03/24 14:23*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*87*		*40 - 135*	*06/29/24 08:08*	*07/03/24 14:23*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*80*		*40 - 135*	*06/29/24 08:08*	*07/03/24 14:23*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*84*		*40 - 135*	*06/29/24 08:08*	*07/03/24 14:23*	*1*
13C-OCDD	*85*		*40 - 135*	*06/29/24 08:08*	*07/03/24 14:23*	*1*
13C-OCDF	*76*		*40 - 135*	*06/29/24 08:08*	*07/03/24 14:23*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		9.8	3.9	mg/Kg	☼	06/27/24 11:08	07/01/24 16:17	10
Barium	**170**		9.8	2.6	mg/Kg	☼	06/27/24 11:08	07/01/24 16:17	10
Cadmium	ND		7.8	0.46	mg/Kg	☼	06/27/24 11:08	07/01/24 16:17	10
Chromium	**13**		9.8	1.4	mg/Kg	☼	06/27/24 11:08	07/01/24 16:17	10
Lead	ND		23	11	mg/Kg	☼	06/27/24 11:08	07/01/24 16:17	10
Selenium	ND	^1+	39	23	mg/Kg	☼	06/27/24 11:08	07/01/24 16:17	10
Silver	ND		9.8	2.2	mg/Kg	☼	06/27/24 11:08	07/01/24 16:17	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	**22**	**J**	52	13	ug/Kg	☼	06/27/24 11:15	07/03/24 15:17	1

Client Sample ID: DU5-COMP

Lab Sample ID: 590-25509-6
Date Collected: 06/21/24 15:15
Matrix: Solid
Date Received: 06/24/24 11:06
Percent Solids: 85.7

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		11	4.2	ug/Kg	☼	07/05/24 11:43	07/11/24 01:01	1
2,4,5-TP (Silvex)	ND		11	8.6	ug/Kg	☼	07/05/24 11:43	07/11/24 01:01	1
2,4-D	ND		110	56	ug/Kg	☼	07/05/24 11:43	07/11/24 01:01	1
2,4-DB	ND		110	110	ug/Kg	☼	07/05/24 11:43	07/11/24 01:01	1
Dalapon	ND		290	83	ug/Kg	☼	07/05/24 11:43	07/11/24 01:01	1
Dicamba	ND		11	5.4	ug/Kg	☼	07/05/24 11:43	07/11/24 01:01	1
Dichlorprop	ND		110	56	ug/Kg	☼	07/05/24 11:43	07/13/24 00:32	1
Dinoseb	ND		110	67	ug/Kg	☼	07/05/24 11:43	07/11/24 01:01	1
MCPA	ND		11000	5600	ug/Kg	☼	07/05/24 11:43	07/11/24 01:01	1
MCPP	ND		11000	7500	ug/Kg	☼	07/05/24 11:43	07/11/24 01:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*81*		*20 - 163*	*07/05/24 11:43*	*07/11/24 01:01*	*1*

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		1.1	0.15	pg/g	☼	06/29/24 08:08	07/03/24 15:11	1
2,3,7,8-TCDF	ND		1.1	0.11	pg/g	☼	06/29/24 08:08	07/03/24 15:11	1
1,2,3,7,8-PeCDD	ND		5.7	0.13	pg/g	☼	06/29/24 08:08	07/03/24 15:11	1
1,2,3,7,8-PeCDF	ND		5.7	0.085	pg/g	☼	06/29/24 08:08	07/03/24 15:11	1
2,3,4,7,8-PeCDF	ND		5.7	0.098	pg/g	☼	06/29/24 08:08	07/03/24 15:11	1
1,2,3,4,7,8-HxCDD	**0.34**	**J**	5.7	0.13	pg/g	☼	06/29/24 08:08	07/03/24 15:11	1

Client Sample ID: DU5-COMP
Date Collected: 06/21/24 15:15
Date Received: 06/24/24 11:06

Lab Sample ID: 590-25509-6
Matrix: Solid
Percent Solids: 85.7

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,6,7,8-HxCDD	0.38	J q	5.7	0.13	pg/g	☼	06/29/24 08:08	07/03/24 15:11	1
1,2,3,7,8,9-HxCDD	0.29	J q	5.7	0.13	pg/g	☼	06/29/24 08:08	07/03/24 15:11	1
1,2,3,4,7,8-HxCDF	ND		5.7	0.11	pg/g	☼	06/29/24 08:08	07/03/24 15:11	1
1,2,3,6,7,8-HxCDF	ND		5.7	0.11	pg/g	☼	06/29/24 08:08	07/03/24 15:11	1
1,2,3,7,8,9-HxCDF	ND		5.7	0.10	pg/g	☼	06/29/24 08:08	07/03/24 15:11	1
2,3,4,6,7,8-HxCDF	ND		5.7	0.092	pg/g	☼	06/29/24 08:08	07/03/24 15:11	1
1,2,3,4,6,7,8-HpCDD	5.8		5.7	0.11	pg/g	☼	06/29/24 08:08	07/03/24 15:11	1
1,2,3,4,6,7,8-HpCDF	1.6	J	5.7	0.12	pg/g	☼	06/29/24 08:08	07/03/24 15:11	1
1,2,3,4,7,8,9-HpCDF	ND		5.7	0.12	pg/g	☼	06/29/24 08:08	07/03/24 15:11	1
OCDD	41	B	11	0.30	pg/g	☼	06/29/24 08:08	07/03/24 15:11	1
OCDF	2.6	J	11	0.23	pg/g	☼	06/29/24 08:08	07/03/24 15:11	1
Total TCDD	ND		1.1	0.15	pg/g	☼	06/29/24 08:08	07/03/24 15:11	1
Total TCDF	ND		1.1	0.32	pg/g	☼	06/29/24 08:08	07/03/24 15:11	1
Total PeCDD	ND		5.7	0.13	pg/g	☼	06/29/24 08:08	07/03/24 15:11	1
Total PeCDF	ND		5.7	0.26	pg/g	☼	06/29/24 08:08	07/03/24 15:11	1
Total HxCDD	1.9	J q	5.7	0.13	pg/g	☼	06/29/24 08:08	07/03/24 15:11	1
Total HxCDF	1.1	J	5.7	0.10	pg/g	☼	06/29/24 08:08	07/03/24 15:11	1
Total HpCDD	10		5.7	0.11	pg/g	☼	06/29/24 08:08	07/03/24 15:11	1
Total HpCDF	3.2	J	5.7	0.12	pg/g	☼	06/29/24 08:08	07/03/24 15:11	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*65*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:11*	*1*
13C-2,3,7,8-TCDF	*56*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:11*	*1*
13C-1,2,3,7,8-PeCDD	*63*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:11*	*1*
13C-1,2,3,7,8-PeCDF	*65*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:11*	*1*
13C-2,3,4,7,8-PeCDF	*64*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:11*	*1*
13C-1,2,3,4,7,8-HxCDD	*68*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:11*	*1*
13C-1,2,3,6,7,8-HxCDD	*74*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:11*	*1*
13C-1,2,3,4,7,8-HxCDF	*61*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:11*	*1*
13C-1,2,3,6,7,8-HxCDF	*63*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:11*	*1*
13C-2,3,4,6,7,8-HxCDF	*63*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:11*	*1*
13C-1,2,3,7,8,9-HxCDF	*59*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:11*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*75*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:11*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*67*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:11*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*72*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:11*	*1*
13C-OCDD	*70*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:11*	*1*
13C-OCDF	*63*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:11*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.3	J	9.7	3.8	mg/Kg	☼	06/27/24 11:08	07/01/24 16:21	10
Barium	170		9.7	2.6	mg/Kg	☼	06/27/24 11:08	07/01/24 16:21	10
Cadmium	ND		7.7	0.46	mg/Kg	☼	06/27/24 11:08	07/01/24 16:21	10
Chromium	13		9.7	1.4	mg/Kg	☼	06/27/24 11:08	07/01/24 16:21	10
Lead	ND		23	11	mg/Kg	☼	06/27/24 11:08	07/01/24 16:21	10
Selenium	ND	^1+	39	23	mg/Kg	☼	06/27/24 11:08	07/01/24 16:21	10
Silver	ND		9.7	2.2	mg/Kg	☼	06/27/24 11:08	07/01/24 16:21	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	23	J	51	13	ug/Kg	☼	06/27/24 11:15	07/03/24 15:19	1

Client: Maul Foster & Alongi Inc
Project/Site: Joseph, OR

Job ID: 590-25509-1

Client Sample ID: DU6-COMP

Date Collected: 06/21/24 14:30
Date Received: 06/24/24 11:06

Lab Sample ID: 590-25509-7

Matrix: Solid
Percent Solids: 70.6

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		14	5.2	ug/Kg	☼	07/05/24 11:43	07/11/24 01:23	1
2,4,5-TP (Silvex)	ND		14	11	ug/Kg	☼	07/05/24 11:43	07/11/24 01:23	1
2,4-D	ND		140	69	ug/Kg	☼	07/05/24 11:43	07/11/24 01:23	1
2,4-DB	ND		140	140	ug/Kg	☼	07/05/24 11:43	07/11/24 01:23	1
Dalapon	ND		350	100	ug/Kg	☼	07/05/24 11:43	07/11/24 01:23	1
Dicamba	ND		14	6.7	ug/Kg	☼	07/05/24 11:43	07/11/24 01:23	1
Dichlorprop	ND		140	70	ug/Kg	☼	07/05/24 11:43	07/13/24 00:54	1
Dinoseb	ND		140	83	ug/Kg	☼	07/05/24 11:43	07/11/24 01:23	1
MCPA	ND		14000	6900	ug/Kg	☼	07/05/24 11:43	07/11/24 01:23	1
MCPP	ND		14000	9300	ug/Kg	☼	07/05/24 11:43	07/11/24 01:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*87*		*20 - 163*	*07/05/24 11:43*	*07/11/24 01:23*	*1*

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		1.4	0.22	pg/g	☼	06/29/24 08:08	07/03/24 15:58	1
2,3,7,8-TCDF	ND		1.4	0.16	pg/g	☼	06/29/24 08:08	07/03/24 15:58	1
1,2,3,7,8-PeCDD	ND		6.8	0.27	pg/g	☼	06/29/24 08:08	07/03/24 15:58	1
1,2,3,7,8-PeCDF	ND		6.8	0.17	pg/g	☼	06/29/24 08:08	07/03/24 15:58	1
2,3,4,7,8-PeCDF	ND		6.8	0.20	pg/g	☼	06/29/24 08:08	07/03/24 15:58	1
1,2,3,4,7,8-HxCDD	ND		6.8	0.26	pg/g	☼	06/29/24 08:08	07/03/24 15:58	1
1,2,3,6,7,8-HxCDD	ND		6.8	0.26	pg/g	☼	06/29/24 08:08	07/03/24 15:58	1
1,2,3,7,8,9-HxCDD	ND		6.8	0.24	pg/g	☼	06/29/24 08:08	07/03/24 15:58	1
1,2,3,4,7,8-HxCDF	ND		6.8	0.27	pg/g	☼	06/29/24 08:08	07/03/24 15:58	1
1,2,3,6,7,8-HxCDF	ND		6.8	0.26	pg/g	☼	06/29/24 08:08	07/03/24 15:58	1
1,2,3,7,8,9-HxCDF	ND		6.8	0.25	pg/g	☼	06/29/24 08:08	07/03/24 15:58	1
2,3,4,6,7,8-HxCDF	ND		6.8	0.23	pg/g	☼	06/29/24 08:08	07/03/24 15:58	1
1,2,3,4,6,7,8-HpCDD	**4.0**	**J**	6.8	0.13	pg/g	☼	06/29/24 08:08	07/03/24 15:58	1
1,2,3,4,6,7,8-HpCDF	**0.87**	**J q**	6.8	0.16	pg/g	☼	06/29/24 08:08	07/03/24 15:58	1
1,2,3,4,7,8,9-HpCDF	ND		6.8	0.17	pg/g	☼	06/29/24 08:08	07/03/24 15:58	1
OCDD	**30**	**B**	14	0.30	pg/g	☼	06/29/24 08:08	07/03/24 15:58	1
OCDF	**2.0**	**J**	14	0.24	pg/g	☼	06/29/24 08:08	07/03/24 15:58	1
Total TCDD	ND		1.4	0.22	pg/g	☼	06/29/24 08:08	07/03/24 15:58	1
Total TCDF	ND		1.4	0.30	pg/g	☼	06/29/24 08:08	07/03/24 15:58	1
Total PeCDD	ND		6.8	0.27	pg/g	☼	06/29/24 08:08	07/03/24 15:58	1
Total PeCDF	ND		6.8	0.20	pg/g	☼	06/29/24 08:08	07/03/24 15:58	1
Total HxCDD	ND		6.8	0.67	pg/g	☼	06/29/24 08:08	07/03/24 15:58	1
Total HxCDF	ND		6.8	0.44	pg/g	☼	06/29/24 08:08	07/03/24 15:58	1
Total HpCDD	**6.8**	**q**	6.8	0.13	pg/g	☼	06/29/24 08:08	07/03/24 15:58	1
Total HpCDF	**1.6**	**J q**	6.8	0.16	pg/g	☼	06/29/24 08:08	07/03/24 15:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*71*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:58*	*1*
13C-2,3,7,8-TCDF	*62*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:58*	*1*
13C-1,2,3,7,8-PeCDD	*68*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:58*	*1*
13C-1,2,3,7,8-PeCDF	*69*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:58*	*1*
13C-2,3,4,7,8-PeCDF	*67*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:58*	*1*
13C-1,2,3,4,7,8-HxCDD	*73*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:58*	*1*
13C-1,2,3,6,7,8-HxCDD	*75*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:58*	*1*
13C-1,2,3,4,7,8-HxCDF	*64*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:58*	*1*

Client: Maul Foster & Alongi Inc
Project/Site: Joseph, OR

Job ID: 590-25509-1

Client Sample ID: DU6-COMP

Date Collected: 06/21/24 14:30
Date Received: 06/24/24 11:06

Lab Sample ID: 590-25509-7

Matrix: Solid
Percent Solids: 70.6

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,6,7,8-HxCDF	*64*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:58*	*1*
13C-2,3,4,6,7,8-HxCDF	*66*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:58*	*1*
13C-1,2,3,7,8,9-HxCDF	*61*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:58*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*77*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:58*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*71*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:58*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*74*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:58*	*1*
13C-OCDD	*73*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:58*	*1*
13C-OCDF	*64*		*40 - 135*	*06/29/24 08:08*	*07/03/24 15:58*	*1*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		11	4.3	mg/Kg	☼	06/27/24 11:08	07/01/24 16:25	10
Barium	**140**		11	2.9	mg/Kg	☼	06/27/24 11:08	07/01/24 16:25	10
Cadmium	ND		8.6	0.51	mg/Kg	☼	06/27/24 11:08	07/01/24 16:25	10
Chromium	**14**		11	1.5	mg/Kg	☼	06/27/24 11:08	07/01/24 16:25	10
Lead	ND		26	13	mg/Kg	☼	06/27/24 11:08	07/01/24 16:25	10
Selenium	ND	^1+	43	26	mg/Kg	☼	06/27/24 11:08	07/01/24 16:25	10
Silver	ND		11	2.5	mg/Kg	☼	06/27/24 11:08	07/01/24 16:25	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	**24**	**J**	64	16	ug/Kg	☼	06/27/24 11:15	07/03/24 15:22	1

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 570-457660/1-A
Matrix: Solid
Analysis Batch: 459139

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457660

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		10	3.7	ug/Kg		07/05/24 11:43	07/10/24 19:50	1
2,4,5-TP (Silvex)	ND		10	7.5	ug/Kg		07/05/24 11:43	07/10/24 19:50	1
2,4-D	ND		100	49	ug/Kg		07/05/24 11:43	07/10/24 19:50	1
2,4-DB	ND		100	100	ug/Kg		07/05/24 11:43	07/10/24 19:50	1
Dalapon	ND		250	72	ug/Kg		07/05/24 11:43	07/10/24 19:50	1
Dicamba	ND		10	4.7	ug/Kg		07/05/24 11:43	07/10/24 19:50	1
Dinoseb	ND		100	59	ug/Kg		07/05/24 11:43	07/10/24 19:50	1
MCPA	ND		10000	4900	ug/Kg		07/05/24 11:43	07/10/24 19:50	1
MCPP	ND		10000	6600	ug/Kg		07/05/24 11:43	07/10/24 19:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*80*		*20 - 163*	*07/05/24 11:43*	*07/10/24 19:50*	*1*

Lab Sample ID: MB 570-457660/1-A
Matrix: Solid
Analysis Batch: 459935

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 457660

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorprop	ND		100	49	ug/Kg		07/05/24 11:43	07/12/24 21:34	1

Lab Sample ID: LCS 570-457660/2-A
Matrix: Solid
Analysis Batch: 459139

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 457660

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4,5-T			20.0	20.6		ug/Kg		103	26 - 180		
2,4-D			200	176		ug/Kg		88	13 - 180		
2,4-DB			200	322		ug/Kg		161	10 - 180		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*102*		*20 - 163*

Lab Sample ID: LCSD 570-457660/3-A
Matrix: Solid
Analysis Batch: 459139

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 457660

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-T			20.0	21.8		ug/Kg		109	26 - 180	6	40
2,4-D			200	191		ug/Kg		96	13 - 180	9	40
2,4-DB			200	222		ug/Kg		111	10 - 180	37	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*104*		*20 - 163*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-775604/1-A
Matrix: Solid
Analysis Batch: 776255

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 775604

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		1.0	0.099	pg/g		06/29/24 08:08	07/03/24 08:42	1
2,3,7,8-TCDF	ND		1.0	0.060	pg/g		06/29/24 08:08	07/03/24 08:42	1
1,2,3,7,8-PeCDD	ND		5.0	0.097	pg/g		06/29/24 08:08	07/03/24 08:42	1
1,2,3,7,8-PeCDF	ND		5.0	0.046	pg/g		06/29/24 08:08	07/03/24 08:42	1
2,3,4,7,8-PeCDF	ND		5.0	0.053	pg/g		06/29/24 08:08	07/03/24 08:42	1
1,2,3,4,7,8-HxCDD	ND		5.0	0.074	pg/g		06/29/24 08:08	07/03/24 08:42	1
1,2,3,6,7,8-HxCDD	ND		5.0	0.076	pg/g		06/29/24 08:08	07/03/24 08:42	1
1,2,3,7,8,9-HxCDD	ND		5.0	0.071	pg/g		06/29/24 08:08	07/03/24 08:42	1
1,2,3,4,7,8-HxCDF	ND		5.0	0.062	pg/g		06/29/24 08:08	07/03/24 08:42	1
1,2,3,6,7,8-HxCDF	ND		5.0	0.053	pg/g		06/29/24 08:08	07/03/24 08:42	1
1,2,3,7,8,9-HxCDF	ND		5.0	0.050	pg/g		06/29/24 08:08	07/03/24 08:42	1
2,3,4,6,7,8-HxCDF	ND		5.0	0.046	pg/g		06/29/24 08:08	07/03/24 08:42	1
1,2,3,4,6,7,8-HpCDD	ND		5.0	0.043	pg/g		06/29/24 08:08	07/03/24 08:42	1
1,2,3,4,6,7,8-HpCDF	ND		5.0	0.067	pg/g		06/29/24 08:08	07/03/24 08:42	1
1,2,3,4,7,8,9-HpCDF	ND		5.0	0.068	pg/g		06/29/24 08:08	07/03/24 08:42	1
OCDD	0.799	J q	10	0.081	pg/g		06/29/24 08:08	07/03/24 08:42	1
OCDF	ND		10	0.085	pg/g		06/29/24 08:08	07/03/24 08:42	1
Total TCDD	ND		1.0	0.099	pg/g		06/29/24 08:08	07/03/24 08:42	1
Total TCDF	ND		1.0	0.060	pg/g		06/29/24 08:08	07/03/24 08:42	1
Total PeCDD	ND		5.0	0.097	pg/g		06/29/24 08:08	07/03/24 08:42	1
Total PeCDF	ND		5.0	0.072	pg/g		06/29/24 08:08	07/03/24 08:42	1
Total HxCDD	ND		5.0	0.076	pg/g		06/29/24 08:08	07/03/24 08:42	1
Total HxCDF	ND		5.0	0.062	pg/g		06/29/24 08:08	07/03/24 08:42	1
Total HpCDD	ND		5.0	0.34	pg/g		06/29/24 08:08	07/03/24 08:42	1
Total HpCDF	ND		5.0	0.068	pg/g		06/29/24 08:08	07/03/24 08:42	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*72*		*40 - 135*	*06/29/24 08:08*	*07/03/24 08:42*	*1*
13C-2,3,7,8-TCDF	*64*		*40 - 135*	*06/29/24 08:08*	*07/03/24 08:42*	*1*
13C-1,2,3,7,8-PeCDD	*70*		*40 - 135*	*06/29/24 08:08*	*07/03/24 08:42*	*1*
13C-1,2,3,7,8-PeCDF	*71*		*40 - 135*	*06/29/24 08:08*	*07/03/24 08:42*	*1*
13C-2,3,4,7,8-PeCDF	*68*		*40 - 135*	*06/29/24 08:08*	*07/03/24 08:42*	*1*
13C-1,2,3,4,7,8-HxCDD	*73*		*40 - 135*	*06/29/24 08:08*	*07/03/24 08:42*	*1*
13C-1,2,3,6,7,8-HxCDD	*76*		*40 - 135*	*06/29/24 08:08*	*07/03/24 08:42*	*1*
13C-1,2,3,4,7,8-HxCDF	*65*		*40 - 135*	*06/29/24 08:08*	*07/03/24 08:42*	*1*
13C-1,2,3,6,7,8-HxCDF	*66*		*40 - 135*	*06/29/24 08:08*	*07/03/24 08:42*	*1*
13C-2,3,4,6,7,8-HxCDF	*69*		*40 - 135*	*06/29/24 08:08*	*07/03/24 08:42*	*1*
13C-1,2,3,7,8,9-HxCDF	*65*		*40 - 135*	*06/29/24 08:08*	*07/03/24 08:42*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*81*		*40 - 135*	*06/29/24 08:08*	*07/03/24 08:42*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*71*		*40 - 135*	*06/29/24 08:08*	*07/03/24 08:42*	*1*
13C-1,2,3,4,7,8,9-HpCDF	*81*		*40 - 135*	*06/29/24 08:08*	*07/03/24 08:42*	*1*
13C-OCDD	*80*		*40 - 135*	*06/29/24 08:08*	*07/03/24 08:42*	*1*
13C-OCDF	*72*		*40 - 135*	*06/29/24 08:08*	*07/03/24 08:42*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-775604/2-A
Matrix: Solid
Analysis Batch: 776255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 775604

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,3,7,8-TCDD			20.0	19.5		pg/g		98	73 - 141		
2,3,7,8-TCDF			20.0	19.3		pg/g		96	71 - 153		
1,2,3,7,8-PeCDD			100	98.8		pg/g		99	77 - 126		
1,2,3,7,8-PeCDF			100	88.9		pg/g		89	72 - 128		
2,3,4,7,8-PeCDF			100	87.1		pg/g		87	72 - 127		
1,2,3,4,7,8-HxCDD			100	92.9		pg/g		93	73 - 126		
1,2,3,6,7,8-HxCDD			100	91.9		pg/g		92	76 - 142		
1,2,3,7,8,9-HxCDD			100	101		pg/g		101	70 - 136		
1,2,3,4,7,8-HxCDF			100	87.2		pg/g		87	73 - 127		
1,2,3,6,7,8-HxCDF			100	87.0		pg/g		87	77 - 126		
1,2,3,7,8,9-HxCDF			100	88.3		pg/g		88	77 - 125		
2,3,4,6,7,8-HxCDF			100	85.8		pg/g		86	77 - 126		
1,2,3,4,6,7,8-HpCDD			100	95.3		pg/g		95	79 - 121		
1,2,3,4,6,7,8-HpCDF			100	85.5		pg/g		86	78 - 138		
1,2,3,4,7,8,9-HpCDF			100	81.4		pg/g		81	76 - 123		
OCDD			200	199		pg/g		100	76 - 136		
OCDF			200	195		pg/g		97	75 - 130		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*68*		*40 - 135*
13C-2,3,7,8-TCDF	*60*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*63*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*66*		*40 - 135*
13C-2,3,4,7,8-PeCDF	*63*		*40 - 135*
13C-1,2,3,4,7,8-HxCDD	*70*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*73*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*61*		*40 - 135*
13C-1,2,3,6,7,8-HxCDF	*64*		*40 - 135*
13C-2,3,4,6,7,8-HxCDF	*70*		*40 - 135*
13C-1,2,3,7,8,9-HxCDF	*64*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*75*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*69*		*40 - 135*
13C-1,2,3,4,7,8,9-HpCDF	*76*		*40 - 135*
13C-OCDD	*73*		*40 - 135*
13C-OCDF	*66*		*40 - 135*

Lab Sample ID: LCSD 320-775604/3-A
Matrix: Solid
Analysis Batch: 776255

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 775604

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,3,7,8-TCDD			20.0	20.0		pg/g		100	73 - 141	2	20
2,3,7,8-TCDF			20.0	19.8		pg/g		99	71 - 153	3	20
1,2,3,7,8-PeCDD			100	99.8		pg/g		100	77 - 126	1	20
1,2,3,7,8-PeCDF			100	88.8		pg/g		89	72 - 128	0	20
2,3,4,7,8-PeCDF			100	84.6		pg/g		85	72 - 127	3	20
1,2,3,4,7,8-HxCDD			100	92.8		pg/g		93	73 - 126	0	20
1,2,3,6,7,8-HxCDD			100	103		pg/g		103	76 - 142	11	20
1,2,3,7,8,9-HxCDD			100	101		pg/g		101	70 - 136	1	20

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCSD 320-775604/3-A
Matrix: Solid
Analysis Batch: 776255

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 775604

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,3,4,7,8-HxCDF			100	87.8		pg/g		88	73 - 127	1	20
1,2,3,6,7,8-HxCDF			100	90.0		pg/g		90	77 - 126	3	20
1,2,3,7,8,9-HxCDF			100	89.7		pg/g		90	77 - 125	2	20
2,3,4,6,7,8-HxCDF			100	91.9		pg/g		92	77 - 126	7	20
1,2,3,4,6,7,8-HpCDD			100	96.8		pg/g		97	79 - 121	2	20
1,2,3,4,6,7,8-HpCDF			100	85.7		pg/g		86	78 - 138	0	20
1,2,3,4,7,8,9-HpCDF			100	83.3		pg/g		83	76 - 123	2	20
OCDD			200	201		pg/g		100	76 - 136	1	20
OCDF			200	192		pg/g		96	75 - 130	2	20

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*71*		*40 - 135*
13C-2,3,7,8-TCDF	*63*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*67*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*71*		*40 - 135*
13C-2,3,4,7,8-PeCDF	*71*		*40 - 135*
13C-1,2,3,4,7,8-HxCDD	*77*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*74*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*67*		*40 - 135*
13C-1,2,3,6,7,8-HxCDF	*67*		*40 - 135*
13C-2,3,4,6,7,8-HxCDF	*69*		*40 - 135*
13C-1,2,3,7,8,9-HxCDF	*65*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*79*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*74*		*40 - 135*
13C-1,2,3,4,7,8,9-HpCDF	*79*		*40 - 135*
13C-OCDD	*76*		*40 - 135*
13C-OCDF	*69*		*40 - 135*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 590-48118/2-A
Matrix: Solid
Analysis Batch: 48174

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48118

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.3	0.50	mg/Kg		06/27/24 11:04	07/01/24 15:15	1
Barium	ND		1.3	0.34	mg/Kg		06/27/24 11:04	07/01/24 15:15	1
Cadmium	ND		1.0	0.059	mg/Kg		06/27/24 11:04	07/01/24 15:15	1
Chromium	ND		1.3	0.18	mg/Kg		06/27/24 11:04	07/01/24 15:15	1
Lead	ND		3.0	1.5	mg/Kg		06/27/24 11:04	07/01/24 15:15	1
Selenium	ND	^1+	5.0	3.0	mg/Kg		06/27/24 11:04	07/01/24 15:15	1
Silver	ND		1.3	0.29	mg/Kg		06/27/24 11:04	07/01/24 15:15	1

Lab Sample ID: LCS 590-48118/1-A
Matrix: Solid
Analysis Batch: 48174

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48118

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			50.0	56.0		mg/Kg		112	80 - 120		

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 590-48118/1-A
Matrix: Solid
Analysis Batch: 48174

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48118

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	50.0	49.8		mg/Kg		100	80 - 120
Cadmium	25.0	27.2		mg/Kg		109	80 - 120
Chromium	25.0	28.0		mg/Kg		112	80 - 120
Lead	25.0	29.8		mg/Kg		119	80 - 120
Selenium	50.0	56.3	^1+	mg/Kg		113	80 - 120
Silver	2.50	2.81		mg/Kg		112	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 590-48122/9-A
Matrix: Solid
Analysis Batch: 48250

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48122

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hg	ND		50	12	ug/Kg		06/27/24 11:14	07/03/24 14:52	1

Lab Sample ID: LCS 590-48122/8-A
Matrix: Solid
Analysis Batch: 48250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48122

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hg	200	186		ug/Kg		93	80 - 120

Lab Sample ID: 590-25509-1 MS
Matrix: Solid
Analysis Batch: 48250

Client Sample ID: DU4-COMP
Prep Type: Total/NA
Prep Batch: 48122

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Hg	23	J	226	212		ug/Kg	☼	84	80 - 120

Lab Sample ID: 590-25509-1 MSD
Matrix: Solid
Analysis Batch: 48250

Client Sample ID: DU4-COMP
Prep Type: Total/NA
Prep Batch: 48122

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hg	23	J	234	210		ug/Kg	☼	80	80 - 120	1	20

Lab Sample ID: 590-25509-1 DU
Matrix: Solid
Analysis Batch: 48250

Client Sample ID: DU4-COMP
Prep Type: Total/NA
Prep Batch: 48122

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Hg	23	J	22.1	J	ug/Kg	☼	4	20

Lab Chronicle

Client: Maul Foster & Alongi Inc
Project/Site: Joseph, OR

Job ID: 590-25509-1

Client Sample ID: DU4-COMP
Date Collected: 06/21/24 13:15
Date Received: 06/24/24 11:06

Lab Sample ID: 590-25509-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			48157	07/01/24 10:30	AMB	EET SPK

Client Sample ID: DU4-COMP
Date Collected: 06/21/24 13:15
Date Received: 06/24/24 11:06

Lab Sample ID: 590-25509-1
Matrix: Solid
Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			50.01 g	5 mL	457660	07/05/24 11:43	DVE6	EET CAL 4
Total/NA	Analysis	8151A		1	1 mL	1 mL	459139	07/10/24 23:10	J7WE	EET CAL 4
Total/NA	Prep	8151A			50.01 g	5 mL	457660	07/05/24 11:43	DVE6	EET CAL 4
Total/NA	Analysis	8151A		1	1 mL	1 mL	459935	07/12/24 22:40	J7WE	EET CAL 4
Total/NA	Prep	8290			10.18 g	20.0 uL	775604	06/29/24 08:08	KSM	EET SAC
Total/NA	Analysis	8290A		1	1 Sample	1 Sample	776255	07/03/24 11:09	CB	EET SAC
Total/NA	Prep	3050B			1.36 g	50 mL	48118	06/27/24 11:08	AMB	EET SPK
Total/NA	Analysis	6010D		10			48174	07/01/24 15:48	AMB	EET SPK
Total/NA	Prep	7471B			0.52 g	50 mL	48122	06/27/24 11:15	AMB	EET SPK
Total/NA	Analysis	7471B		1			48250	07/03/24 14:54	AMB	EET SPK

Client Sample ID: DU-COMP-DUP
Date Collected: 06/21/24 13:15
Date Received: 06/24/24 11:06

Lab Sample ID: 590-25509-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			48157	07/01/24 10:30	AMB	EET SPK

Client Sample ID: DU-COMP-DUP
Date Collected: 06/21/24 13:15
Date Received: 06/24/24 11:06

Lab Sample ID: 590-25509-2
Matrix: Solid
Percent Solids: 92.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			50.05 g	5 mL	457660	07/05/24 11:43	DVE6	EET CAL 4
Total/NA	Analysis	8151A		1	1 mL	1 mL	459139	07/10/24 23:32	J7WE	EET CAL 4
Total/NA	Prep	8151A			50.05 g	5 mL	457660	07/05/24 11:43	DVE6	EET CAL 4
Total/NA	Analysis	8151A		1	1 mL	1 mL	459935	07/12/24 23:03	J7WE	EET CAL 4
Total/NA	Prep	8290			10.06 g	20.0 uL	775604	06/29/24 08:08	KSM	EET SAC
Total/NA	Analysis	8290A		1	1 Sample	1 Sample	776255	07/03/24 11:56	CB	EET SAC
Total/NA	Prep	3050B			1.43 g	50 mL	48118	06/27/24 11:08	AMB	EET SPK
Total/NA	Analysis	6010D		10			48174	07/01/24 16:05	AMB	EET SPK
Total/NA	Prep	7471B			0.53 g	50 mL	48122	06/27/24 11:15	AMB	EET SPK
Total/NA	Analysis	7471B		1			48250	07/03/24 15:09	AMB	EET SPK

Lab Chronicle

Client: Maul Foster & Alongi Inc
Project/Site: Joseph, OR

Job ID: 590-25509-1

Client Sample ID: DU1-COMP
Date Collected: 06/21/24 12:15
Date Received: 06/24/24 11:06

Lab Sample ID: 590-25509-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			48157	07/01/24 10:30	AMB	EET SPK

Client Sample ID: DU1-COMP
Date Collected: 06/21/24 12:15
Date Received: 06/24/24 11:06

Lab Sample ID: 590-25509-3
Matrix: Solid
Percent Solids: 94.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			50.02 g	5 mL	457660	07/05/24 11:43	DVE6	EET CAL 4
Total/NA	Analysis	8151A		1	1 mL	1 mL	459139	07/10/24 23:54	J7WE	EET CAL 4
Total/NA	Prep	8151A			50.02 g	5 mL	457660	07/05/24 11:43	DVE6	EET CAL 4
Total/NA	Analysis	8151A		1	1 mL	1 mL	459935	07/12/24 23:25	J7WE	EET CAL 4
Total/NA	Prep	8290			10.36 g	20.0 uL	775604	06/29/24 08:08	KSM	EET SAC
Total/NA	Analysis	8290A		1	1 Sample	1 Sample	776255	07/03/24 12:44	CB	EET SAC
Total/NA	Prep	3050B			1.35 g	50 mL	48118	06/27/24 11:08	AMB	EET SPK
Total/NA	Analysis	6010D		10			48174	07/01/24 16:09	AMB	EET SPK
Total/NA	Prep	7471B			0.55 g	50 mL	48122	06/27/24 11:15	AMB	EET SPK
Total/NA	Analysis	7471B		1			48250	07/03/24 15:12	AMB	EET SPK

Client Sample ID: DU2-COMP
Date Collected: 06/21/24 10:45
Date Received: 06/24/24 11:06

Lab Sample ID: 590-25509-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			48157	07/01/24 10:30	AMB	EET SPK

Client Sample ID: DU2-COMP
Date Collected: 06/21/24 10:45
Date Received: 06/24/24 11:06

Lab Sample ID: 590-25509-4
Matrix: Solid
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			51.00 g	5 mL	457660	07/05/24 11:43	DVE6	EET CAL 4
Total/NA	Analysis	8151A		1	1 mL	1 mL	459139	07/11/24 00:16	J7WE	EET CAL 4
Total/NA	Prep	8151A			51.00 g	5 mL	457660	07/05/24 11:43	DVE6	EET CAL 4
Total/NA	Analysis	8151A		1	1 mL	1 mL	459935	07/12/24 23:47	J7WE	EET CAL 4
Total/NA	Prep	8290			10.37 g	20.0 uL	775604	06/29/24 08:08	KSM	EET SAC
Total/NA	Analysis	8290A		1	1 Sample	1 Sample	776255	07/03/24 13:36	CB	EET SAC
Total/NA	Prep	3050B			1.29 g	50 mL	48118	06/27/24 11:08	AMB	EET SPK
Total/NA	Analysis	6010D		10			48174	07/01/24 16:13	AMB	EET SPK
Total/NA	Prep	7471B			0.56 g	50 mL	48122	06/27/24 11:15	AMB	EET SPK
Total/NA	Analysis	7471B		1			48250	07/03/24 15:14	AMB	EET SPK

Lab Chronicle

Client: Maul Foster & Alongi Inc
Project/Site: Joseph, OR

Job ID: 590-25509-1

Client Sample ID: DU3-COMP
Date Collected: 06/21/24 13:45
Date Received: 06/24/24 11:06

Lab Sample ID: 590-25509-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			48157	07/01/24 10:30	AMB	EET SPK

Client Sample ID: DU3-COMP
Date Collected: 06/21/24 13:45
Date Received: 06/24/24 11:06

Lab Sample ID: 590-25509-5
Matrix: Solid
Percent Solids: 95.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			50.21 g	5 mL	457660	07/05/24 11:43	DVE6	EET CAL 4
Total/NA	Analysis	8151A		1	1 mL	1 mL	459139	07/11/24 00:39	J7WE	EET CAL 4
Total/NA	Prep	8151A			50.21 g	5 mL	457660	07/05/24 11:43	DVE6	EET CAL 4
Total/NA	Analysis	8151A		1	1 mL	1 mL	459935	07/13/24 00:09	J7WE	EET CAL 4
Total/NA	Prep	8290			10.23 g	20.0 uL	775604	06/29/24 08:08	KSM	EET SAC
Total/NA	Analysis	8290A		1	1 Sample	1 Sample	776255	07/03/24 14:23	CB	EET SAC
Total/NA	Prep	3050B			1.34 g	50 mL	48118	06/27/24 11:08	AMB	EET SPK
Total/NA	Analysis	6010D		10			48174	07/01/24 16:17	AMB	EET SPK
Total/NA	Prep	7471B			0.50 g	50 mL	48122	06/27/24 11:15	AMB	EET SPK
Total/NA	Analysis	7471B		1			48250	07/03/24 15:17	AMB	EET SPK

Client Sample ID: DU5-COMP
Date Collected: 06/21/24 15:15
Date Received: 06/24/24 11:06

Lab Sample ID: 590-25509-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			48157	07/01/24 10:30	AMB	EET SPK

Client Sample ID: DU5-COMP
Date Collected: 06/21/24 15:15
Date Received: 06/24/24 11:06

Lab Sample ID: 590-25509-6
Matrix: Solid
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			51.10 g	5 mL	457660	07/05/24 11:43	DVE6	EET CAL 4
Total/NA	Analysis	8151A		1	1 mL	1 mL	459139	07/11/24 01:01	J7WE	EET CAL 4
Total/NA	Prep	8151A			51.10 g	5 mL	457660	07/05/24 11:43	DVE6	EET CAL 4
Total/NA	Analysis	8151A		1	1 mL	1 mL	459935	07/13/24 00:32	J7WE	EET CAL 4
Total/NA	Prep	8290			10.25 g	20.0 uL	775604	06/29/24 08:08	KSM	EET SAC
Total/NA	Analysis	8290A		1	1 Sample	1 Sample	776255	07/03/24 15:11	CB	EET SAC
Total/NA	Prep	3050B			1.51 g	50 mL	48118	06/27/24 11:08	AMB	EET SPK
Total/NA	Analysis	6010D		10			48174	07/01/24 16:21	AMB	EET SPK
Total/NA	Prep	7471B			0.57 g	50 mL	48122	06/27/24 11:15	AMB	EET SPK
Total/NA	Analysis	7471B		1			48250	07/03/24 15:19	AMB	EET SPK

Lab Chronicle

Client: Maul Foster & Alongi Inc
Project/Site: Joseph, OR

Job ID: 590-25509-1

Client Sample ID: DU6-COMP
Date Collected: 06/21/24 14:30
Date Received: 06/24/24 11:06

Lab Sample ID: 590-25509-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			48157	07/01/24 10:30	AMB	EET SPK

Client Sample ID: DU6-COMP
Date Collected: 06/21/24 14:30
Date Received: 06/24/24 11:06

Lab Sample ID: 590-25509-7
Matrix: Solid
Percent Solids: 70.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			50.06 g	5 mL	457660	07/05/24 11:43	DVE6	EET CAL 4
Total/NA	Analysis	8151A		1	1 mL	1 mL	459139	07/11/24 01:23	J7WE	EET CAL 4
Total/NA	Prep	8151A			50.06 g	5 mL	457660	07/05/24 11:43	DVE6	EET CAL 4
Total/NA	Analysis	8151A		1	1 mL	1 mL	459935	07/13/24 00:54	J7WE	EET CAL 4
Total/NA	Prep	8290			10.43 g	20.0 uL	775604	06/29/24 08:08	KSM	EET SAC
Total/NA	Analysis	8290A		1	1 Sample	1 Sample	776255	07/03/24 15:58	CB	EET SAC
Total/NA	Prep	3050B			1.65 g	50 mL	48118	06/27/24 11:08	AMB	EET SPK
Total/NA	Analysis	6010D		10			48174	07/01/24 16:25	AMB	EET SPK
Total/NA	Prep	7471B			0.55 g	50 mL	48122	06/27/24 11:15	AMB	EET SPK
Total/NA	Analysis	7471B		1			48250	07/03/24 15:22	AMB	EET SPK

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

EET SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Accreditation/Certification Summary

Client: Maul Foster & Alongi Inc
Project/Site: Joseph, OR

Job ID: 590-25509-1

Laboratory: Eurofins Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4137	12-08-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0830	11-16-24
Arkansas DEQ	State	88-0161	07-02-25
California	Los Angeles County Sanitation Districts	9257304	08-01-24
California	State	3082	07-31-24
Kansas	NELAP	E-10420	08-01-24
Nevada	State	CA00111	07-31-24
Oregon	NELAP	4175	02-02-25
USDA	US Federal Programs	P330-22-00059	06-08-26
Washington	State	C916-18	10-11-24

Laboratory: Eurofins Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	02-20-27
ANAB	Dept. of Defense ELAP	L2468	01-20-27
ANAB	Dept. of Energy	L2468.01	01-20-27
ANAB	ISO/IEC 17025	L2468	01-20-27
Arizona	State	AZ0708	08-11-24
Arkansas DEQ	State	88-0691	05-18-25
California	State	2897	01-31-26
Colorado	State	CA00044	08-31-24
Florida	NELAP	E87570	06-30-25
Georgia	State	4040	01-29-25
Hawaii	State	Eurofins Sacramento	01-29-25
Illinois	NELAP	200060	03-31-25
Kansas	NELAP	E-10375	10-31-25
Louisiana	NELAP	01944	06-30-25
Louisiana (All)	NELAP	01944	06-30-25
Maine	State	CA00004	04-14-26
Michigan	State	9947	01-29-25
Nevada	State	CA00044	07-31-25
New Hampshire	NELAP	2997	04-19-25
New Jersey	NELAP	CA005	06-30-25
New York	NELAP	11666	04-01-25
Ohio	State	41252	01-29-25
Oregon	NELAP	4040	01-29-25
Texas	NELAP	T104704399-23-17	05-31-25

Accreditation/Certification Summary

Client: Maul Foster & Alongi Inc
Project/Site: Joseph, OR

Job ID: 590-25509-1

Laboratory: Eurofins Sacramento (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
US Fish & Wildlife	US Federal Programs	A22139	04-30-25
USDA	US Federal Programs	P330-18-00239	02-28-26
Utah	NELAP	CA000442023-16	02-28-25
Virginia	NELAP	460278	03-14-25
Washington	State	C581	05-05-25
West Virginia (DW)	State	9930C	01-31-25
Wisconsin	State	998204680	08-31-25
Wyoming	State Program	8TMS-L	01-28-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Maul Foster & Alongi Inc
Project/Site: Joseph, OR

Job ID: 590-25509-1

Method	Method Description	Protocol	Laboratory
8151A	Herbicides (GC)	SW846	EET CAL 4
8290A	Dioxins and Furans (HRGC/HRMS)	SW846	EET SAC
6010D	Metals (ICP)	SW846	EET SPK
7471B	Mercury (CVAA)	SW846	EET SPK
Moisture	Percent Moisture	EPA	EET SPK
3050B	Preparation, Metals	SW846	EET SPK
7471B	Preparation, Mercury	SW846	EET SPK
8151A	Extraction (Herbicides)	SW846	EET CAL 4
8290	Soxhlet Extraction of Dioxins and Furans	SW846	EET SAC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

EET SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Eurofins Spokane
11922 E 1st Avenue
Spokane, WA 99206-5302
phone 509.924.9200 fax 509.924.9290

Chain of Custody Record

eurofins | Environment Testing America

Regulatory Program ☐DW ☐NPDES ☐RCRA ☐Other

Eurofins Environment Testing America

Client Contact	Project Manager: Lisa Pritzl	Site Contact: Lisa Pritzl	Date: 6/24/24	COC No:
Your Company Name here: Maul Foster Alongi	Email: LPritzl@maulfoster.com	Lab Contact:	Carrier:	of COCs
Address: 1220 Big Creek Road	Tel/Fax: 509-710-5080			TALS Project #:
City/State/Zip: Kellogg, ID 83837	Analysis Turnaround Time			Sampler:
(xxx) xxx-xxxx Phone: 509-710-5080	☐CALENDAR DAYS ☐WORKING DAYS			For Lab Use Only:
(xxx) xxx-xxxx FAX	TAT if different from Below ____			Walk-in Client:
Project Name: Working Homes, LLC	☐ 2 weeks			Lab Sampling:
Site: Joseph, OR	☐ 1 week			Job / SDG No.:
PO#	☐ 2 days ☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Hg by 7471B	RCRA Metals - 6010D	Routine Herb - 8151A	17 isomers + totals - 8290A	Sample Specific Notes.
DU4-COMP	6/24/24	1315	C	Soil	4			X	X	X	X	
DU-COMP-DUP		1315						X	X	X	X	
DU1-COMP		1215						X	X	X	X	
DU2-COMP		1045						X	X	X	X	
DU3-COMP		1345						X	X	X	X	
DU5-COMP		~~1315~~						X	X	X	X	
DU6-COMP		1430						X	X	X	X	
								~~X~~	X	X	X	
								X	X	X	X	
								X	X	X	X	
								X	X	X	X	

590-25509 Chain of Custody

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other

Possible Hazard Identification
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐Return to Client ☐Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments
See quote # 590026688-0. RCRA metals (As, Ba, Cd, Cr, Pb, Se, Ag); Mercury (7471B), Routine Herbicides List (Standard Spike List) + 17 Isomers + Totals.

Custody Seals Intact: ☐Yes ☐No	Custody Seal No.	Cooler Temp. (°C): Obs'd: 1.4 Corr'd: 1.4	Therm ID No.: IR005

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Haley McDaniel	Maul Foster Alongi	6/24/24 1100			
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by	Company: EET SPK	Date/Time: 6/24/24 11:06

ORIGIN ID:DTHA (714) 895-5494
EUROFINS ENVIORMENTAL
CALSCIENCE-
2841 DOW AVE
SUITE 100
TUSTIN, CA 92780
UNITED STATES US

SHIP DATE: 27JUN24
ACTWGT: 30.00 LB
CAD: 2260016/INET4535

TO **SHIPPING/ RECEIVING**
EUROFINS SPOKANE
11922 E 1ST AVE

SPOKANE VALLEY WA 99206
(509) 924-9200 REF:
INV:
PO: DEPT:

583J5/821D/9AE3

RMA:

FedEx Express

RETURNS MON-FRI
PRIORITY OVERNIGHT

TRK# 0221 **7914 7604 4800**

99206

WA-US

590-25509 Waybill

Eurofins Spokane
11922 East 1st Ave
Spokane, WA 99206
Phone: 509-924-9200 Fax: 509-924-9290

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Arrington, Randee E	Carrier Tracking No(s):	COC No. 590-9351 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Randee.Arrington@et.eurofinsus.com	State of Origin: Washington	Page: Page 1 of 1
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note): NELAP - Oregon		Job #: 590-25509-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 7/8/2024			Preservation Codes: -
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Joseph, OR	Project #: 59003491			
Site:	SSOW#:			Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8290A/8290_P_Sox 17 Isomers & Totals	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
DU4-COMP (590-25509-1)	6/21/24	13.15 Pacific		Solid			X	3	
DU-COMP-DUP (590-25509-2)	6/21/24	13 15 Pacific		Solid			X	1	
DU1-COMP (590-25509-3)	6/21/24	12.15 Pacific		Solid			X	2	
DU2-COMP (590-25509-4)	6/21/24	10.45 Pacific		Solid			X	2	
DU3-COMP (590-25509-5)	6/21/24	13.45 Pacific		Solid			X	2	
DU5-COMP (590-25509-6)	6/21/24	15 15 Pacific		Solid			X	3	
DU6-COMP (590-25509-7)	6/21/24	14.30 Pacific		Solid			X	3	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time:	Company	Received by	Date/Time:	Company
1		6/27/24 15:25	EETSPO		6/28/24	
2	Relinquished by	Date/Time:	Company	Received by	Date/Time:	Company
3	Relinquished by	Date/Time:	Company	Received by	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No 2261062 | Cooler Temperature(s) °C and Other Remarks: 5.8c

Ver: 04/02/2024

Eurofins Spokane
11922 East 1st Ave
Spokane, WA 99206
Phone: 509-924-9200 Fax: 509-924-9290

Chain of Custody Record

eurofins | Er

Loc: 590
25509

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Arrington, Randee E	Carrier Tracking No(s):	COC No: 590-9350.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Randee.Arrington@et.eurofinsus.com	State of Origin: Washington	Page: Page 1 of 1
Company: Eurofins Environment Testing Southwest,		Accreditations Required (See note): NELAP - Oregon		Job #: 590-25509-1
Address: 2841 Dow Avenue, Suite 100, ,	Due Date Requested: 7/8/2024			Preservation Codes: -
City: Tustin	TAT Requested (days):			
State, Zip: CA, 92780				
Phone: 714-895-5494(Tel)	PO #:			
Email:	WO #:			
Project Name: Joseph, OR	Project #: 59003491			
Site:	SSOW#:			Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8151A/8151A_SP Routine Herbicides List (Standard Spike	Total Number of containers	Special Instr
			Preservation Code:						
DU4-COMP (590-25509-1)	6/21/24	13:15 Pacific		Solid			X	1	
DU-COMP-DUP (590-25509-2)	6/21/24	13:15 Pacific		Solid			X	1	
DU1-COMP (590-25509-3)	6/21/24	12:15 Pacific		Solid			X	1	
DU2-COMP (590-25509-4)	6/21/24	10:45 Pacific		Solid			X	2	
DU3-COMP (590-25509-5)	6/21/24	13:45 Pacific		Solid			X	1	
DU5-COMP (590-25509-6)	6/21/24	15:15 Pacific		Solid			X	1	
DU6-COMP (590-25509-7)	6/21/24	14:30 Pacific		Solid			X	1	

590-25509 Chain of Custody

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	6/27/24 15:1	ET SPO	Fedex		
Relinquished by: Fedex	Date/Time:	Company	Received by:	Date/Time: 6/28/24 9:30	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		SCY 2.9/3.0

Login Sample Receipt Checklist

Client: Maul Foster & Alongi Inc

Job Number: 590-25509-1

Login Number: 25509
List Number: 1
Creator: Morris, Mackenzie 1

List Source: Eurofins Spokane

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Maul Foster & Alongi Inc

Job Number: 590-25509-1

Login Number: 25509
List Number: 3
Creator: Khana, Piyush

List Source: Eurofins Calscience
List Creation: 06/28/24 03:59 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Maul Foster & Alongi Inc

Job Number: 590-25509-1

Login Number: 25509
List Number: 2
Creator: Simmons, Jason C

List Source: Eurofins Sacramento
List Creation: 06/28/24 03:32 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	2261062
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.8c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Sacramento Sample Receiving Notes (SSRN)

Tracking # 777108883094

Job ___ 590-25509 Field Sheet ___

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier

GSL / OnTrac / Goldstreak / USPS / Other_____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC

Therm. ID: L-11 Corr. Factor (+ / -) _____ °C

Ice 1 Wet 1 Gel _____ Other _____

Cooler Custody Seal: 2261062

Cooler ID _____

Temp Observed 5.8 °C Corrected 5.8 °C

From Temp Blank ☐ Sample ☑

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	☐	☑	☐
Cooler Temperature is acceptable?	☑	☐	☐
Frozen samples show signs of thaw?	☐	☐	☑

Initials _____ Date 6.28.24

Unpacking/Labeling The Samples	Yes	No	NA
Containers are not broken or leaking?	☑	☐	☐
Samples compromised/tampered with?	☐	☑	☐
COC is complete w/o discrepancies	☑	☐	☐
Sample custody seal?	☐	☐	☑
Sample containers have legible labels?	☑	☐	☐
Sample date/times are provided?	☑	☐	☐
Appropriate containers are used?	☑	☐	☐
Sample bottles are completely filled?	☑	☐	☐
Sample preservatives verified?	☐	☐	☑
Is the Field Sampler's name on COC?	☐	☐	☑
Samples w/o discrepancies?	☑	☐	☐
Zero headspace?*	☐	☐	☑
Alkalinity has no headspace?	☐	☐	☑
Perchlorate has headspace? (Methods 314, 331, 6850)	☐	☐	☑
Multiphasic samples are not present?	☑	☐	☐

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials _____ Date 6.28.24

Notes:_____

Trizma Lot #(s) _____

Ammonium Acetate Lot #(s): _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	☑	☐	☐
NCM Filed?	☐	☐	☑
Samples received within hold time?	☐	☐	☑
Log Release checked in TALS?	☐	☐	☑

Initials _____ Date 6.28.24

Isotope Dilution Summary

Client: Maul Foster & Alongi Inc
Project/Site: Joseph, OR

Job ID: 590-25509-1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (40-135)	TCDF (40-135)	PeCDD (40-135)	PeCDF (40-135)	PeCF (40-135)	HxCDD (40-135)	HxDD (40-135)	HxCDF (40-135)
590-25509-1	DU4-COMP	68	60	64	65	67	70	70	59
590-25509-2	DU-COMP-DUP	60	52	57	58	57	57	60	50
590-25509-3	DU1-COMP	71	64	67	69	68	73	77	65
590-25509-4	DU2-COMP	72	64	67	72	73	70	75	61
590-25509-5	DU3-COMP	78	68	75	80	80	85	83	72
590-25509-6	DU5-COMP	65	56	63	65	64	68	74	61
590-25509-7	DU6-COMP	71	62	68	69	67	73	75	64
LCS 320-775604/2-A	Lab Control Sample	68	60	63	66	63	70	73	61
LCSD 320-775604/3-A	Lab Control Sample Dup	71	63	67	71	71	77	74	67
MB 320-775604/1-A	Method Blank	72	64	70	71	68	73	76	65

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HxDF (40-135)	13CHxCF (40-135)	HxCF (40-135)	HpCDD (40-135)	HpCDF (40-135)	HpCDF2 (40-135)	OCDD (40-135)	OCDF (40-135)
590-25509-1	DU4-COMP	61	63	58	71	66	71	69	61
590-25509-2	DU-COMP-DUP	52	57	54	64	57	63	62	55
590-25509-3	DU1-COMP	69	70	61	77	71	76	72	65
590-25509-4	DU2-COMP	66	66	63	72	67	72	67	62
590-25509-5	DU3-COMP	75	73	68	87	80	84	85	76
590-25509-6	DU5-COMP	63	63	59	75	67	72	70	63
590-25509-7	DU6-COMP	64	66	61	77	71	74	73	64
LCS 320-775604/2-A	Lab Control Sample	64	70	64	75	69	76	73	66
LCSD 320-775604/3-A	Lab Control Sample Dup	67	69	65	79	74	79	76	69
MB 320-775604/1-A	Method Blank	66	69	65	81	71	81	80	72

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF = 13C-1,2,3,7,8-PeCDF
PeCF = 13C-2,3,4,7,8-PeCDF
HxCDD = 13C-1,2,3,4,7,8-HxCDD
HxDD = 13C-1,2,3,6,7,8-HxCDD
HxCDF = 13C-1,2,3,4,7,8-HxCDF
HxDF = 13C-1,2,3,6,7,8-HxCDF
13CHxCF = 13C-2,3,4,6,7,8-HxCDF
HxCF = 13C-1,2,3,7,8,9-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF
OCDD = 13C-OCDD
OCDF = 13C-OCDF