Technical Memorandum

To: Mark Pugh, Oregon DEQ

From: Krysta Krippaehne-Stein, PE
Kathy Lombardi, PE

Date: May 20, 2025

Project No.: M0496.02.004

Re: Block 2 Demolition Completion Summary

EXPIRES: 06/30/2027
This digital seal certifies the signatory and document content.

This memorandum summarizes demolition of the former Blue Heron Block 2, comprised of the Third Street Complex, the No. 2 and No. 3 Paper Machine Complex, and the Mill D Complex, located at the former Blue Heron paper mill site at 419 Main Street, Oregon City, Oregon (the Property) (Figure 1-1), and was prepared by Maul Foster & Alongi, Inc. for the owner of the Property, The Confederated Tribes of Grand Ronde. Block 2 was located on the central portion of the Property between Main Street and the Willamette River (Figure 1-2). Work was completed per the following Removal Action Plans (RAPs):

- Third Street Complex dated September 23, 2022
- No. 2 and No. 3 Paper Machine Complex dated November 21, 2022
- Mill D Complex dated September 22, 2022

Project Description

The Third Street Complex was constructed in the 1960s as a covered storage and operations area. The Butler Building was constructed following the removal of an office building after 1967. The No. 2 Paper Machine was constructed in 1910, and the No. 3 Paper Machine was constructed by 1913. The Mill D Complex was constructed in 1916 and modified between 1945 and 1946.

Permits

Work was performed under the following building and demolition permits issued by the City of Oregon City:

- Third Street Complex (No. BDEMO-22-00016)
- Mill D Complex (No. BDEMO-22-00017)
- No. 2 and No. 3 Paper Machine Complex (No. BDEMO-22-00020)

A copy of each permit is included as Attachment 1. No other permits were required.

Demolition Summary

Demolition was performed between January and June 2023 by Elder Demolition (Contractor) in accordance with the RAP. Details of the demolition are described below. A photo log of demolition activities is included as Attachment 2.

Hazardous Building Materials Abatement

Hazardous building materials (HBM) were removed from the Mill D Complex and the No. 2 and No. 3 Paper Machine Complex before structural demolition started. IRS Environmental completed remediation of asbestos at the site in January and February of 2023. Materials abated included built up roofing, floor tile and mastic, and CAB panels.

Materials were packaged according to Oregon Administrative Rules 340, Division 248 in double 6-mil bags or loaded to a 40 cubic yard roll-off box and enclosed in a similar 6-mil plastic membrane. Sealed packages were labeled with an asbestos hazard warning label, then disposed off site at Waste Management Hillsboro Landfill and Wasco County Landfill. Asbestos waste shipment report forms (ASN 4) are included in Attachment 3.

General Demolition

Once HBM was removed, the Contractor removed structures generally as described in the RAP. Non-hazardous materials were either loaded into 40 cubic yard roll-off containers and collected by Oregon City Garbage for off site disposal or salvaged for recycling. All three complexes were removed to their existing concrete building slabs or asphalt following demolition. Disposal records for general demolition materials and Gully Washers are included in Attachment 4. Analytical reports for disposal characterization of the Gully Washers are included in Attachment 5.

The Contractor implemented and maintained stormwater best management practices and dust control throughout the project.

Site Cleanup

Once demolition was complete, the Contractor removed all debris and swept the surrounding work areas to remove small debris and dust. Photos of the final site condition are included in Attachment 2.

Issues and Changes

The following sections summarize the sampling and disposal of dye-impacted material, oil-stained concrete, and aboveground storage tank (AST) materials.

Dye-Impacted Material Sampling and Disposal

In April 2023, colored stormwater was observed in the detention pond upstream of Outfall 5. The source of the colored stormwater was determined to be from pink dye released onto concrete surfaces during demolition activities. Analytical reports for concrete and water characterization are included in Attachment 6. Dye-impacted concrete was disposed of off site at Waste Management Hillsboro Landfill (see Attachment 7). Dye-impacted stormwater was pumped into baker tanks and disposed of off site by River City Environmental (see Attachment 7).

Oil-Stained Concrete Sampling and Disposal

Oil-stained concrete was sampled by Maul Foster & Alongi, Inc. on June 28, 2023. The analytical report for characterization is included in Attachment 5. The concrete was disposed of off site at Waste Management Hillsboro Landfill (see Attachment 8).

AST Sampling and Disposal

Three ASTs with unknown contents were identified during demolition. One AST contained liquid, and two ASTs contained fibrous solids. The ASTs were sampled by US Ecology on March 29, 2023. Analytical reports for characterization are included in Attachment 9. The solids were disposed of with the general demolition waste. The liquid was disposed of off site by Thermal Fluids.

Attachments

Limitations

Figures

1—Permit

2—Photographic Log

3—Asbestos Closeout Documentation

4—General Disposal Records

5—Gully Washer and Oil-Stained Concrete Analytical Reports

6—Dye-Impacted Material Analytical Reports

7—Dye-Impacted Material Disposal Records

8—Oil-Stained Concrete Disposal Records

9—AST Analytical Reports

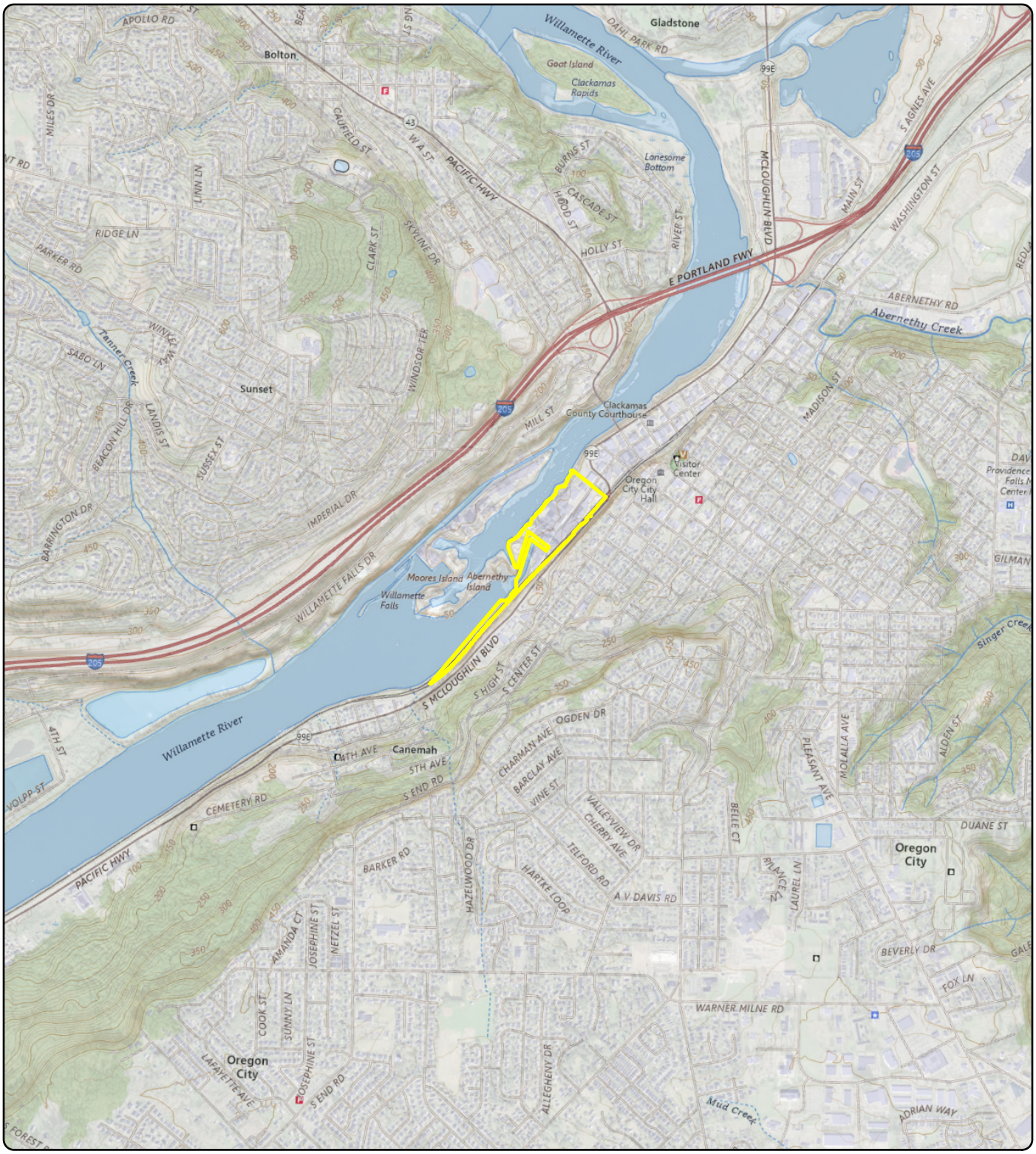
Limitations

The services undertaken in completing this technical memorandum 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 technical memorandum 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 technical memorandum 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 technical memorandum.

Figures

MAUL
FOSTER
ALONGI



Notes
U.S. Geological Survey 7.5-minute topographic quadrangle (2020): Oregon City.
Township 2 south, range 2 east, section 31.

Data Source
Property tax lot obtained from Oregon Metro.

Legend

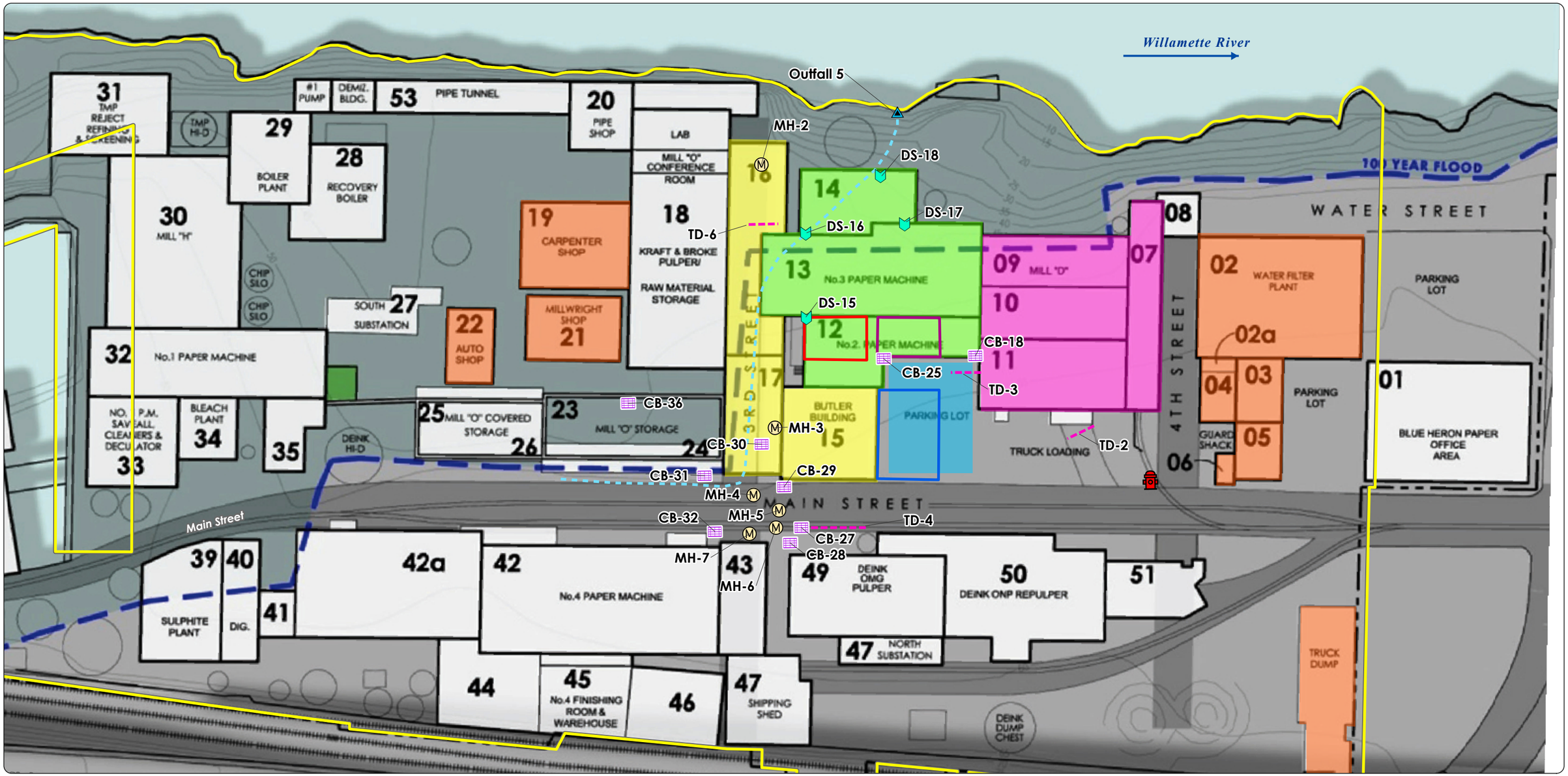
Property Boundary

Figure 1-1
Property Location

419 Main Street
Oregon City, OR

MAUL FOSTER ALONGI
p. 971 544 2139 | www.maulfoster.com

Path: X:\0496.02\004\Pro\M0496_02_004.aprx\Fig 1-1 Property Location
Print Date: 4/30/2025
Reviewed By: kkropaehne-stein
Produced By: sturner
Project: M0496.02.004



Notes
CB = stormwater catch basin.
DS = downspout.
MH = manhole.
TD = trench drain.

Legend

- Downspout
- Fire Hydrant (Water Source)
- Manhole (Protect in Place)
- Stormwater Catch Basin (Inlet Protection)
- Outfall
- Tailrace 2
- Trench Drain (Cover and Protect, Inlet Protection)
- Property Tax Lot
- Historic Flour Mill (Approximate Location)
- Historic Flour Mill Warehouse (Approximate Location)
- Historic Charman Store (Approximate Location)
- Storage and Staging Area
- No. 2 and No. 3 Paper Machine Complex
- 3rd Street Complex
- Mill D Complex
- Previously Demolished Structure

Figure 1-2
Property Layout
419 Main Street
Oregon City, OR

0 50 100
Feet

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Data Sources
Parcel boundary (May 2017) obtained from Oregon Metro; site features obtained from Environmental Resources Management (ERM).

Attachment 1

Permits

MAUL FOSTER ALONGI

City of Oregon City
PO Box 3040
695 Warner Parrott Road
Oregon City, Oregon 97045-0304
503-722-3789

Permit

Permit NO.: **BDEMO-22-00016** *Permit IVR Number:* **116050**
Permit Type: **Demolition**
Work Classification: **Non-Residential**
Permit Status: **Issued**

Issue Date: 01/19/2023

Expiration: 07/18/2023

Location Address	Parcel Number
419 MAIN ST, OREGON CITY, OR 97045	**2-2E-31BD-00300**

Contacts

Ryan Webb **Owner**
ryan.webb@grandronde.org

Shannon Ham-Texeira **Applicant**
9615 Grand Ronde rd., Grand ARonde, OR 97347
shannon.ham-texeira@grandronde.org

Jacob Faust **Applicant**
6 Centerpointe DR Ste 360, Lake Oswego, OR 97035
(503)320-0510 jfaust@maulfoster.com

Elder Demolition **Contractor**
6400 SE 101st AVE 201, Portland, OR 97266
(503)760-6330 JasonSamek@ElderDemolition.com

City of Oregon City
PO Box 3040
695 Warner Parrott Road
Oregon City, Oregon 97045-0304
503-722-3789

Permit

Permit NO.: **BDEMO-22-00016** *Permit IVR Number:* **116050**
Permit Type: **Demolition**
Work Classification: **Non-Residential**
Permit Status: **Issued**

Issue Date: **01/19/2023**

Expiration: 07/18/2023

Description: Commercial - Blue Heron Mill, 3rd St. Complex - Demolition of steel frame building and adjacent overhead steel frame structure.
Water
The Contactor shall fill abandoned pipes 6-inches and larger with a controlled density fill (CDF), seal the open ends of all pipes, fittings, etc. that are to be abandoned with an end cap, coupling, or a concrete plug with a thickness equal to the diameter of the pipe. All abandoned piping to be severed as close to active piping as practical. All service lines are required to be severed at the main and for the corporation stops to be capped if not required to be removed. A 4" diameter by 4" long piece of PVC pipe is to be installed over all capped corporation stops that remain as part of abandonment. All other parts of the service lines and other appurtenances are to be cut off and removed at 24 inches minimum below finish grade. Structures (vaults, meter boxes, etc.) shall be removed completely to eliminate conflict with any future utility improvements. Abandonment of structures shall be completed only after piped systems have been properly abandoned. Abandoned valve boxes in pavement areas shall be cut off 24 inches below grade, removed, gravel filled, and plugged with compacted asphalt. Valve boxes outside of pavement areas shall be cut off 24 inches below grade, removed, and filled with native backfill. The Public Works Department has first claim to any removed or abandoned water materials (valves, hydrants, fittings, etc.). The contractor shall dispose of all unwanted materials in an approved manner.

Sewer
The Contactor shall seal the open ends of all pipes that are to be abandoned with an end cap, coupling, or a concrete plug with a thickness equal to the diameter of the pipe which is permanent & watertight. All abandoned piping to be severed as close to active piping as practical. All service lines are required to be abandoned at or near the sewer main. All other parts of the service lines and other appurtenances are to be cut off and removed at 24 inches minimum below finish grade. Structures (manholes, cleanouts, etc.) shall be removed completely to eliminate conflict with any future utility improvements. Abandonment of structures shall be completed only after piped systems have been properly abandoned. Abandoned cleanouts in pavement areas shall be cut off 24 inches below grade, removed, gravel filled, and plugged with compacted asphalt. Cleanouts outside of pavement areas shall be cut off 24 inches below grade, removed, and filled with native backfill. The Public Works Department has first claim to any removed or abandoned sanitary materials. The Contractor shall dispose of all unwanted materials in an approved manner.

Valuation:	**$0.00**
Total Sq Feet:	**0.00**

Inspection Requests:
Inspection Line: 503-496-1551

City of Oregon City
PO Box 3040
695 Warner Parrott Road
Oregon City, Oregon 97045-0304
503-722-3789

Permit

Permit NO.: **BDEMO-22-00016** *Permit IVR Number:* **116050**
Permit Type: **Demolition**
Work Classification: **Non-Residential**
Permit Status: **Issued**

Issue Date: 01/19/2023

Expiration: 07/18/2023

Fees	Amount
Building Plan Review (tax)	$698.16
Demolition Commercial (tax)	$1,074.10
Site Plan Review PLNG	$89.00
State Surcharge - Building (tax)	$128.89
Total:	**$1,990.15**

Payments	Amt Paid
Total Fees	**$1,990.15**
Credit Card	$1,291.99
Credit Card	$698.16
Amount Due:	**$0.00**

Available Inspections:

Inspection Type	IVR
Demolition Final	922

January 19, 2023

Issued By: Kristi Brandt — Date

Permit Holder — Date

City of Oregon City
PO Box 3040
695 Warner Parrott Road
Oregon City, Oregon 97045-0304
503-722-3789

Permit

Permit NO.: **BDEMO-22-00017** *Permit IVR Number:* **116051**
Permit Type: **Demolition**
Work Classification: **Non-Residential**
Permit Status: **Issued**

Issue Date: 01/19/2023

Expiration: 07/18/2023

Location Address

419 MAIN ST, OREGON CITY, OR 97045

Parcel Number

2-2E-31BD-00300

Contacts

Ryan Webb **Owner**
ryan.webb@grandronde.org

Shannon Ham-Texeira **Applicant**
9615 Grand Ronde rd., Grand ARonde, OR 97347
shannon.ham-texeira@grandronde.org

Jacob Faust **Applicant**
6 Centerpointe DR Ste 360, Lake Oswego, OR 97035
(503)320-0510 jfaust@maulfoster.com

Elder Demolition **Contractor**
6400 SE 101st AVE 201, Portland, OR 97266
(503)760-6330 JasonSamek@ElderDemolition.com

Description: Commercial - Blue Heron Mill, Mill D Complex - Demolition of steel frame buildings

Valuation: **$0.00**

Total Sq Feet: **0.00**

Inspection Requests:
Inspection Line: 503-496-1551

Fees	Amount
Building Plan Review (tax)	$810.95
Demolition Commercial (tax)	$1,247.61
Site Plan Review PLNG	$89.00
State Surcharge - Building (tax)	$149.71
Total:	**$2,297.27**

Payments	Amt Paid
Total Fees	**$2,297.27**
Credit Card	$1,486.32
Credit Card	$810.95
Amount Due:	**$0.00**

Available Inspections:

Inspection Type	IVR
Demolition Final	922

January 19, 2023

Issued By: Kristi Brandt — Date

Permit Holder — Date

City of Oregon City
PO Box 3040
695 Warner Parrott Road
Oregon City, Oregon 97045-0304
503-722-3789

Permit

Permit NO.: **BDEMO-22-00020** *Permit IVR Number:* **116513**
Permit Type: **Demolition**
Work Classification: **Non-Residential**
Permit Status: **Issued**

Issue Date: 01/19/2023

Expiration: 07/18/2023

Location Address

419 MAIN ST, OREGON CITY, OR 97045

Parcel Number

2-2E-31BD-00300

Contacts

Ryan Webb **Applicant**
ryan.webb@grandronde.org

Elder Demolition **Contractor**
6400 SE 101st AVE 201, Portland, OR 97266
(503)760-6330 JasonSamek@ElderDemolition.com

Jacob Faust **Architect**
6 Centerpointe DR Ste 360, Lake Oswego, OR 97035
(503)320-0510 jfaust@maulfoster.com

Description: Commercial - Blue Heron - Paper Machine Complex - Demolition of concrete, steel, and wood structure on the former Blue Heron Mill site. Aprox 46,410 sqft.

Valuation: **$0.00**

Total Sq Feet: **0.00**

Inspection Requests:
Inspection Line: 503-496-1551

Fees	Amount
Building Plan Review (tax)	$1,429.77
Demolition Commercial (tax)	$2,199.64
Site Plan Review PLNG	$89.00
State Surcharge - Building (tax)	$263.96
Total:	**$3,982.37**

Payments	Amt Paid
Total Fees	**$3,982.37**
Credit Card	$3,982.37
Amount Due:	**$0.00**

Available Inspections:

Inspection Type	IVR
Demolition Final	922

Issued By: Kristi Brandt

January 19, 2023
Date

Permit Holder

Date

Attachment 2

Photographic Log

MAUL FOSTER ALONGI

Photographs

Project Name: Block 2 Demolition
Project Number: M0496.02.004
Location: Oregon City, Oregon

Photo No. 1.

Description

2/28/2023

Aboveground storage tank at northeast corner of Mill D, looking east

Photo No. 2.

Description

2/28/2023

Demolition progress; wood structure of Mill D removed, looking northwest

Photographs

Project Name: Block 2 Demolition
Project Number: M0496.02.004
Location: Oregon City, Oregon

Photo No. 3.

Description

3/15/2023

Removing overhead steel structure over Third Street Complex, looking west

Photo No. 4.

Description

3/21/2023

Demolition progress; Butler Building removed, looking west

Photographs

Project Name: Block 2 Demolition
Project Number: M0496.02.004
Location: Oregon City, Oregon

Photo No. 5.

Description

3/29/2023

Demolition progress, Mill D complex substantially removed, looking south

Photo No. 6.

Description

3/29/2023

3rd Street Complex overhead structure fully removed; North face of Mill O with steel attachments remaining, looking southwest

Photographs

Project Name: Block 2 Demolition
Project Number: M0496.02.004
Location: Oregon City, Oregon

Photo No. 7.

Description

4/4/2023

Removing cladding and superstructure from Paper Machine Complex, looking southwest

Photo No. 8.

Description

4/27/2023

Paper Machine Complex superstructure removed, looking southwest

Photographs

Project Name: Block 2 Demolition
Project Number: M0496.02.004
Location: Oregon City, Oregon

Photo No. 9.

Description

4/27/2023

Stained concrete in Paper Machine Complex footprint, looking southeast

Photo No. 10.

Description

4/27/2023

Dye on vertical wall and slab in southeast quadrant of Paper Machine Complex, looking southeast

Photographs

Project Name: Block 2 Demolition
Project Number: M0496.02.004
Location: Oregon City, Oregon

Photo No. 11.

Description

4/27/2023

Demolition progress east of Flour Mill boundaries; aboveground fiberglass storage tanks on second level, looking northeast

Photo No. 12.

Description

4/27/2023

Remnant of brick wall from former store secured for preservation, looking northwest

Photographs

Project Name: Block 2 Demolition
Project Number: M0496.02.004
Location: Oregon City, Oregon

Photo No. 13.

Description

4/27/2023

Discolored water in stormwater lagoon; water was pumped to storage tanks and disposed offsite, looking southeast

Photo No. 14.

Description

4/28/2023

Concrete basin on second level where dye release primarily originated from; mixed media in basins sampled for disposal, looking south

Photographs

Project Name: Block 2 Demolition
Project Number: M0496.02.004
Location: Oregon City, Oregon

Photo No. 15.

Description

5/3/2023

Five 21,000 gallon temporary storage tanks mobilized to site; stormwater from lagoon pumped to tanks and disposed offsite, looking west

Photo No. 16.

Description

6/14/2023

Site after stained concrete removal, looking southwest

Photographs

Project Name: Block 2 Demolition
Project Number: M0496.02.004
Location: Oregon City, Oregon

Photo No. 17.

Description

6/22/2023

Site after concrete removal, demolition progress on remaining second level, looking south

Photo No. 18.

Description

6/28/2023

Reducing final concrete debris size and final grading of site, looking north

Attachment 3

Asbestos Closeout Documentation

MAUL FOSTER ALONGI

OREGON WASHINGTON
777 S.W. ARMCO AVENUE HILLSBORO, OREGON 97123
(503) 693-6388 FAX (503) 693-7221
ASBESTOS LEAD MOLD ENVIRONMENTAL SERVICES
CCB#155646
WA# IRSENI*972N5
MWEB # 10447

John Sullivan
Elder Demolition
6400 101st Ave #201
Portland, OR 97266

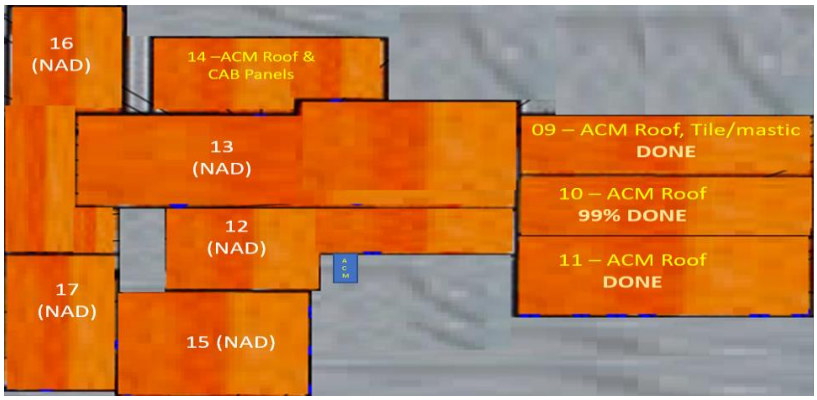
Date: February 21, 2023

Re: **Blue Heron Mill Phase 2 – 300 Main St, Oregon City**

Dear Mr. Sullivan

IRS Environmental completed removal and proper disposal of asbestos containing materials for demolition based on IRS bid proposal from the above referenced address in the following buildings:

Building Name or #	Date	ACM removed	Supervisors	Cert #
Building 9, 10 & 11	2023.01.23 – 01.27	Built up roofing & Floor tile/mastic	Isaias Cacatzum	S16222
Building 12 & 14	2023.02.07-02.14	Built up roofing/CAB Panels	Diego Sanchez	S16397



Enclosed please find the following closeout documents regarding the work at the above referenced location:

- ASN4 Manifests
- ASN1 DEQ notifications for Friable abatement (Tile/mastic)
- ASN6 DEQ notifications for Non-Friable abatement (CAB panels)

Should you have any questions or require any additional information, please feel free to call our office at 503-693-6388.

Regards,

Nancy Nguyen

Nancy Nguyen
CEO, IRS Environmental of Portland, Inc

ASN 4

JAN 31 REC'D

BUR Exempt

JOB # 22122

ASBESTOS WASTE SHIPMENT REPORT FORM

DEQ

PLEASE PRINT OR TYPE. If you have questions, contact your local DEQ Regional Office in Portland 503-229-5364, Salem 503-378-5086, Medford 541-776-6107, Coos Bay 541-269-2721 ext. 222, Bend 541-633-2019, or Pendleton 541-278-4626.

WASTE GENERATOR: (Contractor, Facility, or Operator)

1. Asbestos removal site name and address: Blue Heron Mill - Phase2
   300 Main St (Street) | Oregon City (City/State) | Clackamas (County) | 97045 (Zip)
   Contact person: Jason Samek Phone: 503-515-8314
2. Contractor/Operator's name and address: IRS Environmental of Portland, Inc. Phone: 503-693-6388
   777 SW Armco Ave (Street) | Hillsboro / OR (City/State) | Washington (County) | 97123 (Zip)
3. Waste disposal site: Hillsboro Landfill - Waste Management Phone: (503) 640-9427
   3205 SE Minter Bridge Rd (Street) | Hillsboro, OR (City/State) | Washington Co (County) | 97123 (Zip)
4. Describe asbestos materials: Built up Roofing
5. Containers: Number: 30 yd Type: ~~BA - 6 MIL~~ Loose GH
6. Total quantity (cubic yards): 30yd Dumpster
7. **OPERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labeled, and are in all respects in proper condition for transport according to all government regulations. All movement of this asbestos-containing material is recorded on this Waste Shipment Record Form.

   Agent: Travis Cavaliere Company: IRS Environmental of Portland, Inc
   Address: 777 SW ARMCO AVE, HILLSBORO, OR 97123 Phone: 503-693-6388

TRANSPORTER(S):

8. Transporter #1: (Acknowledgement of receipt of materials)
   Agent: Gary Harvey Company: IRS Environmental of Portland
   Address: 777 SW Armco Ave, Hillsboro, OR 97123 Phone: 503 693 6388
   Signature: Gary Harvey Date: 1-24-23
9. Transporter #2: (Acknowledgment of receipt of materials)
   Agent: Company:
   Address: Phone:
   Signature: Date:

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in item 11 below.)

10. Waste Disposal Site: Hillsboro Landfill - Waste Management
    Name and Title: HLI - Operator Date: JAN 24 2023
    Signature: Phone: (503) 640-9427 ~~(503) 640-9427~~
11. **DISCREPANCY SPACE:** (Add attachments as needed)

(Revised 4/14)

ASN 4

FRIABLE

JOB # 22122

ASBESTOS WASTE SHIPMENT REPORT FORM

PLEASE PRINT OR TYPE. If you have questions, contact your local DEQ Regional Office in Portland 503-229-5364, Salem 503-378-5086, Medford 541-776-6107, Coos Bay 541-269-2721 ext. 222, Bend 541-633-2019, or Pendleton 541-278-4626.

WASTE GENERATOR: (Contractor, Facility, or Operator)

1. Asbestos removal site name and address: Blue Heron Mill - Phase2

300 Main St	Oregon City	Clackamas	97045
Street	City/State	County	Zip

Contact person: Jason Samek Phone: 503-515-8314

2. Contractor/Operator's name and address: IRS Environmental of Portland, Inc. Phone: 503-693-6388

777 SW Armco Ave	Hillsboro / OR	Washington	97123
Street	City/State	County	Zip

3. Waste disposal site: Hillsboro Landfill - Waste Management Phone: (503) 640-9427

3205 SE Minter Bridge Rd	Hillsboro, OR	Washington Co	97123
Street	City/State	County	Zip

4. Describe asbestos materials: Built up Roofing

5. Containers: Number: 30 yd Type: ~~BA - 6 MIL~~ loose

6. Total quantity (cubic yards): 30 yd dumpster

7. **OPERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labeled, and are in all respects in proper condition for transport according to all government regulations. All movement of this asbestos-containing material is recorded on this Waste Shipment Record Form.

Agent: Travis Cacatzum Company: IRS Environmental of Portland, Inc

Address: 777 SW ARMCO AVE, HILLSBORO, OR 97123 Phone: 503-693-6388

TRANSPORTER(S):

8. Transporter #1: (Acknowledgment of receipt of materials)

Agent: Luis Marquez Company: IRS Environmental of Portland

Address: 777 SW Armco Ave, Hillsboro, OR 97123 Phone: 503 693 6388

Signature: Luis Marquez Date: 1-24-23

9. Transporter #2: (Acknowledgment of receipt of materials)

Agent: Luis Marquez Company: River City Environmental

Address: Luis Marquez Phone: 503-252 6144

Signature: _____ Date: 1-25-23

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in item 11 below.)

10. Waste Disposal Site: Hillsboro Landfill - Waste Management JAN 25 2023

Name and Title: HLI - Operator Date: _____

Signature: _____ Phone: (503) 640-9427 (503) 640-9427

11. **DISCREPANCY SPACE:** (Add attachments as needed) _____

(Revised 4/14)

FRIABLE

JOB # 22122

ASN 4 ASBESTOS WASTE SHIPMENT REPORT FORM

PLEASE PRINT OR TYPE. If you have questions, contact your local DEQ Regional Office in Portland 503-229-5364, Salem 503-378-5086, Medford 541-776-6107, Coos Bay 541-269-2721 ext. 222, Bend 541-633-2019, or Pendleton 541-278-4626.

WASTE GENERATOR: (Contractor, Facility, or Operator)

1. Asbestos removal site name and address: Blue Heron Mill - Phase2
   300 Main St (Street) | Oregon City (City/State) | Clackamas (County) | 97045 (Zip)
   Contact person: Jason Samek Phone: 503-515-8314
2. Contractor/Operator's name and address: IRS Environmental of Portland, Inc. Phone: 503-693-6388
   777 SW Armco Ave (Street) | Hillsboro / OR (City/State) | Washington (County) | 97123 (Zip)
3. Waste disposal site: Hillsboro Landfill - Waste Management Phone: (503) 640-9427
   3205 SE Minter Bridge Rd (Street) | Hillsboro, OR (City/State) | Washington Co (County) | 97123 (Zip)
4. Describe asbestos materials: Built up Roofing
5. Containers: Number: 30 yd Type: ~~BA-6 MIL~~ loose
6. Total quantity (cubic yards): 30 yd dumpster
7. **OPERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labeled, and are in all respects in proper condition for transport according to all government regulations. All movement of this asbestos-containing material is recorded on this Waste Shipment Record Form.

   Agent: Isaias Catalan Company: IRS Environmental of Portland, Inc
   Address: 777 SW ARMCO AVE, HILLSBORO, OR 97123 Phone: 503-693-6388

TRANSPORTER(S):

8. Transporter #1: (Acknowledgment of receipt of materials)
   Agent: Luis Marquez Company: IRS Environmental of Portland
   Address: 777 SW Armco Ave, Hillsboro, OR 97123 Phone: 503 693 6388
   Signature: Luis Marquez Date: 1-25-25
9. Transporter #2: (Acknowledgment of receipt of materials)
   Agent: Luis Marquez Company: River City Environmental
   Address: 5440 NE 109th Ave Portland OR 97220 Phone: 503 252 6144
   Signature: Luis Marquez Date: 1-26-25

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in item 11 below.)

10. Waste Disposal Site: Hillsboro Landfill - Waste Management
    Name and Title: HLI - Operator Date: JAN 26 2023
    Signature: Phone: (503) 640-9427
    (503) 640-9427
11. **DISCREPANCY SPACE:** (Add attachments as needed)

(Revised 4/14)

ASN 4

JAN 31 REC'D

BUR Exempt

JOB # 22122

ASBESTOS WASTE SHIPMENT REPORT FORM

DEQ

PLEASE PRINT OR TYPE. If you have questions, contact your local DEQ Regional Office in Portland 503-229-5364, Salem 503-378-5086, Medford 541-776-6107, Coos Bay 541-269-2721 ext. 222, Bend 541-633-2019, or Pendleton 541-278-4626.

WASTE GENERATOR: (Contractor, Facility, or Operator)

1. Asbestos removal site name and address: Blue Heron Mill - Phase2
   300 Main St (Street) | Oregon City (City/State) | Clackamas (County) | 97045 (Zip)
   Contact person: Jason Samek Phone: 503-515-8314
2. Contractor/Operator's name and address: IRS Environmental of Portland, Inc. Phone: 503-693-6388
   777 SW Armco Ave (Street) | Hillsboro / OR (City/State) | Washington (County) | 97123 (Zip)
3. Waste disposal site: Hillsboro Landfill - Waste Management Phone: (503) 640-9427
   3205 SE Minter Bridge Rd (Street) | Hillsboro, OR (City/State) | Washington Co (County) | 97123 (Zip)
4. Describe asbestos materials: Built up Roofing
5. Containers: Number: 30 yd Type: ~~BA - 6 Mil~~ Loose GH
6. Total quantity (cubic yards): 30 yd Dumpster
7. **OPERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labeled, and are in all respects in proper condition for transport according to all government regulations. All movement of this asbestos-containing material is recorded on this Waste Shipment Record Form.

   Agent: Travis Cavaliere Company: IRS Environmental of Portland, Inc
   Address: 777 SW ARMCO AVE, HILLSBORO, OR 97123 Phone: 503-693-6388

TRANSPORTER(S):

8. Transporter #1: (Acknowledgment of receipt of materials)
   Agent: GARY HARVEY Company: IRS Environmental of Portland
   Address: 777 SW Armco Ave, Hillsboro, OR 97123 Phone: 503 693 6388
   Signature: Gary Harvey Date: 1-24-23
9. Transporter #2: (Acknowledgment of receipt of materials)
   Agent: Company:
   Address: Phone:
   Signature: Date:

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in item 11 below.)

10. Waste Disposal Site: Hillsboro Landfill - Waste Management
    Name and Title: HLI - Operator Date: JAN 24 2023
    Signature: KATHY HAMILTON Phone: (503) 640-9427 ~~(503) 640-9427~~
11. **DISCREPANCY SPACE:** (Add attachments as needed)

(Revised 4/14)

ASN 4

FRIABLE

JOB # 22122

ASBESTOS WASTE SHIPMENT REPORT FORM

PLEASE PRINT OR TYPE. If you have questions, contact your local DEQ Regional Office in Portland 503-229-5364, Salem 503-378-5086, Medford 541-776-6107, Coos Bay 541-269-2721 ext. 222, Bend 541-633-2019, or Pendleton 541-278-4626.

WASTE GENERATOR: (Contractor, Facility, or Operator)

1. Asbestos removal site name and address: Blue Heron Mill - Phase2

300 Main St	Oregon City	Clackamas	97045
Street	City/State	County	Zip

Contact person: Jason Samek Phone: 503-515-8314

2. Contractor/Operator's name and address: IRS Environmental of Portland, Inc. Phone: 503-693-6388

777 SW Armco Ave	Hillsboro / OR	Washington	97123
Street	City/State	County	Zip

3. Waste disposal site: Hillsboro Landfill - Waste Management Phone: (503) 640-9427

3205 SE Minter Bridge Rd	Hillsboro, OR	Washington Co	97123
Street	City/State	County	Zip

4. Describe asbestos materials: Built up Roofing

5. Containers: Number: 30yd Type: ~~BA - 6 MIL~~ loose

6. Total quantity (cubic yards): 30 yd Dumpster

7. **OPERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labeled, and are in all respects in proper condition for transport according to all government regulations. All movement of this asbestos-containing material is recorded on this Waste Shipment Record Form.

Agent: Isaias Catalan Company: IRS Environmental of Portland, Inc

Address: 777 SW ARMCO AVE, HILLSBORO, OR 97123 Phone: 503-693-6388

TRANSPORTER(S):

8. Transporter #1: (Acknowledgment of receipt of materials)

Agent: Lalo Marquez Company: IRS Environmental of Portland

Address: 777 SW Armco Ave, Hillsboro, OR 97123 Phone: 503 693 6388

Signature: Lalo Marquez Date: 1-25-25

9. Transporter #2: (Acknowledgment of receipt of materials)

Agent: Lalo Marquez Company: River City Environmental

Address: 5210 NE 109th Ave Portland OR 97220 Phone: 503 252 6144

Signature: Lalo Marquez Date: 1-26-25

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in item 11 below.)

10. Waste Disposal Site: Hillsboro Landfill - Waste Management

Name and Title: HLI - Operator Date: JAN 26 2023

Signature: Phone: (503) 640-9427

(503) 640-9427

11. **DISCREPANCY SPACE:** (Add attachments as needed)

(Revised 4/14)

ASN 4

BUR Exempt JOB # 22122

ASBESTOS WASTE SHIPMENT REPORT FORM

PLEASE PRINT OR TYPE. If you have questions, contact your local DEQ Regional Office in Portland 503-229-5364, Salem 503-378-5086, Medford 541-776-6107, Coos Bay 541-269-2721 ext. 222, Bend 541-633-2019, or Pendleton 541-278-4626.

WASTE GENERATOR: (Contractor, Facility, or Operator)

1. Asbestos removal site name and address: Blue Heron Mill - Phase2
   300 Main St (Street) | Oregon City (City/State) | Clackamas (County) | 97045 (Zip)
   Contact person: Jason Samek Phone: 503-515-8314
2. Contractor/Operator's name and address: IRS Environmental of Portland, Inc. Phone: 503-693-6388
   777 SW Armco Ave (Street) | Hillsboro / OR (City/State) | Washington (County) | 97123 (Zip)
3. Waste disposal site: Wasco County Landfill Phone: (541) 296-4082
   2550 Steele Rd (Street) | The Dalles/OR (City/State) | Wasco County (County) | 97058 (Zip)
4. Describe asbestos materials: Built up Roofing
5. Containers: Number: 30 yd Type: ~~BA 6 MIL~~ loose
6. Total quantity (cubic yards): 30 yd dumpster
7. **OPERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labeled, and are in all respects in proper condition for transport according to all government regulations. All movement of this asbestos-containing material is recorded on this Waste Shipment Record Form.

   Agent: Isaias Calatayud Company: IRS Environmental of Portland, Inc
   Address: 777 SW ARMCO AVE, HILLSBORO, OR 97123 Phone: 503-693-6388

TRANSPORTER(S):

8. Transporter #1: (Acknowledgment of receipt of materials)
   Agent: Lauro Marquez Company: River City Environmental
   Address: 5410 NE 109th Ave Portland Oregon 97220 Phone: 503 252 6144
   Signature: Lauro Marquez Date: 1-27-23
9. Transporter #2: (Acknowledgment of receipt of materials)
   Agent: _____ Company: _____
   Address: _____ Phone: _____
   Signature: _____ Date: _____

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in item 11 below.)

10. Waste Disposal Site: Wasco County Landfill
    Name and Title: _____ Date: 1-27-2023
    Signature: _____ Phone: (541) 296-4082
11. **DISCREPANCY SPACE:** (Add attachments as needed) _____

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ASN 4

BUR Exempt JOB # 22122

ASBESTOS WASTE SHIPMENT REPORT FORM

PLEASE PRINT OR TYPE. If you have questions, contact your local DEQ Regional Office in Portland 503-229-5364, Salem 503-378-5086, Medford 541-776-6107, Coos Bay 541-269-2721 ext. 222, Bend 541-633-2019, or Pendleton 541-278-4626.

WASTE GENERATOR: (Contractor, Facility, or Operator)

1. Asbestos removal site name and address: Blue Heron Mill - Phase2
   300 Main St (Street) | Oregon City (City/State) | Clackamas (County) | 97045 (Zip)
   Contact person: Jason Samek Phone: 503-515-8314
2. Contractor/Operator's name and address: IRS Environmental of Portland, Inc. Phone: 503-693-6388
   777 SW Armco Ave (Street) | Hillsboro / OR (City/State) | Washington (County) | 97123 (Zip)
3. Waste disposal site: Wasco County Landfill Phone: (541) 296-4082
   2550 Steele Rd (Street) | The Dalles/OR (City/State) | Wasco County (County) | 97058 (Zip)
4. Describe asbestos materials: Built up Roofing
5. Containers: Number: 30 yd Type: ~~BA-6 MIL~~ loose
6. Total quantity (cubic yards): 30 yd Dumpster
7. **OPERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labeled, and are in all respects in proper condition for transport according to all government regulations. All movement of this asbestos-containing material is recorded on this Waste Shipment Record Form.

   Agent: Isaias Cacatzun Company: IRS Environmental of Portland, Inc
   Address: 777 SW ARMCO AVE, HILLSBORO, OR 97123 Phone: 503-693-6388

TRANSPORTER(S):

8. Transporter #1: (Acknowledgment of receipt of materials)
   Agent: Lauro Marquez Company: River City Environmental
   Address: 5410 NE 109th Ave Portland Oregon Phone: 503 252 6144
   Signature: Lauro Marquez Date: 2-1-23
9. Transporter #2: (Acknowledgment of receipt of materials)
   Agent: Company:
   Address: Phone:
   Signature: Date:

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in item 11 below.)

10. Waste Disposal Site: Wasco County Landfill
    Name and Title: WASCO COUNTY LANDFILL Linda Miller Date: 02/01/23
    Signature: Phone: (541) 296-4082
11. **DISCREPANCY SPACE:** (Add attachments as needed)

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ASN 4

non-friable JOB # 22122

ASBESTOS WASTE SHIPMENT REPORT FORM

PLEASE PRINT OR TYPE. If you have questions, contact your local DEQ Regional Office in Portland 503-229-5364, Salem 503-378-5086, Medford 541-776-6107, Coos Bay 541-269-2721 ext. 222, Bend 541-633-2019, or Pendleton 541-278-4626.

WASTE GENERATOR: (Contractor, Facility, or Operator)

1. Asbestos removal site name and address: Blue Heron Mill - Phase2
   300 Main St (Street) | Oregon City (City/State) | Clackamas (County) | 97045 (Zip)
   Contact person: Jason Samek Phone: 503-515-8314
2. Contractor/Operator's name and address: IRS Environmental of Portland, Inc. Phone: 503-693-6388
   777 SW Armco Ave (Street) | Hillsboro / OR (City/State) | Washington (County) | 97123 (Zip)
3. Waste disposal site: Wasco County Landfill Phone: (541) 296-4082
   2550 Steele Rd (Street) | The Dalles/OR (City/State) | Wasco County (County) | 97058 (Zip)
4. Describe asbestos materials: CAB Panel
5. Containers: Number: 20 wraps Type: BA - 6 MIL
6. Total quantity (cubic yards): 30 yards
7. **OPERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labeled, and are in all respects in proper condition for transport according to all government regulations. All movement of this asbestos-containing material is recorded on this Waste Shipment Record Form.
   Agent: [signature] Company: IRS Environmental of Portland, Inc
   Address: 777 SW ARMCO AVE, HILLSBORO, OR 97123 Phone: 503-693-6388

TRANSPORTER(S):

8. Transporter #1: (Acknowledgment of receipt of materials)
   Agent: Lauro Marquez Company: River City Environmental
   Address: 5410 NE 109th Ave Portland Oregon 97220 Phone: 503 252 6144
   Signature: Lauro Marquez Date: 2-10-23
9. Transporter #2: (Acknowledgment of receipt of materials)
   Agent: _____ Company: _____
   Address: _____ Phone: _____
   Signature: _____ Date: _____

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in item 11 below.)

10. Waste Disposal Site: Wasco County Landfill
    Name and Title: [signature] Date: 2-10-2023
    Signature: [signature] Phone: (541) 296-4082
11. **DISCREPANCY SPACE:** (Add attachments as needed) _____

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ASN 4

FRIABLE JOB # 22122

ASBESTOS WASTE SHIPMENT REPORT FORM

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WASTE GENERATOR: (Contractor, Facility, or Operator)

1. Asbestos removal site name and address: Blue Heron Mill - Phase2
   300 Main St (Street) | Oregon City (City/State) | Clackamas (County) | 97045 (Zip)
   Contact person: Jason Samek Phone: 503-515-8314
2. Contractor/Operator's name and address: IRS Environmental of Portland, Inc. Phone: 503-693-6388
   777 SW Armco Ave (Street) | Hillsboro / OR (City/State) | Washington (County) | 97123 (Zip)
3. Waste disposal site: Hillsboro Landfill - Waste Management Phone: (503) 640-9427
   3205 SE Minter Bridge Rd (Street) | Hillsboro, OR (City/State) | Washington Co (County) | 97123 (Zip)
4. Describe asbestos materials: tile mastic
5. Containers: Number: 38 bags Type: BA - 6 MIL
6. Total quantity (cubic yards): 1½
7. **OPERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labeled, and are in all respects in proper condition for transport according to all government regulations. All movement of this asbestos-containing material is recorded on this Waste Shipment Record Form.
   Agent: Diego Sanchez Company: IRS Environmental of Portland, Inc
   Address: 777 SW ARMCO AVE, HILLSBORO, OR 97123 Phone: 503-693-6388

TRANSPORTER(S):

8. Transporter #1: (Acknowledgment of receipt of materials)
   Agent: Whitney Smith Company: IRS Environmental of Portland
   Address: 777 SW Armco Ave, Hillsboro, OR 97123 Phone: 503-693-6388
   Signature: [signature] Date: FEB 13 2023
9. Transporter #2: (Acknowledgment of receipt of materials)
   Agent: Justin Cranmer Company: Hillsboro Garbage
   Address: 4945 SW Minter Bridge Rd, Hillsboro, OR 97123 Phone: (503) 648-4219
   Signature: [signature] Date: FEB 13 2023

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in item 11 below.) FEB 13 2023

10. Waste Disposal Site: Hillsboro Landfill - Waste Management
    Name and Title: HLI - Operator Date: (503) 640-9427
    Signature: [signature] Phone: (503) 640-9427
11. **DISCREPANCY SPACE:** (Add attachments as needed)

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non-friable JOB # 22122

ASN 4 ASBESTOS WASTE SHIPMENT REPORT FORM

PLEASE PRINT OR TYPE. If you have questions, contact your local DEQ Regional Office in Portland 503-229-5364, Salem 503-378-5086, Medford 541-776-6107, Coos Bay 541-269-2721 ext. 222, Bend 541-633-2019, or Pendleton 541-278-4626.

WASTE GENERATOR: (Contractor, Facility, or Operator)

1. Asbestos removal site name and address: Blue Heron Mill - Phase2
   300 Main St (Street) | Oregon City (City/State) | Clackamas (County) | 97045 (Zip)
   Contact person: Jason Samek Phone: 503-515-8314
2. Contractor/Operator's name and address: IRS Environmental of Portland, Inc. Phone: 503-693-6388
   777 SW Armco Ave (Street) | Hillsboro / OR (City/State) | Washington (County) | 97123 (Zip)
3. Waste disposal site: Wasco County Landfill Phone: (541) 296-4082
   2550 Steele Rd (Street) | The Dalles/OR (City/State) | Wasco County (County) | 97058 (Zip)
4. Describe asbestos materials: CAb Panels
5. Containers: Number: 16 wraps. Type: BA - 6 MIL
6. Total quantity (cubic yards): 30 Yards
7. **OPERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labeled, and are in all respects in proper condition for transport according to all government regulations. All movement of this asbestos-containing material is recorded on this Waste Shipment Record Form.
   Agent: Diego Sanchez Company: IRS Environmental of Portland, Inc
   Address: 777 SW ARMCO AVE, HILLSBORO, OR 97123 Phone: 503-693-6388

TRANSPORTER(S):

8. Transporter #1: (Acknowledgment of receipt of materials)
   Agent: Laura Marquez Company: River City Environmental
   Address: 5410 NE 109th Ave Portland Oregon 97220 Phone: 503 252 6144
   Signature: Laura Marquez Date: 2-15-23
9. Transporter #2: (Acknowledgment of receipt of materials)
   Agent: _____ Company: _____
   Address: _____ Phone: _____
   Signature: _____ Date: _____

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in item 11 below.)

10. Waste Disposal Site: Wasco County Landfill
    Name and Title: WASCO COUNTY LANDFILL Date: 02/15/23
    Signature: Linda Miller Phone: (541) 296-4082
11. **DISCREPANCY SPACE:** (Add attachments as needed) _____

(Revised 4/14)

ASN 4

BUR Exempt JOB # 22122

ASBESTOS WASTE SHIPMENT REPORT FORM

PLEASE PRINT OR TYPE. If you have questions, contact your local DEQ Regional Office in Portland 503-229-5364, Salem 503-378-5086, Medford 541-776-6107, Coos Bay 541-269-2721 ext. 222, Bend 541-633-2019, or Pendleton 541-278-4626.

WASTE GENERATOR: (Contractor, Facility, or Operator)

1. Asbestos removal site name and address: Blue Heron Mill - Phase2
   300 Main St (Street) | Oregon City (City/State) | Clackamas (County) | 97045 (Zip)
   Contact person: Jason Samek Phone: 503-515-8314
2. Contractor/Operator's name and address: IRS Environmental of Portland, Inc. Phone: 503-693-6388
   777 SW Armco Ave (Street) | Hillsboro / OR (City/State) | Washington (County) | 97123 (Zip)
3. Waste disposal site: Wasco County Landfill Phone: (541) 296-4082
   2550 Steele Rd (Street) | The Dalles/OR (City/State) | Wasco County (County) | 97058 (Zip)
4. Describe asbestos materials: BUR Roofing
5. Containers: Number: 1 Loose Type: BA - 6 MIL
6. Total quantity (cubic yards): 30 Yard
7. **OPERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labeled, and are in all respects in proper condition for transport according to all government regulations. All movement of this asbestos-containing material is recorded on this Waste Shipment Record Form.

   Agent: Diego Sanchez Company: IRS Environmental of Portland, Inc.
   Address: 777 SW ARMCO AVE, HILLSBORO, OR 97123 Phone: 503-693-6388

TRANSPORTER(S):

8. Transporter #1: (Acknowledgment of receipt of materials)
   Agent: Lauro Marquez Company: River City Environmental
   Address: 5410 NE 109th Ave Portland Oregon 97220 Phone: 503 252 6144
   Signature: Lauro Marquez Date: 2-16-23
9. Transporter #2: (Acknowledgment of receipt of materials)
   Agent: _____ Company: _____
   Address: _____ Phone: _____
   Signature: _____ Date: _____

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in item 11 below.)

10. Waste Disposal Site: Wasco County Landfill
    Name and Title: Carol Ardley Vice Date: 02/16/23
    Signature: C.A.V. Phone: (541) 296-4082
11. **DISCREPANCY SPACE:** (Add attachments as needed) _____

(Revised 4/14)

ASN 4

Non-FRIABLE JOB # 22122
ASBESTOS WASTE SHIPMENT REPORT FORM

DEQ

PLEASE PRINT OR TYPE. If you have questions, contact your local DEQ Regional Office in Portland 503-229-5364, Salem 503-378-5086, Medford 541-776-6107, Coos Bay 541-269-2721 ext. 222, Bend 541-633-2019, or Pendleton 541-278-4626.

WASTE GENERATOR: (Contractor, Facility, or Operator)

1. Asbestos removal site name and address: Blue Heron Mill - Phase2
   300 Main St (Street) | Oregon City (City/State) | Clackamas (County) | 97045 (Zip)
   Contact person: Jason Samek Phone: 503-515-8314
2. Contractor/Operator's name and address: IRS Environmental of Portland, Inc. Phone: 503-693-6388
   777 SW Armco Ave (Street) | Hillsboro / OR (City/State) | Washington (County) | 97123 (Zip)
3. Waste disposal site: Hillsboro Landfill - Waste Management Phone: (503) 640-9427
   3205 SE Minter Bridge Rd (Street) | Hillsboro, OR (City/State) | Washington Co (County) | 97123 (Zip)
4. Describe asbestos materials: Transite siding
5. Containers: Number: 26 BAGS Type: BA - 6 MIL
6. Total quantity (cubic yards): 2½
7. **OPERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labeled, and are in all respects in proper condition for transport according to all government regulations. All movement of this asbestos-containing material is recorded on this Waste Shipment Record Form.

   Agent: Whitney Smith Company: IRS Environmental of Portland, Inc
   Address: 777 SW ARMCO AVE, HILLSBORO, OR 97123 Phone: 503-693-6388

TRANSPORTER(S):

8. Transporter #1: (Acknowledgment of receipt of materials)
   Agent: Whitney Smith Company: IRS Environmental of Portland
   Address: 777 SW Armco Ave, Hillsboro, OR 97123 Phone: 503-693-6388
   Signature: Whitney Smith Date: MAR 14 2023
9. Transporter #2: (Acknowledgment of receipt of materials)
   Agent: Scott Gunther Company: Hillsboro Garbage
   Address: 4945 SW Minter Bridge Rd, Hillsboro, OR 97123 Phone: (503) 648-4219
   Signature: Scott Gunther Date: MAR 14 2023

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in item 11 below.)

10. Waste Disposal Site: Hillsboro Landfill - Waste Management
    Name and Title: HLI - Operator Date:
    Signature: Phone: (503) 640-9427
11. **DISCREPANCY SPACE:** (Add attachments as needed)

(Revised 4/14)

ASN 4

BUR Exempt JOB # 22122

ASBESTOS WASTE SHIPMENT REPORT FORM

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MAR 06 REC'D

WASTE GENERATOR: (Contractor, Facility, or Operator)

1. Asbestos removal site name and address: Blue Heron Mill - Phase2
   300 Main St (Street) | Oregon City (City/State) | Clackamas (County) | 97045 (Zip)
   Contact person: Jason Samek Phone: 503-515-8314
2. Contractor/Operator's name and address: IRS Environmental of Portland, Inc. Phone: 503-693-6388
   777 SW Armco Ave (Street) | Hillsboro / OR (City/State) | Washington (County) | 97123 (Zip)
3. Waste disposal site: Wasco County Landfill Phone: (541) 296-4082
   2550 Steele Rd (Street) | The Dalles/OR (City/State) | Wasco County (County) | 97058 (Zip)
4. Describe asbestos materials: Roofing Black pipe sealant
5. Containers: Number: 2 totes + 136 bags Type: BA - 6 MIL
6. Total quantity (cubic yards): 14
7. **OPERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labeled, and are in all respects in proper condition for transport according to all government regulations. All movement of this asbestos-containing material is recorded on this Waste Shipment Record Form.

   Agent: Travis Cavaton Company: IRS Environmental of Portland, Inc
   Address: 777 SW ARMCO AVE, HILLSBORO, OR 97123 Phone: 503-693-6388

TRANSPORTER(S):

8. Transporter #1: (Acknowledgment of receipt of materials)
   Agent: Whitney Smith Company: IRS Environmental of Portland
   Address: 777 SW Armco Ave, Hillsboro, OR 97123 Phone: 503-693-6388
   Signature: Whitney Smith Date: MAR 1 2023
9. Transporter #2: (Acknowledgment of receipt of materials)
   Agent: Scott Reavis Company: Hillsboro Garbage
   Address: 4945 SW Minter Bridge Rd, Hillsboro, OR 97123 Phone: (503) 648-4219
   Signature: Scott Reavis Date: MAR 1 2023

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in item 11 below.)

10. Waste Disposal Site: Hillsboro Landfill - Waste Management
    Name and Title: HLI - Operator Date:
    Signature: Phone: (503) 640-9427
11. **DISCREPANCY SPACE:** (Add attachments as needed)

FEB 01 2023

(Revised 4/14)

ASN 4

Non-FRIABLE JOB # 22122
ASBESTOS WASTE SHIPMENT REPORT FORM

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WASTE GENERATOR: (Contractor, Facility, or Operator)

1. Asbestos removal site name and address: Blue Heron Mill - Phase2

300 Main St	Oregon City	Clackamas	97045
Street	City/State	County	Zip

Contact person: Jason Samek Phone: 503-515-8314

2. Contractor/Operator's name and address: IRS Environmental of Portland, Inc. Phone: 503-693-6388

777 SW Armco Ave	Hillsboro / OR	Washington	97123
Street	City/State	County	Zip

3. Waste disposal site: Hillsboro Landfill - Waste Management Phone: (503) 640-9427

3205 SE Minter Bridge Rd	Hillsboro, OR	Washington Co	97123
Street	City/State	County	Zip

4. Describe asbestos materials: transite siding

5. Containers: Number: 26 BAGS Type: BA - 6 MIL

6. Total quantity (cubic yards): 2½

7. **OPERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labeled, and are in all respects in proper condition for transport according to all government regulations. All movement of this asbestos-containing material is recorded on this Waste Shipment Record Form.

Agent: Whitney Smith Company: IRS Environmental of Portland, Inc

Address: 777 SW ARMCO AVE, HILLSBORO, OR 97123 Phone: 503-693-6388

TRANSPORTER(S):

8. Transporter #1: (Acknowledgment of receipt of materials)

Agent: Whitney Smith Company: IRS Environmental of Portland

Address: 777 SW Armco Ave, Hillsboro, OR 97123 Phone: 503-693-6388

Signature: Whitney Smith Date: MAR 14 2023

9. Transporter #2: (Acknowledgment of receipt of materials)

Agent: Scott Gunther Company: Hillsboro Garbage

Address: 4945 SW Minter Bridge Rd, Hillsboro, OR 97123 Phone: (503) 648-4219

Signature: Scott Gunther Date: MAR 14 2023

DISPOSAL: (Certification of receipt of asbestos materials covered by this manifest, except as noted in item 11 below.)

10. Waste Disposal Site: Hillsboro Landfill - Waste Management

Name and Title: HLI - Operator Date:

Signature: Phone: (503) 640-9427

11. **DISCREPANCY SPACE:** (Add attachments as needed)

(Revised 4/14)

Attachment 4

General Disposal Records

MAUL FOSTER ALONGI

10260

OREGON CITY GARBAGE CO., INC.
P.O. BOX 1840
OREGON CITY, OR 97045
503.656.8403
www.oregoncitygarbageco.com

ACCOUNT NO	BILLING ADDRESS	INVOICE NO	INVOICE DATE	DUE DATE
81315000	419 MAIN ST	4204649	04/26/2023	5/15/2023

DATE	QTY	REFERENCE	DESCRIPTION		BALANCE
			419 MAIN ST		
03/01/2023	9.27	1119467 - MATERIAL REF 5325334	WASTE DISPOSAL		$1,315.97
03/02/2023	7.03	1119666 - MATERIAL REF 5325698	WASTE DISPOSAL		$997.98
03/09/2023	8.69	1120467 - MATERIAL REF 5331346	WASTE DISPOSAL		$1,233.63
03/09/2023	8.84	1120468 - MATERIAL REF 5331343	WASTE DISPOSAL		$1,254.93
03/21/2023	7.14	1121198 - MATERIAL REF 5342547	WASTE DISPOSAL		$1,013.59
03/21/2023	14.15	1121199 - MATERIAL REF 5342549	WASTE DISPOSAL		$2,008.73
03/27/2023	10.51	1121884 - MATERIAL REF 5347604	WASTE DISPOSAL		$1,490.58
03/27/2023	11.85	1121885 - MATERIAL REF 5347551	WASTE DISPOSAL		$1,682.23
03/30/2023	6.04	1122688 - MATERIAL REF 5349920	WASTE DISPOSAL		$857.44
04/04/2023	6.38	1122689 - MATERIAL REF 5354280	WASTE DISPOSAL		$905.70
04/04/2023	5.71	1122691 - MATERIAL REF 5354299	WASTE DISPOSAL		$810.59
04/05/2023	8.5	1123273 - MATERIAL REF 5355219	WASTE DISPOSAL		$1,206.66
04/06/2023	14.39	1123274 - MATERIAL REF 5356077	WASTE DISPOSAL		$2,042.80
04/07/2023	9.08	1123276 - MATERIAL REF 5356784	WASTE DISPOSAL		$1,289.00
04/11/2023	9.31	1123403 - MATERIAL REF 5360238	WASTE DISPOSAL		$1,321.65

CONTINUED ON NEXT PAGE.

CURRENT	0-30 DAYS	31-60 DAYS	61-90 DAYS	OVER 90 DAYS	PAY THIS AMOUNT
39,817.92	0.00	0.00	0.00	0.00	**$39,817.92**

ACCOUNTS DUE BY THE 15TH OF THE MONTH UNLESS PAST DUE WHICH ARE DUE UPON RECEIPT

Terms: Oregon City Garbage Co., Inc. reserves the right to accrue finance charges on any past due balance and there is a $25.00 charge for any returned payment. Please return your invoice stub with your payment or write your account number on your check.

OREGON CITY GARBAGE CO., INC.
P.O. BOX 1840
OREGON CITY, OR 97045
503.656.8403
www.oregoncitygarbageco.com

ACCOUNT NO: 81315000
INVOICE NO: 4204649

DATE	QTY	REFERENCE	DESCRIPTION		BALANCE
CONTINUED FROM PREVIOUS PAGE.					
04/11/2023	10.8	1123404 - MATERIAL REF 5360198	WASTE DISPOSAL		$1,533.17
04/14/2023	5.86	1123832 - MATERIAL REF 5362479	WASTE DISPOSAL		$831.89
04/14/2023	6.29	1123834 - MATERIAL REF 5362428	WASTE DISPOSAL		$892.93
04/14/2023	9.64	1123837 - MATERIAL REF 5362448	WASTE DISPOSAL		$1,368.49
04/14/2023	6.61	1123838 - MATERIAL REF 5362508	WASTE DISPOSAL		$938.36
04/14/2023	5.39	1123840 - MATERIAL REF 5362551	WASTE DISPOSAL		$765.16
04/18/2023	4.7	1123918 - MATERIAL REF 199534	WASTE DISPOSAL		$667.21
04/18/2023	7.53	1123919 - MATERIAL REF 5366311	WASTE DISPOSAL		$1,068.96
04/18/2023	9.8	1123920 - MATERIAL REF 5366300	WASTE DISPOSAL		$1,391.21
04/18/2023	8.03	1123921 - MATERIAL REF 5366491	WASTE DISPOSAL		$1,139.94
04/18/2023	7.24	1123923 - MATERIAL REF 5366489	WASTE DISPOSAL		$1,027.79
04/19/2023	10.95	1124412 - MATERIAL REF 199560	WASTE DISPOSAL		$1,554.46
04/21/2023	5.3	1124599 - MATERIAL REF 5368724	WASTE DISPOSAL		$752.39
03/01/2023	1	1119467	METRO TRANS FEE		$4.25
03/02/2023	1	1119666	METRO TRANS FEE		$4.25
03/09/2023	1	1120467	METRO TRANS FEE		$4.25
03/09/2023	1	1120468	METRO TRANS FEE		$4.25
03/21/2023	1	1121198	METRO TRANS FEE		$4.25
03/21/2023	1	1121199	METRO TRANS FEE		$4.25
03/27/2023	1	1121884	METRO TRANS FEE		$4.25
03/27/2023	1	1121885	METRO TRANS FEE		$4.25
03/30/2023	1	1122688	METRO TRANS FEE		$4.25
04/04/2023	1	1122689	METRO TRANS FEE		$4.25
04/04/2023	1	1122691	METRO TRANS FEE		$4.25
04/05/2023	1	1123272	METRO TRANS FEE		$4.25
04/05/2023	1	1123273	METRO TRANS FEE		$4.25
04/06/2023	1	1123274	METRO TRANS FEE		$4.25
04/07/2023	1	1123276	METRO TRANS FEE		$4.25
04/11/2023	1	1123403	METRO TRANS FEE		$4.25
04/11/2023	1	1123404	METRO TRANS FEE		$4.25
04/14/2023	1	1123832	METRO TRANS FEE		$4.25
04/14/2023	1	1123834	METRO TRANS FEE		$4.25
04/14/2023	1	1123837	METRO TRANS FEE		$4.25
04/14/2023	1	1123838	METRO TRANS FEE		$4.25
04/14/2023	1	1123840	METRO TRANS FEE		$4.25
04/18/2023	1	1123919	METRO TRANS FEE		$4.25
04/18/2023	1	1123920	METRO TRANS FEE		$4.25
04/18/2023	1	1123921	METRO TRANS FEE		$4.25
04/18/2023	1	1123923	METRO TRANS FEE		$4.25
04/19/2023	1	1124412	METRO TRANS FEE		$4.25
04/21/2023	1	1124599	METRO TRANS FEE		$4.25
04/05/2023	8.01	1123272 - MATERIAL REF 199303	WASTE DISPOSAL		$900.48
04/18/2023	1	1123918	40 YARD ROLLOFF EMPTY RETURN		$500.00
03/01/2023	1	1119467	40 YARD ROLLOFF EMPTY RETURN		$172.00
03/02/2023	1	1119666	40 YARD ROLLOFF EMPTY RETURN		$172.00
03/09/2023	1	1120467	40 YARD ROLLOFF EMPTY RETURN		$172.00
03/09/2023	1	1120468	40 YARD ROLLOFF EMPTY RETURN		$172.00
03/21/2023	1	1121198	40 YARD ROLLOFF EMPTY RETURN		$172.00
03/21/2023	1	1121199	40 YARD ROLLOFF EMPTY RETURN		$172.00

CONTINUED ON NEXT PAGE.

OREGON CITY GARBAGE CO., INC.
P.O. BOX 1840
OREGON CITY, OR 97045
503.656.8403
www.oregoncitygarbageco.com

ACCOUNT NO	BILLING ADDRESS	INVOICE NO	INVOICE DATE	DUE DATE
81315000	419 MAIN ST	4262665	06/29/2023	7/15/2023

DATE	QTY	REFERENCE	DESCRIPTION		BALANCE
			419 MAIN ST		
06/14/2023		4.261133225 - MATERIAL REF 5425571	WASTE DISPOSAL		$604.75
06/22/2023		7.861133789 - MATERIAL REF 5433863	WASTE DISPOSAL		$1,115.81
06/14/2023	1	1133225	METRO TRANS FEE		$4.25
06/22/2023	1	1133789	METRO TRANS FEE		$4.25
06/14/2023	1	1133225	40 YARD ROLLOFF EMPTY RETURN		$172.00
06/22/2023	1	1133789	40 YARD ROLLOFF EMPTY RETURN		$172.00
06/22/2023	3	1133789	DAILY RENT		$21.00

SUMMARY

PREVIOUS BALANCE	$39,817.92
PAYMENTS/CREDITS	($39,817.92)
NEW CHARGES	$2,094.06
TOTAL BALANCE DUE	**$2,094.06**

JUNK & MISCELLANEOUS ITEM PICK-UP IS AVAILABLE!

GO TO OUR WEBSITE OR GIVE US A CALL FOR MORE INFORMATION.

CURRENT	0-30 DAYS	31-60 DAYS	61-90 DAYS	OVER 90 DAYS	PAY THIS AMOUNT
2,094.06	0.00	0.00	0.00	0.00	**$2,094.06**

ACCOUNTS DUE BY THE 15TH OF THE MONTH UNLESS PAST DUE WHICH ARE DUE UPON RECEIPT

Terms: Oregon City Garbage Co., Inc. reserves the right to accrue finance charges on any past due balance and there is a $25.00 charge for any returned payment. Please return your invoice stub with your payment or write your account number on your check.

10089

OREGON CITY GARBAGE CO., INC.

P.O. BOX 1840
OREGON CITY, OR 97045
503.656.8403
www.oregoncitygarbageco.com

ACCOUNT NO	BILLING ADDRESS	INVOICE NO	INVOICE DATE	DUE DATE
81315000	419 MAIN ST	4154704	02/28/2023	3/15/2023

DATE	QTY	REFERENCE	DESCRIPTION		BALANCE
			419 MAIN ST		
02/21/2023	9.05	1118238 - MATERIAL REF 5320943	WASTE DISPOSAL		$1,284.74
02/21/2023	8.17	1118239 - MATERIAL REF 5320997	WASTE DISPOSAL		$1,159.81
02/21/2023	7.18	1118241 - MATERIAL REF 5320754	WASTE DISPOSAL		$1,019.27
02/21/2023	8.24	1118243 - MATERIAL REF 5320748	WASTE DISPOSAL		$1,169.75
02/22/2023	10.02	1118634 - MATERIAL REF 5321819	WASTE DISPOSAL		$1,422.44
02/22/2023	9.7	1118635 - MATERIAL REF 5321536	WASTE DISPOSAL		$1,377.01
02/22/2023	7.8	1118636 - MATERIAL REF 5321529	WASTE DISPOSAL		$1,107.29
02/22/2023	10.89	1118637 - MATERIAL REF 5321848	WASTE DISPOSAL		$1,545.94
02/23/2023	7.32	1118638 - MATERIAL REF 5322127	WASTE DISPOSAL		$1,039.15
02/23/2023	9.58	1118639 - MATERIAL REF 5322128	WASTE DISPOSAL		$1,359.98
02/27/2023	6.11	1118845 - MATERIAL REF 5323852	WASTE DISPOSAL		$867.38
02/27/2023	9.51	1118846 - MATERIAL REF 5323839	WASTE DISPOSAL		$1,350.04
02/21/2023	1	1118238	METRO TRANS FEE		$4.25
02/21/2023	1	1118239	METRO TRANS FEE		$4.25
02/21/2023	1	1118241	METRO TRANS FEE		$4.25

CONTINUED ON NEXT PAGE.

C-7000 # 2112

CURRENT	0-30 DAYS	31-60 DAYS	61-90 DAYS	OVER 90 DAYS	PAY THIS AMOUNT
15,713.54	0.00	0.00	0.00	0.00	**$15,713.54**

ACCOUNTS DUE BY THE 15TH OF THE MONTH UNLESS PAST DUE WHICH ARE DUE UPON RECEIPT

Terms: Oregon City Garbage Co., Inc. reserves the right to accrue finance charges on any past due balance and there is a $25.00 charge for any returned payment. Please return your invoice stub with your payment or write your account number on your check.

OREGON CITY GARBAGE CO., INC.
P.O. BOX 1840
OREGON CITY, OR 97045
503.656.8403
www.oregoncitygarbageco.com

ACCOUNT NO: 81315000
INVOICE NO: 4154704

DATE	QTY	REFERENCE	DESCRIPTION		BALANCE
CONTINUED FROM PREVIOUS PAGE.					
02/21/2023	1	1118243	METRO TRANS FEE		$4.25
02/22/2023	1	1118634	METRO TRANS FEE		$4.25
02/22/2023	1	1118635	METRO TRANS FEE		$4.25
02/22/2023	1	1118636	METRO TRANS FEE		$4.25
02/22/2023	1	1118637	METRO TRANS FEE		$4.25
02/23/2023	1	1118638	METRO TRANS FEE		$4.25
02/23/2023	1	1118639	METRO TRANS FEE		$4.25
02/27/2023	1	1118845	METRO TRANS FEE		$4.25
02/27/2023	1	1118846	METRO TRANS FEE		$4.25
02/21/2023	1	1118238	40 YARD ROLLOFF EMPTY RETURN		$222.00
02/21/2023	1	1118239	40 YARD ROLLOFF EMPTY RETURN		$222.00
02/21/2023	1	1118241	40 YARD ROLLOFF EMPTY RETURN		$222.00
02/21/2023	1	1118243	40 YARD ROLLOFF EMPTY RETURN		$222.00
02/22/2023	1	1118634	40 YARD ROLLOFF EMPTY RETURN		$172.00
02/22/2023	1	1118635	40 YARD ROLLOFF EMPTY RETURN		$172.00
02/22/2023	1	1118636	40 YARD ROLLOFF EMPTY RETURN		$172.00
02/22/2023	1	1118637	40 YARD ROLLOFF EMPTY RETURN		$172.00
02/23/2023	1	1118638	40 YARD ROLLOFF EMPTY RETURN		$172.00
02/23/2023	1	1118639	40 YARD ROLLOFF EMPTY RETURN		$172.00
02/27/2023	1	1118845	40 YARD ROLLOFF EMPTY RETURN		$172.00
02/27/2023	1	1118846	40 YARD ROLLOFF EMPTY RETURN		$172.00

SUMMARY

PREVIOUS BALANCE	$0.00
PAYMENTS/CREDITS	($1,304.26)
NEW CHARGES	$17,017.80
TOTAL BALANCE DUE	**$15,713.54**

Attachment 5

Gully Washer and Oil-Stained Concrete Analytical Reports

MAUL FOSTER ALONGI

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

ANALYTICAL REPORT

AMENDED REPORT

Friday, August 4, 2023

Jacob Faust
Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

RE: A3F1614 - Blue Heron Paper Mill - M0496.02.003

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3F1614, which was received by the laboratory on 6/28/2023 at 4:00:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler	5.5	degC

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

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

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

ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3F1614 - 08 04 23 1136**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Concrete-0628	**A3F1614-01**	**Soil**	**06/28/23 14:20**	**06/28/23 16:00**
DS-15	**A3F1614-02**	**Soil**	**06/28/23 14:25**	**06/28/23 16:00**
DS-16	**A3F1614-03**	**Soil**	**06/28/23 14:30**	**06/28/23 16:00**
DS-17	**A3F1614-04**	**Soil**	**06/28/23 14:35**	**06/28/23 16:00**
DS-18	**A3F1614-05**	**Soil**	**06/28/23 14:40**	**06/28/23 16:00**

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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

ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3F1614 - 08 04 23 1136**

ANALYTICAL SAMPLE RESULTS

Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Concrete-0628 (A3F1614-01)				**Matrix: Soil**		**Batch: 23F1079**		
Gasoline Range Organics	ND	---	20.6	mg/kg dry	1	06/29/23 22:21	NWTPH-HCID	
Diesel Range Organics	**DET**	---	51.4	mg/kg dry	1	06/29/23 22:21	NWTPH-HCID	A-01
Oil Range Organics	**DET**	---	103	mg/kg dry	1	06/29/23 22:21	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)			*Recovery: 95 %*	*Limits: 50-150 %*	*1*	*06/29/23 22:21*	*NWTPH-HCID*	
4-Bromofluorobenzene (Surr)			*77 %*	*50-150 %*	*1*	*06/29/23 22:21*	*NWTPH-HCID*	

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

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

ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3F1614 - 08 04 23 1136**

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Concrete-0628 (A3F1614-01)				**Matrix: Soil**		**Batch: 23G0138**		
Diesel	ND	---	804	mg/kg dry	40	07/07/23 01:20	NWTPH-Dx	
Oil	**35900**	---	1610	mg/kg dry	40	07/07/23 01:20	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)			*Recovery: %*	*Limits: 50-150 %*	*40*	*07/07/23 01:20*	*NWTPH-Dx*	*S-01*

Apex Laboratories

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

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

ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.02.003	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3F1614 - 08 04 23 1136

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Concrete-0628 (A3F1614-01)				**Matrix: Soil**		**Batch: 23F1147**		**C-07**
Aroclor 1016	ND	---	10.2	ug/kg dry	1	07/03/23 09:46	EPA 8082A	
Aroclor 1221	ND	---	10.2	ug/kg dry	1	07/03/23 09:46	EPA 8082A	
Aroclor 1232	ND	---	10.2	ug/kg dry	1	07/03/23 09:46	EPA 8082A	
Aroclor 1242	**127**	---	10.2	ug/kg dry	1	07/03/23 09:46	EPA 8082A	**P-09**
Aroclor 1248	ND	---	10.2	ug/kg dry	1	07/03/23 09:46	EPA 8082A	
Aroclor 1254	**121**	---	10.2	ug/kg dry	1	07/03/23 09:46	EPA 8082A	**P-12**
Aroclor 1260	**53.9**	---	10.2	ug/kg dry	1	07/03/23 09:46	EPA 8082A	**P-12**
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 84 %*		*Limits: 60-125 %*	*1*	*07/03/23 09:46*	*EPA 8082A*	
DS-15 (A3F1614-02)				**Matrix: Soil**		**Batch: 23G0216**		**C-07**
Aroclor 1016	ND	---	23.3	ug/kg dry	1	07/10/23 18:41	EPA 8082A	
Aroclor 1221	ND	---	23.3	ug/kg dry	1	07/10/23 18:41	EPA 8082A	
Aroclor 1232	ND	---	23.3	ug/kg dry	1	07/10/23 18:41	EPA 8082A	
Aroclor 1242	ND	---	23.3	ug/kg dry	1	07/10/23 18:41	EPA 8082A	
Aroclor 1248	ND	---	23.3	ug/kg dry	1	07/10/23 18:41	EPA 8082A	
Aroclor 1254	ND	---	23.3	ug/kg dry	1	07/10/23 18:41	EPA 8082A	
Aroclor 1260	ND	---	23.3	ug/kg dry	1	07/10/23 18:41	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 61 %*		*Limits: 60-125 %*	*1*	*07/10/23 18:41*	*EPA 8082A*	
DS-16 (A3F1614-03)				**Matrix: Soil**		**Batch: 23G0216**		**C-07**
Aroclor 1016	ND	---	57.8	ug/kg dry	1	07/10/23 19:52	EPA 8082A	
Aroclor 1221	ND	---	57.8	ug/kg dry	1	07/10/23 19:52	EPA 8082A	
Aroclor 1232	ND	---	57.8	ug/kg dry	1	07/10/23 19:52	EPA 8082A	
Aroclor 1242	ND	---	57.8	ug/kg dry	1	07/10/23 19:52	EPA 8082A	
Aroclor 1248	ND	---	57.8	ug/kg dry	1	07/10/23 19:52	EPA 8082A	
Aroclor 1254	ND	---	57.8	ug/kg dry	1	07/10/23 19:52	EPA 8082A	
Aroclor 1260	ND	---	57.8	ug/kg dry	1	07/10/23 19:52	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 94 %*		*Limits: 60-125 %*	*1*	*07/10/23 19:52*	*EPA 8082A*	
DS-17 (A3F1614-04)				**Matrix: Soil**		**Batch: 23G0216**		**C-07**
Aroclor 1016	ND	---	13.7	ug/kg dry	1	07/10/23 18:06	EPA 8082A	
Aroclor 1221	ND	---	13.7	ug/kg dry	1	07/10/23 18:06	EPA 8082A	
Aroclor 1232	ND	---	13.7	ug/kg dry	1	07/10/23 18:06	EPA 8082A	

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Philip Nerenberg

Philip Nerenberg, Lab Director

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

ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3F1614 - 08 04 23 1136**

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DS-17 (A3F1614-04)				**Matrix: Soil**		**Batch: 23G0216**		**C-07**
Aroclor 1242	ND	---	13.7	ug/kg dry	1	07/10/23 18:06	EPA 8082A	
Aroclor 1248	ND	---	13.7	ug/kg dry	1	07/10/23 18:06	EPA 8082A	
Aroclor 1254	ND	---	13.7	ug/kg dry	1	07/10/23 18:06	EPA 8082A	
Aroclor 1260	ND	---	13.7	ug/kg dry	1	07/10/23 18:06	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 65 %*		*Limits: 60-125 %*	*1*	*07/10/23 18:06*	*EPA 8082A*	
DS-18 (A3F1614-05)				**Matrix: Soil**		**Batch: 23G0216**		**C-07**
Aroclor 1016	ND	---	11.4	ug/kg dry	1	07/10/23 18:41	EPA 8082A	
Aroclor 1221	ND	---	11.4	ug/kg dry	1	07/10/23 18:41	EPA 8082A	
Aroclor 1232	ND	---	11.4	ug/kg dry	1	07/10/23 18:41	EPA 8082A	
Aroclor 1242	ND	---	11.4	ug/kg dry	1	07/10/23 18:41	EPA 8082A	
Aroclor 1248	ND	---	11.4	ug/kg dry	1	07/10/23 18:41	EPA 8082A	
Aroclor 1254	**29.9**	---	11.4	ug/kg dry	1	07/10/23 18:41	EPA 8082A	**P-10**
Aroclor 1260	**34.1**	---	11.4	ug/kg dry	1	07/10/23 18:41	EPA 8082A	**P-10**
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 77 %*		*Limits: 60-125 %*	*1*	*07/10/23 18:41*	*EPA 8082A*	

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3F1614 - 08 04 23 1136**

ANALYTICAL SAMPLE RESULTS

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

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DS-15 (A3F1614-02)				**Matrix: Soil**		**Batch: 23G0217**		
Acenaphthene	ND	---	24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Acenaphthylene	ND	---	24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Anthracene	ND	---	24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Benz(a)anthracene	ND	---	24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Benzo(a)pyrene	ND	---	24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Benzo(b)fluoranthene	**28.6**	---	24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Benzo(k)fluoranthene	ND	---	24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Benzo(g,h,i)perylene	ND	---	24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Chrysene	**30.4**	---	24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	---	24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Fluoranthene	**48.6**	---	24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Fluorene	ND	---	24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	ND	---	24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
1-Methylnaphthalene	ND	---	24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
2-Methylnaphthalene	ND	---	24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Naphthalene	ND	---	24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Phenanthrene	**52.9**	---	24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Pyrene	**49.9**	---	24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Dibenzofuran	ND	---	24.1	ug/kg dry	1	07/10/23 18:29	EPA 8270E SIM	
Surrogate: 2-Fluorobiphenyl (Surr)		*Recovery:*	*77 %*	*Limits: 44-120 %*	*1*	*07/10/23 18:29*	*EPA 8270E SIM*	
p-Terphenyl-d14 (Surr)			*68 %*	*54-127 %*	*1*	*07/10/23 18:29*	*EPA 8270E SIM*	
DS-16 (A3F1614-03)				**Matrix: Soil**		**Batch: 23G0217**		
Acenaphthene	ND	---	56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	
Acenaphthylene	ND	---	56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	
Anthracene	**85.7**	---	56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	
Benz(a)anthracene	**177**	---	56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	
Benzo(a)pyrene	**245**	---	56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	
Benzo(b)fluoranthene	**410**	---	56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	
Benzo(k)fluoranthene	**116**	---	56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	**M-05**
Benzo(g,h,i)perylene	**296**	---	56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	
Chrysene	**370**	---	56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	---	56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	

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Philip Nerenberg

Philip Nerenberg, Lab Director

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3F1614 - 08 04 23 1136**

ANALYTICAL SAMPLE RESULTS

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

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DS-16 (A3F1614-03)				**Matrix: Soil**		**Batch: 23G0217**		
Fluoranthene	**476**	---	56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	
Fluorene	ND	---	56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	**248**	---	56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	
1-Methylnaphthalene	ND	---	56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	
2-Methylnaphthalene	ND	---	56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	
Naphthalene	**72.4**	---	56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	
Phenanthrene	**387**	---	56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	
Pyrene	**551**	---	56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	
Dibenzofuran	ND	---	56.6	ug/kg dry	1	07/10/23 18:54	EPA 8270E SIM	
Surrogate: 2-Fluorobiphenyl (Surr)		*Recovery:*	*91 %*	*Limits: 44-120 %*	*1*	*07/10/23 18:54*	*EPA 8270E SIM*	
p-Terphenyl-d14 (Surr)			*84 %*	*54-127 %*	*1*	*07/10/23 18:54*	*EPA 8270E SIM*	
DS-17 (A3F1614-04)				**Matrix: Soil**		**Batch: 23G0217**		
Acenaphthene	**29.2**	---	13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Acenaphthylene	**37.3**	---	13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Anthracene	**122**	---	13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Benz(a)anthracene	**182**	---	13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Benzo(a)pyrene	**262**	---	13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Benzo(b)fluoranthene	**374**	---	13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Benzo(k)fluoranthene	**95.7**	---	13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	**M-05**
Benzo(g,h,i)perylene	**239**	---	13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Chrysene	**352**	---	13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Dibenz(a,h)anthracene	**37.0**	---	13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Fluoranthene	**467**	---	13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Fluorene	**27.2**	---	13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	**224**	---	13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
1-Methylnaphthalene	**17.5**	---	13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
2-Methylnaphthalene	**24.9**	---	13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Naphthalene	**36.2**	---	13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Phenanthrene	**304**	---	13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Pyrene	**528**	---	13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Dibenzofuran	**17.7**	---	13.9	ug/kg dry	1	07/10/23 19:20	EPA 8270E SIM	
Surrogate: 2-Fluorobiphenyl (Surr)		*Recovery:*	*83 %*	*Limits: 44-120 %*	*1*	*07/10/23 19:20*	*EPA 8270E SIM*	

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3F1614 - 08 04 23 1136**

ANALYTICAL SAMPLE RESULTS

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

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DS-17 (A3F1614-04)				**Matrix: Soil**		**Batch: 23G0217**		
Surrogate: p-Terphenyl-d14 (Surr)		*Recovery: 76 %*		*Limits: 54-127 %*	*1*	*07/10/23 19:20*	*EPA 8270E SIM*	
DS-18 (A3F1614-05)				**Matrix: Soil**		**Batch: 23G0217**		
Acenaphthene	ND	---	111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Acenaphthylene	ND	---	111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Anthracene	ND	---	111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Benz(a)anthracene	**148**	---	111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	**M-05**
Benzo(a)pyrene	**223**	---	111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Benzo(b)fluoranthene	**511**	---	111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Benzo(k)fluoranthene	**143**	---	111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	**M-05**
Benzo(g,h,i)perylene	**243**	---	111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Chrysene	**482**	---	111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Dibenz(a,h)anthracene	ND	---	111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Fluoranthene	**459**	---	111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Fluorene	ND	---	111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Indeno(1,2,3-cd)pyrene	**231**	---	111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
1-Methylnaphthalene	ND	---	111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
2-Methylnaphthalene	ND	---	111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Naphthalene	ND	---	111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Phenanthrene	**228**	---	111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Pyrene	**439**	---	111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Dibenzofuran	ND	---	111	ug/kg dry	10	07/10/23 19:45	EPA 8270E SIM	
Surrogate: 2-Fluorobiphenyl (Surr)		*Recovery: 83 %*		*Limits: 44-120 %*	*10*	*07/10/23 19:45*	*EPA 8270E SIM*	
p-Terphenyl-d14 (Surr)			*79 %*	*54-127 %*	*10*	*07/10/23 19:45*	*EPA 8270E SIM*	

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ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.02.003	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3F1614 - 08 04 23 1136

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Concrete-0628 (A3F1614-01RE1)				**Matrix: Soil**		**Batch: 23G0058**		
Acenaphthene	ND	676	1360	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Acenaphthylene	ND	676	1360	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Anthracene	ND	676	1360	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Benz(a)anthracene	ND	676	1360	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Benzo(a)pyrene	ND	1020	2030	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Benzo(b)fluoranthene	ND	1020	2030	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Benzo(k)fluoranthene	ND	1020	2030	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Benzo(g,h,i)perylene	ND	676	1360	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Chrysene	ND	2340	2340	ug/kg dry	500	07/06/23 14:46	EPA 8270E	R-02
Dibenz(a,h)anthracene	ND	676	1360	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Fluoranthene	**939**	676	1360	ug/kg dry	500	07/06/23 14:46	EPA 8270E	**J**
Fluorene	ND	676	1360	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	676	1360	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
1-Methylnaphthalene	ND	1360	2710	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2-Methylnaphthalene	ND	1360	2710	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Naphthalene	ND	1360	2710	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Phenanthrene	**2890**	676	1360	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Pyrene	ND	676	1360	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Carbazole	ND	1020	2030	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Dibenzofuran	ND	676	1360	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2-Chlorophenol	ND	3390	6760	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
4-Chloro-3-methylphenol	ND	6760	13600	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2,4-Dichlorophenol	ND	3390	6760	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2,4-Dimethylphenol	ND	3390	6760	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2,4-Dinitrophenol	ND	16900	33900	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	16900	33900	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2-Methylphenol	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
3+4-Methylphenol(s)	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2-Nitrophenol	ND	6760	13600	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
4-Nitrophenol	ND	6760	13600	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Pentachlorophenol (PCP)	ND	6760	13600	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Phenol	ND	1360	2710	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	3390	6760	ug/kg dry	500	07/06/23 14:46	EPA 8270E	

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Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.02.003	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3F1614 - 08 04 23 1136

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Concrete-0628 (A3F1614-01RE1)				**Matrix: Soil**		**Batch: 23G0058**		
2,3,5,6-Tetrachlorophenol	ND	3390	6760	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2,4,5-Trichlorophenol	ND	3390	6760	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2,4,6-Trichlorophenol	ND	3390	6760	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	10200	20300	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Butyl benzyl phthalate	ND	6760	13600	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Diethylphthalate	ND	6760	13600	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Dimethylphthalate	ND	6760	13600	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Di-n-butylphthalate	ND	6760	13600	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Di-n-octyl phthalate	ND	6760	13600	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
N-Nitrosodimethylamine	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
N-Nitrosodiphenylamine	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Hexachlorobenzene	ND	676	1360	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Hexachlorobutadiene	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Hexachlorocyclopentadiene	ND	3390	6760	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Hexachloroethane	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2-Chloronaphthalene	ND	676	1360	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
1,2,4-Trichlorobenzene	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
4-Bromophenyl phenyl ether	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Aniline	ND	3390	6760	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
4-Chloroaniline	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2-Nitroaniline	ND	13600	27100	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
3-Nitroaniline	ND	13600	27100	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
4-Nitroaniline	ND	13600	27100	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Nitrobenzene	ND	6760	13600	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2,4-Dinitrotoluene	ND	6760	13600	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
2,6-Dinitrotoluene	ND	6760	13600	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Benzoic acid	ND	84900	169000	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Benzyl alcohol	ND	3390	6760	ug/kg dry	500	07/06/23 14:46	EPA 8270E	

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ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3F1614 - 08 04 23 1136**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Concrete-0628 (A3F1614-01RE1)				**Matrix: Soil**		**Batch: 23G0058**		
Isophorone	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Azobenzene (1,2-DPH)	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	16900	33900	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
3,3'-Dichlorobenzidine	ND	13600	27100	ug/kg dry	500	07/06/23 14:46	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	16900	33900	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
1,3-Dinitrobenzene	ND	16900	33900	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
1,4-Dinitrobenzene	ND	16900	33900	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Pyridine	ND	3390	6760	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
1,2-Dichlorobenzene	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
1,3-Dichlorobenzene	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
1,4-Dichlorobenzene	ND	1690	3390	ug/kg dry	500	07/06/23 14:46	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery:*	*74 %*	*Limits:* *37-122 %*	*500*	*07/06/23 14:46*	*EPA 8270E*	*S-05*
2-Fluorobiphenyl (Surr)			*77 %*	*44-120 %*	*500*	*07/06/23 14:46*	*EPA 8270E*	*S-05*
Phenol-d6 (Surr)			*45 %*	*33-122 %*	*500*	*07/06/23 14:46*	*EPA 8270E*	*S-05*
p-Terphenyl-d14 (Surr)			*109 %*	*54-127 %*	*500*	*07/06/23 14:46*	*EPA 8270E*	*S-05*
2-Fluorophenol (Surr)			*38 %*	*35-120 %*	*500*	*07/06/23 14:46*	*EPA 8270E*	*S-05*
2,4,6-Tribromophenol (Surr)			*647 %*	*39-132 %*	*500*	*07/06/23 14:46*	*EPA 8270E*	*S-05*

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ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.02.003	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3F1614 - 08 04 23 1136

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Concrete-0628 (A3F1614-01RE1)				**Matrix: Soil**				
Batch: 23G0050								
Arsenic	**5.57**	---	1.08	mg/kg dry	10	07/05/23 22:12	EPA 6020B	
Barium	**167**	---	1.08	mg/kg dry	10	07/05/23 22:12	EPA 6020B	
Cadmium	**2.04**	---	0.215	mg/kg dry	10	07/05/23 22:12	EPA 6020B	
Chromium	**27.3**	---	1.08	mg/kg dry	10	07/05/23 22:12	EPA 6020B	
Lead	**92.7**	---	0.215	mg/kg dry	10	07/05/23 22:12	EPA 6020B	
Mercury	**0.436**	---	0.0861	mg/kg dry	10	07/05/23 22:12	EPA 6020B	
Selenium	ND	---	1.08	mg/kg dry	10	07/05/23 22:12	EPA 6020B	
Silver	ND	---	0.215	mg/kg dry	10	07/05/23 22:12	EPA 6020B	
DS-15 (A3F1614-02)				**Matrix: Soil**				
Batch: 23G0173								
Arsenic	**10.8**	---	2.52	mg/kg dry	10	07/07/23 21:40	EPA 6020B	
Barium	**99.4**	---	2.52	mg/kg dry	10	07/07/23 21:40	EPA 6020B	
Cadmium	**1.17**	---	0.505	mg/kg dry	10	07/07/23 21:40	EPA 6020B	
Chromium	**15.4**	---	2.52	mg/kg dry	10	07/07/23 21:40	EPA 6020B	
Lead	**26.5**	---	0.505	mg/kg dry	10	07/07/23 21:40	EPA 6020B	
Mercury	ND	---	0.202	mg/kg dry	10	07/07/23 21:40	EPA 6020B	
Selenium	ND	---	2.52	mg/kg dry	10	07/07/23 21:40	EPA 6020B	
Silver	ND	---	0.505	mg/kg dry	10	07/07/23 21:40	EPA 6020B	
DS-16 (A3F1614-03)				**Matrix: Soil**				
Batch: 23G0173								
Arsenic	ND	---	2.91	mg/kg dry	10	07/07/23 21:45	EPA 6020B	
Barium	**185**	---	2.91	mg/kg dry	10	07/07/23 21:45	EPA 6020B	
Cadmium	**1.97**	---	0.581	mg/kg dry	10	07/07/23 21:45	EPA 6020B	
Chromium	**10.8**	---	2.91	mg/kg dry	10	07/07/23 21:45	EPA 6020B	
Lead	**15.8**	---	0.581	mg/kg dry	10	07/07/23 21:45	EPA 6020B	
Mercury	ND	---	0.232	mg/kg dry	10	07/07/23 21:45	EPA 6020B	
Selenium	ND	---	2.91	mg/kg dry	10	07/07/23 21:45	EPA 6020B	
Silver	ND	---	0.581	mg/kg dry	10	07/07/23 21:45	EPA 6020B	
DS-17 (A3F1614-04)				**Matrix: Soil**				
Batch: 23G0173								

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ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3F1614 - 08 04 23 1136**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DS-17 (A3F1614-04)				**Matrix: Soil**				
Arsenic	**11.2**	---	1.44	mg/kg dry	10	07/07/23 21:51	EPA 6020B	
Barium	**80.4**	---	1.44	mg/kg dry	10	07/07/23 21:51	EPA 6020B	
Cadmium	**1.47**	---	0.288	mg/kg dry	10	07/07/23 21:51	EPA 6020B	
Chromium	**50.3**	---	1.44	mg/kg dry	10	07/07/23 21:51	EPA 6020B	
Lead	**328**	---	0.288	mg/kg dry	10	07/07/23 21:51	EPA 6020B	
Mercury	**0.174**	---	0.115	mg/kg dry	10	07/07/23 21:51	EPA 6020B	
Selenium	ND	---	1.44	mg/kg dry	10	07/07/23 21:51	EPA 6020B	
Silver	**1.03**	---	0.288	mg/kg dry	10	07/07/23 21:51	EPA 6020B	
DS-18 (A3F1614-05)				**Matrix: Soil**				
Batch: 23G0173								
Arsenic	**15.9**	---	1.15	mg/kg dry	10	07/07/23 21:56	EPA 6020B	
Barium	**89.6**	---	1.15	mg/kg dry	10	07/07/23 21:56	EPA 6020B	
Cadmium	**2.39**	---	0.230	mg/kg dry	10	07/07/23 21:56	EPA 6020B	
Chromium	**33.8**	---	1.15	mg/kg dry	10	07/07/23 21:56	EPA 6020B	
Lead	**91.9**	---	0.230	mg/kg dry	10	07/07/23 21:56	EPA 6020B	
Mercury	ND	---	0.0921	mg/kg dry	10	07/07/23 21:56	EPA 6020B	
Selenium	ND	---	1.15	mg/kg dry	10	07/07/23 21:56	EPA 6020B	
Silver	ND	---	0.230	mg/kg dry	10	07/07/23 21:56	EPA 6020B	

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ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.02.003	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3F1614 - 08 04 23 1136

ANALYTICAL SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Concrete-0628 (A3F1614-01)				**Matrix: Soil**				
Batch: 23F1141								
Arsenic	ND	---	0.100	mg/L	10	07/03/23 14:59	1311/6020B	
Barium	ND	---	5.00	mg/L	10	07/03/23 14:59	1311/6020B	
Cadmium	ND	---	0.100	mg/L	10	07/03/23 14:59	1311/6020B	
Chromium	ND	---	0.100	mg/L	10	07/03/23 14:59	1311/6020B	
Lead	ND	---	0.0500	mg/L	10	07/03/23 14:59	1311/6020B	
Mercury	ND	---	0.00700	mg/L	10	07/03/23 14:59	1311/6020B	
Selenium	ND	---	0.100	mg/L	10	07/03/23 14:59	1311/6020B	
Concrete-0628 (A3F1614-01RE1)				**Matrix: Soil**				
Batch: 23G0113								
Silver	ND	---	0.100	mg/L	5	07/06/23 11:58	1311/6020B	
DS-16 (A3F1614-03)				**Matrix: Soil**				
Batch: 23G0266								
Arsenic	ND	---	0.100	mg/L	10	07/11/23 16:45	1311/6020B	
Barium	ND	---	5.00	mg/L	10	07/11/23 16:45	1311/6020B	
Cadmium	ND	---	0.100	mg/L	10	07/11/23 16:45	1311/6020B	
Chromium	ND	---	0.100	mg/L	10	07/11/23 16:45	1311/6020B	
Lead	ND	---	0.0500	mg/L	10	07/11/23 16:45	1311/6020B	
Mercury	ND	---	0.00700	mg/L	10	07/11/23 16:45	1311/6020B	
Selenium	ND	---	0.100	mg/L	10	07/11/23 16:45	1311/6020B	
Silver	ND	---	0.100	mg/L	10	07/11/23 16:45	1311/6020B	
DS-18 (A3F1614-05)				**Matrix: Soil**				
Batch: 23G0266								
Arsenic	ND	---	0.100	mg/L	10	07/11/23 17:01	1311/6020B	
Barium	ND	---	5.00	mg/L	10	07/11/23 17:01	1311/6020B	
Cadmium	ND	---	0.100	mg/L	10	07/11/23 17:01	1311/6020B	
Chromium	ND	---	0.100	mg/L	10	07/11/23 17:01	1311/6020B	
Lead	ND	---	0.0500	mg/L	10	07/11/23 17:01	1311/6020B	
Mercury	ND	---	0.00700	mg/L	10	07/11/23 17:01	1311/6020B	
Selenium	ND	---	0.100	mg/L	10	07/11/23 17:01	1311/6020B	
Silver	ND	---	0.100	mg/L	10	07/11/23 17:01	1311/6020B	

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ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.02.003	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3F1614 - 08 04 23 1136

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Concrete-0628 (A3F1614-01)				**Matrix: Soil**		**Batch: 23F1093**		
% Solids	**97.0**	---	1.00	%	1	06/30/23 07:24	EPA 8000D	
DS-15 (A3F1614-02)				**Matrix: Soil**		**Batch: 23F1093**		
% Solids	**41.2**	---	1.00	%	1	06/30/23 07:24	EPA 8000D	
DS-16 (A3F1614-03)				**Matrix: Soil**		**Batch: 23F1093**		
% Solids	**34.2**	---	1.00	%	1	06/30/23 07:24	EPA 8000D	
DS-17 (A3F1614-04)				**Matrix: Soil**		**Batch: 23F1093**		
% Solids	**71.7**	---	1.00	%	1	06/30/23 07:24	EPA 8000D	
DS-18 (A3F1614-05)				**Matrix: Soil**		**Batch: 23F1093**		
% Solids	**87.6**	---	1.00	%	1	06/30/23 07:24	EPA 8000D	

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ANALYTICAL REPORT

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Portland, OR 97232	Project Manager: Jacob Faust	A3F1614 - 08 04 23 1136

ANALYTICAL SAMPLE RESULTS

TCLP Extraction by EPA 1311

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Concrete-0628 (A3F1614-01)				**Matrix: Soil**		**Batch: 23F1124**		
TCLP Extraction	PREP	---		N/A	1	06/29/23 18:03	EPA 1311	
DS-16 (A3F1614-03)				**Matrix: Soil**		**Batch: 23G0219**		
TCLP Extraction	PREP	---		N/A	1	07/10/23 13:53	EPA 1311	
DS-18 (A3F1614-05)				**Matrix: Soil**		**Batch: 23G0219**		
TCLP Extraction	PREP	---		N/A	1	07/10/23 13:53	EPA 1311	

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ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.02.003	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F1079 - NWTPH-HCID (Soil)							Soil					
Blank (23F1079-BLK1)			Prepared: 06/29/23 06:26 Analyzed: 06/29/23 19:56									
NWTPH-HCID												
Gasoline Range Organics	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---	
Diesel Range Organics	ND	---	50.0	mg/kg wet	1	---	---	---	---	---	---	
Oil Range Organics	ND	---	100	mg/kg wet	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 101 %*	*Limits: 50-150 %*			*Dilution: 1x*					
4-Bromofluorobenzene (Surr)			*99 %*	*50-150 %*			*"*					
Duplicate (23F1079-DUP1)			Prepared: 06/29/23 06:26 Analyzed: 06/29/23 22:41									
QC Source Sample: Concrete-0628 (A3F1614-01)												
NWTPH-HCID												
Gasoline Range Organics	ND	---	20.6	mg/kg dry	1	---	ND	---	---	---	30%	
Diesel Range Organics	**DET**	---	51.5	mg/kg dry	1	---	ND	---	---		30%	A-01
Oil Range Organics	**DET**	---	103	mg/kg dry	1	---	ND	---	---		30%	
Surr: o-Terphenyl (Surr)			*Recovery: 96 %*	*Limits: 50-150 %*			*Dilution: 1x*					
4-Bromofluorobenzene (Surr)			*79 %*	*50-150 %*			*"*					
Duplicate (23F1079-DUP2)			Prepared: 06/29/23 14:16 Analyzed: 06/29/23 20:58									**TEMP**
QC Source Sample: Non-SDG (A3F1641-01)												
Gasoline Range Organics	ND	---	19.3	mg/kg dry	1	---	ND	---	---	---	30%	
Diesel Range Organics	ND	---	48.3	mg/kg dry	1	---	ND	---	---	---	30%	
Oil Range Organics	**DET**	---	96.6	mg/kg dry	1	---	ND	---	---		**30%**	
Surr: o-Terphenyl (Surr)			*Recovery: 102 %*	*Limits: 50-150 %*			*Dilution: 1x*					
4-Bromofluorobenzene (Surr)			*94 %*	*50-150 %*			*"*					

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Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3F1614 - 08 04 23 1136**

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0138 - EPA 3546 (Fuels)							**Soil**					
Blank (23G0138-BLK1)			Prepared: 07/06/23 14:59 Analyzed: 07/06/23 20:38									
NWTPH-Dx												
Diesel	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	40.0	mg/kg wet	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 86 %*	*Limits: 50-150 %*			*Dilution: 1x*					
LCS (23G0138-BS1)			Prepared: 07/06/23 14:59 Analyzed: 07/06/23 21:01									
NWTPH-Dx												
Diesel	116	---	20.0	mg/kg wet	1	125	---	93	38-132%	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 86 %*	*Limits: 50-150 %*			*Dilution: 1x*					
Duplicate (23G0138-DUP1)			Prepared: 07/06/23 14:59 Analyzed: 07/06/23 22:12									
QC Source Sample: Non-SDG (A3F1575-03)												
Diesel	ND	---	7430	mg/kg dry	200	---	ND	---	---	---	30%	
Oil	**46200**	---	14900	mg/kg dry	200	---	86900	---	---	**61**	**30%**	F-13
Surr: o-Terphenyl (Surr)			*Recovery: %*	*Limits: 50-150 %*			*Dilution: 200x*					*S-01*
Duplicate (23G0138-DUP2)			Prepared: 07/06/23 14:59 Analyzed: 07/07/23 07:12									
QC Source Sample: Non-SDG (A3G0796-04)												
Diesel	ND	---	25.5	mg/kg dry	1	---	ND	---	---	---	30%	
Oil	ND	---	51.0	mg/kg dry	1	---	ND	---	---	---	30%	
Surr: o-Terphenyl (Surr)			*Recovery: 69 %*	*Limits: 50-150 %*			*Dilution: 1x*					

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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APEX LABORATORIES

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

ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project: **Blue Heron Paper Mill**
Project Number: **M0496.02.003**
Project Manager: **Jacob Faust**

Report ID:
A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F1147 - EPA 3546							**Soil**					
Blank (23F1147-BLK1)			Prepared: 06/30/23 09:59	Analyzed: 07/03/23 09:11								**C-07**
EPA 8082A												
Aroclor 1016	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1221	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1232	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1242	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1248	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1254	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1260	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)		*Recovery: 105 %*	*Limits: 60-125 %*		*Dilution: 1x*							
LCS (23F1147-BS1)			Prepared: 06/30/23 09:59	Analyzed: 07/03/23 09:29								**C-07**
EPA 8082A												
Aroclor 1016	224	---	10.0	ug/kg wet	1	250	---	90	47-134%	---	---	
Aroclor 1260	265	---	10.0	ug/kg wet	1	250	---	106	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)		*Recovery: 107 %*	*Limits: 60-125 %*		*Dilution: 1x*							
Duplicate (23F1147-DUP1)			Prepared: 06/30/23 09:59	Analyzed: 07/03/23 10:21								**C-07, COMP**
QC Source Sample: Non-SDG (A3F1457-31)												
Aroclor 1016	ND	---	11.3	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1221	ND	---	11.3	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1232	ND	---	11.3	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1242	ND	---	11.3	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1248	ND	---	11.3	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1254	ND	---	11.3	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1260	ND	---	11.3	ug/kg dry	1	---	24.5	---	---	***	**30%**	Q-05
Surr: Decachlorobiphenyl (Surr)		*Recovery: 102 %*	*Limits: 60-125 %*		*Dilution: 1x*							
Matrix Spike (23F1147-MS1)			Prepared: 06/30/23 09:59	Analyzed: 07/03/23 10:21								**C-07**
QC Source Sample: Concrete-0628 (A3F1614-01)												
EPA 8082A												
Aroclor 1016	314	---	10.0	ug/kg dry	1	251	ND	125	47-134%	---	---	
Aroclor 1260	243	---	10.0	ug/kg dry	1	251	53.9	75	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)		*Recovery: 84 %*	*Limits: 60-125 %*		*Dilution: 1x*							

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Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.02.003	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F1147 - EPA 3546							**Soil**					

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Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3F1614 - 08 04 23 1136**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0216 - EPA 3546							**Soil**					
Blank (23G0216-BLK1)			Prepared: 07/10/23 09:47		Analyzed: 07/10/23 18:06							**C-07**
EPA 8082A												
Aroclor 1016	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1221	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1232	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1242	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1248	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1254	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1260	ND	---	10.0	ug/kg wet	1	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 88 %*		*Limits: 60-125 %*			*Dilution: 1x*				
LCS (23G0216-BS1)			Prepared: 07/10/23 09:47		Analyzed: 07/10/23 18:23							**C-07**
EPA 8082A												
Aroclor 1016	195	---	10.0	ug/kg wet	1	250	---	78	47-134%	---	---	
Aroclor 1260	227	---	10.0	ug/kg wet	1	250	---	91	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 96 %*		*Limits: 60-125 %*			*Dilution: 1x*				
Duplicate (23G0216-DUP1)			Prepared: 07/10/23 09:47		Analyzed: 07/10/23 19:16							**C-07**
QC Source Sample: DS-15 (A3F1614-02)												
EPA 8082A												
Aroclor 1016	ND	---	23.0	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1221	ND	---	23.0	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1232	ND	---	23.0	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1242	ND	---	23.0	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1248	ND	---	23.0	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1254	ND	---	23.0	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1260	ND	---	23.0	ug/kg dry	1	---	ND	---	---	---	30%	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 51 %*		*Limits: 60-125 %*			*Dilution: 1x*				*S-03*
Matrix Spike (23G0216-MS1)			Prepared: 07/10/23 09:47		Analyzed: 07/10/23 19:52							**C-07**
QC Source Sample: Non-SDG (A3G0859-01)												
EPA 8082A												
Aroclor 1016	185	---	9.84	ug/kg dry	1	246	ND	75	47-134%	---	---	
Aroclor 1260	187	---	9.84	ug/kg dry	1	246	5.42	74	53-140%	---	---	

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Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3F1614 - 08 04 23 1136**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0216 - EPA 3546							**Soil**					
Matrix Spike (23G0216-MS1)			Prepared: 07/10/23 09:47 Analyzed: 07/10/23 19:52									**C-07**
QC Source Sample: Non-SDG (A3G0859-01)												
Surr: Decachlorobiphenyl (Surr)			*Recovery: 83 %*	*Limits: 60-125 %*		*Dilution: 1x*						

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Portland, OR 97232	Project Manager: Jacob Faust	A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0217 - EPA 3546							Soil					
Blank (23G0217-BLK1)			Prepared: 07/10/23 09:49 Analyzed: 07/10/23 14:40									
EPA 8270E SIM												
Acenaphthene	ND	---	2.67	ug/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	---	2.67	ug/kg wet	1	---	---	---	---	---	---	
Anthracene	ND	---	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	---	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	---	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	---	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	---	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	---	2.67	ug/kg wet	1	---	---	---	---	---	---	
Chrysene	ND	---	2.67	ug/kg wet	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	---	2.67	ug/kg wet	1	---	---	---	---	---	---	
Fluoranthene	ND	---	2.67	ug/kg wet	1	---	---	---	---	---	---	
Fluorene	ND	---	2.67	ug/kg wet	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	---	2.67	ug/kg wet	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	---	2.67	ug/kg wet	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	---	2.67	ug/kg wet	1	---	---	---	---	---	---	
Naphthalene	ND	---	2.67	ug/kg wet	1	---	---	---	---	---	---	
Phenanthrene	ND	---	2.67	ug/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	---	2.67	ug/kg wet	1	---	---	---	---	---	---	
Dibenzofuran	ND	---	2.67	ug/kg wet	1	---	---	---	---	---	---	
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 89 %*			*Limits: 44-120 %*			*Dilution: 1x*			
p-Terphenyl-d14 (Surr)			*105 %*			*54-127 %*			*"*			
LCS (23G0217-BS1)			Prepared: 07/10/23 09:49 Analyzed: 07/10/23 15:05									
EPA 8270E SIM												
Acenaphthene	546	---	2.67	ug/kg wet	1	533	---	102	40-123%	---	---	
Acenaphthylene	529	---	2.67	ug/kg wet	1	533	---	99	32-132%	---	---	
Anthracene	526	---	2.67	ug/kg wet	1	533	---	99	47-123%	---	---	
Benz(a)anthracene	505	---	2.67	ug/kg wet	1	533	---	95	49-126%	---	---	
Benzo(a)pyrene	532	---	2.67	ug/kg wet	1	533	---	100	45-129%	---	---	
Benzo(b)fluoranthene	513	---	2.67	ug/kg wet	1	533	---	96	45-132%	---	---	
Benzo(k)fluoranthene	538	---	2.67	ug/kg wet	1	533	---	101	47-132%	---	---	
Benzo(g,h,i)perylene	493	---	2.67	ug/kg wet	1	533	---	92	43-134%	---	---	
Chrysene	520	---	2.67	ug/kg wet	1	533	---	97	50-124%	---	---	

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ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project: **Blue Heron Paper Mill**
Project Number: **M0496.02.003**
Project Manager: **Jacob Faust**

Report ID:
A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0217 - EPA 3546							**Soil**					
LCS (23G0217-BS1)			Prepared: 07/10/23 09:49	Analyzed: 07/10/23 15:05								
Dibenz(a,h)anthracene	544	---	2.67	ug/kg wet	1	533	---	102	45-134%	---	---	
Fluoranthene	503	---	2.67	ug/kg wet	1	533	---	94	50-127%	---	---	
Fluorene	520	---	2.67	ug/kg wet	1	533	---	97	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	528	---	2.67	ug/kg wet	1	533	---	99	45-133%	---	---	
1-Methylnaphthalene	506	---	2.67	ug/kg wet	1	533	---	95	40-120%	---	---	
2-Methylnaphthalene	502	---	2.67	ug/kg wet	1	533	---	94	38-122%	---	---	
Naphthalene	487	---	2.67	ug/kg wet	1	533	---	91	35-123%	---	---	
Phenanthrene	511	---	2.67	ug/kg wet	1	533	---	96	50-121%	---	---	
Pyrene	496	---	2.67	ug/kg wet	1	533	---	93	47-127%	---	---	
Dibenzofuran	530	---	2.67	ug/kg wet	1	533	---	99	44-120%	---	---	
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 96 %*	*Limits: 44-120 %*			*Dilution: 1x*					
p-Terphenyl-d14 (Surr)			*105 %*	*54-127 %*			*"*					
Duplicate (23G0217-DUP1)			Prepared: 07/10/23 09:49	Analyzed: 07/10/23 16:47								**TEMP**
QC Source Sample: Non-SDG (A3F1641-01)												
Acenaphthene	ND	---	108	ug/kg dry	40	---	151	---	---	***	**30%**	Q-04
Acenaphthylene	ND	---	108	ug/kg dry	40	---	310	---	---	***	**30%**	Q-04
Anthracene	ND	---	108	ug/kg dry	40	---	544	---	---	***	**30%**	Q-04
Benz(a)anthracene	ND	---	108	ug/kg dry	40	---	1200	---	---	***	**30%**	Q-04
Benzo(a)pyrene	ND	---	108	ug/kg dry	40	---	2020	---	---	***	**30%**	Q-04
Benzo(b)fluoranthene	ND	---	108	ug/kg dry	40	---	1760	---	---	***	**30%**	Q-04
Benzo(k)fluoranthene	ND	---	108	ug/kg dry	40	---	521	---	---	***	**30%**	Q-04
Benzo(g,h,i)perylene	ND	---	108	ug/kg dry	40	---	2120	---	---	***	**30%**	Q-04
Chrysene	ND	---	108	ug/kg dry	40	---	1710	---	---	***	**30%**	Q-04
Dibenz(a,h)anthracene	ND	---	108	ug/kg dry	40	---	155	---	---	***	**30%**	Q-04
Fluoranthene	ND	---	108	ug/kg dry	40	---	4260	---	---	***	**30%**	Q-04
Fluorene	ND	---	108	ug/kg dry	40	---	255	---	---	***	**30%**	Q-04
Indeno(1,2,3-cd)pyrene	ND	---	108	ug/kg dry	40	---	1770	---	---	***	**30%**	Q-04
1-Methylnaphthalene	ND	---	108	ug/kg dry	40	---	168	---	---	***	**30%**	Q-04
2-Methylnaphthalene	ND	---	108	ug/kg dry	40	---	158	---	---	***	**30%**	Q-04
Naphthalene	ND	---	108	ug/kg dry	40	---	112	---	---	***	**30%**	Q-04
Phenanthrene	ND	---	108	ug/kg dry	40	---	3110	---	---	***	**30%**	Q-04
Pyrene	**132**	---	108	ug/kg dry	40	---	5650	---	---	**191**	**30%**	Q-04
Dibenzofuran	ND	---	108	ug/kg dry	40	---	ND	---	---	---	30%	

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AMENDED REPORT

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3140 NE Broadway Street	Project Number: M0496.02.003	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

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

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0217 - EPA 3546							**Soil**					
Duplicate (23G0217-DUP1)			Prepared: 07/10/23 09:49 Analyzed: 07/10/23 16:47									**TEMP**
QC Source Sample: Non-SDG (A3F1641-01)												
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 90 %*	*Limits: 44-120 %*			*Dilution: 40x*					*S-05*
p-Terphenyl-d14 (Surr)			*96 %*	*54-127 %*			*"*					*S-05*
Matrix Spike (23G0217-MS1)			Prepared: 07/10/23 09:49 Analyzed: 07/10/23 15:56									**TEMP**
QC Source Sample: Non-SDG (A3F1641-04)												
EPA 8270E SIM												
Acenaphthene	430	---	28.0	ug/kg dry	10	560	ND	77	40-123%	---	---	
Acenaphthylene	407	---	28.0	ug/kg dry	10	560	ND	73	32-132%	---	---	
Anthracene	411	---	28.0	ug/kg dry	10	560	ND	73	47-123%	---	---	
Benz(a)anthracene	412	---	28.0	ug/kg dry	10	560	ND	74	49-126%	---	---	
Benzo(a)pyrene	405	---	28.0	ug/kg dry	10	560	ND	72	45-129%	---	---	
Benzo(b)fluoranthene	399	---	28.0	ug/kg dry	10	560	ND	71	45-132%	---	---	
Benzo(k)fluoranthene	429	---	28.0	ug/kg dry	10	560	ND	77	47-132%	---	---	
Benzo(g,h,i)perylene	394	---	28.0	ug/kg dry	10	560	ND	70	43-134%	---	---	
Chrysene	427	---	28.0	ug/kg dry	10	560	ND	76	50-124%	---	---	
Dibenz(a,h)anthracene	401	---	28.0	ug/kg dry	10	560	ND	72	45-134%	---	---	
Fluoranthene	396	---	28.0	ug/kg dry	10	560	ND	71	50-127%	---	---	
Fluorene	416	---	28.0	ug/kg dry	10	560	ND	74	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	414	---	28.0	ug/kg dry	10	560	ND	74	45-133%	---	---	
1-Methylnaphthalene	414	---	28.0	ug/kg dry	10	560	ND	74	40-120%	---	---	
2-Methylnaphthalene	415	---	28.0	ug/kg dry	10	560	ND	74	38-122%	---	---	
Naphthalene	401	---	28.0	ug/kg dry	10	560	ND	72	35-123%	---	---	
Phenanthrene	409	---	28.0	ug/kg dry	10	560	ND	73	50-121%	---	---	
Pyrene	390	---	28.0	ug/kg dry	10	560	ND	70	47-127%	---	---	
Dibenzofuran	419	---	28.0	ug/kg dry	10	560	ND	75	44-120%	---	---	
Surr: 2-Fluorobiphenyl (Surr)			*Recovery: 70 %*	*Limits: 44-120 %*			*Dilution: 10x*					
p-Terphenyl-d14 (Surr)			*77 %*	*54-127 %*			*"*					

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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

ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.02.003	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0058 - EPA 3546							Soil					
Blank (23G0058-BLK2)			Prepared: 07/05/23 13:04 Analyzed: 07/05/23 19:54									
EPA 8270E												
Acenaphthene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Acenaphthylene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Chrysene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Fluoranthene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Fluorene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
Naphthalene	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
Phenanthrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Pyrene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Carbazole	ND	2.00	4.00	ug/kg wet	1	---	---	---	---	---	---	
Dibenzofuran	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
2-Chlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
2-Methylphenol	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Nitrophenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
4-Nitrophenol	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Phenol	ND	2.67	5.33	ug/kg wet	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	

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Philip Nerenberg, Lab Director

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503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.02.003	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0058 - EPA 3546							Soil					
Blank (23G0058-BLK2)			Prepared: 07/05/23 13:04		Analyzed: 07/05/23 19:54							
2,3,5,6-Tetrachlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	20.0	40.0	ug/kg wet	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Diethylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Dimethylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Hexachloroethane	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	1.33	2.67	ug/kg wet	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Aniline	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
4-Chloroaniline	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
2-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
3-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
4-Nitroaniline	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	
Nitrobenzene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	13.3	26.7	ug/kg wet	1	---	---	---	---	---	---	
Benzoic acid	ND	167	333	ug/kg wet	1	---	---	---	---	---	---	
Benzyl alcohol	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
Isophorone	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	

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Philip Nerenberg, Lab Director

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

ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3F1614 - 08 04 23 1136**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0058 - EPA 3546							**Soil**					
Blank (23G0058-BLK2)			Prepared: 07/05/23 13:04 Analyzed: 07/05/23 19:54									
Azobenzene (1,2-DPH)	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Bis(2-Ethylhexyl) adipate	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	26.7	53.3	ug/kg wet	1	---	---	---	---	---	---	Q-52
1,2-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	33.3	66.7	ug/kg wet	1	---	---	---	---	---	---	
Pyridine	ND	6.67	13.3	ug/kg wet	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	3.33	6.67	ug/kg wet	1	---	---	---	---	---	---	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 90 %*	*Limits: 37-122 %*			*Dilution: 1x*					
2-Fluorobiphenyl (Surr)			*91 %*	*44-120 %*			*"*					
Phenol-d6 (Surr)			*83 %*	*33-122 %*			*"*					
p-Terphenyl-d14 (Surr)			*92 %*	*54-127 %*			*"*					
2-Fluorophenol (Surr)			*85 %*	*35-120 %*			*"*					
2,4,6-Tribromophenol (Surr)			*88 %*	*39-132 %*			*"*					
LCS (23G0058-BS2)			Prepared: 07/05/23 13:04 Analyzed: 07/05/23 20:27									
EPA 8270E												
Acenaphthene	509	5.32	10.7	ug/kg wet	4	533	---	95	40-123%	---	---	
Acenaphthylene	518	5.32	10.7	ug/kg wet	4	533	---	97	32-132%	---	---	
Anthracene	527	5.32	10.7	ug/kg wet	4	533	---	99	47-123%	---	---	
Benz(a)anthracene	500	5.32	10.7	ug/kg wet	4	533	---	94	49-126%	---	---	
Benzo(a)pyrene	530	8.00	16.0	ug/kg wet	4	533	---	99	45-129%	---	---	
Benzo(b)fluoranthene	562	8.00	16.0	ug/kg wet	4	533	---	105	45-132%	---	---	
Benzo(k)fluoranthene	589	8.00	16.0	ug/kg wet	4	533	---	110	47-132%	---	---	
Benzo(g,h,i)perylene	500	5.32	10.7	ug/kg wet	4	533	---	94	43-134%	---	---	
Chrysene	491	5.32	10.7	ug/kg wet	4	533	---	92	50-124%	---	---	
Dibenz(a,h)anthracene	499	5.32	10.7	ug/kg wet	4	533	---	94	45-134%	---	---	
Fluoranthene	531	5.32	10.7	ug/kg wet	4	533	---	100	50-127%	---	---	
Fluorene	499	5.32	10.7	ug/kg wet	4	533	---	94	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	455	5.32	10.7	ug/kg wet	4	533	---	85	45-133%	---	---	
1-Methylnaphthalene	470	10.7	21.3	ug/kg wet	4	533	---	88	40-120%	---	---	
2-Methylnaphthalene	507	10.7	21.3	ug/kg wet	4	533	---	95	38-122%	---	---	

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3F1614 - 08 04 23 1136**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0058 - EPA 3546							**Soil**					
LCS (23G0058-BS2)			Prepared: 07/05/23 13:04		Analyzed: 07/05/23 20:27							
Naphthalene	496	10.7	21.3	ug/kg wet	4	533	---	93	35-123%	---	---	
Phenanthrene	505	5.32	10.7	ug/kg wet	4	533	---	95	50-121%	---	---	
Pyrene	531	5.32	10.7	ug/kg wet	4	533	---	100	47-127%	---	---	
Carbazole	504	8.00	16.0	ug/kg wet	4	533	---	94	50-123%	---	---	
Dibenzofuran	531	5.32	10.7	ug/kg wet	4	533	---	100	44-120%	---	---	
2-Chlorophenol	509	26.7	53.2	ug/kg wet	4	533	---	95	34-121%	---	---	
4-Chloro-3-methylphenol	519	53.2	107	ug/kg wet	4	533	---	97	45-122%	---	---	
2,4-Dichlorophenol	550	26.7	53.2	ug/kg wet	4	533	---	103	40-122%	---	---	
2,4-Dimethylphenol	626	26.7	53.2	ug/kg wet	4	533	---	117	30-127%	---	---	
2,4-Dinitrophenol	438	133	267	ug/kg wet	4	533	---	82	10-137%	---	---	
4,6-Dinitro-2-methylphenol	512	133	267	ug/kg wet	4	533	---	96	29-132%	---	---	
2-Methylphenol	527	13.3	26.7	ug/kg wet	4	533	---	99	32-122%	---	---	
3+4-Methylphenol(s)	521	13.3	26.7	ug/kg wet	4	533	---	98	34-120%	---	---	
2-Nitrophenol	551	53.2	107	ug/kg wet	4	533	---	103	36-123%	---	---	
4-Nitrophenol	468	53.2	107	ug/kg wet	4	533	---	88	30-132%	---	---	
Pentachlorophenol (PCP)	446	53.2	107	ug/kg wet	4	533	---	84	25-133%	---	---	
Phenol	520	10.7	21.3	ug/kg wet	4	533	---	98	34-121%	---	---	
2,3,4,6-Tetrachlorophenol	505	26.7	53.2	ug/kg wet	4	533	---	95	44-125%	---	---	
2,3,5,6-Tetrachlorophenol	517	26.7	53.2	ug/kg wet	4	533	---	97	40-120%	---	---	
2,4,5-Trichlorophenol	555	26.7	53.2	ug/kg wet	4	533	---	104	41-124%	---	---	
2,4,6-Trichlorophenol	518	26.7	53.2	ug/kg wet	4	533	---	97	39-126%	---	---	
Bis(2-ethylhexyl)phthalate	525	80.0	160	ug/kg wet	4	533	---	98	51-133%	---	---	
Butyl benzyl phthalate	535	53.2	107	ug/kg wet	4	533	---	100	48-132%	---	---	
Diethylphthalate	529	53.2	107	ug/kg wet	4	533	---	99	50-124%	---	---	
Dimethylphthalate	514	53.2	107	ug/kg wet	4	533	---	96	48-124%	---	---	
Di-n-butylphthalate	558	53.2	107	ug/kg wet	4	533	---	105	51-128%	---	---	
Di-n-octyl phthalate	579	53.2	107	ug/kg wet	4	533	---	109	45-140%	---	---	
N-Nitrosodimethylamine	455	13.3	26.7	ug/kg wet	4	533	---	85	23-120%	---	---	
N-Nitroso-di-n-propylamine	468	13.3	26.7	ug/kg wet	4	533	---	88	36-120%	---	---	
N-Nitrosodiphenylamine	498	13.3	26.7	ug/kg wet	4	533	---	93	38-127%	---	---	
Bis(2-Chloroethoxy) methane	526	13.3	26.7	ug/kg wet	4	533	---	99	36-121%	---	---	
Bis(2-Chloroethyl) ether	444	13.3	26.7	ug/kg wet	4	533	---	83	31-120%	---	---	
2,2'-Oxybis(1-Chloropropane)	489	13.3	26.7	ug/kg wet	4	533	---	92	39-120%	---	---	
Hexachlorobenzene	473	5.32	10.7	ug/kg wet	4	533	---	89	45-122%	---	---	

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3F1614 - 08 04 23 1136**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0058 - EPA 3546							**Soil**					
LCS (23G0058-BS2)			Prepared: 07/05/23 13:04 Analyzed: 07/05/23 20:27									
Hexachlorobutadiene	484	13.3	26.7	ug/kg wet	4	533	---	91	32-123%	---	---	
Hexachlorocyclopentadiene	578	26.7	53.2	ug/kg wet	4	533	---	108	10-140%	---	---	
Hexachloroethane	482	13.3	26.7	ug/kg wet	4	533	---	90	28-120%	---	---	
2-Chloronaphthalene	571	5.32	10.7	ug/kg wet	4	533	---	107	41-120%	---	---	
1,2,4-Trichlorobenzene	494	13.3	26.7	ug/kg wet	4	533	---	93	34-120%	---	---	
4-Bromophenyl phenyl ether	526	13.3	26.7	ug/kg wet	4	533	---	99	46-124%	---	---	
4-Chlorophenyl phenyl ether	514	13.3	26.7	ug/kg wet	4	533	---	96	45-121%	---	---	
Aniline	383	26.7	53.2	ug/kg wet	4	533	---	72	10-120%	---	---	
4-Chloroaniline	377	13.3	26.7	ug/kg wet	4	533	---	71	17-120%	---	---	
2-Nitroaniline	551	107	213	ug/kg wet	4	533	---	103	44-127%	---	---	
3-Nitroaniline	460	107	213	ug/kg wet	4	533	---	86	33-120%	---	---	
4-Nitroaniline	454	107	213	ug/kg wet	4	533	---	85	51-125%	---	---	
Nitrobenzene	487	53.2	107	ug/kg wet	4	533	---	91	34-122%	---	---	
2,4-Dinitrotoluene	529	53.2	107	ug/kg wet	4	533	---	99	48-126%	---	---	
2,6-Dinitrotoluene	527	53.2	107	ug/kg wet	4	533	---	99	46-124%	---	---	
Benzoic acid	860	668	668	ug/kg wet	4	1070	---	81	10-140%	---	---	
Benzyl alcohol	478	26.7	53.2	ug/kg wet	4	533	---	90	29-122%	---	---	
Isophorone	476	13.3	26.7	ug/kg wet	4	533	---	89	30-122%	---	---	
Azobenzene (1,2-DPH)	552	13.3	26.7	ug/kg wet	4	533	---	104	39-125%	---	---	
Bis(2-Ethylhexyl) adipate	557	133	267	ug/kg wet	4	533	---	104	61-121%	---	---	
3,3'-Dichlorobenzidine	2130	107	213	ug/kg wet	4	1070	---	**200**	**22-121%**	---	---	Q-29, Q-31, Q-52
1,2-Dinitrobenzene	531	133	267	ug/kg wet	4	533	---	100	44-120%	---	---	
1,3-Dinitrobenzene	514	133	267	ug/kg wet	4	533	---	96	43-127%	---	---	
1,4-Dinitrobenzene	529	133	267	ug/kg wet	4	533	---	99	37-132%	---	---	
Pyridine	411	26.7	53.2	ug/kg wet	4	533	---	77	10-120%	---	---	
1,2-Dichlorobenzene	488	13.3	26.7	ug/kg wet	4	533	---	91	33-120%	---	---	
1,3-Dichlorobenzene	482	13.3	26.7	ug/kg wet	4	533	---	90	30-120%	---	---	
1,4-Dichlorobenzene	481	13.3	26.7	ug/kg wet	4	533	---	90	31-120%	---	---	

Surr: Nitrobenzene-d5 (Surr)	*Recovery: 87 %*	*Limits: 37-122 %*	*Dilution: 4x*
2-Fluorobiphenyl (Surr)	*102 %*	*44-120 %*	*"*
Phenol-d6 (Surr)	*97 %*	*33-122 %*	*"*
p-Terphenyl-d14 (Surr)	*98 %*	*54-127 %*	*"*
2-Fluorophenol (Surr)	*85 %*	*35-120 %*	*"*
2,4,6-Tribromophenol (Surr)	*94 %*	*39-132 %*	*"*

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Philip Nerenberg

Philip Nerenberg, Lab Director

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

ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.02.003	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0058 - EPA 3546							**Soil**					
Duplicate (23G0058-DUP2)				Prepared: 07/05/23 13:04 Analyzed: 07/05/23 21:34								
QC Source Sample: Non-SDG (A3F1639-02)												
Acenaphthene	ND	2450	2450	ug/kg dry	100	---	ND	---	---	---	30%	R-02
Acenaphthylene	**17400**	148	297	ug/kg dry	100	---	16200	---	---	7	30%	
Anthracene	**8200**	148	297	ug/kg dry	100	---	7750	---	---	6	30%	
Benz(a)anthracene	**3590**	148	297	ug/kg dry	100	---	3490	---	---	3	30%	
Benzo(a)pyrene	**3360**	223	446	ug/kg dry	100	---	3190	---	---	5	30%	
Benzo(b)fluoranthene	**2430**	223	446	ug/kg dry	100	---	2090	---	---	15	30%	
Benzo(k)fluoranthene	**738**	223	446	ug/kg dry	100	---	905	---	---	20	30%	M-05
Benzo(g,h,i)perylene	**1150**	148	297	ug/kg dry	100	---	1080	---	---	7	30%	
Chrysene	**3530**	148	297	ug/kg dry	100	---	3420	---	---	3	30%	
Dibenz(a,h)anthracene	**280**	148	297	ug/kg dry	100	---	267	---	---	5	30%	J
Fluoranthene	**8140**	148	297	ug/kg dry	100	---	7720	---	---	5	30%	
Fluorene	**9240**	148	297	ug/kg dry	100	---	8500	---	---	8	30%	
Indeno(1,2,3-cd)pyrene	**1000**	148	297	ug/kg dry	100	---	954	---	---	5	30%	
1-Methylnaphthalene	**24700**	297	594	ug/kg dry	100	---	23400	---	---	6	30%	
2-Methylnaphthalene	**32200**	297	594	ug/kg dry	100	---	29700	---	---	8	30%	
Naphthalene	**51900**	297	594	ug/kg dry	100	---	48000	---	---	8	30%	
Phenanthrene	**25300**	148	297	ug/kg dry	100	---	24000	---	---	5	30%	
Pyrene	**13000**	148	297	ug/kg dry	100	---	12500	---	---	4	30%	
Carbazole	**676**	223	446	ug/kg dry	100	---	600	---	---	12	30%	
Dibenzofuran	**2280**	148	297	ug/kg dry	100	---	2130	---	---	7	30%	
2-Chlorophenol	ND	743	1480	ug/kg dry	100	---	ND	---	---	---	30%	
4-Chloro-3-methylphenol	ND	1480	2970	ug/kg dry	100	---	ND	---	---	---	30%	
2,4-Dichlorophenol	ND	743	1480	ug/kg dry	100	---	ND	---	---	---	30%	
2,4-Dimethylphenol	ND	743	1480	ug/kg dry	100	---	ND	---	---	---	30%	
2,4-Dinitrophenol	ND	3710	7430	ug/kg dry	100	---	ND	---	---	---	30%	
4,6-Dinitro-2-methylphenol	ND	3710	7430	ug/kg dry	100	---	ND	---	---	---	30%	
2-Methylphenol	ND	371	743	ug/kg dry	100	---	ND	---	---	---	30%	
3+4-Methylphenol(s)	ND	371	743	ug/kg dry	100	---	ND	---	---	---	30%	
2-Nitrophenol	ND	1480	2970	ug/kg dry	100	---	ND	---	---	---	30%	
4-Nitrophenol	ND	3060	3060	ug/kg dry	100	---	ND	---	---	---	30%	R-02
Pentachlorophenol (PCP)	ND	1480	2970	ug/kg dry	100	---	ND	---	---	---	30%	
Phenol	ND	297	594	ug/kg dry	100	---	ND	---	---	---	30%	

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Philip Nerenberg, Lab Director

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503-718-2323
ORELAP ID: **OR100062**

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3F1614 - 08 04 23 1136**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0058 - EPA 3546							**Soil**					
Duplicate (23G0058-DUP2)				Prepared: 07/05/23 13:04		Analyzed: 07/05/23 21:34						
QC Source Sample: Non-SDG (A3F1639-02)												
2,3,4,6-Tetrachlorophenol	ND	743	1480	ug/kg dry	100	---	ND	---	---	---	30%	
2,3,5,6-Tetrachlorophenol	ND	743	1480	ug/kg dry	100	---	ND	---	---	---	30%	
2,4,5-Trichlorophenol	ND	743	1480	ug/kg dry	100	---	ND	---	---	---	30%	
2,4,6-Trichlorophenol	ND	1480	1480	ug/kg dry	100	---	ND	---	---	---	30%	
Bis(2-ethylhexyl)phthalate	ND	2230	4460	ug/kg dry	100	---	ND	---	---	---	30%	
Butyl benzyl phthalate	ND	1480	2970	ug/kg dry	100	---	ND	---	---	---	30%	
Diethylphthalate	ND	1480	2970	ug/kg dry	100	---	ND	---	---	---	30%	
Dimethylphthalate	ND	1480	2970	ug/kg dry	100	---	ND	---	---	---	30%	
Di-n-butylphthalate	ND	1480	2970	ug/kg dry	100	---	ND	---	---	---	30%	
Di-n-octyl phthalate	ND	1480	2970	ug/kg dry	100	---	ND	---	---	---	30%	
N-Nitrosodimethylamine	ND	371	743	ug/kg dry	100	---	ND	---	---	---	30%	
N-Nitroso-di-n-propylamine	ND	371	743	ug/kg dry	100	---	ND	---	---	---	30%	
N-Nitrosodiphenylamine	ND	2020	2020	ug/kg dry	100	---	ND	---	---	---	30%	R-02
Bis(2-Chloroethoxy) methane	ND	371	743	ug/kg dry	100	---	ND	---	---	---	30%	
Bis(2-Chloroethyl) ether	ND	371	743	ug/kg dry	100	---	ND	---	---	---	30%	
2,2'-Oxybis(1-Chloropropane)	ND	371	743	ug/kg dry	100	---	ND	---	---	---	30%	
Hexachlorobenzene	ND	148	297	ug/kg dry	100	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	371	743	ug/kg dry	100	---	ND	---	---	---	30%	
Hexachlorocyclopentadiene	ND	743	1480	ug/kg dry	100	---	ND	---	---	---	30%	
Hexachloroethane	ND	371	743	ug/kg dry	100	---	ND	---	---	---	30%	
2-Chloronaphthalene	ND	148	297	ug/kg dry	100	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	371	743	ug/kg dry	100	---	ND	---	---	---	30%	
4-Bromophenyl phenyl ether	ND	371	743	ug/kg dry	100	---	ND	---	---	---	30%	
4-Chlorophenyl phenyl ether	ND	371	743	ug/kg dry	100	---	ND	---	---	---	30%	
Aniline	ND	743	1480	ug/kg dry	100	---	ND	---	---	---	30%	
4-Chloroaniline	ND	743	743	ug/kg dry	100	---	ND	---	---	---	30%	
2-Nitroaniline	ND	2970	5940	ug/kg dry	100	---	ND	---	---	---	30%	
3-Nitroaniline	ND	2970	5940	ug/kg dry	100	---	ND	---	---	---	30%	
4-Nitroaniline	ND	2970	5940	ug/kg dry	100	---	ND	---	---	---	30%	
Nitrobenzene	ND	1480	2970	ug/kg dry	100	---	ND	---	---	---	30%	
2,4-Dinitrotoluene	ND	1480	2970	ug/kg dry	100	---	ND	---	---	---	30%	
2,6-Dinitrotoluene	ND	1480	2970	ug/kg dry	100	---	ND	---	---	---	30%	
Benzoic acid	ND	18600	37100	ug/kg dry	100	---	ND	---	---	---	30%	

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Philip Nerenberg, Lab Director

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ORELAP ID: OR100062

ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.02.003	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0058 - EPA 3546							**Soil**					
Duplicate (23G0058-DUP2)			Prepared: 07/05/23 13:04 Analyzed: 07/05/23 21:34									
QC Source Sample: Non-SDG (A3F1639-02)												
Benzyl alcohol	ND	743	1480	ug/kg dry	100	---	ND	---	---	---	30%	
Isophorone	ND	371	743	ug/kg dry	100	---	ND	---	---	---	30%	
Azobenzene (1,2-DPH)	ND	371	743	ug/kg dry	100	---	ND	---	---	---	30%	
Bis(2-Ethylhexyl) adipate	ND	3710	7430	ug/kg dry	100	---	ND	---	---	---	30%	
3,3'-Dichlorobenzidine	ND	2970	5940	ug/kg dry	100	---	ND	---	---	---	30%	Q-52
1,2-Dinitrobenzene	ND	3710	7430	ug/kg dry	100	---	ND	---	---	---	30%	
1,3-Dinitrobenzene	ND	3710	7430	ug/kg dry	100	---	ND	---	---	---	30%	
1,4-Dinitrobenzene	ND	3710	7430	ug/kg dry	100	---	ND	---	---	---	30%	
Pyridine	ND	743	1480	ug/kg dry	100	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	371	743	ug/kg dry	100	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	371	743	ug/kg dry	100	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	371	743	ug/kg dry	100	---	ND	---	---	---	30%	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 66 %*		*Limits: 37-122 %*		*Dilution: 100x*					*S-05*
2-Fluorobiphenyl (Surr)			*108 %*		*44-120 %*		*"*					*S-05*
Phenol-d6 (Surr)			*74 %*		*33-122 %*		*"*					*S-05*
p-Terphenyl-d14 (Surr)			*96 %*		*54-127 %*		*"*					*S-05*
2-Fluorophenol (Surr)			*52 %*		*35-120 %*		*"*					*S-05*
2,4,6-Tribromophenol (Surr)			*159 %*		*39-132 %*		*"*					*S-05*
Matrix Spike (23G0058-MS2)			Prepared: 07/05/23 13:04 Analyzed: 07/06/23 12:28									
QC Source Sample: Non-SDG (A3F1639-05RE2)												
EPA 8270E												
Acenaphthene	472	6.04	12.1	ug/kg dry	4	605	ND	78	40-123%	---	---	
Acenaphthylene	479	6.04	12.1	ug/kg dry	4	605	ND	79	32-132%	---	---	
Anthracene	485	6.04	12.1	ug/kg dry	4	605	ND	80	47-123%	---	---	
Benz(a)anthracene	465	6.04	12.1	ug/kg dry	4	605	ND	77	49-126%	---	---	
Benzo(a)pyrene	452	9.08	18.2	ug/kg dry	4	605	ND	75	45-129%	---	---	
Benzo(b)fluoranthene	442	9.08	18.2	ug/kg dry	4	605	ND	73	45-132%	---	---	
Benzo(k)fluoranthene	442	9.08	18.2	ug/kg dry	4	605	ND	73	47-132%	---	---	
Benzo(g,h,i)perylene	470	6.04	12.1	ug/kg dry	4	605	ND	78	43-134%	---	---	
Chrysene	480	6.04	12.1	ug/kg dry	4	605	ND	79	50-124%	---	---	
Dibenz(a,h)anthracene	469	6.04	12.1	ug/kg dry	4	605	ND	78	45-134%	---	---	
Fluoranthene	491	6.04	12.1	ug/kg dry	4	605	ND	81	50-127%	---	---	

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Philip Nerenberg

Philip Nerenberg, Lab Director

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503-718-2323
ORELAP ID: **OR100062**

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3F1614 - 08 04 23 1136**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0058 - EPA 3546							**Soil**					
Matrix Spike (23G0058-MS2)			Prepared: 07/05/23 13:04		Analyzed: 07/06/23 12:28							
QC Source Sample: Non-SDG (A3F1639-05RE2)												
Fluorene	489	6.04	12.1	ug/kg dry	4	605	ND	81	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	446	6.04	12.1	ug/kg dry	4	605	ND	74	45-133%	---	---	
1-Methylnaphthalene	488	12.1	24.2	ug/kg dry	4	605	ND	81	40-120%	---	---	
2-Methylnaphthalene	505	12.1	24.2	ug/kg dry	4	605	ND	83	38-122%	---	---	
Naphthalene	484	12.1	24.2	ug/kg dry	4	605	ND	80	35-123%	---	---	
Phenanthrene	484	6.04	12.1	ug/kg dry	4	605	10.1	78	50-121%	---	---	
Pyrene	488	6.04	12.1	ug/kg dry	4	605	ND	81	47-127%	---	---	
Carbazole	502	9.08	18.2	ug/kg dry	4	605	ND	83	50-123%	---	---	
Dibenzofuran	478	6.04	12.1	ug/kg dry	4	605	ND	79	44-120%	---	---	
2-Chlorophenol	507	30.3	60.4	ug/kg dry	4	605	ND	84	34-121%	---	---	
4-Chloro-3-methylphenol	451	60.4	121	ug/kg dry	4	605	ND	75	45-122%	---	---	
2,4-Dichlorophenol	500	30.3	60.4	ug/kg dry	4	605	ND	83	40-122%	---	---	
2,4-Dimethylphenol	620	30.3	60.4	ug/kg dry	4	605	ND	102	30-127%	---	---	
2,4-Dinitrophenol	212	151	151	ug/kg dry	4	605	ND	35	10-137%	---	---	
4,6-Dinitro-2-methylphenol	490	151	303	ug/kg dry	4	605	ND	81	29-132%	---	---	
2-Methylphenol	502	15.1	30.3	ug/kg dry	4	605	ND	83	32-122%	---	---	
3+4-Methylphenol(s)	495	15.1	30.3	ug/kg dry	4	605	ND	82	34-120%	---	---	
2-Nitrophenol	610	60.4	121	ug/kg dry	4	605	ND	101	36-123%	---	---	
4-Nitrophenol	371	60.4	121	ug/kg dry	4	605	ND	61	30-132%	---	---	
Pentachlorophenol (PCP)	256	60.4	121	ug/kg dry	4	605	ND	42	25-133%	---	---	
Phenol	528	12.1	24.2	ug/kg dry	4	605	ND	87	34-121%	---	---	
2,3,4,6-Tetrachlorophenol	433	30.3	60.4	ug/kg dry	4	605	ND	72	44-125%	---	---	
2,3,5,6-Tetrachlorophenol	407	30.3	60.4	ug/kg dry	4	605	ND	67	40-120%	---	---	
2,4,5-Trichlorophenol	489	30.3	60.4	ug/kg dry	4	605	ND	81	41-124%	---	---	
2,4,6-Trichlorophenol	450	30.3	60.4	ug/kg dry	4	605	ND	74	39-126%	---	---	
Bis(2-ethylhexyl)phthalate	450	90.8	182	ug/kg dry	4	605	ND	74	51-133%	---	---	
Butyl benzyl phthalate	480	60.4	121	ug/kg dry	4	605	ND	79	48-132%	---	---	
Diethylphthalate	480	60.4	121	ug/kg dry	4	605	ND	79	50-124%	---	---	
Dimethylphthalate	495	60.4	121	ug/kg dry	4	605	ND	82	48-124%	---	---	
Di-n-butylphthalate	496	60.4	121	ug/kg dry	4	605	ND	82	51-128%	---	---	
Di-n-octyl phthalate	419	60.4	121	ug/kg dry	4	605	ND	69	45-140%	---	---	
N-Nitrosodimethylamine	398	15.1	30.3	ug/kg dry	4	605	ND	66	23-120%	---	---	
N-Nitroso-di-n-propylamine	466	15.1	30.3	ug/kg dry	4	605	ND	77	36-120%	---	---	

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Philip Nerenberg

Philip Nerenberg, Lab Director

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ORELAP ID: **OR100062**

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3F1614 - 08 04 23 1136**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0058 - EPA 3546							**Soil**					
Matrix Spike (23G0058-MS2)			Prepared: 07/05/23 13:04		Analyzed: 07/06/23 12:28							
QC Source Sample: Non-SDG (A3F1639-05RE2)												
N-Nitrosodiphenylamine	488	15.1	30.3	ug/kg dry	4	605	ND	81	38-127%	---	---	
Bis(2-Chloroethoxy) methane	468	15.1	30.3	ug/kg dry	4	605	ND	77	36-121%	---	---	
Bis(2-Chloroethyl) ether	461	15.1	30.3	ug/kg dry	4	605	ND	76	31-120%	---	---	
2,2'-Oxybis(1-Chloropropane)	447	15.1	30.3	ug/kg dry	4	605	ND	74	39-120%	---	---	
Hexachlorobenzene	531	6.04	12.1	ug/kg dry	4	605	ND	88	45-122%	---	---	
Hexachlorobutadiene	510	15.1	30.3	ug/kg dry	4	605	ND	84	32-123%	---	---	
Hexachlorocyclopentadiene	395	30.3	60.4	ug/kg dry	4	605	ND	65	10-140%	---	---	Q-31
Hexachloroethane	450	15.1	30.3	ug/kg dry	4	605	ND	74	28-120%	---	---	
2-Chloronaphthalene	471	6.04	12.1	ug/kg dry	4	605	ND	78	41-120%	---	---	
1,2,4-Trichlorobenzene	499	15.1	30.3	ug/kg dry	4	605	ND	82	34-120%	---	---	
4-Bromophenyl phenyl ether	533	15.1	30.3	ug/kg dry	4	605	ND	88	46-124%	---	---	
4-Chlorophenyl phenyl ether	504	15.1	30.3	ug/kg dry	4	605	ND	83	45-121%	---	---	
Aniline	313	30.3	60.4	ug/kg dry	4	605	ND	52	10-120%	---	---	Q-31
4-Chloroaniline	327	15.1	30.3	ug/kg dry	4	605	ND	54	17-120%	---	---	
2-Nitroaniline	483	121	242	ug/kg dry	4	605	ND	80	44-127%	---	---	
3-Nitroaniline	479	121	242	ug/kg dry	4	605	ND	79	33-120%	---	---	
4-Nitroaniline	458	121	242	ug/kg dry	4	605	ND	76	51-125%	---	---	
Nitrobenzene	476	60.4	121	ug/kg dry	4	605	ND	79	34-122%	---	---	
2,4-Dinitrotoluene	496	60.4	121	ug/kg dry	4	605	ND	82	48-126%	---	---	
2,6-Dinitrotoluene	484	60.4	121	ug/kg dry	4	605	ND	80	46-124%	---	---	
Benzoic acid	ND	758	1510	ug/kg dry	4	1210	ND		**10-140%**	---	---	Q-01
Benzyl alcohol	475	30.3	60.4	ug/kg dry	4	605	ND	78	29-122%	---	---	
Isophorone	461	15.1	30.3	ug/kg dry	4	605	ND	76	30-122%	---	---	
Azobenzene (1,2-DPH)	458	15.1	30.3	ug/kg dry	4	605	ND	76	39-125%	---	---	
Bis(2-Ethylhexyl) adipate	466	151	303	ug/kg dry	4	605	ND	77	61-121%	---	---	
3,3'-Dichlorobenzidine	1720	121	242	ug/kg dry	4	1210	ND	**142**	**22-121%**	---	---	Q-01, Q-31, Q-52
1,2-Dinitrobenzene	483	151	303	ug/kg dry	4	605	ND	80	44-120%	---	---	
1,3-Dinitrobenzene	510	151	303	ug/kg dry	4	605	ND	84	43-127%	---	---	
1,4-Dinitrobenzene	519	151	303	ug/kg dry	4	605	ND	86	37-132%	---	---	
Pyridine	398	30.3	60.4	ug/kg dry	4	605	ND	66	10-120%	---	---	
1,2-Dichlorobenzene	468	15.1	30.3	ug/kg dry	4	605	ND	77	33-120%	---	---	
1,3-Dichlorobenzene	465	15.1	30.3	ug/kg dry	4	605	ND	77	30-120%	---	---	
1,4-Dichlorobenzene	463	15.1	30.3	ug/kg dry	4	605	ND	76	31-120%	---	---	

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3F1614 - 08 04 23 1136**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0058 - EPA 3546							**Soil**					
Matrix Spike (23G0058-MS2)				Prepared: 07/05/23 13:04 Analyzed: 07/06/23 12:28								
QC Source Sample: Non-SDG (A3F1639-05RE2)												
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 78 %*	*Limits: 37-122 %*	*Dilution: 4x*							
2-Fluorobiphenyl (Surr)			*80 %*	*44-120 %*	*"*							
Phenol-d6 (Surr)			*85 %*	*33-122 %*	*"*							
p-Terphenyl-d14 (Surr)			*92 %*	*54-127 %*	*"*							
2-Fluorophenol (Surr)			*82 %*	*35-120 %*	*"*							
2,4,6-Tribromophenol (Surr)			*101 %*	*39-132 %*	*"*							*Q-41*

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project: **Blue Heron Paper Mill**
Project Number: **M0496.02.003**
Project Manager: **Jacob Faust**

Report ID:
A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0050 - EPA 3051A							**Soil**					
Blank (23G0050-BLK1)			Prepared: 07/05/23 06:44		Analyzed: 07/05/23 20:01							
EPA 6020B												
Arsenic	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Barium	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	0.200	mg/kg wet	10	---	---	---	---	---	---	
Chromium	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Lead	ND	---	0.200	mg/kg wet	10	---	---	---	---	---	---	
Mercury	ND	---	0.0800	mg/kg wet	10	---	---	---	---	---	---	
Selenium	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Silver	ND	---	0.200	mg/kg wet	10	---	---	---	---	---	---	
LCS (23G0050-BS1)			Prepared: 07/05/23 06:44		Analyzed: 07/05/23 20:06							
EPA 6020B												
Arsenic	48.7	---	1.00	mg/kg wet	10	50.0	---	97	80-120%	---	---	
Barium	52.1	---	1.00	mg/kg wet	10	50.0	---	104	80-120%	---	---	
Cadmium	48.7	---	0.200	mg/kg wet	10	50.0	---	97	80-120%	---	---	
Chromium	49.1	---	1.00	mg/kg wet	10	50.0	---	98	80-120%	---	---	
Lead	50.5	---	0.200	mg/kg wet	10	50.0	---	101	80-120%	---	---	
Mercury	0.970	---	0.0800	mg/kg wet	10	1.00	---	97	80-120%	---	---	
Selenium	24.3	---	1.00	mg/kg wet	10	25.0	---	97	80-120%	---	---	
Silver	23.3	---	0.200	mg/kg wet	10	25.0	---	93	80-120%	---	---	
Duplicate (23G0050-DUP1)			Prepared: 07/05/23 06:44		Analyzed: 07/05/23 22:02							
QC Source Sample: Non-SDG (A3F1508-01)												
Arsenic	**5.68**	---	1.13	mg/kg dry	10	---	6.31	---	---	11	20%	
Barium	**132**	---	1.13	mg/kg dry	10	---	136	---	---	3	20%	
Cadmium	ND	---	0.226	mg/kg dry	10	---	0.138	---	---	***	20%	
Chromium	**17.6**	---	1.13	mg/kg dry	10	---	18.5	---	---	5	20%	
Lead	**18.4**	---	0.226	mg/kg dry	10	---	14.0	---	---	**27**	**20%**	Q-17
Mercury	ND	---	0.0905	mg/kg dry	10	---	ND	---	---	---	20%	
Selenium	ND	---	1.13	mg/kg dry	10	---	ND	---	---	---	20%	
Silver	ND	---	0.226	mg/kg dry	10	---	ND	---	---	---	20%	
Matrix Spike (23G0050-MS1)			Prepared: 07/05/23 06:44		Analyzed: 07/05/23 22:07							

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Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.02.003	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0050 - EPA 3051A							**Soil**					
Matrix Spike (23G0050-MS1)			Prepared: 07/05/23 06:44 Analyzed: 07/05/23 22:07									
QC Source Sample: Non-SDG (A3F1508-01)												
EPA 6020B												
Arsenic	59.3	---	1.13	mg/kg dry	10	56.7	6.31	93	75-125%	---	---	
Barium	193	---	1.13	mg/kg dry	10	56.7	136	102	75-125%	---	---	
Cadmium	52.4	---	0.227	mg/kg dry	10	56.7	0.138	92	75-125%	---	---	
Chromium	71.9	---	1.13	mg/kg dry	10	56.7	18.5	94	75-125%	---	---	
Lead	67.3	---	0.227	mg/kg dry	10	56.7	14.0	94	75-125%	---	---	
Mercury	1.06	---	0.0907	mg/kg dry	10	1.13	ND	93	75-125%	---	---	
Selenium	25.4	---	1.13	mg/kg dry	10	28.3	ND	89	75-125%	---	---	
Silver	25.1	---	0.227	mg/kg dry	10	28.3	ND	88	75-125%	---	---	

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ANALYTICAL REPORT

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Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3F1614 - 08 04 23 1136**

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0173 - EPA 3051A							**Soil**					
Blank (23G0173-BLK1)			Prepared: 07/07/23 10:31 Analyzed: 07/07/23 20:59									
EPA 6020B												
Arsenic	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Barium	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	0.200	mg/kg wet	10	---	---	---	---	---	---	
Chromium	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Lead	ND	---	0.200	mg/kg wet	10	---	---	---	---	---	---	
Mercury	ND	---	0.0800	mg/kg wet	10	---	---	---	---	---	---	
Selenium	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Silver	ND	---	0.200	mg/kg wet	10	---	---	---	---	---	---	
LCS (23G0173-BS1)			Prepared: 07/07/23 10:31 Analyzed: 07/07/23 21:04									
EPA 6020B												
Arsenic	47.9	---	1.00	mg/kg wet	10	50.0	---	96	80-120%	---	---	
Barium	50.7	---	1.00	mg/kg wet	10	50.0	---	101	80-120%	---	---	
Cadmium	47.4	---	0.200	mg/kg wet	10	50.0	---	95	80-120%	---	---	
Chromium	48.6	---	1.00	mg/kg wet	10	50.0	---	97	80-120%	---	---	
Lead	53.5	---	0.200	mg/kg wet	10	50.0	---	107	80-120%	---	---	
Mercury	1.07	---	0.0800	mg/kg wet	10	1.00	---	107	80-120%	---	---	
Selenium	24.9	---	1.00	mg/kg wet	10	25.0	---	100	80-120%	---	---	
Silver	24.7	---	0.200	mg/kg wet	10	25.0	---	99	80-120%	---	---	
Duplicate (23G0173-DUP1)			Prepared: 07/07/23 10:31 Analyzed: 07/07/23 21:14									
QC Source Sample: Non-SDG (A3F1424-15)												
Arsenic	**2.55**	---	1.42	mg/kg dry	10	---	1.99	---	---	**25**	**20%**	Q-05
Barium	**318**	---	1.42	mg/kg dry	10	---	316	---	---	0.3	20%	
Cadmium	**1.14**	---	0.284	mg/kg dry	10	---	0.856	---	---	**28**	**20%**	Q-05
Chromium	**31.4**	---	1.42	mg/kg dry	10	---	31.1	---	---	0.9	20%	
Lead	**14.5**	---	0.284	mg/kg dry	10	---	14.1	---	---	3	20%	
Mercury	ND	---	0.114	mg/kg dry	10	---	0.0879	---	---	***	20%	
Selenium	ND	---	1.42	mg/kg dry	10	---	ND	---	---	---	20%	
Silver	ND	---	0.284	mg/kg dry	10	---	0.169	---	---	***	20%	
Matrix Spike (23G0173-MS1)			Prepared: 07/07/23 10:31 Analyzed: 07/07/23 21:20									

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Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.02.003	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0173 - EPA 3051A							Soil					
Matrix Spike (23G0173-MS1)			Prepared: 07/07/23 10:31 Analyzed: 07/07/23 21:20									
QC Source Sample: Non-SDG (A3F1424-15)												
EPA 6020B												
Arsenic	74.3	---	1.49	mg/kg dry	10	74.4	1.99	97	75-125%	---	---	
Barium	383	---	1.49	mg/kg dry	10	74.4	316	90	75-125%	---	---	
Cadmium	72.8	---	0.298	mg/kg dry	10	74.4	0.856	97	75-125%	---	---	
Chromium	103	---	1.49	mg/kg dry	10	74.4	31.1	97	75-125%	---	---	
Lead	89.3	---	0.298	mg/kg dry	10	74.4	14.1	101	75-125%	---	---	
Mercury	1.56	---	0.119	mg/kg dry	10	1.49	0.0879	99	75-125%	---	---	
Selenium	37.0	---	1.49	mg/kg dry	10	37.2	ND	99	75-125%	---	---	
Silver	37.2	---	0.298	mg/kg dry	10	37.2	0.169	99	75-125%	---	---	

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Portland, OR 97232	Project Manager: Jacob Faust	A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F1141 - EPA 1311/3015A							Soil					
Blank (23F1141-BLK1)			Prepared: 06/30/23 11:00 Analyzed: 07/03/23 14:49									
1311/6020B												
Arsenic	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLP
Barium	ND	---	5.00	mg/L	10	---	---	---	---	---	---	TCLP
Cadmium	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLP
Chromium	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLP
Lead	ND	---	0.0500	mg/L	10	---	---	---	---	---	---	TCLP
Mercury	ND	---	0.00700	mg/L	10	---	---	---	---	---	---	TCLP
Selenium	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLP
Silver	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLP
LCS (23F1141-BS1)			Prepared: 06/30/23 11:00 Analyzed: 07/03/23 14:54									
1311/6020B												
Arsenic	5.04	---	0.100	mg/L	10	5.00	---	101	80-120%	---	---	TCLP
Barium	10.7	---	5.00	mg/L	10	10.0	---	107	80-120%	---	---	TCLP
Cadmium	1.00	---	0.100	mg/L	10	1.00	---	100	80-120%	---	---	TCLP
Chromium	4.93	---	0.100	mg/L	10	5.00	---	99	80-120%	---	---	TCLP
Lead	5.43	---	0.0500	mg/L	10	5.00	---	109	80-120%	---	---	TCLP
Mercury	0.101	---	0.00700	mg/L	10	0.100	---	101	80-120%	---	---	TCLP
Selenium	0.999	---	0.100	mg/L	10	1.00	---	100	80-120%	---	---	TCLP
Duplicate (23F1141-DUP1)			Prepared: 06/30/23 11:00 Analyzed: 07/03/23 15:05									
QC Source Sample: Concrete-0628 (A3F1614-01)												
1311/6020B												
Arsenic	ND	---	0.100	mg/L	10	---	ND	---	---	---	20%	
Barium	ND	---	5.00	mg/L	10	---	ND	---	---	---	20%	
Cadmium	ND	---	0.100	mg/L	10	---	ND	---	---	---	20%	
Chromium	ND	---	0.100	mg/L	10	---	ND	---	---	---	20%	
Lead	ND	---	0.0500	mg/L	10	---	ND	---	---	---	20%	
Mercury	ND	---	0.00700	mg/L	10	---	ND	---	---	---	20%	
Selenium	ND	---	0.100	mg/L	10	---	ND	---	---	---	20%	
Silver	ND	---	0.100	mg/L	10	---	ND	---	---	---	20%	
Matrix Spike (23F1141-MS1)			Prepared: 06/30/23 11:00 Analyzed: 07/03/23 15:10									

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Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.02.003	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F1141 - EPA 1311/3015A							Soil					
Matrix Spike (23F1141-MS1)			Prepared: 06/30/23 11:00 Analyzed: 07/03/23 15:10									
QC Source Sample: Concrete-0628 (A3F1614-01)												
1311/6020B												
Arsenic	5.14	---	0.100	mg/L	10	5.00	ND	103	50-150%	---	---	
Barium	11.5	---	5.00	mg/L	10	10.0	ND	115	50-150%	---	---	
Cadmium	1.03	---	0.100	mg/L	10	1.00	ND	103	50-150%	---	---	
Chromium	5.02	---	0.100	mg/L	10	5.00	ND	100	50-150%	---	---	
Lead	5.51	---	0.0500	mg/L	10	5.00	ND	110	50-150%	---	---	
Mercury	0.108	---	0.00700	mg/L	10	0.100	ND	108	50-150%	---	---	
Selenium	1.00	---	0.100	mg/L	10	1.00	ND	100	50-150%	---	---	
Silver	0.643	---	0.100	mg/L	10	1.00	ND	64	50-150%	---	---	

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Portland, OR 97232	Project Manager: **Jacob Faust**	**A3F1614 - 08 04 23 1136**

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0113 - EPA 1311/3015A							**Soil**					
Blank (23G0113-BLK1)			Prepared: 07/06/23 09:38		Analyzed: 07/06/23 11:48							
1311/6020B												
Silver	ND	---	0.100	mg/L	5	---	---	---	---	---	---	TCLP
LCS (23G0113-BS2)			Prepared: 07/06/23 09:38		Analyzed: 07/06/23 12:14							
1311/6020B												
Silver	1.97	---	0.200	mg/L	10	2.00	---	99	80-120%	---	---	Q-16, TCLP
Duplicate (23G0113-DUP1)			Prepared: 07/06/23 09:38		Analyzed: 07/06/23 12:03							
QC Source Sample: Concrete-0628 (A3F1614-01RE1)												
1311/6020B												
Silver	ND	---	0.100	mg/L	5	---	ND	---	---	---	20%	
Matrix Spike (23G0113-MS1)			Prepared: 07/06/23 09:38		Analyzed: 07/06/23 12:08							
QC Source Sample: Concrete-0628 (A3F1614-01RE1)												
1311/6020B												
Silver	2.01	---	0.200	mg/L	10	2.00	ND	100	50-150%	---	---	

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ORELAP ID: OR100062

ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.02.003	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0266 - EPA 1311/3015A							Soil					
Blank (23G0266-BLK1)			Prepared: 07/11/23 10:27 Analyzed: 07/11/23 16:35									
1311/6020B												
Arsenic	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLPa
Barium	ND	---	5.00	mg/L	10	---	---	---	---	---	---	TCLPa
Cadmium	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLPa
Chromium	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLPa
Lead	ND	---	0.0500	mg/L	10	---	---	---	---	---	---	TCLPa
Mercury	ND	---	0.00700	mg/L	10	---	---	---	---	---	---	TCLPa
Selenium	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLPa
Silver	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLPa
LCS (23G0266-BS1)			Prepared: 07/11/23 10:27 Analyzed: 07/11/23 16:40									
1311/6020B												
Arsenic	5.06	---	0.100	mg/L	10	5.00	---	101	80-120%	---	---	TCLPa
Barium	10.7	---	5.00	mg/L	10	10.0	---	107	80-120%	---	---	TCLPa
Cadmium	0.997	---	0.100	mg/L	10	1.00	---	100	80-120%	---	---	TCLPa
Chromium	4.82	---	0.100	mg/L	10	5.00	---	96	80-120%	---	---	TCLPa
Lead	5.15	---	0.0500	mg/L	10	5.00	---	103	80-120%	---	---	TCLPa
Mercury	0.0999	---	0.00700	mg/L	10	0.100	---	100	80-120%	---	---	TCLPa
Selenium	1.04	---	0.100	mg/L	10	1.00	---	104	80-120%	---	---	TCLPa
Silver	0.962	---	0.100	mg/L	10	1.00	---	96	80-120%	---	---	TCLPa
Duplicate (23G0266-DUP1)			Prepared: 07/11/23 10:27 Analyzed: 07/11/23 16:50									
QC Source Sample: DS-16 (A3F1614-03)												
1311/6020B												
Arsenic	ND	---	0.100	mg/L	10	---	ND	---	---	---	20%	
Barium	ND	---	5.00	mg/L	10	---	ND	---	---	---	20%	
Cadmium	ND	---	0.100	mg/L	10	---	ND	---	---	---	20%	
Chromium	ND	---	0.100	mg/L	10	---	ND	---	---	---	20%	
Lead	ND	---	0.0500	mg/L	10	---	ND	---	---	---	20%	
Mercury	ND	---	0.00700	mg/L	10	---	ND	---	---	---	20%	
Selenium	ND	---	0.100	mg/L	10	---	ND	---	---	---	20%	
Silver	ND	---	0.100	mg/L	10	---	ND	---	---	---	20%	
Matrix Spike (23G0266-MS1)			Prepared: 07/11/23 10:27 Analyzed: 07/11/23 16:55									

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Apex Laboratories, LLC
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ANALYTICAL REPORT

AMENDED REPORT

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3140 NE Broadway Street	Project Number: M0496.02.003	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3F1614 - 08 04 23 1136

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0266 - EPA 1311/3015A							**Soil**					
Matrix Spike (23G0266-MS1)			Prepared: 07/11/23 10:27 Analyzed: 07/11/23 16:55									
QC Source Sample: DS-16 (A3F1614-03)												
1311/6020B												
Arsenic	5.10	---	0.100	mg/L	10	5.00	ND	102	50-150%	---	---	
Barium	11.7	---	5.00	mg/L	10	10.0	ND	117	50-150%	---	---	
Cadmium	1.01	---	0.100	mg/L	10	1.00	ND	101	50-150%	---	---	
Chromium	4.89	---	0.100	mg/L	10	5.00	ND	98	50-150%	---	---	
Lead	5.28	---	0.0500	mg/L	10	5.00	ND	106	50-150%	---	---	
Mercury	0.105	---	0.00700	mg/L	10	0.100	ND	105	50-150%	---	---	
Selenium	1.01	---	0.100	mg/L	10	1.00	ND	101	50-150%	---	---	
Silver	0.989	---	0.100	mg/L	10	1.00	ND	99	50-150%	---	---	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23F1093 - Total Solids (Dry Weight) - 2022							**Soil**					
Duplicate (23F1093-DUP1)			Prepared: 06/29/23 10:11		Analyzed: 06/30/23 07:24							**PRO**
QC Source Sample: Non-SDG (A3F1526-02)												
% Solids	**97.9**	---	1.00	%	1	---	97.9	---	---	0.02	10%	
Duplicate (23F1093-DUP2)			Prepared: 06/29/23 10:11		Analyzed: 06/30/23 07:24							**PRO**
QC Source Sample: Non-SDG (A3F1526-04)												
% Solids	**97.5**	---	1.00	%	1	---	97.5	---	---	0.05	10%	
Duplicate (23F1093-DUP3)			Prepared: 06/29/23 10:11		Analyzed: 06/30/23 07:24							**PRO, TEMP**
QC Source Sample: Non-SDG (A3F1547-04)												
% Solids	**99.0**	---	1.00	%	1	---	99.0	---	---	0.004	10%	
Duplicate (23F1093-DUP4)			Prepared: 06/29/23 19:13		Analyzed: 06/30/23 07:24							
QC Source Sample: Non-SDG (A3F1667-01)												
% Solids	**82.7**	---	1.00	%	1	---	81.1	---	---	2	10%	
Duplicate (23F1093-DUP5)			Prepared: 06/29/23 19:13		Analyzed: 06/30/23 07:24							
QC Source Sample: Non-SDG (A3F1667-02)												
% Solids	**82.1**	---	1.00	%	1	---	81.9	---	---	0.3	10%	

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

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SAMPLE PREPARATION INFORMATION

Hydrocarbon Identification Screen by NWTPH-HCID

Prep: NWTPH-HCID (Soil)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23F1079							
A3F1614-01	Soil	NWTPH-HCID	06/28/23 14:20	06/29/23 06:26	10.03g/10mL	10g/10mL	1.00

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23G0138							
A3F1614-01	Soil	NWTPH-Dx	06/28/23 14:20	07/06/23 14:59	10.26g/5mL	10g/5mL	0.98

Polychlorinated Biphenyls by EPA 8082A

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23F1147							
A3F1614-01	Soil	EPA 8082A	06/28/23 14:20	06/30/23 09:59	10.14g/5mL	10g/5mL	0.99
Batch: 23G0216							
A3F1614-02	Soil	EPA 8082A	06/28/23 14:25	07/10/23 09:47	10.4g/5mL	10g/5mL	0.96
A3F1614-03	Soil	EPA 8082A	06/28/23 14:30	07/10/23 09:47	5.06g/5mL	10g/5mL	1.98
A3F1614-04	Soil	EPA 8082A	06/28/23 14:35	07/10/23 09:47	10.21g/5mL	10g/5mL	0.98
A3F1614-05	Soil	EPA 8082A	06/28/23 14:40	07/10/23 09:47	10.01g/5mL	10g/5mL	1.00

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

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23G0217							
A3F1614-02	Soil	EPA 8270E SIM	06/28/23 14:25	07/10/23 09:49	10.06g/5mL	10g/5mL	0.99
A3F1614-03	Soil	EPA 8270E SIM	06/28/23 14:30	07/10/23 09:49	5.16g/5mL	10g/5mL	1.94
A3F1614-04	Soil	EPA 8270E SIM	06/28/23 14:35	07/10/23 09:49	10.03g/5mL	10g/5mL	1.00
A3F1614-05	Soil	EPA 8270E SIM	06/28/23 14:40	07/10/23 09:49	10.31g/5mL	10g/5mL	0.97

Semivolatile Organic Compounds by EPA 8270E

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor

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SAMPLE PREPARATION INFORMATION

Semivolatile Organic Compounds by EPA 8270E

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23G0058							
A3F1614-01RE1	Soil	EPA 8270E	06/28/23 14:20	07/05/23 13:04	15.22g/2mL	15g/2mL	0.99

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23G0050							
A3F1614-01RE1	Soil	EPA 6020B	06/28/23 14:20	07/05/23 06:44	0.479g/50mL	0.5g/50mL	1.04
Batch: 23G0173							
A3F1614-02	Soil	EPA 6020B	06/28/23 14:25	07/07/23 10:31	0.481g/50mL	0.5g/50mL	1.04
A3F1614-03	Soil	EPA 6020B	06/28/23 14:30	07/07/23 10:31	0.503g/50mL	0.5g/50mL	0.99
A3F1614-04	Soil	EPA 6020B	06/28/23 14:35	07/07/23 10:31	0.485g/50mL	0.5g/50mL	1.03
A3F1614-05	Soil	EPA 6020B	06/28/23 14:40	07/07/23 10:31	0.496g/50mL	0.5g/50mL	1.01

TCLP Metals by EPA 6020B (ICPMS)

Prep: EPA 1311/3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23F1141							
A3F1614-01	Soil	1311/6020B	06/28/23 14:20	06/30/23 11:00	10mL/50mL	10mL/50mL	1.00
Batch: 23G0113							
A3F1614-01RE1	Soil	1311/6020B	06/28/23 14:20	07/06/23 09:38	5mL/50mL	10mL/50mL	2.00
Batch: 23G0266							
A3F1614-03	Soil	1311/6020B	06/28/23 14:30	07/11/23 10:27	10mL/50mL	10mL/50mL	1.00
A3F1614-05	Soil	1311/6020B	06/28/23 14:40	07/11/23 10:27	10mL/50mL	10mL/50mL	1.00

Percent Dry Weight

Prep: Total Solids (Dry Weight) - 2022

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23F1093							
A3F1614-01	Soil	EPA 8000D	06/28/23 14:20	06/29/23 10:11			NA
A3F1614-02	Soil	EPA 8000D	06/28/23 14:25	06/29/23 10:11			NA
A3F1614-03	Soil	EPA 8000D	06/28/23 14:30	06/29/23 10:11			NA
A3F1614-04	Soil	EPA 8000D	06/28/23 14:35	06/29/23 10:11			NA

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SAMPLE PREPARATION INFORMATION

Percent Dry Weight

Prep: Total Solids (Dry Weight) - 2022

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A3F1614-05	Soil	EPA 8000D	06/28/23 14:40	06/29/23 10:11			NA

TCLP Extraction by EPA 1311

Prep: EPA 1311 (TCLP)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23F1124							
A3F1614-01	Soil	EPA 1311	06/28/23 14:20	06/29/23 18:03	100g/2000.8g	100g/2000g	NA
Batch: 23G0219							
A3F1614-03	Soil	EPA 1311	06/28/23 14:30	07/10/23 13:53	100g/2000g	100g/2000g	NA
A3F1614-05	Soil	EPA 1311	06/28/23 14:40	07/10/23 13:53	100g/2000.3g	100g/2000g	NA

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QUALIFIER DEFINITIONS

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

Apex Laboratories

A-01	Diesel result is impacted by overlap from Oil Range product.
C-07	Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
COMP	Analyzed sample is a composite of discrete samples that was performed in the laboratory.
F-13	The chromatographic pattern does not resemble the fuel standard used for quantitation
J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
M-05	Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
P-09	Due to weathering and/or the presence of an unknown mixture of PCB Congeners, the pattern does not match the standard used for calibration. Results are Estimated and based on the closest matching Aroclor.
P-10	Result estimated due to the presence of multiple PCB Aroclors and/or matrix interference.
P-12	Result estimated due to the presence of multiple PCB Aroclors and/or PCB congeners not defined as Aroclors.
PRO	Sample has undergone sample processing prior to extraction and analysis.
Q-01	Spike recovery and/or RPD is outside acceptance limits.
Q-04	Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
Q-05	Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
Q-16	Reanalysis of an original Batch QC sample.
Q-17	RPD between original and duplicate sample is outside of established control limits.
Q-29	Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
Q-31	Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
Q-41	Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
Q-52	Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
R-02	The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
S-01	Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
S-03	Sample re-extract, or the analysis of an associated Batch QC sample, confirms surrogate failure due to sample matrix effect.
S-05	Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
TCLP	This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23F1124.

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Philip Nerenberg

Philip Nerenberg, Lab Director

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TCLPa This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23G0219.

TEMP Sample was received or stored outside of recommended temperature.

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

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

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

" dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

" wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

Results for Volatiles analyses on soils and sediments that are reported on a “dry weight” basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an “As Received” basis do not have the WMS correction applied, as dry weight was not performed.

QC Source:

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

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

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

-Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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

ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3F1614 - 08 04 23 1136**

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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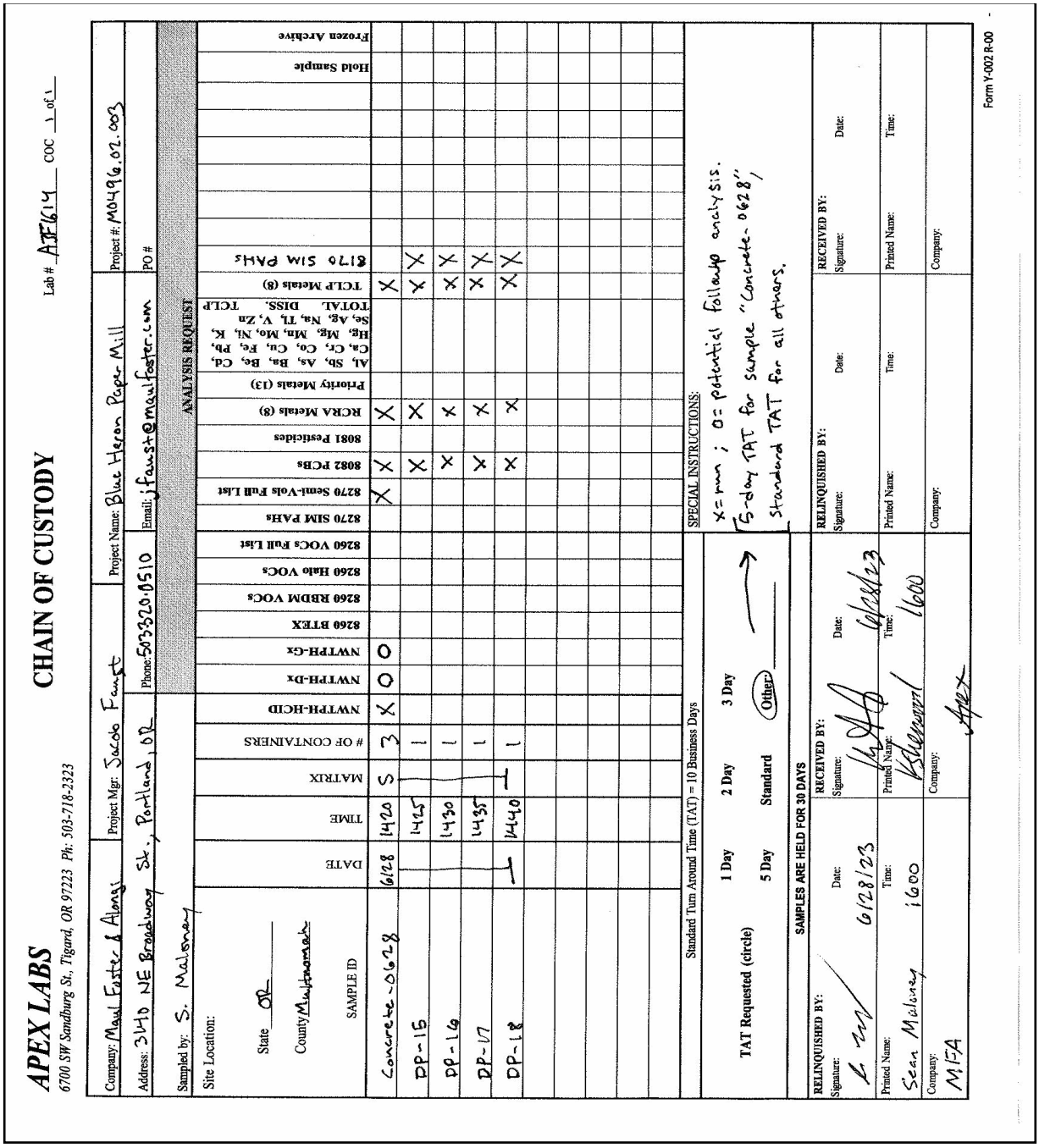

APEX LABS
6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

CHAIN OF CUSTODY

Lab # A3F1614 COC 1 of 1

Company: Maul Foster & Alongi | Project Mgr: Jacob Faust | Project Name: Blue Heron Paper Mill | Project #: M0496.02.003
Address: 3140 NE Broadway St., Portland, OR | Phone: 503.520.0510 | Email: jfaust@maulfoster.com | PO #
Sampled by: S. Maloney

ANALYSIS REQUEST

Site Location: State OR County Multnomah	SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pesticides	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS. TCLP	TCLP Metals (8)	8170 SIM PAHs	Hold Sample	Frozen Archive
	Concrete-062823	6/28	1420	S	3	X	O							X			X			X		
	DP-15		1425		1										X		X			X		
	DP-16		1430		1										X		X			X		
	DP-17		1435		1										X		X			X		
	DP-18		1440		1										X		X			X		

Standard Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): 1 Day | 2 Day | 3 Day | 5 Day | Standard | (Other: ____)

SPECIAL INSTRUCTIONS:
X = mm ; O = potential follow up analysis.
5-day TAT for sample "Concrete-062823"
Standard TAT for all others.

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY:	Date:	RECEIVED BY:	Date:	RELINQUISHED BY:	Date:	RECEIVED BY:	Date:
Signature:		Signature:		Signature:		Signature:	
Printed Name:	Time:	Printed Name:	Time:	Printed Name:	Time:	Printed Name:	Time:
Company:		Company:		Company:		Company:	

Form Y-002 R-00

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Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

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Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3F1614 - 08 04 23 1136**

Philip Nerenberg A3F1614

Subject: FW: Blue Heron report/EDD (A3F1614)

From: Mary Benzinger [mailto:mbenzinger@maulfoster.com]
Sent: Thursday, August 3, 2023 1:47 PM
To: Philip Nerenberg
Subject: RE: Blue Heron report/EDD (A3F1614)

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Philip,
The sample names on the COC submitted for A3F1614 were incorrect; they should have been "DS-" instead of "DP-."
Could we have the following names corrected and the report reissued? Would be great to get a revised EDD as well, but I can manually correct if that makes it easier.

Current Sample ID	Revised Sample ID
(no change to "Concrete-0628"	(no change)
DP-15	DS-15
DP-16	DS-16
DP-17	DS-17
DP-18	DS-18

Thank you,

MARY BENZINGER | MAUL FOSTER & ALONGI, INC.
Senior Chemist
pronouns: she/her
m. 503 319 7132

MAUL FOSTER ALONGI

109 East 13th Street, Vancouver, WA 98660
www.maulfoster.com

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Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

AMENDED REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3F1614 - 08 04 23 1136**

APEX LABS COOLER RECEIPT FORM

Client: Maul Foster & Alongi Element WO#: A3F1614

Project/Project #: Blue Heron Paper Mill / M0496.02.003

Delivery Info:

Date/time received: 6/28/23 @ 1600 By: [illegible]

Delivered by: Apex__Client X ESS__FedEx__UPS__Radio__Morgan__SDS__Evergreen__Other__

Cooler Inspection Date/time inspected: 6/28/23 @ 1600 By: [illegible]

Chain of Custody included? Yes Y No

Signed/dated by client? Yes X No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	5.5						
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Real						
Condition (In/Out):	In						

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

Green dots applied to out of temperature samples? Yes/No

Out of temperature samples form initiated? Yes/No

Sample Inspection: Date/time inspected: 6.28.23 @ 1636 By: DJS

All samples intact? Yes X No ___ Comments:

Bottle labels/COCs agree? Yes X DJS 6.28.23 No X Comments: PP DP-15 through DP-18 Container ID reads DS-

COC/container discrepancies form initiated? Yes ___ No X

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

Do VOA vials have visible headspace? Yes ___ No ___ NA X

Comments

Water samples: pH checked: Yes___No___NA X pH appropriate? Yes___No___NA X

Comments:

Additional information:

Labeled by: DJS Witness: [illegible] Cooler Inspected by: [illegible]

Form Y-003 R-00

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Wednesday, July 26, 2023

Jacob Faust
Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

RE: A3G1249 - Blue Heron Paper Mill - M0496.02.003

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3G1249, which was received by the laboratory on 7/18/2023 at 11:16:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler	9.3	degC

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

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3G1249 - 07 26 23 1642**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DS-17-071823	**A3G1249-01**	**Soil**	**07/18/23 10:30**	**07/18/23 11:16**

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

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3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3G1249 - 07 26 23 1642**

ANALYTICAL SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DS-17-071823 (A3G1249-01)				**Matrix: Soil**				
Batch: 23G0784								
Lead	ND	---	0.0500	mg/L	10	07/25/23 20:05	1311/6020B	

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

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3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3G1249 - 07 26 23 1642**

ANALYTICAL SAMPLE RESULTS

TCLP Extraction by EPA 1311

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DS-17-071823 (A3G1249-01)				**Matrix: Soil**		**Batch: 23G0676**		
TCLP Extraction	PREP	---		N/A	1	07/24/23 17:36	EPA 1311	

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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APEX LABORATORIES

Apex Laboratories, LLC
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ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3G1249 - 07 26 23 1642**

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0784 - EPA 1311/3015A								**Solid**				
Blank (23G0784-BLK1)			Prepared: 07/25/23 15:24		Analyzed: 07/25/23 19:03							
1311/6020B												
Lead	ND	---	0.0500	mg/L	10	---	---	---	---	---	---	TCLP
LCS (23G0784-BS1)			Prepared: 07/25/23 15:24		Analyzed: 07/25/23 19:08							
1311/6020B												
Lead	5.35	---	0.0500	mg/L	10	5.00	---	107	80-120%	---	---	TCLP
Duplicate (23G0784-DUP1)			Prepared: 07/25/23 15:24		Analyzed: 07/25/23 20:10							
QC Source Sample: DS-17-071823 (A3G1249-01)												
1311/6020B												
Lead	ND	---	0.0500	mg/L	10	---	0.0324	---	---	***	20%	
Matrix Spike (23G0784-MS1)			Prepared: 07/25/23 15:24		Analyzed: 07/25/23 20:15							
QC Source Sample: DS-17-071823 (A3G1249-01)												
1311/6020B												
Lead	5.56	---	0.0500	mg/L	10	5.00	0.0324	111	50-150%	---	---	
Matrix Spike (23G0784-MS2)			Prepared: 07/25/23 15:24		Analyzed: 07/25/23 19:18							
QC Source Sample: Non-SDG (A3G0748-03)												
1311/6020B												
Lead	5.27	---	0.0500	mg/L	10	5.00	ND	105	50-150%	---	---	COMP,TCLP a
Matrix Spike (23G0784-MS3)			Prepared: 07/25/23 15:24		Analyzed: 07/25/23 19:39							
QC Source Sample: Non-SDG (A3G1199-01)												
1311/6020B												
Lead	5.18	---	0.0500	mg/L	10	5.00	ND	104	50-150%	---	---	CONT
Matrix Spike (23G0784-MS4)			Prepared: 07/25/23 15:24		Analyzed: 07/25/23 19:49							
QC Source Sample: Non-SDG (A3G1200-01)												
1311/6020B												
Lead	5.47	---	0.0500	mg/L	10	5.00	ND	109	50-150%	---	---	

Apex Laboratories

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.02.003	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3G1249 - 07 26 23 1642

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0784 - EPA 1311/3015A							**Solid**					
Matrix Spike (23G0784-MS5)			Prepared: 07/25/23 15:24		Analyzed: 07/25/23 20:00							
QC Source Sample: Non-SDG (A3G1242-02)												
1311/6020B												
Lead	5.63	---	0.0500	mg/L	10	5.00	0.270	107	50-150%	---	---	CONT

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ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3G1249 - 07 26 23 1642**

SAMPLE PREPARATION INFORMATION

TCLP Metals by EPA 6020B (ICPMS)

Prep: EPA 1311/3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23G0784							
A3G1249-01	Soil	1311/6020B	07/18/23 10:30	07/25/23 15:24	10mL/50mL	10mL/50mL	1.00

TCLP Extraction by EPA 1311

Prep: EPA 1311 (TCLP)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23G0676							
A3G1249-01	Soil	EPA 1311	07/18/23 10:30	07/24/23 17:36	100g/2000.1g	100g/2000g	NA

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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QUALIFIER DEFINITIONS

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

Apex Laboratories

COMP	Analyzed sample is a composite of discrete samples that was performed in the laboratory.
CONT	The Sample Container provided for this analysis was not provided by Apex Laboratories, and has not been verified as part of the Apex Quality System.
TCLP	This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23G0676.
TCLPa	Limited sample volume. Leachate was prepared using less than the specified amount of sample per EPA 1311 or 1312. For consistency in leaching, the standard 20x ratio of sample to leachate fluid was maintained. Results may not meet regulatory requirements.

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

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

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

" dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

" wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

Results for Volatiles analyses on soils and sediments that are reported on a “dry weight” basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an “As Received” basis do not have the WMS correction applied, as dry weight was not performed.

QC Source:

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

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

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Laboratories

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Philip Nerenberg

Philip Nerenberg, Lab Director

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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

-Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

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Philip Nerenberg, Lab Director

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

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3G1249 - 07 26 23 1642**

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

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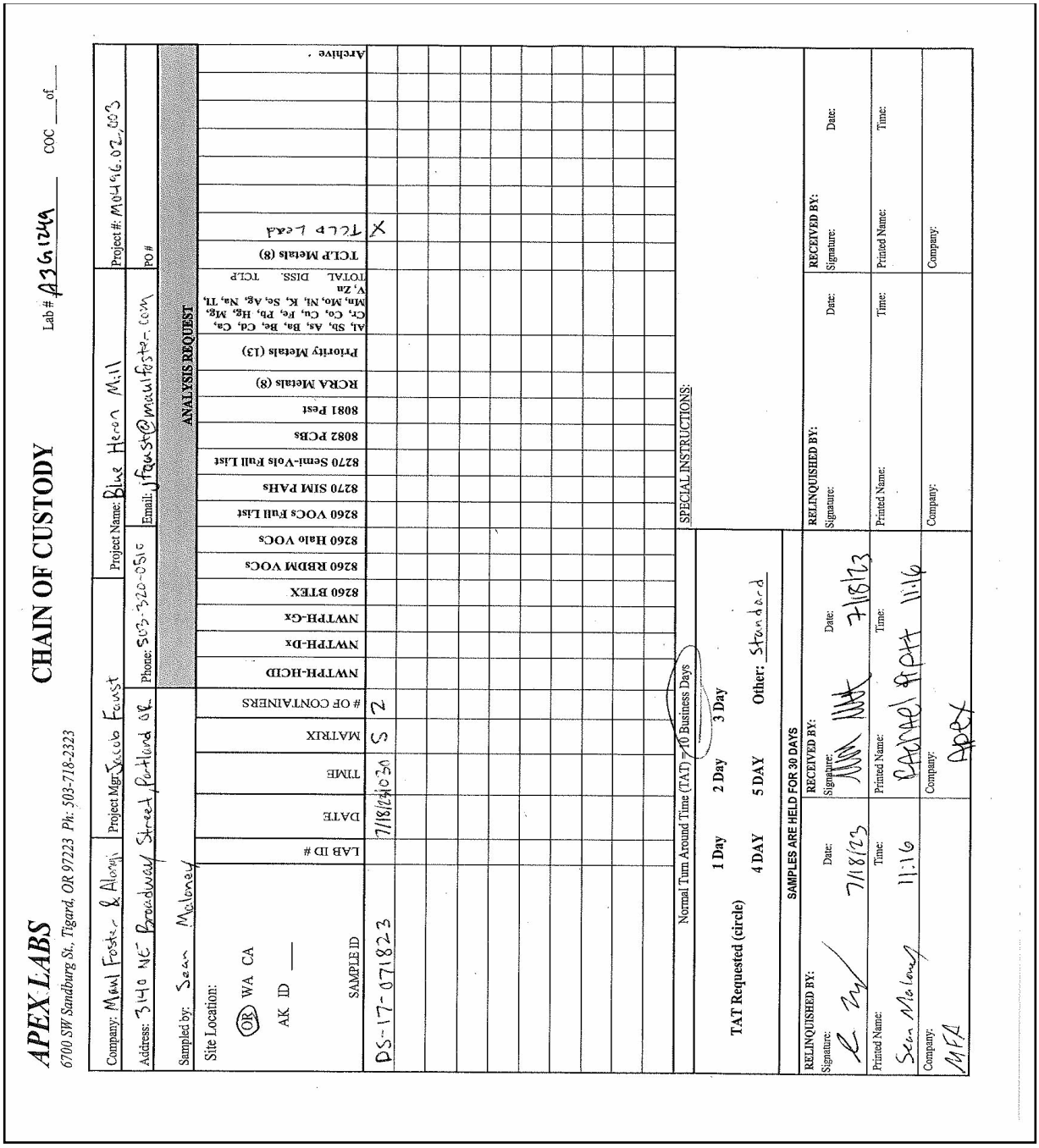

APEX LABS
6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

CHAIN OF CUSTODY

Lab # A3G1249 COC ___ of ___

Company: Maul Foster & Alongi | Project Mgr: Jacob Faust | Project Name: Blue Heron Mill | Project #: M0496.02.003
Address: 3140 NE Broadway Street Portland OR | Phone: 503-320-0516 | Email: jfaust@maulfoster.com | PO #
Sampled by: Sean Maloney

Site Location: (OR) WA CA AK ID ___

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pest	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn	TCLP Metals (8)	Archive
DS-17-071823		7/18/23	10:30	S	2																X

ANALYSIS REQUEST

Normal Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): 1 Day 2 Day 3 Day 4 DAY 5 DAY Other: Standard

SPECIAL INSTRUCTIONS:

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature:	Date: 7/18/23	RECEIVED BY: Signature:	Date: 7/18/23	RELINQUISHED BY: Signature:	Date:	RECEIVED BY: Signature:	Date:
Printed Name: Sean Maloney	Time: 11:16	Printed Name: Rachael Apatt	Time: 11:16	Printed Name:	Time:	Printed Name:	Time:
Company: MFA		Company: APEX		Company:		Company:	

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ANALYTICAL REPORT

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3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3G1249 - 07 26 23 1642**

APEX LABS COOLER RECEIPT FORM

Client: Maul Foster Alongi Element WO#: A3G1249

Project/Project #: Blue Heron Mill / M0496.02.003

Delivery Info:

Date/time received: 7/18/23 @ 1116 By: RHP

Delivered by: Apex__ Client X ESS__ FedEx__ UPS__ Radio__ Morgan__ SDS__ Evergreen__ Other__

Cooler Inspection Date/time inspected: 7/18/23 @ 1117 By: RHP

Chain of Custody included? Yes X No ____

Signed/dated by client? Yes X No ____

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	9.3						
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	REAL						
Condition (In/Out):	Out						

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

Green dots applied to out of temperature samples? Yes (No)

Out of temperature samples form initiated? Yes (No)

Sample Inspection: Date/time inspected: 7.20.23 @ 1241 By: [illegible]

All samples intact? Yes X No ___ Comments: ____

Bottle labels/COCs agree? Yes X No ___ Comments: ____

COC/container discrepancies form initiated? Yes ___ No X

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

Do VOA vials have visible headspace? Yes ___ No ___ NA X

Comments ____

Water samples: pH checked: Yes___No___NA X pH appropriate? Yes___No___NA X

Comments: ____

Additional information: ____

Labeled by: DJJ Witness: [illegible] Cooler Inspected by: RHP

Form Y-003 R-00

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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Attachment 6

Dye-Impacted Material Analytical Reports

MAUL FOSTER ALONGI

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

ANALYTICAL REPORT

Tuesday, May 23, 2023

Jacob Faust
Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

RE: A3D1700 - Blue Heron Paper Mill - M0496.01.002

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3D1700, which was received by the laboratory on 4/28/2023 at 10:21:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler	3.1	degC

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

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Ink-W-001	**A3D1700-01**	**Water**	**04/28/23 08:54**	**04/28/23 10:21**
Ink-S-001	**A3D1700-02**	**Solid**	**04/28/23 09:10**	**04/28/23 10:21**
Ink-S-002	**A3D1700-03**	**Concrete**	**04/28/23 09:22**	**04/28/23 10:21**

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ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

ANALYTICAL SAMPLE RESULTS

Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Ink-W-001 (A3D1700-01)				**Matrix: Water**		**Batch: 23E0098**		
Gasoline Range Organics	ND	---	0.0962	mg/L	1	05/02/23 22:37	NWTPH-HCID	
Diesel Range Organics	ND	---	0.240	mg/L	1	05/02/23 22:37	NWTPH-HCID	
Oil Range Organics	ND	---	0.240	mg/L	1	05/02/23 22:37	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		*Recovery:*	*83 %*	*Limits: 50-150 %*	*1*	*05/02/23 22:37*	*NWTPH-HCID*	
4-Bromofluorobenzene (Surr)			*26 %*	*10-120 %*	*1*	*05/02/23 22:37*	*NWTPH-HCID*	
Ink-S-001 (A3D1700-02)				**Matrix: Solid**		**Batch: 23E0068**		
Gasoline Range Organics	**DET**	---	19.3	mg/kg	1	05/03/23 02:31	NWTPH-HCID	F-13
Diesel Range Organics	**DET**	---	48.3	mg/kg	1	05/03/23 02:31	NWTPH-HCID	F-13
Oil Range Organics	**DET**	---	96.5	mg/kg	1	05/03/23 02:31	NWTPH-HCID	F-13
Surrogate: o-Terphenyl (Surr)		*Recovery:*	*80 %*	*Limits: 50-150 %*	*1*	*05/03/23 02:31*	*NWTPH-HCID*	
4-Bromofluorobenzene (Surr)			*71 %*	*50-150 %*	*1*	*05/03/23 02:31*	*NWTPH-HCID*	
Ink-S-002 (A3D1700-03)				**Matrix: Concrete**		**Batch: 23E0068**		
Gasoline Range Organics	**DET**	---	18.9	mg/kg	1	05/03/23 04:05	NWTPH-HCID	F-13
Diesel Range Organics	**DET**	---	47.3	mg/kg	1	05/03/23 04:05	NWTPH-HCID	F-13
Oil Range Organics	**DET**	---	94.6	mg/kg	1	05/03/23 04:05	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		*Recovery:*	*91 %*	*Limits: 50-150 %*	*1*	*05/03/23 04:05*	*NWTPH-HCID*	
4-Bromofluorobenzene (Surr)			*84 %*	*50-150 %*	*1*	*05/03/23 04:05*	*NWTPH-HCID*	

Apex Laboratories

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Philip Nerenberg, Lab Director

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Ink-S-001 (A3D1700-02RE1)				**Matrix: Solid**		**Batch: 23E0378**		
Diesel	ND	---	1830	mg/kg	50	05/10/23 07:16	NWTPH-Dx	
Oil	**4570**	---	3660	mg/kg	50	05/10/23 07:16	NWTPH-Dx	**F-13, Q-42**
Surrogate: o-Terphenyl (Surr)		*Recovery: %*		*Limits: 50-150 %*	*50*	*05/10/23 07:16*	*NWTPH-Dx*	*S-01*
Ink-S-002 (A3D1700-03)				**Matrix: Concrete**		**Batch: 23E0378**		
Diesel	ND	---	184	mg/kg	10	05/10/23 01:29	NWTPH-Dx	
Oil	**1730**	---	369	mg/kg	10	05/10/23 01:29	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		*Recovery: 108 %*		*Limits: 50-150 %*	*10*	*05/10/23 01:29*	*NWTPH-Dx*	*S-05*

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ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
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ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Ink-S-001 (A3D1700-02)				**Matrix: Solid**		**Batch: 23E0310**		**R-04, V-15**
Gasoline Range Organics	ND	---	48.7	mg/kg wet	500	05/08/23 20:29	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 107 %*		*Limits: 50-150 %*	*1*	*05/08/23 20:29*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*102 %*		*50-150 %*	*1*	*05/08/23 20:29*	*NWTPH-Gx (MS)*	
Ink-S-002 (A3D1700-03)				**Matrix: Concrete**		**Batch: 23E0310**		**R-04, V-15**
Gasoline Range Organics	ND	---	49.7	mg/kg wet	500	05/08/23 20:54	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		*Recovery: 107 %*		*Limits: 50-150 %*	*1*	*05/08/23 20:54*	*NWTPH-Gx (MS)*	
1,4-Difluorobenzene (Sur)		*102 %*		*50-150 %*	*1*	*05/08/23 20:54*	*NWTPH-Gx (MS)*	

Apex Laboratories

Philip Nerenberg, Lab Director

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APEX LABORATORIES

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ANALYTICAL REPORT

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ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Ink-W-001 (A3D1700-01)				**Matrix: Water**		**Batch: 23E0041**		**C-07**
Aroclor 1016	ND	---	0.0980	ug/L	1	05/01/23 22:11	EPA 8082A	
Aroclor 1221	ND	---	0.0980	ug/L	1	05/01/23 22:11	EPA 8082A	
Aroclor 1232	ND	---	0.0980	ug/L	1	05/01/23 22:11	EPA 8082A	
Aroclor 1242	ND	---	0.0980	ug/L	1	05/01/23 22:11	EPA 8082A	
Aroclor 1248	ND	---	0.0980	ug/L	1	05/01/23 22:11	EPA 8082A	
Aroclor 1254	ND	---	0.0980	ug/L	1	05/01/23 22:11	EPA 8082A	
Aroclor 1260	ND	---	0.0980	ug/L	1	05/01/23 22:11	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 81 %*		*Limits: 40-135 %*	*1*	*05/01/23 22:11*	*EPA 8082A*	
Ink-S-001 (A3D1700-02)				**Matrix: Solid**		**Batch: 23E0083**		**C-07**
Aroclor 1016	ND	---	73.3	ug/kg	2	05/02/23 21:48	EPA 8082A	
Aroclor 1221	ND	---	73.3	ug/kg	2	05/02/23 21:48	EPA 8082A	
Aroclor 1232	ND	---	73.3	ug/kg	2	05/02/23 21:48	EPA 8082A	
Aroclor 1242	ND	---	73.3	ug/kg	2	05/02/23 21:48	EPA 8082A	
Aroclor 1248	ND	---	73.3	ug/kg	2	05/02/23 21:48	EPA 8082A	
Aroclor 1254	ND	---	73.3	ug/kg	2	05/02/23 21:48	EPA 8082A	
Aroclor 1260	ND	---	73.3	ug/kg	2	05/02/23 21:48	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 113 %*		*Limits: 60-125 %*	*2*	*05/02/23 21:48*	*EPA 8082A*	
Ink-S-002 (A3D1700-03)				**Matrix: Concrete**		**Batch: 23E0083**		**C-07**
Aroclor 1016	ND	---	70.7	ug/kg	2	05/02/23 23:01	EPA 8082A	
Aroclor 1221	ND	---	70.7	ug/kg	2	05/02/23 23:01	EPA 8082A	
Aroclor 1232	ND	---	70.7	ug/kg	2	05/02/23 23:01	EPA 8082A	
Aroclor 1242	ND	---	70.7	ug/kg	2	05/02/23 23:01	EPA 8082A	
Aroclor 1248	ND	---	70.7	ug/kg	2	05/02/23 23:01	EPA 8082A	
Aroclor 1254	**98.4**	---	70.7	ug/kg	2	05/02/23 23:01	EPA 8082A	**P-12**
Aroclor 1260	**160**	---	70.7	ug/kg	2	05/02/23 23:01	EPA 8082A	**P-12**
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 108 %*		*Limits: 60-125 %*	*2*	*05/02/23 23:01*	*EPA 8082A*	

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.01.002	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3D1700 - 05 23 23 1457

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Ink-W-001 (A3D1700-01RE1)				**Matrix: Water**		**Batch: 23E0159**		
Acenaphthene	ND	---	0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
Acenaphthylene	ND	---	0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
Anthracene	ND	---	0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
Benz(a)anthracene	ND	---	0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
Benzo(a)pyrene	ND	---	0.156	ug/L	4	05/03/23 23:14	EPA 8270E	
Benzo(b)fluoranthene	ND	---	0.156	ug/L	4	05/03/23 23:14	EPA 8270E	
Benzo(k)fluoranthene	ND	---	0.156	ug/L	4	05/03/23 23:14	EPA 8270E	
Benzo(g,h,i)perylene	ND	---	0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
Chrysene	**0.109**	---	0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
Dibenz(a,h)anthracene	ND	---	0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
Fluoranthene	**0.251**	---	0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
Fluorene	ND	---	0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	---	0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
1-Methylnaphthalene	ND	---	0.208	ug/L	4	05/03/23 23:14	EPA 8270E	
2-Methylnaphthalene	ND	---	0.208	ug/L	4	05/03/23 23:14	EPA 8270E	
Naphthalene	ND	---	0.208	ug/L	4	05/03/23 23:14	EPA 8270E	
Phenanthrene	**0.251**	---	0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
Pyrene	**0.220**	---	0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
Carbazole	ND	---	0.156	ug/L	4	05/03/23 23:14	EPA 8270E	
Dibenzofuran	ND	---	0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
2-Chlorophenol	ND	---	0.519	ug/L	4	05/03/23 23:14	EPA 8270E	
4-Chloro-3-methylphenol	ND	---	1.04	ug/L	4	05/03/23 23:14	EPA 8270E	
2,4-Dichlorophenol	ND	---	0.519	ug/L	4	05/03/23 23:14	EPA 8270E	
2,4-Dimethylphenol	ND	---	0.519	ug/L	4	05/03/23 23:14	EPA 8270E	
2,4-Dinitrophenol	ND	---	2.60	ug/L	4	05/03/23 23:14	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	---	2.60	ug/L	4	05/03/23 23:14	EPA 8270E	
2-Methylphenol	ND	---	0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
3+4-Methylphenol(s)	ND	---	0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
2-Nitrophenol	ND	---	1.04	ug/L	4	05/03/23 23:14	EPA 8270E	
4-Nitrophenol	ND	---	1.04	ug/L	4	05/03/23 23:14	EPA 8270E	
Pentachlorophenol (PCP)	ND	---	1.04	ug/L	4	05/03/23 23:14	EPA 8270E	
Phenol	ND	---	2.08	ug/L	4	05/03/23 23:14	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	---	0.519	ug/L	4	05/03/23 23:14	EPA 8270E	

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Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

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3140 NE Broadway Street	Project Number: M0496.01.002	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3D1700 - 05 23 23 1457

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Ink-W-001 (A3D1700-01RE1)				**Matrix: Water**		**Batch: 23E0159**		
2,3,5,6-Tetrachlorophenol	ND	---	0.519	ug/L	4	05/03/23 23:14	EPA 8270E	
2,4,5-Trichlorophenol	ND	---	0.519	ug/L	4	05/03/23 23:14	EPA 8270E	
2,4,6-Trichlorophenol	ND	---	0.519	ug/L	4	05/03/23 23:14	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	---	2.08	ug/L	4	05/03/23 23:14	EPA 8270E	
Butyl benzyl phthalate	ND	---	2.08	ug/L	4	05/03/23 23:14	EPA 8270E	
Diethylphthalate	ND	---	2.08	ug/L	4	05/03/23 23:14	EPA 8270E	
Dimethylphthalate	ND	---	2.08	ug/L	4	05/03/23 23:14	EPA 8270E	
Di-n-butylphthalate	ND	---	2.08	ug/L	4	05/03/23 23:14	EPA 8270E	
Di-n-octyl phthalate	ND	---	2.08	ug/L	4	05/03/23 23:14	EPA 8270E	
N-Nitrosodimethylamine	ND	---	0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	---	0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
N-Nitrosodiphenylamine	ND	---	0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	---	0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	---	0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	---	0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
Hexachlorobenzene	ND	---	0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
Hexachlorobutadiene	ND	---	0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
Hexachlorocyclopentadiene	ND	---	0.519	ug/L	4	05/03/23 23:14	EPA 8270E	
Hexachloroethane	ND	---	0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
2-Chloronaphthalene	ND	---	0.104	ug/L	4	05/03/23 23:14	EPA 8270E	
1,2,4-Trichlorobenzene	ND	---	0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
4-Bromophenyl phenyl ether	ND	---	0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	---	0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
Aniline	ND	---	0.519	ug/L	4	05/03/23 23:14	EPA 8270E	
4-Chloroaniline	ND	---	0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
2-Nitroaniline	ND	---	2.08	ug/L	4	05/03/23 23:14	EPA 8270E	
3-Nitroaniline	ND	---	2.08	ug/L	4	05/03/23 23:14	EPA 8270E	
4-Nitroaniline	ND	---	2.08	ug/L	4	05/03/23 23:14	EPA 8270E	
Nitrobenzene	ND	---	1.04	ug/L	4	05/03/23 23:14	EPA 8270E	
2,4-Dinitrotoluene	ND	---	1.04	ug/L	4	05/03/23 23:14	EPA 8270E	
2,6-Dinitrotoluene	ND	---	1.04	ug/L	4	05/03/23 23:14	EPA 8270E	
Benzoic acid	ND	---	13.0	ug/L	4	05/03/23 23:14	EPA 8270E	
Benzyl alcohol	ND	---	1.04	ug/L	4	05/03/23 23:14	EPA 8270E	

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Philip Nerenberg

Philip Nerenberg, Lab Director

APEX LABORATORIES

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

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Ink-W-001 (A3D1700-01RE1)				**Matrix: Water**		**Batch: 23E0159**		
Isophorone	ND	---	0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
Azobenzene (1,2-DPH)	ND	---	0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	---	2.60	ug/L	4	05/03/23 23:14	EPA 8270E	
3,3'-Dichlorobenzidine	ND	---	5.19	ug/L	4	05/03/23 23:14	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	---	2.60	ug/L	4	05/03/23 23:14	EPA 8270E	
1,3-Dinitrobenzene	ND	---	2.60	ug/L	4	05/03/23 23:14	EPA 8270E	
1,4-Dinitrobenzene	ND	---	2.60	ug/L	4	05/03/23 23:14	EPA 8270E	
Pyridine	ND	---	1.04	ug/L	4	05/03/23 23:14	EPA 8270E	
1,2-Dichlorobenzene	ND	---	0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
1,3-Dichlorobenzene	ND	---	0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
1,4-Dichlorobenzene	ND	---	0.260	ug/L	4	05/03/23 23:14	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery:*	*61 %*	*Limits: 44-120 %*	*4*	*05/03/23 23:14*	*EPA 8270E*	
2-Fluorobiphenyl (Surr)			*63 %*	*44-120 %*	*4*	*05/03/23 23:14*	*EPA 8270E*	
Phenol-d6 (Surr)			*26 %*	*10-133 %*	*4*	*05/03/23 23:14*	*EPA 8270E*	
p-Terphenyl-d14 (Surr)			*104 %*	*50-134 %*	*4*	*05/03/23 23:14*	*EPA 8270E*	
2-Fluorophenol (Surr)			*43 %*	*19-120 %*	*4*	*05/03/23 23:14*	*EPA 8270E*	
2,4,6-Tribromophenol (Surr)			*118 %*	*43-140 %*	*4*	*05/03/23 23:14*	*EPA 8270E*	*Q-41*
Ink-S-001 (A3D1700-02)				**Matrix: Solid**		**Batch: 23E0084**		**R-04**
Acenaphthene	ND	---	2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
Acenaphthylene	ND	---	2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
Anthracene	ND	---	2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
Benz(a)anthracene	ND	---	2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
Benzo(a)pyrene	ND	---	3970	ug/kg	400	05/02/23 19:07	EPA 8270E	
Benzo(b)fluoranthene	ND	---	3970	ug/kg	400	05/02/23 19:07	EPA 8270E	
Benzo(k)fluoranthene	ND	---	3970	ug/kg	400	05/02/23 19:07	EPA 8270E	
Benzo(g,h,i)perylene	ND	---	2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
Chrysene	ND	---	2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
Dibenz(a,h)anthracene	ND	---	2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
Fluoranthene	ND	---	2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
Fluorene	ND	---	2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	---	2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
1-Methylnaphthalene	ND	---	5290	ug/kg	400	05/02/23 19:07	EPA 8270E	
2-Methylnaphthalene	ND	---	5290	ug/kg	400	05/02/23 19:07	EPA 8270E	

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Philip Nerenberg

Philip Nerenberg, Lab Director

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ORELAP ID: OR100062

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.01.002	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3D1700 - 05 23 23 1457

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Ink-S-001 (A3D1700-02)				**Matrix: Solid**		**Batch: 23E0084**		**R-04**
Naphthalene	ND	---	5290	ug/kg	400	05/02/23 19:07	EPA 8270E	
Phenanthrene	ND	---	2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
Pyrene	ND	---	2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
Carbazole	ND	---	3970	ug/kg	400	05/02/23 19:07	EPA 8270E	
Dibenzofuran	ND	---	2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
2-Chlorophenol	ND	---	13200	ug/kg	400	05/02/23 19:07	EPA 8270E	
4-Chloro-3-methylphenol	ND	---	26500	ug/kg	400	05/02/23 19:07	EPA 8270E	
2,4-Dichlorophenol	ND	---	13200	ug/kg	400	05/02/23 19:07	EPA 8270E	
2,4-Dimethylphenol	ND	---	13200	ug/kg	400	05/02/23 19:07	EPA 8270E	
2,4-Dinitrophenol	ND	---	66200	ug/kg	400	05/02/23 19:07	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	---	66200	ug/kg	400	05/02/23 19:07	EPA 8270E	
2-Methylphenol	ND	---	6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
3+4-Methylphenol(s)	ND	---	6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
2-Nitrophenol	ND	---	26500	ug/kg	400	05/02/23 19:07	EPA 8270E	
4-Nitrophenol	ND	---	26500	ug/kg	400	05/02/23 19:07	EPA 8270E	
Pentachlorophenol (PCP)	ND	---	26500	ug/kg	400	05/02/23 19:07	EPA 8270E	
Phenol	ND	---	5290	ug/kg	400	05/02/23 19:07	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	---	13200	ug/kg	400	05/02/23 19:07	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	---	13200	ug/kg	400	05/02/23 19:07	EPA 8270E	Q-42
2,4,5-Trichlorophenol	ND	---	13200	ug/kg	400	05/02/23 19:07	EPA 8270E	
2,4,6-Trichlorophenol	ND	---	13200	ug/kg	400	05/02/23 19:07	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	---	39700	ug/kg	400	05/02/23 19:07	EPA 8270E	
Butyl benzyl phthalate	ND	---	26500	ug/kg	400	05/02/23 19:07	EPA 8270E	
Diethylphthalate	ND	---	26500	ug/kg	400	05/02/23 19:07	EPA 8270E	
Dimethylphthalate	ND	---	26500	ug/kg	400	05/02/23 19:07	EPA 8270E	
Di-n-butylphthalate	ND	---	26500	ug/kg	400	05/02/23 19:07	EPA 8270E	
Di-n-octyl phthalate	ND	---	26500	ug/kg	400	05/02/23 19:07	EPA 8270E	
N-Nitrosodimethylamine	ND	---	6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	---	6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
N-Nitrosodiphenylamine	ND	---	6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	---	6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	---	6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	---	6620	ug/kg	400	05/02/23 19:07	EPA 8270E	

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Philip Nerenberg, Lab Director

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Ink-S-001 (A3D1700-02)				**Matrix: Solid**		**Batch: 23E0084**		**R-04**
Hexachlorobenzene	ND	---	2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
Hexachlorobutadiene	ND	---	6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
Hexachlorocyclopentadiene	ND	---	13200	ug/kg	400	05/02/23 19:07	EPA 8270E	
Hexachloroethane	ND	---	6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
2-Chloronaphthalene	ND	---	2650	ug/kg	400	05/02/23 19:07	EPA 8270E	
1,2,4-Trichlorobenzene	ND	---	6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
4-Bromophenyl phenyl ether	ND	---	6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	---	6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
Aniline	ND	---	13200	ug/kg	400	05/02/23 19:07	EPA 8270E	
4-Chloroaniline	ND	---	6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
2-Nitroaniline	ND	---	52900	ug/kg	400	05/02/23 19:07	EPA 8270E	
3-Nitroaniline	ND	---	52900	ug/kg	400	05/02/23 19:07	EPA 8270E	
4-Nitroaniline	ND	---	52900	ug/kg	400	05/02/23 19:07	EPA 8270E	
Nitrobenzene	ND	---	26500	ug/kg	400	05/02/23 19:07	EPA 8270E	
2,4-Dinitrotoluene	ND	---	26500	ug/kg	400	05/02/23 19:07	EPA 8270E	
2,6-Dinitrotoluene	ND	---	26500	ug/kg	400	05/02/23 19:07	EPA 8270E	
Benzoic acid	ND	---	331000	ug/kg	400	05/02/23 19:07	EPA 8270E	
Benzyl alcohol	ND	---	13200	ug/kg	400	05/02/23 19:07	EPA 8270E	
Isophorone	ND	---	6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
Azobenzene (1,2-DPH)	ND	---	6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	---	66200	ug/kg	400	05/02/23 19:07	EPA 8270E	
3,3'-Dichlorobenzidine	ND	---	52900	ug/kg	400	05/02/23 19:07	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	---	66200	ug/kg	400	05/02/23 19:07	EPA 8270E	
1,3-Dinitrobenzene	ND	---	66200	ug/kg	400	05/02/23 19:07	EPA 8270E	
1,4-Dinitrobenzene	ND	---	66200	ug/kg	400	05/02/23 19:07	EPA 8270E	
Pyridine	ND	---	13200	ug/kg	400	05/02/23 19:07	EPA 8270E	
1,2-Dichlorobenzene	ND	---	6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
1,3-Dichlorobenzene	ND	---	6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
1,4-Dichlorobenzene	ND	---	6620	ug/kg	400	05/02/23 19:07	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery:*	*72 %*	*Limits: 37-122 %*	*400*	*05/02/23 19:07*	*EPA 8270E*	*S-05*
2-Fluorobiphenyl (Surr)			*79 %*	*44-120 %*	*400*	*05/02/23 19:07*	*EPA 8270E*	*S-05*
Phenol-d6 (Surr)			*67 %*	*33-122 %*	*400*	*05/02/23 19:07*	*EPA 8270E*	*S-05*
p-Terphenyl-d14 (Surr)			*80 %*	*54-127 %*	*400*	*05/02/23 19:07*	*EPA 8270E*	*S-05*
2-Fluorophenol (Surr)			*37 %*	*35-120 %*	*400*	*05/02/23 19:07*	*EPA 8270E*	*S-05*

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Philip Nerenberg

Philip Nerenberg, Lab Director

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

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Ink-S-001 (A3D1700-02)				**Matrix: Solid**		**Batch: 23E0084**		**R-04**
Surrogate: 2,4,6-Tribromophenol (Surr)		*Recovery: 1350 %*	*Limits: 39-132 %*		*400*	*05/02/23 19:07*	*EPA 8270E*	*S-05*
Ink-S-002 (A3D1700-03)				**Matrix: Concrete**		**Batch: 23E0084**		
Acenaphthene	ND	---	106	ug/kg	40	05/02/23 20:17	EPA 8270E	
Acenaphthylene	ND	---	106	ug/kg	40	05/02/23 20:17	EPA 8270E	
Anthracene	ND	---	106	ug/kg	40	05/02/23 20:17	EPA 8270E	
Benz(a)anthracene	ND	---	106	ug/kg	40	05/02/23 20:17	EPA 8270E	
Benzo(a)pyrene	ND	---	159	ug/kg	40	05/02/23 20:17	EPA 8270E	
Benzo(b)fluoranthene	ND	---	159	ug/kg	40	05/02/23 20:17	EPA 8270E	
Benzo(k)fluoranthene	ND	---	159	ug/kg	40	05/02/23 20:17	EPA 8270E	
Benzo(g,h,i)perylene	ND	---	106	ug/kg	40	05/02/23 20:17	EPA 8270E	
Chrysene	ND	---	106	ug/kg	40	05/02/23 20:17	EPA 8270E	
Dibenz(a,h)anthracene	ND	---	106	ug/kg	40	05/02/23 20:17	EPA 8270E	
Fluoranthene	**130**	---	106	ug/kg	40	05/02/23 20:17	EPA 8270E	
Fluorene	ND	---	106	ug/kg	40	05/02/23 20:17	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	---	106	ug/kg	40	05/02/23 20:17	EPA 8270E	
1-Methylnaphthalene	ND	---	212	ug/kg	40	05/02/23 20:17	EPA 8270E	
2-Methylnaphthalene	ND	---	212	ug/kg	40	05/02/23 20:17	EPA 8270E	
Naphthalene	ND	---	212	ug/kg	40	05/02/23 20:17	EPA 8270E	
Phenanthrene	**121**	---	106	ug/kg	40	05/02/23 20:17	EPA 8270E	
Pyrene	**130**	---	106	ug/kg	40	05/02/23 20:17	EPA 8270E	
Carbazole	ND	---	159	ug/kg	40	05/02/23 20:17	EPA 8270E	
Dibenzofuran	ND	---	106	ug/kg	40	05/02/23 20:17	EPA 8270E	
2-Chlorophenol	ND	---	528	ug/kg	40	05/02/23 20:17	EPA 8270E	
4-Chloro-3-methylphenol	ND	---	1060	ug/kg	40	05/02/23 20:17	EPA 8270E	
2,4-Dichlorophenol	ND	---	528	ug/kg	40	05/02/23 20:17	EPA 8270E	
2,4-Dimethylphenol	ND	---	528	ug/kg	40	05/02/23 20:17	EPA 8270E	
2,4-Dinitrophenol	ND	---	2650	ug/kg	40	05/02/23 20:17	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	---	2650	ug/kg	40	05/02/23 20:17	EPA 8270E	
2-Methylphenol	ND	---	265	ug/kg	40	05/02/23 20:17	EPA 8270E	
3+4-Methylphenol(s)	ND	---	265	ug/kg	40	05/02/23 20:17	EPA 8270E	
2-Nitrophenol	ND	---	1060	ug/kg	40	05/02/23 20:17	EPA 8270E	
4-Nitrophenol	ND	---	1060	ug/kg	40	05/02/23 20:17	EPA 8270E	
Pentachlorophenol (PCP)	ND	---	1060	ug/kg	40	05/02/23 20:17	EPA 8270E	

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Philip Nerenberg, Lab Director

APEX LABORATORIES

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Ink-S-002 (A3D1700-03)				**Matrix: Concrete**		**Batch: 23E0084**		
Phenol	ND	---	212	ug/kg	40	05/02/23 20:17	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	---	528	ug/kg	40	05/02/23 20:17	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	---	528	ug/kg	40	05/02/23 20:17	EPA 8270E	
2,4,5-Trichlorophenol	ND	---	528	ug/kg	40	05/02/23 20:17	EPA 8270E	
2,4,6-Trichlorophenol	ND	---	528	ug/kg	40	05/02/23 20:17	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	---	1590	ug/kg	40	05/02/23 20:17	EPA 8270E	
Butyl benzyl phthalate	ND	---	1060	ug/kg	40	05/02/23 20:17	EPA 8270E	
Diethylphthalate	ND	---	1060	ug/kg	40	05/02/23 20:17	EPA 8270E	
Dimethylphthalate	ND	---	1060	ug/kg	40	05/02/23 20:17	EPA 8270E	
Di-n-butylphthalate	**1630**	---	1060	ug/kg	40	05/02/23 20:17	EPA 8270E	
Di-n-octyl phthalate	ND	---	1060	ug/kg	40	05/02/23 20:17	EPA 8270E	
N-Nitrosodimethylamine	ND	---	265	ug/kg	40	05/02/23 20:17	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	---	265	ug/kg	40	05/02/23 20:17	EPA 8270E	
N-Nitrosodiphenylamine	ND	---	265	ug/kg	40	05/02/23 20:17	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	---	265	ug/kg	40	05/02/23 20:17	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	---	265	ug/kg	40	05/02/23 20:17	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	---	265	ug/kg	40	05/02/23 20:17	EPA 8270E	
Hexachlorobenzene	ND	---	106	ug/kg	40	05/02/23 20:17	EPA 8270E	
Hexachlorobutadiene	ND	---	265	ug/kg	40	05/02/23 20:17	EPA 8270E	
Hexachlorocyclopentadiene	ND	---	528	ug/kg	40	05/02/23 20:17	EPA 8270E	
Hexachloroethane	ND	---	265	ug/kg	40	05/02/23 20:17	EPA 8270E	
2-Chloronaphthalene	ND	---	106	ug/kg	40	05/02/23 20:17	EPA 8270E	
1,2,4-Trichlorobenzene	ND	---	265	ug/kg	40	05/02/23 20:17	EPA 8270E	
4-Bromophenyl phenyl ether	ND	---	265	ug/kg	40	05/02/23 20:17	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	---	265	ug/kg	40	05/02/23 20:17	EPA 8270E	
Aniline	ND	---	528	ug/kg	40	05/02/23 20:17	EPA 8270E	
4-Chloroaniline	ND	---	265	ug/kg	40	05/02/23 20:17	EPA 8270E	
2-Nitroaniline	ND	---	2120	ug/kg	40	05/02/23 20:17	EPA 8270E	
3-Nitroaniline	ND	---	2120	ug/kg	40	05/02/23 20:17	EPA 8270E	
4-Nitroaniline	ND	---	2120	ug/kg	40	05/02/23 20:17	EPA 8270E	
Nitrobenzene	ND	---	1060	ug/kg	40	05/02/23 20:17	EPA 8270E	
2,4-Dinitrotoluene	ND	---	1060	ug/kg	40	05/02/23 20:17	EPA 8270E	
2,6-Dinitrotoluene	ND	---	1060	ug/kg	40	05/02/23 20:17	EPA 8270E	

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Philip Nerenberg

Philip Nerenberg, Lab Director

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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Ink-S-002 (A3D1700-03)				**Matrix: Concrete**		**Batch: 23E0084**		
Benzoic acid	ND	---	13200	ug/kg	40	05/02/23 20:17	EPA 8270E	
Benzyl alcohol	**1500**	---	528	ug/kg	40	05/02/23 20:17	EPA 8270E	
Isophorone	ND	---	265	ug/kg	40	05/02/23 20:17	EPA 8270E	
Azobenzene (1,2-DPH)	ND	---	265	ug/kg	40	05/02/23 20:17	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	---	2650	ug/kg	40	05/02/23 20:17	EPA 8270E	
3,3'-Dichlorobenzidine	ND	---	2120	ug/kg	40	05/02/23 20:17	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	---	2650	ug/kg	40	05/02/23 20:17	EPA 8270E	
1,3-Dinitrobenzene	ND	---	2650	ug/kg	40	05/02/23 20:17	EPA 8270E	
1,4-Dinitrobenzene	ND	---	2650	ug/kg	40	05/02/23 20:17	EPA 8270E	
Pyridine	ND	---	528	ug/kg	40	05/02/23 20:17	EPA 8270E	
1,2-Dichlorobenzene	ND	---	265	ug/kg	40	05/02/23 20:17	EPA 8270E	
1,3-Dichlorobenzene	ND	---	265	ug/kg	40	05/02/23 20:17	EPA 8270E	
1,4-Dichlorobenzene	ND	---	265	ug/kg	40	05/02/23 20:17	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery:*	*39 %*	*Limits: 37-122 %*	*40*	*05/02/23 20:17*	*EPA 8270E*	*S-05*
2-Fluorobiphenyl (Surr)			*62 %*	*44-120 %*	*40*	*05/02/23 20:17*	*EPA 8270E*	*S-05*
Phenol-d6 (Surr)			*39 %*	*33-122 %*	*40*	*05/02/23 20:17*	*EPA 8270E*	*S-05*
p-Terphenyl-d14 (Surr)			*90 %*	*54-127 %*	*40*	*05/02/23 20:17*	*EPA 8270E*	*S-05*
2-Fluorophenol (Surr)			*11 %*	*35-120 %*	*40*	*05/02/23 20:17*	*EPA 8270E*	*S-05*
2,4,6-Tribromophenol (Surr)			*%*	*39-132 %*	*40*	*05/02/23 20:17*	*EPA 8270E*	*S-01*

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Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Ink-W-001 (A3D1700-01)				**Matrix: Water**				
Batch: 23E0048								
Arsenic	**4.43**	---	1.00	ug/L	1	05/02/23 01:15	EPA 6020B	
Barium	**20.9**	---	2.00	ug/L	1	05/02/23 01:15	EPA 6020B	
Cadmium	ND	---	0.200	ug/L	1	05/02/23 01:15	EPA 6020B	
Chromium	**8.91**	---	2.00	ug/L	1	05/02/23 01:15	EPA 6020B	
Iron	**548**	---	50.0	ug/L	1	05/02/23 01:15	EPA 6020B	
Lead	**1.03**	---	0.200	ug/L	1	05/02/23 01:15	EPA 6020B	
Mercury	ND	---	0.0800	ug/L	1	05/02/23 01:15	EPA 6020B	
Selenium	ND	---	1.00	ug/L	1	05/02/23 01:15	EPA 6020B	
Silver	ND	---	0.200	ug/L	1	05/02/23 01:15	EPA 6020B	
Ink-W-001 (A3D1700-01RE1)				**Matrix: Water**				
Batch: 23E0048								
Manganese	**74.0**	---	1.00	ug/L	1	05/03/23 00:00	EPA 6020B	
Ink-S-001 (A3D1700-02)				**Matrix: Solid**				
Batch: 23E0003								
Arsenic	**76.1**	---	1.09	mg/kg	10	05/02/23 23:06	EPA 6020B	
Barium	**39.4**	---	1.09	mg/kg	10	05/02/23 23:06	EPA 6020B	
Cadmium	**0.570**	---	0.218	mg/kg	10	05/02/23 23:06	EPA 6020B	
Chromium	**20.9**	---	1.09	mg/kg	10	05/02/23 23:06	EPA 6020B	
Iron	**21200**	---	54.6	mg/kg	10	05/02/23 23:06	EPA 6020B	
Lead	**54.8**	---	0.218	mg/kg	10	05/02/23 23:06	EPA 6020B	
Manganese	**118**	---	1.09	mg/kg	10	05/02/23 23:06	EPA 6020B	
Mercury	**0.198**	---	0.0873	mg/kg	10	05/02/23 23:06	EPA 6020B	
Selenium	ND	---	1.09	mg/kg	10	05/02/23 23:06	EPA 6020B	
Silver	ND	---	0.218	mg/kg	10	05/02/23 23:06	EPA 6020B	
Ink-S-002 (A3D1700-03)				**Matrix: Concrete**				
Batch: 23E0003								
Arsenic	**31.5**	---	1.02	mg/kg	10	05/02/23 23:11	EPA 6020B	
Barium	**469**	---	1.02	mg/kg	10	05/02/23 23:11	EPA 6020B	
Cadmium	**1.70**	---	0.204	mg/kg	10	05/02/23 23:11	EPA 6020B	
Chromium	**41.5**	---	1.02	mg/kg	10	05/02/23 23:11	EPA 6020B	

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ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Ink-S-002 (A3D1700-03)				**Matrix: Concrete**				
Iron	**32500**	---	51.0	mg/kg	10	05/02/23 23:11	EPA 6020B	
Lead	**105**	---	0.204	mg/kg	10	05/02/23 23:11	EPA 6020B	
Manganese	**444**	---	1.02	mg/kg	10	05/02/23 23:11	EPA 6020B	
Mercury	**2.90**	---	0.0816	mg/kg	10	05/02/23 23:11	EPA 6020B	
Selenium	ND	---	1.02	mg/kg	10	05/02/23 23:11	EPA 6020B	
Silver	ND	---	0.204	mg/kg	10	05/02/23 23:11	EPA 6020B	

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Portland, OR 97232	Project Manager: Jacob Faust	A3D1700 - 05 23 23 1457

ANALYTICAL SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Ink-S-002 (A3D1700-03)				**Matrix: Concrete**				
Batch: 23E0390								
Lead	ND	---	0.0500	mg/L	10	05/09/23 15:23	1311/6020B	

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Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

ANALYTICAL SAMPLE RESULTS

TCLP Extraction by EPA 1311

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Ink-S-002 (A3D1700-03)				**Matrix: Concrete**		**Batch: 23E0353**		
TCLP Extraction	PREP	---		N/A	1	05/08/23 16:41	EPA 1311	

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ANALYTICAL REPORT

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3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

QUALITY CONTROL (QC) SAMPLE RESULTS

Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0068 - NWTPH-HCID (Soil)							**Solid**					
Blank (23E0068-BLK1)			Prepared: 05/02/23 07:22 Analyzed: 05/03/23 02:08									
NWTPH-HCID												
Gasoline Range Organics	ND	---	20.0	mg/kg	1	---	---	---	---	---	---	
Diesel Range Organics	ND	---	50.0	mg/kg	1	---	---	---	---	---	---	
Oil Range Organics	ND	---	100	mg/kg	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 85 %*	*Limits: 50-150 %*			*Dilution: 1x*					
4-Bromofluorobenzene (Surr)			*84 %*	*50-150 %*			*"*					
Duplicate (23E0068-DUP1)			Prepared: 05/02/23 07:22 Analyzed: 05/03/23 03:18									
QC Source Sample: Ink-S-001 (A3D1700-02)												
NWTPH-HCID												
Gasoline Range Organics	**DET**	---	19.1	mg/kg	1	---	ND	---	---	**30%**		F-13
Diesel Range Organics	**DET**	---	47.7	mg/kg	1	---	ND	---	---	**30%**		F-13
Oil Range Organics	**DET**	---	95.3	mg/kg	1	---	ND	---	---	**30%**		F-13
Surr: o-Terphenyl (Surr)			*Recovery: 88 %*	*Limits: 50-150 %*			*Dilution: 1x*					
4-Bromofluorobenzene (Surr)			*81 %*	*50-150 %*			*"*					
Batch 23E0098 - EPA 3510C (Fuels/Acid Ext.)							**Water**					
Blank (23E0098-BLK1)			Prepared: 05/02/23 14:40 Analyzed: 05/02/23 21:26									
NWTPH-HCID												
Gasoline Range Organics	ND	---	0.100	mg/L	1	---	---	---	---	---	---	
Diesel Range Organics	ND	---	0.250	mg/L	1	---	---	---	---	---	---	
Oil Range Organics	ND	---	0.250	mg/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 90 %*	*Limits: 50-150 %*			*Dilution: 1x*					
4-Bromofluorobenzene (Surr)			*46 %*	*10-120 %*			*"*					

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ANALYTICAL REPORT

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3140 NE Broadway Street	Project Number: M0496.01.002	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0378 - EPA 3546 (Fuels)								Solid				
Blank (23E0378-BLK1)			Prepared: 05/09/23 09:45 Analyzed: 05/09/23 23:26									
NWTPH-Dx												
Diesel	ND	---	20.0	mg/kg	1	---	---	---	---	---	---	
Oil	ND	---	40.0	mg/kg	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 99 %*	*Limits: 50-150 %*			*Dilution: 1x*					
LCS (23E0378-BS1)			Prepared: 05/09/23 09:45 Analyzed: 05/09/23 23:47									
NWTPH-Dx												
Diesel	126	---	20.0	mg/kg	1	125	---	101	38-132%	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 99 %*	*Limits: 50-150 %*			*Dilution: 1x*					
Duplicate (23E0378-DUP1)			Prepared: 05/09/23 09:45 Analyzed: 05/10/23 00:48									
QC Source Sample: Ink-S-001 (A3D1700-02RE1)												
NWTPH-Dx												
Diesel	ND	---	3820	mg/kg	100	---	ND	---	---	---	30%	
Oil	**10300**	---	7640	mg/kg	100	---	4570	---	---	**77**	**30%**	F-13, Q-17
Surr: o-Terphenyl (Surr)			*Recovery: %*	*Limits: 50-150 %*			*Dilution: 100x*					S-01

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3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
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QUALITY CONTROL (QC) SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0310 - EPA 5035A							**Soil**					
Blank (23E0310-BLK1)			Prepared: 05/08/23 08:11		Analyzed: 05/08/23 10:15							
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	5.00	mg/kg wet	50	---	---	---	---	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery:*	*102 %*	*Limits:*	*50-150 %*		*Dilution:*	*1x*				
1,4-Difluorobenzene (Sur)			*104 %*		*50-150 %*			*"*				
LCS (23E0310-BS2)			Prepared: 05/08/23 08:11		Analyzed: 05/08/23 09:45							
NWTPH-Gx (MS)												
Gasoline Range Organics	25.9	---	5.00	mg/kg wet	50	25.0	---	103	80-120%	---	---	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery:*	*104 %*	*Limits:*	*50-150 %*		*Dilution:*	*1x*				
1,4-Difluorobenzene (Sur)			*104 %*		*50-150 %*			*"*				
Duplicate (23E0310-DUP1)			Prepared: 05/05/23 11:57		Analyzed: 05/08/23 11:06							
QC Source Sample: Non-SDG (A3E1080-01)												
Gasoline Range Organics	ND	---	6.57	mg/kg dry	50	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery:*	*102 %*	*Limits:*	*50-150 %*		*Dilution:*	*1x*				
1,4-Difluorobenzene (Sur)			*104 %*		*50-150 %*			*"*				
Duplicate (23E0310-DUP2)			Prepared: 05/04/23 17:43		Analyzed: 05/08/23 16:39							
QC Source Sample: Non-SDG (A3E1112-01)												
Gasoline Range Organics	ND	---	72.1	mg/kg dry	50	---	ND	---	---	---	30%	
Surr: 4-Bromofluorobenzene (Sur)		*Recovery:*	*108 %*	*Limits:*	*50-150 %*		*Dilution:*	*1x*				
1,4-Difluorobenzene (Sur)			*108 %*		*50-150 %*			*"*				

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Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0041 - EPA 3510C (Neutral pH)							**Water**					
Blank (23E0041-BLK1)			Prepared: 05/01/23 11:27		Analyzed: 05/01/23 21:16							**C-07**
EPA 8082A												
Aroclor 1016	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
Aroclor 1221	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
Aroclor 1232	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
Aroclor 1242	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
Aroclor 1248	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
Aroclor 1254	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
Aroclor 1260	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 83 %*		*Limits: 40-135 %*				*Dilution: 1x*			
LCS (23E0041-BS1)			Prepared: 05/01/23 11:27		Analyzed: 05/01/23 21:35							**C-07**
EPA 8082A												
Aroclor 1016	1.48	---	0.100	ug/L	1	2.50	---	59	46-129%	---	---	
Aroclor 1260	1.75	---	0.100	ug/L	1	2.50	---	70	45-134%	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 64 %*		*Limits: 40-135 %*				*Dilution: 1x*			
LCS Dup (23E0041-BSD1)			Prepared: 05/01/23 11:27		Analyzed: 05/01/23 21:53							**C-07, Q-19**
EPA 8082A												
Aroclor 1016	1.53	---	0.100	ug/L	1	2.50	---	61	46-129%	3	30%	
Aroclor 1260	1.87	---	0.100	ug/L	1	2.50	---	75	45-134%	7	30%	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 79 %*		*Limits: 40-135 %*				*Dilution: 1x*			

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Philip Nerenberg, Lab Director

APEX LABORATORIES

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

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0083 - EPA 3546							**Solid**					
Blank (23E0083-BLK1)			Prepared: 05/02/23 10:07		Analyzed: 05/02/23 21:12							**C-07**
EPA 8082A												
Aroclor 1016	ND	---	50.0	ug/kg	1	---	---	---	---	---	---	
Aroclor 1221	ND	---	50.0	ug/kg	1	---	---	---	---	---	---	
Aroclor 1232	ND	---	50.0	ug/kg	1	---	---	---	---	---	---	
Aroclor 1242	ND	---	50.0	ug/kg	1	---	---	---	---	---	---	
Aroclor 1248	ND	---	50.0	ug/kg	1	---	---	---	---	---	---	
Aroclor 1254	ND	---	50.0	ug/kg	1	---	---	---	---	---	---	
Aroclor 1260	ND	---	50.0	ug/kg	1	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)		*Recovery: 112 %*	*Limits: 60-125 %*		*Dilution: 1x*							
LCS (23E0083-BS1)			Prepared: 05/02/23 10:07		Analyzed: 05/02/23 21:30							**C-07**
EPA 8082A												
Aroclor 1016	956	---	50.0	ug/kg	1	1250	---	76	47-134%	---	---	
Aroclor 1260	1130	---	50.0	ug/kg	1	1250	---	90	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)		*Recovery: 112 %*	*Limits: 60-125 %*		*Dilution: 1x*							
Duplicate (23E0083-DUP1)			Prepared: 05/02/23 10:07		Analyzed: 05/02/23 22:25							**C-07**
QC Source Sample: Ink-S-001 (A3D1700-02)												
EPA 8082A												
Aroclor 1016	ND	---	71.7	ug/kg	2	---	ND	---	---	---	30%	
Aroclor 1221	ND	---	71.7	ug/kg	2	---	ND	---	---	---	30%	
Aroclor 1232	ND	---	71.7	ug/kg	2	---	ND	---	---	---	30%	
Aroclor 1242	ND	---	71.7	ug/kg	2	---	ND	---	---	---	30%	
Aroclor 1248	ND	---	71.7	ug/kg	2	---	ND	---	---	---	30%	
Aroclor 1254	ND	---	71.7	ug/kg	2	---	ND	---	---	---	30%	
Aroclor 1260	ND	---	71.7	ug/kg	2	---	ND	---	---	---	30%	
Surr: Decachlorobiphenyl (Surr)		*Recovery: 119 %*	*Limits: 60-125 %*		*Dilution: 2x*							
Matrix Spike (23E0083-MS1)			Prepared: 05/02/23 10:07		Analyzed: 05/02/23 23:37							**C-07**
QC Source Sample: Ink-S-002 (A3D1700-03)												
EPA 8082A												
Aroclor 1016	765	---	76.0	ug/kg	2	951	ND	80	47-134%	---	---	
Aroclor 1260	1110	---	76.0	ug/kg	2	951	160	100	53-140%	---	---	

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Philip Nerenberg

Philip Nerenberg, Lab Director

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

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0083 - EPA 3546							**Solid**					
Matrix Spike (23E0083-MS1)			Prepared: 05/02/23 10:07 Analyzed: 05/02/23 23:37									**C-07**
QC Source Sample: Ink-S-002 (A3D1700-03)												
Surr: Decachlorobiphenyl (Surr)			*Recovery: 117 %*		*Limits: 60-125 %*		*Dilution: 2x*					

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.01.002	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0084 - EPA 3546							Solid					
Blank (23E0084-BLK1)			Prepared: 05/02/23 10:09 Analyzed: 05/02/23 17:56									
EPA 8270E												
Acenaphthene	ND	---	2.67	ug/kg	1	---	---	---	---	---	---	
Acenaphthylene	ND	---	2.67	ug/kg	1	---	---	---	---	---	---	
Anthracene	ND	---	2.67	ug/kg	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	---	2.67	ug/kg	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	---	4.00	ug/kg	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	---	4.00	ug/kg	1	---	---	---	---	---	---	B-02
Benzo(k)fluoranthene	ND	---	4.00	ug/kg	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	---	2.67	ug/kg	1	---	---	---	---	---	---	
Chrysene	ND	---	2.67	ug/kg	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	---	2.67	ug/kg	1	---	---	---	---	---	---	
Fluoranthene	ND	---	2.67	ug/kg	1	---	---	---	---	---	---	
Fluorene	ND	---	2.67	ug/kg	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	---	2.67	ug/kg	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	---	5.33	ug/kg	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	---	5.33	ug/kg	1	---	---	---	---	---	---	
Naphthalene	ND	---	5.33	ug/kg	1	---	---	---	---	---	---	
Phenanthrene	ND	---	2.67	ug/kg	1	---	---	---	---	---	---	
Pyrene	ND	---	2.67	ug/kg	1	---	---	---	---	---	---	
Carbazole	ND	---	4.00	ug/kg	1	---	---	---	---	---	---	
Dibenzofuran	ND	---	2.67	ug/kg	1	---	---	---	---	---	---	
2-Chlorophenol	ND	---	13.3	ug/kg	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	---	26.7	ug/kg	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	---	13.3	ug/kg	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	---	13.3	ug/kg	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	---	66.7	ug/kg	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	---	66.7	ug/kg	1	---	---	---	---	---	---	
2-Methylphenol	ND	---	6.67	ug/kg	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	---	6.67	ug/kg	1	---	---	---	---	---	---	
2-Nitrophenol	ND	---	26.7	ug/kg	1	---	---	---	---	---	---	
4-Nitrophenol	ND	---	26.7	ug/kg	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	---	26.7	ug/kg	1	---	---	---	---	---	---	
Phenol	ND	---	5.33	ug/kg	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	---	13.3	ug/kg	1	---	---	---	---	---	---	

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Philip Nerenberg, Lab Director

Apex Laboratories, LLC
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503-718-2323
ORELAP ID: **OR100062**

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0084 - EPA 3546							**Solid**					
Blank (23E0084-BLK1)			Prepared: 05/02/23 10:09 Analyzed: 05/02/23 17:56									
2,3,5,6-Tetrachlorophenol	ND	---	13.3	ug/kg	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	---	13.3	ug/kg	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	---	13.3	ug/kg	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	---	40.0	ug/kg	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	---	26.7	ug/kg	1	---	---	---	---	---	---	
Diethylphthalate	ND	---	26.7	ug/kg	1	---	---	---	---	---	---	
Dimethylphthalate	ND	---	26.7	ug/kg	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	---	26.7	ug/kg	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	---	26.7	ug/kg	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	---	6.67	ug/kg	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	---	6.67	ug/kg	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	---	6.67	ug/kg	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	---	6.67	ug/kg	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	---	6.67	ug/kg	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	---	6.67	ug/kg	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	---	2.67	ug/kg	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	6.67	ug/kg	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	---	13.3	ug/kg	1	---	---	---	---	---	---	
Hexachloroethane	ND	---	6.67	ug/kg	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	---	2.67	ug/kg	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	6.67	ug/kg	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	---	6.67	ug/kg	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	---	6.67	ug/kg	1	---	---	---	---	---	---	
Aniline	ND	---	13.3	ug/kg	1	---	---	---	---	---	---	
4-Chloroaniline	ND	---	6.67	ug/kg	1	---	---	---	---	---	---	
2-Nitroaniline	ND	---	53.3	ug/kg	1	---	---	---	---	---	---	
3-Nitroaniline	ND	---	53.3	ug/kg	1	---	---	---	---	---	---	
4-Nitroaniline	ND	---	53.3	ug/kg	1	---	---	---	---	---	---	
Nitrobenzene	ND	---	26.7	ug/kg	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	---	26.7	ug/kg	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	---	26.7	ug/kg	1	---	---	---	---	---	---	
Benzoic acid	ND	---	333	ug/kg	1	---	---	---	---	---	---	
Benzyl alcohol	ND	---	13.3	ug/kg	1	---	---	---	---	---	---	
Isophorone	ND	---	6.67	ug/kg	1	---	---	---	---	---	---	

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ORELAP ID: OR100062

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.01.002	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0084 - EPA 3546							**Solid**					
Blank (23E0084-BLK1)			Prepared: 05/02/23 10:09 Analyzed: 05/02/23 17:56									
Azobenzene (1,2-DPH)	ND	---	6.67	ug/kg	1	---	---	---	---	---	---	
Bis(2-Ethylhexyl) adipate	ND	---	66.7	ug/kg	1	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	---	53.3	ug/kg	1	---	---	---	---	---	---	Q-52
1,2-Dinitrobenzene	ND	---	66.7	ug/kg	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	---	66.7	ug/kg	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	---	66.7	ug/kg	1	---	---	---	---	---	---	
Pyridine	ND	---	13.3	ug/kg	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	---	6.67	ug/kg	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	---	6.67	ug/kg	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	---	6.67	ug/kg	1	---	---	---	---	---	---	
Surr: Nitrobenzene-d5 (Surr)		*Recovery:*	*78 %*	*Limits:*	*37-122 %*		*Dilution:*	*1x*				
2-Fluorobiphenyl (Surr)			*91 %*		*44-120 %*			*"*				
Phenol-d6 (Surr)			*83 %*		*33-122 %*			*"*				
p-Terphenyl-d14 (Surr)			*111 %*		*54-127 %*			*"*				
2-Fluorophenol (Surr)			*85 %*		*35-120 %*			*"*				
2,4,6-Tribromophenol (Surr)			*96 %*		*39-132 %*			*"*				Q-41
LCS (23E0084-BS1)			Prepared: 05/02/23 10:09 Analyzed: 05/02/23 18:31									**Q-18**
EPA 8270E												
Acenaphthene	498	---	10.7	ug/kg	4	533	---	93	40-123%	---	---	
Acenaphthylene	515	---	10.7	ug/kg	4	533	---	97	32-132%	---	---	
Anthracene	520	---	10.7	ug/kg	4	533	---	98	47-123%	---	---	
Benz(a)anthracene	492	---	10.7	ug/kg	4	533	---	92	49-126%	---	---	
Benzo(a)pyrene	469	---	16.0	ug/kg	4	533	---	88	45-129%	---	---	
Benzo(b)fluoranthene	455	---	16.0	ug/kg	4	533	---	85	45-132%	---	---	B-02
Benzo(k)fluoranthene	468	---	16.0	ug/kg	4	533	---	88	47-132%	---	---	
Benzo(g,h,i)perylene	532	---	10.7	ug/kg	4	533	---	100	43-134%	---	---	
Chrysene	495	---	10.7	ug/kg	4	533	---	93	50-124%	---	---	
Dibenz(a,h)anthracene	502	---	10.7	ug/kg	4	533	---	94	45-134%	---	---	
Fluoranthene	537	---	10.7	ug/kg	4	533	---	101	50-127%	---	---	
Fluorene	535	---	10.7	ug/kg	4	533	---	100	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	475	---	10.7	ug/kg	4	533	---	89	45-133%	---	---	
1-Methylnaphthalene	519	---	21.3	ug/kg	4	533	---	97	40-120%	---	---	
2-Methylnaphthalene	548	---	21.3	ug/kg	4	533	---	103	38-122%	---	---	

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Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0084 - EPA 3546							**Solid**					
LCS (23E0084-BS1)			Prepared: 05/02/23 10:09		Analyzed: 05/02/23 18:31							**Q-18**
Naphthalene	493	---	21.3	ug/kg	4	533	---	92	35-123%	---	---	
Phenanthrene	494	---	10.7	ug/kg	4	533	---	93	50-121%	---	---	
Pyrene	535	---	10.7	ug/kg	4	533	---	100	47-127%	---	---	
Carbazole	568	---	16.0	ug/kg	4	533	---	107	50-123%	---	---	
Dibenzofuran	539	---	10.7	ug/kg	4	533	---	101	44-120%	---	---	
2-Chlorophenol	485	---	53.2	ug/kg	4	533	---	91	34-121%	---	---	
4-Chloro-3-methylphenol	542	---	107	ug/kg	4	533	---	102	45-122%	---	---	
2,4-Dichlorophenol	575	---	53.2	ug/kg	4	533	---	108	40-122%	---	---	
2,4-Dimethylphenol	624	---	53.2	ug/kg	4	533	---	117	30-127%	---	---	
2,4-Dinitrophenol	727	---	267	ug/kg	4	533	---	136	10-137%	---	---	Q-41
4,6-Dinitro-2-methylphenol	757	---	267	ug/kg	4	533	---	**142**	**29-132%**	---	---	Q-29, Q-41
2-Methylphenol	505	---	26.7	ug/kg	4	533	---	95	32-122%	---	---	
3+4-Methylphenol(s)	507	---	26.7	ug/kg	4	533	---	95	34-120%	---	---	
2-Nitrophenol	609	---	107	ug/kg	4	533	---	114	36-123%	---	---	
4-Nitrophenol	583	---	107	ug/kg	4	533	---	109	30-132%	---	---	
Pentachlorophenol (PCP)	602	---	107	ug/kg	4	533	---	113	25-133%	---	---	
Phenol	507	---	21.3	ug/kg	4	533	---	95	34-121%	---	---	
2,3,4,6-Tetrachlorophenol	595	---	53.2	ug/kg	4	533	---	112	44-125%	---	---	
2,3,5,6-Tetrachlorophenol	612	---	53.2	ug/kg	4	533	---	115	40-120%	---	---	Q-41
2,4,5-Trichlorophenol	601	---	53.2	ug/kg	4	533	---	113	41-124%	---	---	
2,4,6-Trichlorophenol	553	---	53.2	ug/kg	4	533	---	104	39-126%	---	---	
Bis(2-ethylhexyl)phthalate	460	---	160	ug/kg	4	533	---	86	51-133%	---	---	
Butyl benzyl phthalate	481	---	107	ug/kg	4	533	---	90	48-132%	---	---	
Diethylphthalate	513	---	107	ug/kg	4	533	---	96	50-124%	---	---	
Dimethylphthalate	530	---	107	ug/kg	4	533	---	99	48-124%	---	---	
Di-n-butylphthalate	516	---	107	ug/kg	4	533	---	97	51-128%	---	---	
Di-n-octyl phthalate	413	---	107	ug/kg	4	533	---	77	45-140%	---	---	
N-Nitrosodimethylamine	388	---	26.7	ug/kg	4	533	---	73	23-120%	---	---	
N-Nitroso-di-n-propylamine	448	---	26.7	ug/kg	4	533	---	84	36-120%	---	---	
N-Nitrosodiphenylamine	518	---	26.7	ug/kg	4	533	---	97	38-127%	---	---	
Bis(2-Chloroethoxy) methane	473	---	26.7	ug/kg	4	533	---	89	36-121%	---	---	
Bis(2-Chloroethyl) ether	423	---	26.7	ug/kg	4	533	---	79	31-120%	---	---	
2,2'-Oxybis(1-Chloropropane)	362	---	26.7	ug/kg	4	533	---	68	39-120%	---	---	Q-31
Hexachlorobenzene	513	---	10.7	ug/kg	4	533	---	96	45-122%	---	---	

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Philip Nerenberg, Lab Director

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

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0084 - EPA 3546							**Solid**					
LCS (23E0084-BS1)			Prepared: 05/02/23 10:09		Analyzed: 05/02/23 18:31							**Q-18**
Hexachlorobutadiene	517	---	26.7	ug/kg	4	533	---	97	32-123%	---	---	
Hexachlorocyclopentadiene	705	---	53.2	ug/kg	4	533	---	132	10-140%	---	---	
Hexachloroethane	481	---	26.7	ug/kg	4	533	---	90	28-120%	---	---	
2-Chloronaphthalene	528	---	10.7	ug/kg	4	533	---	99	41-120%	---	---	
1,2,4-Trichlorobenzene	510	---	26.7	ug/kg	4	533	---	96	34-120%	---	---	
4-Bromophenyl phenyl ether	532	---	26.7	ug/kg	4	533	---	100	46-124%	---	---	
4-Chlorophenyl phenyl ether	552	---	26.7	ug/kg	4	533	---	104	45-121%	---	---	
Aniline	399	---	53.2	ug/kg	4	533	---	75	10-120%	---	---	
4-Chloroaniline	411	---	26.7	ug/kg	4	533	---	77	17-120%	---	---	
2-Nitroaniline	555	---	213	ug/kg	4	533	---	104	44-127%	---	---	
3-Nitroaniline	554	---	213	ug/kg	4	533	---	104	33-120%	---	---	Q-41
4-Nitroaniline	564	---	213	ug/kg	4	533	---	106	51-125%	---	---	
Nitrobenzene	450	---	107	ug/kg	4	533	---	84	34-122%	---	---	
2,4-Dinitrotoluene	569	---	107	ug/kg	4	533	---	107	48-126%	---	---	
2,6-Dinitrotoluene	536	---	107	ug/kg	4	533	---	101	46-124%	---	---	
Benzoic acid	954	---	668	ug/kg	4	1070	---	89	10-140%	---	---	
Benzyl alcohol	483	---	53.2	ug/kg	4	533	---	91	29-122%	---	---	
Isophorone	468	---	26.7	ug/kg	4	533	---	88	30-122%	---	---	
Azobenzene (1,2-DPH)	443	---	26.7	ug/kg	4	533	---	83	39-125%	---	---	
Bis(2-Ethylhexyl) adipate	457	---	267	ug/kg	4	533	---	86	61-121%	---	---	
3,3'-Dichlorobenzidine	1820	---	213	ug/kg	4	1070	---	**170**	**22-121%**	---	---	Q-29, Q-52
1,2-Dinitrobenzene	561	---	267	ug/kg	4	533	---	105	44-120%	---	---	
1,3-Dinitrobenzene	602	---	267	ug/kg	4	533	---	113	43-127%	---	---	Q-41
1,4-Dinitrobenzene	598	---	267	ug/kg	4	533	---	112	37-132%	---	---	
Pyridine	427	---	53.2	ug/kg	4	533	---	80	10-120%	---	---	
1,2-Dichlorobenzene	472	---	26.7	ug/kg	4	533	---	88	33-120%	---	---	
1,3-Dichlorobenzene	480	---	26.7	ug/kg	4	533	---	90	30-120%	---	---	
1,4-Dichlorobenzene	469	---	26.7	ug/kg	4	533	---	88	31-120%	---	---	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 85 %*		*Limits: 37-122 %*			*Dilution: 4x*				
2-Fluorobiphenyl (Surr)			*99 %*		*44-120 %*			*"*				
Phenol-d6 (Surr)			*90 %*		*33-122 %*			*"*				
p-Terphenyl-d14 (Surr)			*103 %*		*54-127 %*			*"*				
2-Fluorophenol (Surr)			*88 %*		*35-120 %*			*"*				
2,4,6-Tribromophenol (Surr)			*122 %*		*39-132 %*			*"*				Q-41

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ORELAP ID: **OR100062**

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0084 - EPA 3546							**Solid**					
Duplicate (23E0084-DUP1)			Prepared: 05/02/23 10:09 Analyzed: 05/02/23 19:42									**R-04**
QC Source Sample: Ink-S-001 (A3D1700-02)												
EPA 8270E												
Acenaphthene	ND	---	2610	ug/kg	400	---	ND	---	---	---	30%	
Acenaphthylene	ND	---	2610	ug/kg	400	---	ND	---	---	---	30%	
Anthracene	ND	---	2610	ug/kg	400	---	ND	---	---	---	30%	
Benz(a)anthracene	ND	---	2610	ug/kg	400	---	ND	---	---	---	30%	
Benzo(a)pyrene	ND	---	3910	ug/kg	400	---	ND	---	---	---	30%	
Benzo(b)fluoranthene	ND	---	3910	ug/kg	400	---	ND	---	---	---	30%	
Benzo(k)fluoranthene	ND	---	3910	ug/kg	400	---	ND	---	---	---	30%	
Benzo(g,h,i)perylene	ND	---	2610	ug/kg	400	---	ND	---	---	---	30%	
Chrysene	ND	---	2610	ug/kg	400	---	ND	---	---	---	30%	
Dibenz(a,h)anthracene	ND	---	2610	ug/kg	400	---	ND	---	---	---	30%	
Fluoranthene	ND	---	2610	ug/kg	400	---	ND	---	---	---	30%	
Fluorene	ND	---	2610	ug/kg	400	---	ND	---	---	---	30%	
Indeno(1,2,3-cd)pyrene	ND	---	2610	ug/kg	400	---	ND	---	---	---	30%	
1-Methylnaphthalene	ND	---	5210	ug/kg	400	---	ND	---	---	---	30%	
2-Methylnaphthalene	ND	---	5210	ug/kg	400	---	ND	---	---	---	30%	
Naphthalene	ND	---	5210	ug/kg	400	---	ND	---	---	---	30%	
Phenanthrene	ND	---	2610	ug/kg	400	---	ND	---	---	---	30%	
Pyrene	ND	---	2610	ug/kg	400	---	ND	---	---	---	30%	
Carbazole	ND	---	3910	ug/kg	400	---	ND	---	---	---	30%	
Dibenzofuran	ND	---	2610	ug/kg	400	---	ND	---	---	---	30%	
2-Chlorophenol	ND	---	13000	ug/kg	400	---	ND	---	---	---	30%	
4-Chloro-3-methylphenol	ND	---	26100	ug/kg	400	---	ND	---	---	---	30%	
2,4-Dichlorophenol	ND	---	13000	ug/kg	400	---	ND	---	---	---	30%	
2,4-Dimethylphenol	ND	---	13000	ug/kg	400	---	ND	---	---	---	30%	
2,4-Dinitrophenol	ND	---	65200	ug/kg	400	---	ND	---	---	---	30%	
4,6-Dinitro-2-methylphenol	ND	---	65200	ug/kg	400	---	ND	---	---	---	30%	
2-Methylphenol	ND	---	6520	ug/kg	400	---	ND	---	---	---	30%	
3+4-Methylphenol(s)	ND	---	6520	ug/kg	400	---	ND	---	---	---	30%	
2-Nitrophenol	ND	---	26100	ug/kg	400	---	ND	---	---	---	30%	
4-Nitrophenol	ND	---	26100	ug/kg	400	---	ND	---	---	---	30%	
Pentachlorophenol (PCP)	ND	---	26100	ug/kg	400	---	ND	---	---	---	30%	

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ORELAP ID: **OR100062**

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3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0084 - EPA 3546							**Solid**					
Duplicate (23E0084-DUP1)			Prepared: 05/02/23 10:09		Analyzed: 05/02/23 19:42							**R-04**
QC Source Sample: Ink-S-001 (A3D1700-02)												
Phenol	ND	---	5210	ug/kg	400	---	ND	---	---	---	30%	
2,3,4,6-Tetrachlorophenol	ND	---	13000	ug/kg	400	---	ND	---	---	---	30%	
2,3,5,6-Tetrachlorophenol	ND	---	13000	ug/kg	400	---	6700	---	---	***	**30%**	Q-17
2,4,5-Trichlorophenol	ND	---	13000	ug/kg	400	---	ND	---	---	---	30%	
2,4,6-Trichlorophenol	ND	---	13000	ug/kg	400	---	ND	---	---	---	30%	
Bis(2-ethylhexyl)phthalate	ND	---	39100	ug/kg	400	---	ND	---	---	---	30%	
Butyl benzyl phthalate	ND	---	26100	ug/kg	400	---	ND	---	---	---	30%	
Diethylphthalate	ND	---	26100	ug/kg	400	---	ND	---	---	---	30%	
Dimethylphthalate	ND	---	26100	ug/kg	400	---	ND	---	---	---	30%	
Di-n-butylphthalate	ND	---	26100	ug/kg	400	---	ND	---	---	---	30%	
Di-n-octyl phthalate	ND	---	26100	ug/kg	400	---	ND	---	---	---	30%	
N-Nitrosodimethylamine	ND	---	6520	ug/kg	400	---	ND	---	---	---	30%	
N-Nitroso-di-n-propylamine	ND	---	6520	ug/kg	400	---	ND	---	---	---	30%	
N-Nitrosodiphenylamine	ND	---	6520	ug/kg	400	---	ND	---	---	---	30%	
Bis(2-Chloroethoxy) methane	ND	---	6520	ug/kg	400	---	ND	---	---	---	30%	
Bis(2-Chloroethyl) ether	ND	---	6520	ug/kg	400	---	ND	---	---	---	30%	
2,2'-Oxybis(1-Chloropropane)	ND	---	6520	ug/kg	400	---	ND	---	---	---	30%	
Hexachlorobenzene	ND	---	2610	ug/kg	400	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	---	6520	ug/kg	400	---	ND	---	---	---	30%	
Hexachlorocyclopentadiene	ND	---	13000	ug/kg	400	---	ND	---	---	---	30%	
Hexachloroethane	ND	---	6520	ug/kg	400	---	ND	---	---	---	30%	
2-Chloronaphthalene	ND	---	2610	ug/kg	400	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	---	6520	ug/kg	400	---	ND	---	---	---	30%	
4-Bromophenyl phenyl ether	ND	---	6520	ug/kg	400	---	ND	---	---	---	30%	
4-Chlorophenyl phenyl ether	ND	---	6520	ug/kg	400	---	ND	---	---	---	30%	
Aniline	ND	---	13000	ug/kg	400	---	ND	---	---	---	30%	
4-Chloroaniline	ND	---	6520	ug/kg	400	---	ND	---	---	---	30%	
2-Nitroaniline	ND	---	52100	ug/kg	400	---	ND	---	---	---	30%	
3-Nitroaniline	ND	---	52100	ug/kg	400	---	ND	---	---	---	30%	
4-Nitroaniline	ND	---	52100	ug/kg	400	---	ND	---	---	---	30%	
Nitrobenzene	ND	---	26100	ug/kg	400	---	ND	---	---	---	30%	
2,4-Dinitrotoluene	ND	---	26100	ug/kg	400	---	ND	---	---	---	30%	
2,6-Dinitrotoluene	ND	---	26100	ug/kg	400	---	ND	---	---	---	30%	

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3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0084 - EPA 3546							**Solid**					
Duplicate (23E0084-DUP1)			Prepared: 05/02/23 10:09 Analyzed: 05/02/23 19:42									**R-04**
QC Source Sample: Ink-S-001 (A3D1700-02)												
Benzoic acid	ND	---	325000	ug/kg	400	---	ND	---	---	---	30%	
Benzyl alcohol	ND	---	13000	ug/kg	400	---	ND	---	---	---	30%	
Isophorone	ND	---	6520	ug/kg	400	---	ND	---	---	---	30%	
Azobenzene (1,2-DPH)	ND	---	6520	ug/kg	400	---	ND	---	---	---	30%	
Bis(2-Ethylhexyl) adipate	ND	---	65200	ug/kg	400	---	ND	---	---	---	30%	
3,3'-Dichlorobenzidine	ND	---	52100	ug/kg	400	---	ND	---	---	---	30%	Q-52
1,2-Dinitrobenzene	ND	---	65200	ug/kg	400	---	ND	---	---	---	30%	
1,3-Dinitrobenzene	ND	---	65200	ug/kg	400	---	ND	---	---	---	30%	
1,4-Dinitrobenzene	ND	---	65200	ug/kg	400	---	ND	---	---	---	30%	
Pyridine	ND	---	13000	ug/kg	400	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	---	6520	ug/kg	400	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	---	6520	ug/kg	400	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	---	6520	ug/kg	400	---	ND	---	---	---	30%	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 86 %*		*Limits: 37-122 %*		*Dilution: 400x*					S-05
2-Fluorobiphenyl (Surr)			*105 %*		*44-120 %*		*"*					S-05
Phenol-d6 (Surr)			*115 %*		*33-122 %*		*"*					S-05
p-Terphenyl-d14 (Surr)			*105 %*		*54-127 %*		*"*					S-05
2-Fluorophenol (Surr)			*100 %*		*35-120 %*		*"*					S-05
2,4,6-Tribromophenol (Surr)			*1310 %*		*39-132 %*		*"*					S-05

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3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0159 - EPA 3510C (Acid/Base Neutral)							**Water**					
Blank (23E0159-BLK1)			Prepared: 05/03/23 11:46 Analyzed: 05/03/23 21:32									
EPA 8270E												
Acenaphthene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	---	0.0300	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	---	0.0300	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	---	0.0300	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	---	0.0400	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	---	0.0400	ug/L	1	---	---	---	---	---	---	
Naphthalene	ND	---	0.0400	ug/L	1	---	---	---	---	---	---	
Phenanthrene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	---	0.0300	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
2-Chlorophenol	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
2-Methylphenol	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
2-Nitrophenol	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
4-Nitrophenol	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	---	0.200	ug/L	1	---	---	---	---	---	---	B-02
Phenol	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	---	0.100	ug/L	1	---	---	---	---	---	---	

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Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0159 - EPA 3510C (Acid/Base Neutral)							**Water**					
Blank (23E0159-BLK1)			Prepared: 05/03/23 11:46		Analyzed: 05/03/23 21:32							
2,3,5,6-Tetrachlorophenol	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Diethylphthalate	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Dimethylphthalate	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
Hexachloroethane	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
Aniline	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
4-Chloroaniline	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
2-Nitroaniline	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
3-Nitroaniline	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
4-Nitroaniline	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Nitrobenzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Benzoic acid	ND	---	2.50	ug/L	1	---	---	---	---	---	---	
Benzyl alcohol	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Isophorone	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	

Apex Laboratories

Philip Nerenberg, Lab Director

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APEX LABORATORIES

Apex Laboratories, LLC
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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0159 - EPA 3510C (Acid/Base Neutral)							**Water**					
Blank (23E0159-BLK1)			Prepared: 05/03/23 11:46 Analyzed: 05/03/23 21:32									
Azobenzene (1,2-DPH)	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
Bis(2-Ethylhexyl) adipate	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	---	1.00	ug/L	1	---	---	---	---	---	---	Q-52
1,2-Dinitrobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Pyridine	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 71 %*		*Limits: 44-120 %*			*Dilution: 1x*				
2-Fluorobiphenyl (Surr)			*73 %*		*44-120 %*			*"*				
Phenol-d6 (Surr)			*28 %*		*10-133 %*			*"*				
p-Terphenyl-d14 (Surr)			*113 %*		*50-134 %*			*"*				
2-Fluorophenol (Surr)			*45 %*		*19-120 %*			*"*				
2,4,6-Tribromophenol (Surr)			*92 %*		*43-140 %*			*"*				Q-41
LCS (23E0159-BS1)			Prepared: 05/03/23 11:46 Analyzed: 05/03/23 22:06									
EPA 8270E												
Acenaphthene	2.75	---	0.0800	ug/L	4	4.00	---	69	47-122%	---	---	
Acenaphthylene	2.86	---	0.0800	ug/L	4	4.00	---	72	41-130%	---	---	
Anthracene	3.38	---	0.0800	ug/L	4	4.00	---	85	57-123%	---	---	
Benz(a)anthracene	3.51	---	0.0800	ug/L	4	4.00	---	88	58-125%	---	---	
Benzo(a)pyrene	3.21	---	0.120	ug/L	4	4.00	---	80	54-128%	---	---	
Benzo(b)fluoranthene	3.39	---	0.120	ug/L	4	4.00	---	85	53-131%	---	---	
Benzo(k)fluoranthene	3.40	---	0.120	ug/L	4	4.00	---	85	57-129%	---	---	
Benzo(g,h,i)perylene	3.71	---	0.0800	ug/L	4	4.00	---	93	50-134%	---	---	
Chrysene	3.59	---	0.0800	ug/L	4	4.00	---	90	59-123%	---	---	
Dibenz(a,h)anthracene	3.53	---	0.0800	ug/L	4	4.00	---	88	51-134%	---	---	
Fluoranthene	3.79	---	0.0800	ug/L	4	4.00	---	95	57-128%	---	---	
Fluorene	3.24	---	0.0800	ug/L	4	4.00	---	81	52-124%	---	---	
Indeno(1,2,3-cd)pyrene	3.42	---	0.0800	ug/L	4	4.00	---	86	52-134%	---	---	
1-Methylnaphthalene	2.26	---	0.160	ug/L	4	4.00	---	57	41-120%	---	---	
2-Methylnaphthalene	2.32	---	0.160	ug/L	4	4.00	---	58	40-121%	---	---	

Apex Laboratories

Philip Nerenberg, Lab Director

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APEX LABORATORIES

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0159 - EPA 3510C (Acid/Base Neutral)							**Water**					
LCS (23E0159-BS1)			Prepared: 05/03/23 11:46		Analyzed: 05/03/23 22:06							
Naphthalene	2.19	---	0.160	ug/L	4	4.00	---	55	40-121%	---	---	
Phenanthrene	3.29	---	0.0800	ug/L	4	4.00	---	82	59-120%	---	---	
Pyrene	3.71	---	0.0800	ug/L	4	4.00	---	93	57-126%	---	---	
Carbazole	3.96	---	0.120	ug/L	4	4.00	---	99	60-122%	---	---	
Dibenzofuran	3.16	---	0.0800	ug/L	4	4.00	---	79	53-120%	---	---	
2-Chlorophenol	2.75	---	0.400	ug/L	4	4.00	---	69	38-120%	---	---	
4-Chloro-3-methylphenol	3.25	---	0.800	ug/L	4	4.00	---	81	52-120%	---	---	
2,4-Dichlorophenol	3.43	---	0.400	ug/L	4	4.00	---	86	47-121%	---	---	
2,4-Dimethylphenol	2.72	---	0.400	ug/L	4	4.00	---	68	31-124%	---	---	
2,4-Dinitrophenol	3.46	---	2.00	ug/L	4	4.00	---	86	23-143%	---	---	
4,6-Dinitro-2-methylphenol	4.65	---	2.00	ug/L	4	4.00	---	116	44-137%	---	---	Q-41
2-Methylphenol	2.35	---	0.200	ug/L	4	4.00	---	59	30-120%	---	---	
3+4-Methylphenol(s)	2.24	---	0.200	ug/L	4	4.00	---	56	29-120%	---	---	
2-Nitrophenol	3.69	---	0.800	ug/L	4	4.00	---	92	47-123%	---	---	
4-Nitrophenol	1.10	---	0.800	ug/L	4	4.00	---	27	10-120%	---	---	
Pentachlorophenol (PCP)	3.82	---	0.800	ug/L	4	4.00	---	95	35-138%	---	---	
Phenol	1.16	---	0.800	ug/L	4	4.00	---	29	10-120%	---	---	
2,3,4,6-Tetrachlorophenol	3.92	---	0.400	ug/L	4	4.00	---	98	50-128%	---	---	
2,3,5,6-Tetrachlorophenol	3.96	---	0.400	ug/L	4	4.00	---	99	50-121%	---	---	
2,4,5-Trichlorophenol	3.97	---	0.400	ug/L	4	4.00	---	99	53-123%	---	---	Q-41
2,4,6-Trichlorophenol	3.53	---	0.400	ug/L	4	4.00	---	88	50-125%	---	---	
Bis(2-ethylhexyl)phthalate	3.41	---	1.60	ug/L	4	4.00	---	85	55-135%	---	---	
Butyl benzyl phthalate	3.61	---	1.60	ug/L	4	4.00	---	90	53-134%	---	---	
Diethylphthalate	3.58	---	1.60	ug/L	4	4.00	---	89	56-125%	---	---	
Dimethylphthalate	3.61	---	1.60	ug/L	4	4.00	---	90	45-127%	---	---	
Di-n-butylphthalate	3.82	---	1.60	ug/L	4	4.00	---	95	59-127%	---	---	
Di-n-octyl phthalate	3.14	---	1.60	ug/L	4	4.00	---	78	51-140%	---	---	
N-Nitrosodimethylamine	1.34	---	0.200	ug/L	4	4.00	---	34	19-120%	---	---	Q-31
N-Nitroso-di-n-propylamine	2.71	---	0.200	ug/L	4	4.00	---	68	49-120%	---	---	
N-Nitrosodiphenylamine	3.34	---	0.200	ug/L	4	4.00	---	83	51-123%	---	---	
Bis(2-Chloroethoxy) methane	2.85	---	0.200	ug/L	4	4.00	---	71	48-120%	---	---	
Bis(2-Chloroethyl) ether	2.58	---	0.200	ug/L	4	4.00	---	64	43-120%	---	---	
2,2'-Oxybis(1-Chloropropane)	2.06	---	0.200	ug/L	4	4.00	---	52	41-120%	---	---	Q-31
Hexachlorobenzene	3.33	---	0.0800	ug/L	4	4.00	---	83	53-125%	---	---	

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Philip Nerenberg, Lab Director

APEX LABORATORIES

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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0159 - EPA 3510C (Acid/Base Neutral)							**Water**					
LCS (23E0159-BS1)			Prepared: 05/03/23 11:46		Analyzed: 05/03/23 22:06							
Hexachlorobutadiene	1.31	---	0.200	ug/L	4	4.00	---	33	22-124%	---	---	
Hexachlorocyclopentadiene	1.38	---	0.400	ug/L	4	4.00	---	34	10-127%	---	---	
Hexachloroethane	1.15	---	0.200	ug/L	4	4.00	---	29	21-120%	---	---	
2-Chloronaphthalene	2.47	---	0.0800	ug/L	4	4.00	---	62	40-120%	---	---	
1,2,4-Trichlorobenzene	1.74	---	0.200	ug/L	4	4.00	---	44	29-120%	---	---	
4-Bromophenyl phenyl ether	3.38	---	0.200	ug/L	4	4.00	---	84	55-124%	---	---	
4-Chlorophenyl phenyl ether	3.21	---	0.200	ug/L	4	4.00	---	80	53-121%	---	---	
Aniline	2.29	---	0.400	ug/L	4	4.00	---	57	10-120%	---	---	
4-Chloroaniline	3.20	---	0.200	ug/L	4	4.00	---	80	33-120%	---	---	
2-Nitroaniline	3.78	---	1.60	ug/L	4	4.00	---	95	55-127%	---	---	
3-Nitroaniline	4.22	---	1.60	ug/L	4	4.00	---	106	41-128%	---	---	Q-41
4-Nitroaniline	3.69	---	1.60	ug/L	4	4.00	---	92	25-120%	---	---	
Nitrobenzene	2.67	---	0.800	ug/L	4	4.00	---	67	45-121%	---	---	
2,4-Dinitrotoluene	3.88	---	0.800	ug/L	4	4.00	---	97	57-128%	---	---	
2,6-Dinitrotoluene	3.64	---	0.800	ug/L	4	4.00	---	91	57-124%	---	---	
Benzoic acid	4.21	---	4.00	ug/L	4	8.00	---	53	10-120%	---	---	
Benzyl alcohol	2.29	---	0.800	ug/L	4	4.00	---	57	31-120%	---	---	
Isophorone	2.88	---	0.200	ug/L	4	4.00	---	72	42-124%	---	---	
Azobenzene (1,2-DPH)	2.85	---	0.200	ug/L	4	4.00	---	71	61-120%	---	---	
Bis(2-Ethylhexyl) adipate	3.38	---	2.00	ug/L	4	4.00	---	85	63-121%	---	---	
3,3'-Dichlorobenzidine	15.0	---	4.00	ug/L	4	8.00	---	**187**	**27-129%**	---	---	Q-29, Q-52
1,2-Dinitrobenzene	3.80	---	2.00	ug/L	4	4.00	---	95	59-120%	---	---	
1,3-Dinitrobenzene	4.04	---	2.00	ug/L	4	4.00	---	101	49-128%	---	---	
1,4-Dinitrobenzene	3.99	---	2.00	ug/L	4	4.00	---	100	54-120%	---	---	
Pyridine	1.60	---	0.800	ug/L	4	4.00	---	40	10-120%	---	---	
1,2-Dichlorobenzene	1.55	---	0.200	ug/L	4	4.00	---	39	32-120%	---	---	
1,3-Dichlorobenzene	1.41	---	0.200	ug/L	4	4.00	---	35	28-120%	---	---	
1,4-Dichlorobenzene	1.44	---	0.200	ug/L	4	4.00	---	36	29-120%	---	---	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 71 %*		*Limits: 44-120 %*			*Dilution: 4x*				
2-Fluorobiphenyl (Surr)			*79 %*		*44-120 %*			*"*				
Phenol-d6 (Surr)			*24 %*		*10-133 %*			*"*				
p-Terphenyl-d14 (Surr)			*100 %*		*50-134 %*			*"*				
2-Fluorophenol (Surr)			*38 %*		*19-120 %*			*"*				
2,4,6-Tribromophenol (Surr)			*109 %*		*43-140 %*			*"*				Q-41

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3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0159 - EPA 3510C (Acid/Base Neutral)							**Water**					
LCS Dup (23E0159-BSD1)			Prepared: 05/03/23 11:46		Analyzed: 05/03/23 22:40							**Q-19**
EPA 8270E												
Acenaphthene	2.52	---	0.0800	ug/L	4	4.00	---	63	47-122%	9	30%	
Acenaphthylene	2.71	---	0.0800	ug/L	4	4.00	---	68	41-130%	5	30%	
Anthracene	3.36	---	0.0800	ug/L	4	4.00	---	84	57-123%	0.8	30%	
Benz(a)anthracene	3.65	---	0.0800	ug/L	4	4.00	---	91	58-125%	4	30%	
Benzo(a)pyrene	3.30	---	0.120	ug/L	4	4.00	---	82	54-128%	3	30%	
Benzo(b)fluoranthene	3.55	---	0.120	ug/L	4	4.00	---	89	53-131%	5	30%	
Benzo(k)fluoranthene	3.43	---	0.120	ug/L	4	4.00	---	86	57-129%	1	30%	
Benzo(g,h,i)perylene	3.91	---	0.0800	ug/L	4	4.00	---	98	50-134%	5	30%	
Chrysene	3.68	---	0.0800	ug/L	4	4.00	---	92	59-123%	2	30%	
Dibenz(a,h)anthracene	3.61	---	0.0800	ug/L	4	4.00	---	90	51-134%	2	30%	
Fluoranthene	3.74	---	0.0800	ug/L	4	4.00	---	94	57-128%	1	30%	
Fluorene	3.06	---	0.0800	ug/L	4	4.00	---	76	52-124%	6	30%	
Indeno(1,2,3-cd)pyrene	3.51	---	0.0800	ug/L	4	4.00	---	88	52-134%	2	30%	
1-Methylnaphthalene	2.05	---	0.160	ug/L	4	4.00	---	51	41-120%	10	30%	
2-Methylnaphthalene	2.05	---	0.160	ug/L	4	4.00	---	51	40-121%	13	30%	
Naphthalene	1.99	---	0.160	ug/L	4	4.00	---	50	40-121%	9	30%	
Phenanthrene	3.25	---	0.0800	ug/L	4	4.00	---	81	59-120%	1	30%	
Pyrene	3.69	---	0.0800	ug/L	4	4.00	---	92	57-126%	0.5	30%	
Carbazole	3.82	---	0.120	ug/L	4	4.00	---	95	60-122%	3	30%	
Dibenzofuran	2.84	---	0.0800	ug/L	4	4.00	---	71	53-120%	11	30%	
2-Chlorophenol	2.68	---	0.400	ug/L	4	4.00	---	67	38-120%	3	30%	
4-Chloro-3-methylphenol	3.22	---	0.800	ug/L	4	4.00	---	80	52-120%	1	30%	
2,4-Dichlorophenol	3.42	---	0.400	ug/L	4	4.00	---	85	47-121%	0.4	30%	
2,4-Dimethylphenol	2.79	---	0.400	ug/L	4	4.00	---	70	31-124%	3	30%	
2,4-Dinitrophenol	3.51	---	2.00	ug/L	4	4.00	---	88	23-143%	1	30%	
4,6-Dinitro-2-methylphenol	4.56	---	2.00	ug/L	4	4.00	---	114	44-137%	2	30%	Q-41
2-Methylphenol	2.30	---	0.200	ug/L	4	4.00	---	58	30-120%	2	30%	
3+4-Methylphenol(s)	2.18	---	0.200	ug/L	4	4.00	---	54	29-120%	3	30%	
2-Nitrophenol	3.72	---	0.800	ug/L	4	4.00	---	93	47-123%	0.8	30%	
4-Nitrophenol	1.04	---	0.800	ug/L	4	4.00	---	26	10-120%	6	30%	
Pentachlorophenol (PCP)	3.89	---	0.800	ug/L	4	4.00	---	97	35-138%	2	30%	
Phenol	1.16	---	0.800	ug/L	4	4.00	---	29	10-120%	0.09	30%	
2,3,4,6-Tetrachlorophenol	3.86	---	0.400	ug/L	4	4.00	---	96	50-128%	2	30%	

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Philip Nerenberg, Lab Director

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

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0159 - EPA 3510C (Acid/Base Neutral)							**Water**					
LCS Dup (23E0159-BSD1)			Prepared: 05/03/23 11:46		Analyzed: 05/03/23 22:40							**Q-19**
2,3,5,6-Tetrachlorophenol	3.85	---	0.400	ug/L	4	4.00	---	96	50-121%	3	30%	
2,4,5-Trichlorophenol	3.96	---	0.400	ug/L	4	4.00	---	99	53-123%	0.2	30%	Q-41
2,4,6-Trichlorophenol	3.44	---	0.400	ug/L	4	4.00	---	86	50-125%	3	30%	
Bis(2-ethylhexyl)phthalate	3.64	---	1.60	ug/L	4	4.00	---	91	55-135%	7	30%	
Butyl benzyl phthalate	3.86	---	1.60	ug/L	4	4.00	---	97	53-134%	7	30%	
Diethylphthalate	3.61	---	1.60	ug/L	4	4.00	---	90	56-125%	0.8	30%	
Dimethylphthalate	3.68	---	1.60	ug/L	4	4.00	---	92	45-127%	2	30%	
Di-n-butylphthalate	3.86	---	1.60	ug/L	4	4.00	---	96	59-127%	1	30%	
Di-n-octyl phthalate	3.38	---	1.60	ug/L	4	4.00	---	85	51-140%	8	30%	
N-Nitrosodimethylamine	1.25	---	0.200	ug/L	4	4.00	---	31	19-120%	7	30%	Q-31
N-Nitroso-di-n-propylamine	2.73	---	0.200	ug/L	4	4.00	---	68	49-120%	0.6	30%	
N-Nitrosodiphenylamine	3.38	---	0.200	ug/L	4	4.00	---	84	51-123%	1	30%	
Bis(2-Chloroethoxy) methane	2.92	---	0.200	ug/L	4	4.00	---	73	48-120%	3	30%	
Bis(2-Chloroethyl) ether	2.71	---	0.200	ug/L	4	4.00	---	68	43-120%	5	30%	
2,2'-Oxybis(1-Chloropropane)	2.02	---	0.200	ug/L	4	4.00	---	51	41-120%	2	30%	Q-31
Hexachlorobenzene	3.30	---	0.0800	ug/L	4	4.00	---	83	53-125%	0.9	30%	
Hexachlorobutadiene	1.16	---	0.200	ug/L	4	4.00	---	29	22-124%	12	30%	
Hexachlorocyclopentadiene	0.986	---	0.400	ug/L	4	4.00	---	25	10-127%	**33**	**30%**	Q-24
Hexachloroethane	1.02	---	0.200	ug/L	4	4.00	---	25	21-120%	12	30%	
2-Chloronaphthalene	2.14	---	0.0800	ug/L	4	4.00	---	53	40-120%	14	30%	
1,2,4-Trichlorobenzene	1.50	---	0.200	ug/L	4	4.00	---	38	29-120%	15	30%	
4-Bromophenyl phenyl ether	3.17	---	0.200	ug/L	4	4.00	---	79	55-124%	6	30%	
4-Chlorophenyl phenyl ether	2.83	---	0.200	ug/L	4	4.00	---	71	53-121%	13	30%	
Aniline	2.25	---	0.400	ug/L	4	4.00	---	56	10-120%	2	30%	
4-Chloroaniline	3.09	---	0.200	ug/L	4	4.00	---	77	33-120%	4	30%	
2-Nitroaniline	3.69	---	1.60	ug/L	4	4.00	---	92	55-127%	2	30%	
3-Nitroaniline	3.94	---	1.60	ug/L	4	4.00	---	98	41-128%	7	30%	Q-41
4-Nitroaniline	3.29	---	1.60	ug/L	4	4.00	---	82	25-120%	11	30%	
Nitrobenzene	2.60	---	0.800	ug/L	4	4.00	---	65	45-121%	3	30%	
2,4-Dinitrotoluene	3.75	---	0.800	ug/L	4	4.00	---	94	57-128%	3	30%	
2,6-Dinitrotoluene	3.63	---	0.800	ug/L	4	4.00	---	91	57-124%	0.4	30%	
Benzoic acid	4.23	---	4.00	ug/L	4	8.00	---	53	10-120%	0.7	30%	
Benzyl alcohol	2.26	---	0.800	ug/L	4	4.00	---	57	31-120%	1	30%	
Isophorone	3.00	---	0.200	ug/L	4	4.00	---	75	42-124%	4	30%	

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ORELAP ID: **OR100062**

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0159 - EPA 3510C (Acid/Base Neutral)							**Water**					
LCS Dup (23E0159-BSD1)			Prepared: 05/03/23 11:46		Analyzed: 05/03/23 22:40							**Q-19**
Azobenzene (1,2-DPH)	2.85	---	0.200	ug/L	4	4.00	---	71	61-120%	0.2	30%	
Bis(2-Ethylhexyl) adipate	3.60	---	2.00	ug/L	4	4.00	---	90	63-121%	6	30%	
3,3'-Dichlorobenzidine	13.1	---	4.00	ug/L	4	8.00	---	**164**	**27-129%**	13	30%	Q-29, Q-52
1,2-Dinitrobenzene	3.70	---	2.00	ug/L	4	4.00	---	93	59-120%	2	30%	
1,3-Dinitrobenzene	3.92	---	2.00	ug/L	4	4.00	---	98	49-128%	3	30%	
1,4-Dinitrobenzene	3.90	---	2.00	ug/L	4	4.00	---	97	54-120%	2	30%	
Pyridine	1.71	---	0.800	ug/L	4	4.00	---	43	10-120%	7	30%	
1,2-Dichlorobenzene	1.35	---	0.200	ug/L	4	4.00	---	34	32-120%	14	30%	
1,3-Dichlorobenzene	1.25	---	0.200	ug/L	4	4.00	---	31	28-120%	12	30%	
1,4-Dichlorobenzene	1.28	---	0.200	ug/L	4	4.00	---	32	29-120%	12	30%	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 72 %*		*Limits: 44-120 %*			*Dilution: 4x*				
2-Fluorobiphenyl (Surr)			*79 %*		*44-120 %*			*"*				
Phenol-d6 (Surr)			*24 %*		*10-133 %*			*"*				
p-Terphenyl-d14 (Surr)			*110 %*		*50-134 %*			*"*				
2-Fluorophenol (Surr)			*42 %*		*19-120 %*			*"*				
2,4,6-Tribromophenol (Surr)			*112 %*		*43-140 %*			*"*				Q-41

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ORELAP ID: OR100062

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.01.002	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0003 - EPA 3051A							Solid					
Blank (23E0003-BLK2)			Prepared: 05/01/23 06:40 Analyzed: 05/02/23 19:10									
EPA 6020B												
Arsenic	ND	---	1.00	mg/kg	10	---	---	---	---	---	---	Q-16
Barium	ND	---	1.00	mg/kg	10	---	---	---	---	---	---	Q-16
Cadmium	ND	---	0.200	mg/kg	10	---	---	---	---	---	---	Q-16
Chromium	ND	---	1.00	mg/kg	10	---	---	---	---	---	---	Q-16
Iron	ND	---	50.0	mg/kg	10	---	---	---	---	---	---	Q-16
Lead	ND	---	0.200	mg/kg	10	---	---	---	---	---	---	Q-16
Manganese	ND	---	1.00	mg/kg	10	---	---	---	---	---	---	Q-16
Mercury	ND	---	0.0800	mg/kg	10	---	---	---	---	---	---	Q-16
Selenium	ND	---	1.00	mg/kg	10	---	---	---	---	---	---	Q-16
Silver	ND	---	0.200	mg/kg	10	---	---	---	---	---	---	Q-16
LCS (23E0003-BS2)			Prepared: 05/01/23 06:40 Analyzed: 05/02/23 19:15									
EPA 6020B												
Arsenic	52.6	---	1.00	mg/kg	10	50.0	---	105	80-120%	---	---	Q-16
Barium	53.1	---	1.00	mg/kg	10	50.0	---	106	80-120%	---	---	Q-16
Cadmium	50.3	---	0.200	mg/kg	10	50.0	---	101	80-120%	---	---	Q-16
Chromium	51.1	---	1.00	mg/kg	10	50.0	---	102	80-120%	---	---	Q-16
Iron	2680	---	50.0	mg/kg	10	2500	---	107	80-120%	---	---	Q-16
Lead	56.1	---	0.200	mg/kg	10	50.0	---	112	80-120%	---	---	Q-16
Manganese	51.2	---	1.00	mg/kg	10	50.0	---	102	80-120%	---	---	Q-16
Mercury	1.03	---	0.0800	mg/kg	10	1.00	---	103	80-120%	---	---	Q-16
Selenium	26.1	---	1.00	mg/kg	10	25.0	---	105	80-120%	---	---	Q-16
Silver	25.4	---	0.200	mg/kg	10	25.0	---	102	80-120%	---	---	Q-16
Duplicate (23E0003-DUP1)			Prepared: 05/01/23 06:40 Analyzed: 05/02/23 22:41									
QC Source Sample: Non-SDG (A3D1630-01)												
Arsenic	**2.98**	---	1.11	mg/kg	10	---	3.29	---	---	10	20%	
Barium	**76.4**	---	1.11	mg/kg	10	---	84.1	---	---	10	20%	
Cadmium	**0.341**	---	0.221	mg/kg	10	---	0.396	---	---	15	20%	
Chromium	**11.6**	---	1.11	mg/kg	10	---	13.0	---	---	11	20%	
Iron	**20100**	---	55.3	mg/kg	10	---	22200	---	---	10	20%	
Lead	**28.9**	---	0.221	mg/kg	10	---	32.4	---	---	11	20%	
Manganese	**261**	---	1.11	mg/kg	10	---	286	---	---	9	20%	

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Philip Nerenberg, Lab Director

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0003 - EPA 3051A								**Solid**				
Duplicate (23E0003-DUP1)			Prepared: 05/01/23 06:40		Analyzed: 05/02/23 22:41							
QC Source Sample: Non-SDG (A3D1630-01)												
Mercury	ND	---	0.0885	mg/kg	10	---	0.0989	---	---	***	20%	
Selenium	ND	---	1.11	mg/kg	10	---	ND	---	---	---	20%	
Silver	ND	---	0.221	mg/kg	10	---	0.112	---	---	***	20%	
Matrix Spike (23E0003-MS1)			Prepared: 05/01/23 06:40		Analyzed: 05/02/23 22:46							
QC Source Sample: Non-SDG (A3D1630-01)												
EPA 6020B												
Arsenic	53.8	---	0.996	mg/kg	10	49.8	3.29	101	75-125%	---	---	
Barium	139	---	0.996	mg/kg	10	49.8	84.1	110	75-125%	---	---	
Cadmium	49.1	---	0.199	mg/kg	10	49.8	0.396	98	75-125%	---	---	
Chromium	62.5	---	0.996	mg/kg	10	49.8	13.0	99	75-125%	---	---	
Iron	25900	---	49.8	mg/kg	10	2490	22200	**148**	**75-125%**	---	---	Q-65
Lead	81.1	---	0.199	mg/kg	10	49.8	32.4	98	75-125%	---	---	
Manganese	382	---	0.996	mg/kg	10	49.8	286	**191**	**75-125%**	---	---	Q-65
Mercury	1.03	---	0.0797	mg/kg	10	0.996	0.0989	94	75-125%	---	---	
Selenium	25.2	---	0.996	mg/kg	10	24.9	ND	101	75-125%	---	---	
Silver	24.3	---	0.199	mg/kg	10	24.9	0.112	97	75-125%	---	---	

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Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0048 - EPA 3015A							**Water**					
Blank (23E0048-BLK1)			Prepared: 05/01/23 12:48		Analyzed: 05/02/23 00:25							
EPA 6020B												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Barium	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
Cadmium	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Chromium	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	---	50.0	ug/L	1	---	---	---	---	---	---	
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Mercury	ND	---	0.0800	ug/L	1	---	---	---	---	---	---	
Selenium	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Silver	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Blank (23E0048-BLK2)			Prepared: 05/01/23 12:48		Analyzed: 05/02/23 23:26							
EPA 6020B												
Manganese	ND	---	1.00	ug/L	1	---	---	---	---	---	---	Q-16
LCS (23E0048-BS1)			Prepared: 05/01/23 12:48		Analyzed: 05/02/23 00:30							
EPA 6020B												
Arsenic	56.4	---	1.00	ug/L	1	55.6	---	101	80-120%	---	---	
Barium	56.2	---	2.00	ug/L	1	55.6	---	101	80-120%	---	---	
Cadmium	54.3	---	0.200	ug/L	1	55.6	---	98	80-120%	---	---	
Chromium	54.2	---	2.00	ug/L	1	55.6	---	98	80-120%	---	---	
Iron	2650	---	50.0	ug/L	1	2780	---	95	80-120%	---	---	
Lead	56.8	---	0.200	ug/L	1	55.6	---	102	80-120%	---	---	
Mercury	1.01	---	0.0800	ug/L	1	1.11	---	91	80-120%	---	---	
Selenium	27.4	---	1.00	ug/L	1	27.8	---	99	80-120%	---	---	
Silver	26.1	---	0.200	ug/L	1	27.8	---	94	80-120%	---	---	
LCS (23E0048-BS2)			Prepared: 05/01/23 12:48		Analyzed: 05/02/23 23:41							
EPA 6020B												
Manganese	54.4	---	1.00	ug/L	1	55.6	---	98	80-120%	---	---	Q-16
Duplicate (23E0048-DUP1)			Prepared: 05/01/23 12:48		Analyzed: 05/02/23 00:47							
QC Source Sample: Non-SDG (A3D1458-01)												

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ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0048 - EPA 3015A								**Water**				
Duplicate (23E0048-DUP1)			Prepared: 05/01/23 12:48		Analyzed: 05/02/23 00:47							
QC Source Sample: Non-SDG (A3D1458-01)												
Arsenic	**1.13**	---	1.00	ug/L	1	---	1.25	---	---	10	20%	
Barium	**48.6**	---	2.00	ug/L	1	---	49.0	---	---	0.8	20%	
Cadmium	ND	---	0.200	ug/L	1	---	ND	---	---	---	20%	
Chromium	**3.18**	---	2.00	ug/L	1	---	3.60	---	---	12	20%	
Iron	**998**	---	50.0	ug/L	1	---	976	---	---	2	20%	
Lead	**0.419**	---	0.200	ug/L	1	---	0.432	---	---	3	20%	
Mercury	ND	---	0.0800	ug/L	1	---	0.0839	---	---	***	20%	
Selenium	ND	---	1.00	ug/L	1	---	ND	---	---	---	20%	
Silver	ND	---	0.200	ug/L	1	---	ND	---	---	---	20%	
Duplicate (23E0048-DUP2)			Prepared: 05/01/23 12:48		Analyzed: 05/02/23 23:50							
QC Source Sample: Non-SDG (A3D1458-01RE1)												
Manganese	**55.4**	---	1.00	ug/L	1	---	54.8	---	---	1	20%	Q-16
Matrix Spike (23E0048-MS1)			Prepared: 05/01/23 12:48		Analyzed: 05/02/23 00:53							
QC Source Sample: Non-SDG (A3D1458-01)												
EPA 6020B												
Arsenic	58.4	---	1.00	ug/L	1	55.6	1.25	103	75-125%	---	---	
Barium	105	---	2.00	ug/L	1	55.6	49.0	101	75-125%	---	---	
Cadmium	55.3	---	0.200	ug/L	1	55.6	ND	100	75-125%	---	---	
Chromium	57.2	---	2.00	ug/L	1	55.6	3.60	97	75-125%	---	---	
Iron	3640	---	50.0	ug/L	1	2780	976	96	75-125%	---	---	
Lead	54.8	---	0.200	ug/L	1	55.6	0.432	98	75-125%	---	---	
Mercury	1.10	---	0.0800	ug/L	1	1.11	0.0839	92	75-125%	---	---	
Selenium	27.9	---	1.00	ug/L	1	27.8	ND	101	75-125%	---	---	
Silver	26.1	---	0.200	ug/L	1	27.8	ND	94	75-125%	---	---	
Matrix Spike (23E0048-MS2)			Prepared: 05/01/23 12:48		Analyzed: 05/02/23 23:55							
QC Source Sample: Non-SDG (A3D1458-01RE1)												
EPA 6020B												
Manganese	109	---	1.00	ug/L	1	55.6	54.8	98	75-125%	---	---	Q-16

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ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.01.002	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3D1700 - 05 23 23 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0390 - EPA 1311/3015A							**Solid**					
Blank (23E0390-BLK1)			Prepared: 05/09/23 11:08 Analyzed: 05/09/23 15:13									
1311/6020B												
Lead	ND	---	0.0500	mg/L	10	---	---	---	---	---	---	TCLP
LCS (23E0390-BS1)			Prepared: 05/09/23 11:08 Analyzed: 05/09/23 15:18									
1311/6020B												
Lead	5.50	---	0.0500	mg/L	10	5.00	---	110	80-120%	---	---	TCLP
Duplicate (23E0390-DUP1)			Prepared: 05/09/23 11:08 Analyzed: 05/09/23 15:28									
QC Source Sample: Ink-S-002 (A3D1700-03)												
1311/6020B												
Lead	ND	---	0.0500	mg/L	10	---	ND	---	---	---	20%	
Matrix Spike (23E0390-MS1)			Prepared: 05/09/23 11:08 Analyzed: 05/09/23 15:33									
QC Source Sample: Ink-S-002 (A3D1700-03)												
1311/6020B												
Lead	5.40	---	0.0500	mg/L	10	5.00	ND	108	50-150%	---	---	

Apex Laboratories

Philip Nerenberg, Lab Director

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APEX LABORATORIES

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

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

SAMPLE PREPARATION INFORMATION

Hydrocarbon Identification Screen by NWTPH-HCID

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E0098							
A3D1700-01	Water	NWTPH-HCID	04/28/23 08:54	05/02/23 14:40	1040mL/5mL	1000mL/5mL	0.96

Prep: NWTPH-HCID (Soil)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E0068							
A3D1700-02	Solid	NWTPH-HCID	04/28/23 09:10	05/02/23 07:22	10.36g/10mL	10g/10mL	0.97
A3D1700-03	Concrete	NWTPH-HCID	04/28/23 09:22	05/02/23 07:22	10.57g/10mL	10g/10mL	0.95

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E0378							
A3D1700-02RE1	Solid	NWTPH-Dx	04/28/23 09:10	05/09/23 09:45	10.92g/10mL	10g/5mL	1.83
A3D1700-03	Concrete	NWTPH-Dx	04/28/23 09:22	05/09/23 09:45	10.85g/5mL	10g/5mL	0.92

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E0310							
A3D1700-02	Solid	NWTPH-Gx (MS)	04/28/23 09:10	04/28/23 12:35	5.13g/5mL	5g/5mL	0.98
A3D1700-03	Concrete	NWTPH-Gx (MS)	04/28/23 09:22	04/28/23 12:37	5.03g/5mL	5g/5mL	0.99

Polychlorinated Biphenyls by EPA 8082A

Prep: EPA 3510C (Neutral pH)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E0041							
A3D1700-01	Water	EPA 8082A	04/28/23 08:54	05/01/23 11:28	1020mL/5mL	1000mL/5mL	0.98

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E0083							
A3D1700-02	Solid	EPA 8082A	04/28/23 09:10	05/02/23 10:07	2.73g/5mL	2g/5mL	0.73
A3D1700-03	Concrete	EPA 8082A	04/28/23 09:22	05/02/23 10:07	2.83g/5mL	2g/5mL	0.71

Apex Laboratories

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Philip Nerenberg

Philip Nerenberg, Lab Director

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503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.01.002	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3D1700 - 05 23 23 1457

SAMPLE PREPARATION INFORMATION

Polychlorinated Biphenyls by EPA 8082A

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor

Semivolatile Organic Compounds by EPA 8270E

Prep: EPA 3510C (Acid/Base Neutral)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E0159							
A3D1700-01RE1	Water	EPA 8270E	04/28/23 08:54	05/03/23 11:46	770mL/1mL	1000mL/1mL	1.30

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E0084							
A3D1700-02	Solid	EPA 8270E	04/28/23 09:10	05/02/23 10:09	15.11g/5mL	15g/2mL	2.48
A3D1700-03	Concrete	EPA 8270E	04/28/23 09:22	05/02/23 10:09	15.1g/2mL	15g/2mL	0.99

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E0048							
A3D1700-01	Water	EPA 6020B	04/28/23 08:54	05/01/23 12:48	45mL/50mL	45mL/50mL	1.00
A3D1700-01RE1	Water	EPA 6020B	04/28/23 08:54	05/01/23 12:48	45mL/50mL	45mL/50mL	1.00

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E0003							
A3D1700-02	Solid	EPA 6020B	04/28/23 09:10	05/01/23 06:40	0.458g/50mL	0.5g/50mL	1.09
A3D1700-03	Concrete	EPA 6020B	04/28/23 09:22	05/01/23 06:40	0.49g/50mL	0.5g/50mL	1.02

TCLP Metals by EPA 6020B (ICPMS)

Prep: EPA 1311/3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E0390							
A3D1700-03	Concrete	1311/6020B	04/28/23 09:22	05/09/23 11:08	10mL/50mL	10mL/50mL	1.00

TCLP Extraction by EPA 1311

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Philip Nerenberg, Lab Director

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

SAMPLE PREPARATION INFORMATION

TCLP Extraction by EPA 1311

Prep: EPA 1311 (TCLP)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E0353							
A3D1700-03	Concrete	EPA 1311	04/28/23 09:22	05/08/23 16:41	100g/2000.1g	100g/2000g	NA

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.01.002	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3D1700 - 05 23 23 1457

QUALIFIER DEFINITIONS

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

Apex Laboratories

B-02	Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
C-07	Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
F-13	The chromatographic pattern does not resemble the fuel standard used for quantitation
P-12	Result estimated due to the presence of multiple PCB Aroclors and/or PCB congeners not defined as Aroclors.
Q-16	Reanalysis of an original Batch QC sample.
Q-17	RPD between original and duplicate sample is outside of established control limits.
Q-18	Matrix Spike results for this extraction batch are not reported due to the high dilution necessary for analysis of the source sample.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
Q-24	The RPD for this spike and spike duplicate is above established control limits. Recoveries for both the spike and spike duplicate are within control limits.
Q-29	Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
Q-31	Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
Q-41	Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
Q-42	Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
Q-52	Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
Q-65	Spike recovery is estimated due to the high analyte concentration of the source sample.
R-04	Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.
S-01	Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
S-05	Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
TCLP	This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23E0353.
V-15	Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.

Apex Laboratories

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Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

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

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

" dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

" wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

Results for Volatiles analyses on soils and sediments that are reported on a “dry weight” basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an “As Received” basis do not have the WMS correction applied, as dry weight was not performed.

QC Source:

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

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

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Laboratories

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Philip Nerenberg

Philip Nerenberg, Lab Director

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Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

-Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories, LLC
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503-718-2323
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ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

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Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Laboratories, LLC
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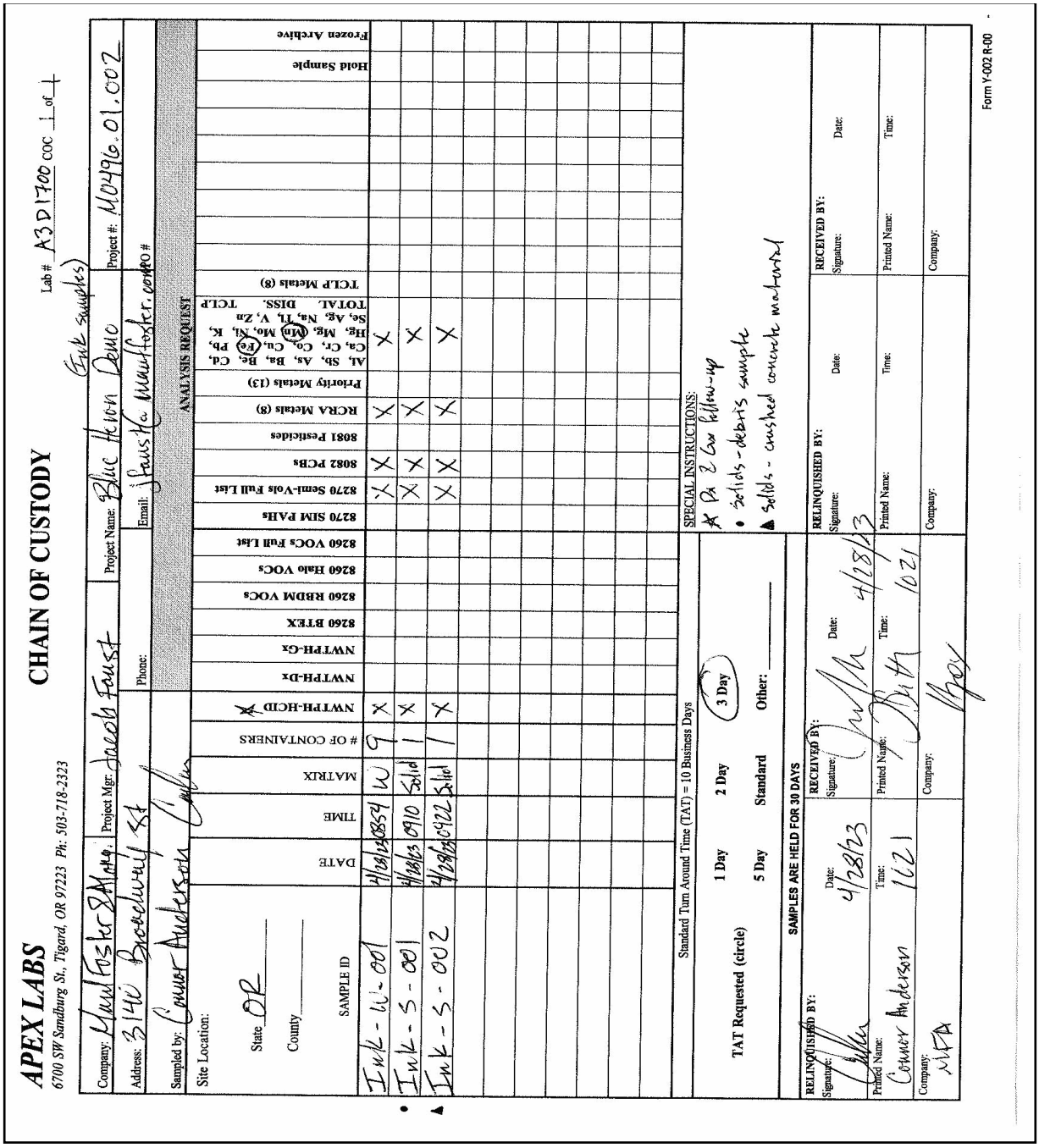
ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**



CHAIN OF CUSTODY

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

Lab # A3D1700 COC 1 of 1

Company: Maul Foster & Alongi Project Mgr: Jacob Faust Project Name: Blue Heron Demo Project #: M0496.01.002
Address: 3140 Broadway St Phone: Email: jfaust@maulfoster.com PO #
Sampled by: Conner Anderson Site Location: State OR County

SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pesticides	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS. TCLP	TCLP Metals (8)	Hold Sample	Frozen Archive
Ink-11-001	4/18/23	0854	W	9	X								X	X		X		X			
• Ink-S-001	4/18/23	0910	Solid	1	X								X	X		X		X			
▲ Ink-S-002	4/18/23	0922	Solid	1	X								X	X		X		X			

Standard Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): 1 Day 2 Day 3 Day 5 Day Standard Other: _____

SAMPLES ARE HELD FOR 30 DAYS

SPECIAL INSTRUCTIONS:
* Pa & Ca filter-up
• Solids - debris sample
▲ Solids - crushed concrete mortar

RELINQUISHED BY:	Date:	Time:	RECEIVED BY:	Date:	Time:
Signature:	4/18/23	1621	Signature:		
Printed Name: Conner Anderson			Printed Name:		
Company: MFA			Company:		

RELINQUISHED BY:	Date:	Time:	RECEIVED BY:	Date:	Time:
Signature:	4/18/23	1621	Signature:		
Printed Name:			Printed Name:		
Company:			Company:		

RELINQUISHED BY:	Date:	Time:	RECEIVED BY:	Date:	Time:
Signature:			Signature:		
Printed Name:			Printed Name:		
Company:			Company:		

Form Y-002 R-00

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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APEX LABORATORIES

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.01.002**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3D1700 - 05 23 23 1457**

APEX LABS COOLER RECEIPT FORM

Client: Maul Foster Element WO#: A3D1700

Project/Project #: Blue Heron Demo Ink Samples M0496.01.002

Delivery Info:

Date/time received: 4/28/23@ 1021 By: JS

Delivered by: Apex__Client_X_ESS___FedEx__UPS__Radio___Morgan ___SDS___Evergreen___Other ___

Cooler Inspection Date/time inspected: 4/28/23@ 1025 By: JS

Chain of Custody included? Yes X No _____

Signed/dated by client? Yes ✓ No _____

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	3.1						
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Real						
Condition (In/Out):	In						

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

Green dots applied to out of temperature samples? Yes/No

Out of temperature samples form initiated? Yes/No

Sample Inspection: Date/time inspected: 4.28.23@ 1055 By: DJS

All samples intact? Yes X No ___ Comments: _____

Bottle labels/COCs agree? Yes X No ___ Comments: _____

COC/container discrepancies form initiated? Yes ___ No X

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

Do VOA vials have visible headspace? Yes ___ No X NA ____

Comments _____

Water samples: pH checked: Yes X No___NA___ pH appropriate? Yes X No___NA____

Comments: _____

Additional information: _____

Labeled by: DSS Witness: APW Cooler Inspected by: DJS

Form Y-003 R-00 -

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Philip Nerenberg

Philip Nerenberg, Lab Director

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

ANALYTICAL REPORT

Wednesday, June 7, 2023

Jacob Faust
Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

RE: A3E1053 - Blue Heron Paper Mill - M0496.02.003

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3E1053, which was received by the laboratory on 5/5/2023 at 9:40:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler	1.0	degC

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

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3E1053 - 06 07 23 1055**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Ink-W-002	**A3E1053-01**	**Water**	**05/05/23 08:20**	**05/05/23 09:40**

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.02.003	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3E1053 - 06 07 23 1055

ANALYTICAL CASE NARRATIVE

A3E1053	Apex Laboratories

Subcontract

This report is complete only if it includes the attached subcontract laboratory report from Ceres Analytical .

Cameron O'Brien
Project Manager
5/10/23

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

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.02.003	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3E1053 - 06 07 23 1055

ANALYTICAL SAMPLE RESULTS

Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Ink-W-002 (A3E1053-01)				**Matrix: Water**		**Batch: 23E0395**		
Gasoline Range Organics	ND	---	0.0980	mg/L	1	05/09/23 23:23	NWTPH-HCID	
Diesel Range Organics	ND	---	0.245	mg/L	1	05/09/23 23:23	NWTPH-HCID	
Oil Range Organics	ND	---	0.245	mg/L	1	05/09/23 23:23	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)		*Recovery:*	*108 %*	*Limits: 50-150 %*	*1*	*05/09/23 23:23*	*NWTPH-HCID*	
4-Bromofluorobenzene (Surr)			*29 %*	*10-120 %*	*1*	*05/09/23 23:23*	*NWTPH-HCID*	

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3E1053 - 06 07 23 1055**

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Ink-W-002 (A3E1053-01)				**Matrix: Water**		**Batch: 23E0393**		**C-07**
Aroclor 1016	ND	---	0.100	ug/L	1	05/10/23 09:44	EPA 8082A	
Aroclor 1221	ND	---	0.100	ug/L	1	05/10/23 09:44	EPA 8082A	
Aroclor 1232	ND	---	0.100	ug/L	1	05/10/23 09:44	EPA 8082A	
Aroclor 1242	ND	---	0.100	ug/L	1	05/10/23 09:44	EPA 8082A	
Aroclor 1248	ND	---	0.100	ug/L	1	05/10/23 09:44	EPA 8082A	
Aroclor 1254	ND	---	0.100	ug/L	1	05/10/23 09:44	EPA 8082A	
Aroclor 1260	ND	---	0.100	ug/L	1	05/10/23 09:44	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 80 %*		*Limits: 40-135 %*	*1*	*05/10/23 09:44*	*EPA 8082A*	

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Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3E1053 - 06 07 23 1055**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Ink-W-002 (A3E1053-01RE1)				**Matrix: Water**		**Batch: 23E0466**		
Acenaphthene	ND	---	0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
Acenaphthylene	ND	---	0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
Anthracene	ND	---	0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
Benz(a)anthracene	ND	---	0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
Benzo(a)pyrene	ND	---	0.118	ug/L	4	05/10/23 22:31	EPA 8270E	
Benzo(b)fluoranthene	ND	---	0.118	ug/L	4	05/10/23 22:31	EPA 8270E	
Benzo(k)fluoranthene	ND	---	0.118	ug/L	4	05/10/23 22:31	EPA 8270E	
Benzo(g,h,i)perylene	ND	---	0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
Chrysene	ND	---	0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
Dibenz(a,h)anthracene	ND	---	0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
Fluoranthene	ND	---	0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
Fluorene	ND	---	0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	---	0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
1-Methylnaphthalene	ND	---	0.157	ug/L	4	05/10/23 22:31	EPA 8270E	
2-Methylnaphthalene	ND	---	0.157	ug/L	4	05/10/23 22:31	EPA 8270E	
Naphthalene	ND	---	0.157	ug/L	4	05/10/23 22:31	EPA 8270E	
Phenanthrene	**0.126**	---	0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
Pyrene	ND	---	0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
Carbazole	ND	---	0.118	ug/L	4	05/10/23 22:31	EPA 8270E	
Dibenzofuran	ND	---	0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
2-Chlorophenol	ND	---	0.392	ug/L	4	05/10/23 22:31	EPA 8270E	
4-Chloro-3-methylphenol	ND	---	0.784	ug/L	4	05/10/23 22:31	EPA 8270E	
2,4-Dichlorophenol	ND	---	0.392	ug/L	4	05/10/23 22:31	EPA 8270E	
2,4-Dimethylphenol	ND	---	0.392	ug/L	4	05/10/23 22:31	EPA 8270E	
2,4-Dinitrophenol	ND	---	1.96	ug/L	4	05/10/23 22:31	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	---	1.96	ug/L	4	05/10/23 22:31	EPA 8270E	
2-Methylphenol	ND	---	0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
3+4-Methylphenol(s)	ND	---	0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
2-Nitrophenol	ND	---	0.784	ug/L	4	05/10/23 22:31	EPA 8270E	
4-Nitrophenol	ND	---	0.784	ug/L	4	05/10/23 22:31	EPA 8270E	
Pentachlorophenol (PCP)	ND	---	0.784	ug/L	4	05/10/23 22:31	EPA 8270E	
Phenol	ND	---	1.57	ug/L	4	05/10/23 22:31	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	---	0.392	ug/L	4	05/10/23 22:31	EPA 8270E	

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Philip Nerenberg, Lab Director

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

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3E1053 - 06 07 23 1055**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Ink-W-002 (A3E1053-01RE1)				**Matrix: Water**		**Batch: 23E0466**		
2,3,5,6-Tetrachlorophenol	ND	---	0.392	ug/L	4	05/10/23 22:31	EPA 8270E	
2,4,5-Trichlorophenol	ND	---	0.392	ug/L	4	05/10/23 22:31	EPA 8270E	
2,4,6-Trichlorophenol	ND	---	0.392	ug/L	4	05/10/23 22:31	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	---	1.57	ug/L	4	05/10/23 22:31	EPA 8270E	
Butyl benzyl phthalate	ND	---	1.57	ug/L	4	05/10/23 22:31	EPA 8270E	
Diethylphthalate	ND	---	1.57	ug/L	4	05/10/23 22:31	EPA 8270E	
Dimethylphthalate	ND	---	1.57	ug/L	4	05/10/23 22:31	EPA 8270E	
Di-n-butylphthalate	ND	---	1.57	ug/L	4	05/10/23 22:31	EPA 8270E	
Di-n-octyl phthalate	ND	---	1.57	ug/L	4	05/10/23 22:31	EPA 8270E	
N-Nitrosodimethylamine	ND	---	0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	---	0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
N-Nitrosodiphenylamine	ND	---	0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	---	0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	---	0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	---	0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
Hexachlorobenzene	ND	---	0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
Hexachlorobutadiene	ND	---	0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
Hexachlorocyclopentadiene	ND	---	0.392	ug/L	4	05/10/23 22:31	EPA 8270E	
Hexachloroethane	ND	---	0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
2-Chloronaphthalene	ND	---	0.0784	ug/L	4	05/10/23 22:31	EPA 8270E	
1,2,4-Trichlorobenzene	ND	---	0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
4-Bromophenyl phenyl ether	ND	---	0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	---	0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
Aniline	ND	---	0.392	ug/L	4	05/10/23 22:31	EPA 8270E	
4-Chloroaniline	ND	---	0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
2-Nitroaniline	ND	---	1.57	ug/L	4	05/10/23 22:31	EPA 8270E	
3-Nitroaniline	ND	---	1.57	ug/L	4	05/10/23 22:31	EPA 8270E	
4-Nitroaniline	ND	---	1.57	ug/L	4	05/10/23 22:31	EPA 8270E	
Nitrobenzene	ND	---	0.784	ug/L	4	05/10/23 22:31	EPA 8270E	
2,4-Dinitrotoluene	ND	---	0.784	ug/L	4	05/10/23 22:31	EPA 8270E	
2,6-Dinitrotoluene	ND	---	0.784	ug/L	4	05/10/23 22:31	EPA 8270E	
Benzoic acid	ND	---	9.80	ug/L	4	05/10/23 22:31	EPA 8270E	
Benzyl alcohol	ND	---	0.784	ug/L	4	05/10/23 22:31	EPA 8270E	

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Philip Nerenberg

Philip Nerenberg, Lab Director

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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3E1053 - 06 07 23 1055**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Ink-W-002 (A3E1053-01RE1)				**Matrix: Water**		**Batch: 23E0466**		
Isophorone	ND	---	0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
Azobenzene (1,2-DPH)	ND	---	0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	---	1.96	ug/L	4	05/10/23 22:31	EPA 8270E	
3,3'-Dichlorobenzidine	ND	---	3.92	ug/L	4	05/10/23 22:31	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	---	1.96	ug/L	4	05/10/23 22:31	EPA 8270E	
1,3-Dinitrobenzene	ND	---	1.96	ug/L	4	05/10/23 22:31	EPA 8270E	
1,4-Dinitrobenzene	ND	---	1.96	ug/L	4	05/10/23 22:31	EPA 8270E	
Pyridine	ND	---	0.784	ug/L	4	05/10/23 22:31	EPA 8270E	
1,2-Dichlorobenzene	ND	---	0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
1,3-Dichlorobenzene	ND	---	0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
1,4-Dichlorobenzene	ND	---	0.196	ug/L	4	05/10/23 22:31	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery:*	*67 %*	*Limits: 44-120 %*	*4*	*05/10/23 22:31*	*EPA 8270E*	
2-Fluorobiphenyl (Surr)			*69 %*	*44-120 %*	*4*	*05/10/23 22:31*	*EPA 8270E*	
Phenol-d6 (Surr)			*22 %*	*10-133 %*	*4*	*05/10/23 22:31*	*EPA 8270E*	
p-Terphenyl-d14 (Surr)			*88 %*	*50-134 %*	*4*	*05/10/23 22:31*	*EPA 8270E*	
2-Fluorophenol (Surr)			*37 %*	*19-120 %*	*4*	*05/10/23 22:31*	*EPA 8270E*	
2,4,6-Tribromophenol (Surr)			*108 %*	*43-140 %*	*4*	*05/10/23 22:31*	*EPA 8270E*	

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ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: Blue Heron Paper Mill	
3140 NE Broadway Street	Project Number: M0496.02.003	Report ID:
Portland, OR 97232	Project Manager: Jacob Faust	A3E1053 - 06 07 23 1055

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Ink-W-002 (A3E1053-01)				**Matrix: Water**				
Batch: 23E0269								
Arsenic	**4.18**	---	1.00	ug/L	1	05/05/23 20:06	EPA 6020B	
Barium	**20.6**	---	2.00	ug/L	1	05/05/23 20:06	EPA 6020B	
Cadmium	ND	---	0.200	ug/L	1	05/05/23 20:06	EPA 6020B	
Chromium	**9.46**	---	2.00	ug/L	1	05/05/23 20:06	EPA 6020B	
Iron	**900**	---	50.0	ug/L	1	05/05/23 20:06	EPA 6020B	
Lead	**0.810**	---	0.200	ug/L	1	05/05/23 20:06	EPA 6020B	
Manganese	**108**	---	1.00	ug/L	1	05/05/23 20:06	EPA 6020B	
Mercury	ND	---	0.0800	ug/L	1	05/05/23 20:06	EPA 6020B	
Selenium	ND	---	1.00	ug/L	1	05/05/23 20:06	EPA 6020B	
Silver	ND	---	0.200	ug/L	1	05/05/23 20:06	EPA 6020B	

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Portland, OR 97232	Project Manager: Jacob Faust	A3E1053 - 06 07 23 1055

QUALITY CONTROL (QC) SAMPLE RESULTS

Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0395 - EPA 3510C (Fuels/Acid Ext.)									Water			
Blank (23E0395-BLK1)			Prepared: 05/09/23 11:33 Analyzed: 05/09/23 20:39									
NWTPH-HCID												
Gasoline Range Organics	ND	---	0.100	mg/L	1	---	---	---	---	---	---	
Diesel Range Organics	ND	---	0.250	mg/L	1	---	---	---	---	---	---	
Oil Range Organics	ND	---	0.250	mg/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 98 %*	*Limits: 50-150 %*			*Dilution: 1x*					
4-Bromofluorobenzene (Surr)			*22 %*	*10-120 %*			*"*					

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QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0393 - EPA 3510C (Neutral pH)							**Water**					
Blank (23E0393-BLK1)			Prepared: 05/09/23 11:25 Analyzed: 05/10/23 08:51									**C-07**
EPA 8082A												
Aroclor 1016	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
Aroclor 1221	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
Aroclor 1232	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
Aroclor 1242	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
Aroclor 1248	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
Aroclor 1254	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
Aroclor 1260	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 82 %*		*Limits: 40-135 %*				*Dilution: 1x*			
LCS (23E0393-BS1)			Prepared: 05/09/23 11:25 Analyzed: 05/10/23 09:09									**C-07**
EPA 8082A												
Aroclor 1016	1.54	---	0.100	ug/L	1	2.50	---	62	46-129%	---	---	
Aroclor 1260	1.78	---	0.100	ug/L	1	2.50	---	71	45-134%	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 77 %*		*Limits: 40-135 %*				*Dilution: 1x*			
LCS Dup (23E0393-BSD1)			Prepared: 05/09/23 11:25 Analyzed: 05/10/23 09:26									**C-07, Q-19**
EPA 8082A												
Aroclor 1016	1.70	---	0.100	ug/L	1	2.50	---	68	46-129%	10	30%	
Aroclor 1260	1.82	---	0.100	ug/L	1	2.50	---	73	45-134%	2	30%	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 83 %*		*Limits: 40-135 %*				*Dilution: 1x*			

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3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3E1053 - 06 07 23 1055**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0466 - EPA 3510C (Acid/Base Neutral)							**Water**					
Blank (23E0466-BLK1)			Prepared: 05/10/23 14:32		Analyzed: 05/10/23 20:51							
EPA 8270E												
Acenaphthene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Acenaphthylene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Anthracene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	---	0.0300	ug/L	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	---	0.0300	ug/L	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	---	0.0300	ug/L	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Chrysene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Fluoranthene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Fluorene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	---	0.0400	ug/L	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	---	0.0400	ug/L	1	---	---	---	---	---	---	B-02
Naphthalene	ND	---	0.0400	ug/L	1	---	---	---	---	---	---	B-02
Phenanthrene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Pyrene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Carbazole	ND	---	0.0300	ug/L	1	---	---	---	---	---	---	
Dibenzofuran	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
2-Chlorophenol	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
2-Methylphenol	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
2-Nitrophenol	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
4-Nitrophenol	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Phenol	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	---	0.100	ug/L	1	---	---	---	---	---	---	

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Philip Nerenberg, Lab Director

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

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3E1053 - 06 07 23 1055**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0466 - EPA 3510C (Acid/Base Neutral)							**Water**					
Blank (23E0466-BLK1)			Prepared: 05/10/23 14:32		Analyzed: 05/10/23 20:51							
2,3,5,6-Tetrachlorophenol	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Diethylphthalate	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Dimethylphthalate	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
Hexachloroethane	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	---	0.0200	ug/L	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
Aniline	ND	---	0.100	ug/L	1	---	---	---	---	---	---	
4-Chloroaniline	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
2-Nitroaniline	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
3-Nitroaniline	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
4-Nitroaniline	ND	---	0.400	ug/L	1	---	---	---	---	---	---	
Nitrobenzene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Benzoic acid	ND	---	2.50	ug/L	1	---	---	---	---	---	---	
Benzyl alcohol	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Isophorone	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	

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Philip Nerenberg, Lab Director

APEX LABORATORIES

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3E1053 - 06 07 23 1055**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0466 - EPA 3510C (Acid/Base Neutral)							**Water**					
Blank (23E0466-BLK1)			Prepared: 05/10/23 14:32 Analyzed: 05/10/23 20:51									
Azobenzene (1,2-DPH)	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
Bis(2-Ethylhexyl) adipate	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	---	1.00	ug/L	1	---	---	---	---	---	---	Q-52
1,2-Dinitrobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	---	0.500	ug/L	1	---	---	---	---	---	---	
Pyridine	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	---	0.0500	ug/L	1	---	---	---	---	---	---	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 80 %*		*Limits: 44-120 %*				*Dilution: 1x*			
2-Fluorobiphenyl (Surr)			*78 %*		*44-120 %*				*"*			
Phenol-d6 (Surr)			*27 %*		*10-133 %*				*"*			
p-Terphenyl-d14 (Surr)			*104 %*		*50-134 %*				*"*			
2-Fluorophenol (Surr)			*44 %*		*19-120 %*				*"*			
2,4,6-Tribromophenol (Surr)			*89 %*		*43-140 %*				*"*			
LCS (23E0466-BS1)			Prepared: 05/10/23 14:32 Analyzed: 05/10/23 21:24									
EPA 8270E												
Acenaphthene	2.50	---	0.0800	ug/L	4	4.00	---	62	47-122%	---	---	
Acenaphthylene	2.47	---	0.0800	ug/L	4	4.00	---	62	41-130%	---	---	
Anthracene	3.52	---	0.0800	ug/L	4	4.00	---	88	57-123%	---	---	
Benz(a)anthracene	3.70	---	0.0800	ug/L	4	4.00	---	92	58-125%	---	---	
Benzo(a)pyrene	3.46	---	0.120	ug/L	4	4.00	---	86	54-128%	---	---	
Benzo(b)fluoranthene	3.47	---	0.120	ug/L	4	4.00	---	87	53-131%	---	---	
Benzo(k)fluoranthene	3.40	---	0.120	ug/L	4	4.00	---	85	57-129%	---	---	
Benzo(g,h,i)perylene	3.99	---	0.0800	ug/L	4	4.00	---	100	50-134%	---	---	
Chrysene	3.75	---	0.0800	ug/L	4	4.00	---	94	59-123%	---	---	
Dibenz(a,h)anthracene	3.84	---	0.0800	ug/L	4	4.00	---	96	51-134%	---	---	
Fluoranthene	4.00	---	0.0800	ug/L	4	4.00	---	100	57-128%	---	---	
Fluorene	3.05	---	0.0800	ug/L	4	4.00	---	76	52-124%	---	---	
Indeno(1,2,3-cd)pyrene	3.62	---	0.0800	ug/L	4	4.00	---	91	52-134%	---	---	
1-Methylnaphthalene	1.97	---	0.160	ug/L	4	4.00	---	49	41-120%	---	---	
2-Methylnaphthalene	2.11	---	0.160	ug/L	4	4.00	---	53	40-121%	---	---	B-02

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ORELAP ID: **OR100062**

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3E1053 - 06 07 23 1055**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0466 - EPA 3510C (Acid/Base Neutral)							**Water**					
LCS (23E0466-BS1)			Prepared: 05/10/23 14:32		Analyzed: 05/10/23 21:24							
Naphthalene	1.82	---	0.160	ug/L	4	4.00	---	45	40-121%	---	---	B-02
Phenanthrene	3.43	---	0.0800	ug/L	4	4.00	---	86	59-120%	---	---	
Pyrene	3.81	---	0.0800	ug/L	4	4.00	---	95	57-126%	---	---	
Carbazole	4.27	---	0.120	ug/L	4	4.00	---	107	60-122%	---	---	
Dibenzofuran	2.77	---	0.0800	ug/L	4	4.00	---	69	53-120%	---	---	
2-Chlorophenol	1.86	---	0.400	ug/L	4	4.00	---	46	38-120%	---	---	
4-Chloro-3-methylphenol	3.07	---	0.800	ug/L	4	4.00	---	77	52-120%	---	---	
2,4-Dichlorophenol	2.31	---	0.400	ug/L	4	4.00	---	58	47-121%	---	---	
2,4-Dimethylphenol	2.36	---	0.400	ug/L	4	4.00	---	59	31-124%	---	---	
2,4-Dinitrophenol	5.13	---	2.00	ug/L	4	4.00	---	128	23-143%	---	---	Q-41
4,6-Dinitro-2-methylphenol	5.13	---	2.00	ug/L	4	4.00	---	128	44-137%	---	---	Q-41
2-Methylphenol	1.77	---	0.200	ug/L	4	4.00	---	44	30-120%	---	---	
3+4-Methylphenol(s)	1.76	---	0.200	ug/L	4	4.00	---	44	29-120%	---	---	
2-Nitrophenol	2.25	---	0.800	ug/L	4	4.00	---	56	47-123%	---	---	
4-Nitrophenol	1.40	---	0.800	ug/L	4	4.00	---	35	10-120%	---	---	
Pentachlorophenol (PCP)	4.10	---	0.800	ug/L	4	4.00	---	102	35-138%	---	---	
Phenol	0.887	---	0.800	ug/L	4	4.00	---	22	10-120%	---	---	
2,3,4,6-Tetrachlorophenol	3.73	---	0.400	ug/L	4	4.00	---	93	50-128%	---	---	
2,3,5,6-Tetrachlorophenol	3.85	---	0.400	ug/L	4	4.00	---	96	50-121%	---	---	
2,4,5-Trichlorophenol	3.50	---	0.400	ug/L	4	4.00	---	87	53-123%	---	---	
2,4,6-Trichlorophenol	2.62	---	0.400	ug/L	4	4.00	---	65	50-125%	---	---	
Bis(2-ethylhexyl)phthalate	4.84	---	1.60	ug/L	4	4.00	---	121	55-135%	---	---	
Butyl benzyl phthalate	4.42	---	1.60	ug/L	4	4.00	---	110	53-134%	---	---	
Diethylphthalate	3.48	---	1.60	ug/L	4	4.00	---	87	56-125%	---	---	
Dimethylphthalate	3.31	---	1.60	ug/L	4	4.00	---	83	45-127%	---	---	
Di-n-butylphthalate	22.5	---	1.60	ug/L	4	4.00	---	**562**	**59-127%**	---	---	Q-29
Di-n-octyl phthalate	3.87	---	1.60	ug/L	4	4.00	---	97	51-140%	---	---	
N-Nitrosodimethylamine	1.10	---	0.200	ug/L	4	4.00	---	27	19-120%	---	---	
N-Nitroso-di-n-propylamine	2.15	---	0.200	ug/L	4	4.00	---	54	49-120%	---	---	
N-Nitrosodiphenylamine	3.46	---	0.200	ug/L	4	4.00	---	86	51-123%	---	---	
Bis(2-Chloroethoxy) methane	2.02	---	0.200	ug/L	4	4.00	---	51	48-120%	---	---	
Bis(2-Chloroethyl) ether	1.96	---	0.200	ug/L	4	4.00	---	49	43-120%	---	---	
2,2'-Oxybis(1-Chloropropane)	1.74	---	0.200	ug/L	4	4.00	---	43	41-120%	---	---	
Hexachlorobenzene	2.89	---	0.0800	ug/L	4	4.00	---	72	53-125%	---	---	

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3E1053 - 06 07 23 1055**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0466 - EPA 3510C (Acid/Base Neutral)							**Water**					
LCS (23E0466-BS1)			Prepared: 05/10/23 14:32		Analyzed: 05/10/23 21:24							
Hexachlorobutadiene	1.45	---	0.200	ug/L	4	4.00	---	36	22-124%	---	---	
Hexachlorocyclopentadiene	1.75	---	0.400	ug/L	4	4.00	---	44	10-127%	---	---	Q-41
Hexachloroethane	1.41	---	0.200	ug/L	4	4.00	---	35	21-120%	---	---	
2-Chloronaphthalene	2.16	---	0.0800	ug/L	4	4.00	---	54	40-120%	---	---	
1,2,4-Trichlorobenzene	1.61	---	0.200	ug/L	4	4.00	---	40	29-120%	---	---	
4-Bromophenyl phenyl ether	3.14	---	0.200	ug/L	4	4.00	---	79	55-124%	---	---	
4-Chlorophenyl phenyl ether	2.90	---	0.200	ug/L	4	4.00	---	73	53-121%	---	---	
Aniline	1.35	---	0.400	ug/L	4	4.00	---	34	10-120%	---	---	
4-Chloroaniline	1.89	---	0.200	ug/L	4	4.00	---	47	33-120%	---	---	
2-Nitroaniline	3.59	---	1.60	ug/L	4	4.00	---	90	55-127%	---	---	
3-Nitroaniline	4.00	---	1.60	ug/L	4	4.00	---	100	41-128%	---	---	Q-41
4-Nitroaniline	3.23	---	1.60	ug/L	4	4.00	---	81	25-120%	---	---	
Nitrobenzene	2.09	---	0.800	ug/L	4	4.00	---	52	45-121%	---	---	
2,4-Dinitrotoluene	3.74	---	0.800	ug/L	4	4.00	---	93	57-128%	---	---	
2,6-Dinitrotoluene	3.22	---	0.800	ug/L	4	4.00	---	80	57-124%	---	---	
Benzoic acid	4.40	---	4.00	ug/L	4	8.00	---	55	10-120%	---	---	
Benzyl alcohol	1.72	---	0.800	ug/L	4	4.00	---	43	31-120%	---	---	
Isophorone	2.21	---	0.200	ug/L	4	4.00	---	55	42-124%	---	---	
Azobenzene (1,2-DPH)	3.31	---	0.200	ug/L	4	4.00	---	83	61-120%	---	---	
Bis(2-Ethylhexyl) adipate	4.22	---	2.00	ug/L	4	4.00	---	105	63-121%	---	---	
3,3'-Dichlorobenzidine	15.6	---	4.00	ug/L	4	8.00	---	**195**	**27-129%**	---	---	Q-29, Q-52
1,2-Dinitrobenzene	3.43	---	2.00	ug/L	4	4.00	---	86	59-120%	---	---	
1,3-Dinitrobenzene	3.69	---	2.00	ug/L	4	4.00	---	92	49-128%	---	---	Q-41
1,4-Dinitrobenzene	3.77	---	2.00	ug/L	4	4.00	---	94	54-120%	---	---	Q-41
Pyridine	1.08	---	0.800	ug/L	4	4.00	---	27	10-120%	---	---	
1,2-Dichlorobenzene	1.50	---	0.200	ug/L	4	4.00	---	37	32-120%	---	---	
1,3-Dichlorobenzene	1.45	---	0.200	ug/L	4	4.00	---	36	28-120%	---	---	
1,4-Dichlorobenzene	1.47	---	0.200	ug/L	4	4.00	---	37	29-120%	---	---	

Surr: Nitrobenzene-d5 (Surr)	*Recovery: 49 %*	*Limits: 44-120 %*	*Dilution: 4x*
2-Fluorobiphenyl (Surr)	*54 %*	*44-120 %*	*"*
Phenol-d6 (Surr)	*18 %*	*10-133 %*	*"*
p-Terphenyl-d14 (Surr)	*95 %*	*50-134 %*	*"*
2-Fluorophenol (Surr)	*27 %*	*19-120 %*	*"*
2,4,6-Tribromophenol (Surr)	*95 %*	*43-140 %*	*"*

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Portland, OR 97232	Project Manager: **Jacob Faust**	**A3E1053 - 06 07 23 1055**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0466 - EPA 3510C (Acid/Base Neutral)							**Water**					
LCS Dup (23E0466-BSD1)			Prepared: 05/10/23 14:32		Analyzed: 05/10/23 21:57							**Q-19**
EPA 8270E												
Acenaphthene	3.31	---	0.0800	ug/L	4	4.00	---	83	47-122%	28	30%	
Acenaphthylene	3.34	---	0.0800	ug/L	4	4.00	---	84	41-130%	30	30%	
Anthracene	3.54	---	0.0800	ug/L	4	4.00	---	89	57-123%	0.7	30%	
Benz(a)anthracene	3.58	---	0.0800	ug/L	4	4.00	---	89	58-125%	3	30%	
Benzo(a)pyrene	3.37	---	0.120	ug/L	4	4.00	---	84	54-128%	2	30%	
Benzo(b)fluoranthene	3.38	---	0.120	ug/L	4	4.00	---	84	53-131%	3	30%	
Benzo(k)fluoranthene	3.48	---	0.120	ug/L	4	4.00	---	87	57-129%	3	30%	
Benzo(g,h,i)perylene	3.70	---	0.0800	ug/L	4	4.00	---	93	50-134%	7	30%	
Chrysene	3.62	---	0.0800	ug/L	4	4.00	---	90	59-123%	4	30%	
Dibenz(a,h)anthracene	3.59	---	0.0800	ug/L	4	4.00	---	90	51-134%	7	30%	
Fluoranthene	3.27	---	0.0800	ug/L	4	4.00	---	82	57-128%	20	30%	
Fluorene	3.64	---	0.0800	ug/L	4	4.00	---	91	52-124%	18	30%	
Indeno(1,2,3-cd)pyrene	3.41	---	0.0800	ug/L	4	4.00	---	85	52-134%	6	30%	
1-Methylnaphthalene	3.10	---	0.160	ug/L	4	4.00	---	78	41-120%	**45**	**30%**	Q-24
2-Methylnaphthalene	3.25	---	0.160	ug/L	4	4.00	---	81	40-121%	**42**	**30%**	Q-24, B-02
Naphthalene	3.01	---	0.160	ug/L	4	4.00	---	75	40-121%	**49**	**30%**	Q-24, B-02
Phenanthrene	3.41	---	0.0800	ug/L	4	4.00	---	85	59-120%	0.5	30%	
Pyrene	3.19	---	0.0800	ug/L	4	4.00	---	80	57-126%	18	30%	
Carbazole	4.01	---	0.120	ug/L	4	4.00	---	100	60-122%	6	30%	
Dibenzofuran	3.53	---	0.0800	ug/L	4	4.00	---	88	53-120%	24	30%	
2-Chlorophenol	2.93	---	0.400	ug/L	4	4.00	---	73	38-120%	**45**	**30%**	Q-24
4-Chloro-3-methylphenol	3.47	---	0.800	ug/L	4	4.00	---	87	52-120%	12	30%	
2,4-Dichlorophenol	3.21	---	0.400	ug/L	4	4.00	---	80	47-121%	**33**	**30%**	Q-24
2,4-Dimethylphenol	2.97	---	0.400	ug/L	4	4.00	---	74	31-124%	23	30%	
2,4-Dinitrophenol	4.70	---	2.00	ug/L	4	4.00	---	118	23-143%	9	30%	Q-41
4,6-Dinitro-2-methylphenol	4.99	---	2.00	ug/L	4	4.00	---	125	44-137%	3	30%	Q-41
2-Methylphenol	2.69	---	0.200	ug/L	4	4.00	---	67	30-120%	**41**	**30%**	Q-24
3+4-Methylphenol(s)	2.48	---	0.200	ug/L	4	4.00	---	62	29-120%	**34**	**30%**	Q-24
2-Nitrophenol	4.21	---	0.800	ug/L	4	4.00	---	105	47-123%	**61**	**30%**	Q-24
4-Nitrophenol	1.36	---	0.800	ug/L	4	4.00	---	34	10-120%	3	30%	
Pentachlorophenol (PCP)	3.41	---	0.800	ug/L	4	4.00	---	85	35-138%	18	30%	
Phenol	ND	---	1.60	ug/L	4	4.00	---	32	10-120%	**37**	**30%**	Q-24
2,3,4,6-Tetrachlorophenol	3.66	---	0.400	ug/L	4	4.00	---	91	50-128%	2	30%	

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Philip Nerenberg, Lab Director

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503-718-2323
ORELAP ID: **OR100062**

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3E1053 - 06 07 23 1055**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0466 - EPA 3510C (Acid/Base Neutral)							**Water**					
LCS Dup (23E0466-BSD1)			Prepared: 05/10/23 14:32		Analyzed: 05/10/23 21:57							**Q-19**
2,3,5,6-Tetrachlorophenol	3.72	---	0.400	ug/L	4	4.00	---	93	50-121%	3	30%	
2,4,5-Trichlorophenol	3.80	---	0.400	ug/L	4	4.00	---	95	53-123%	8	30%	
2,4,6-Trichlorophenol	3.23	---	0.400	ug/L	4	4.00	---	81	50-125%	21	30%	
Bis(2-ethylhexyl)phthalate	3.55	---	1.60	ug/L	4	4.00	---	89	55-135%	**31**	**30%**	Q-24
Butyl benzyl phthalate	3.85	---	1.60	ug/L	4	4.00	---	96	53-134%	14	30%	
Diethylphthalate	3.78	---	1.60	ug/L	4	4.00	---	95	56-125%	8	30%	
Dimethylphthalate	3.63	---	1.60	ug/L	4	4.00	---	91	45-127%	9	30%	
Di-n-butylphthalate	4.05	---	1.60	ug/L	4	4.00	---	101	59-127%	**139**	**30%**	Q-01
Di-n-octyl phthalate	3.39	---	1.60	ug/L	4	4.00	---	85	51-140%	13	30%	
N-Nitrosodimethylamine	1.77	---	0.200	ug/L	4	4.00	---	44	19-120%	**47**	**30%**	Q-24
N-Nitroso-di-n-propylamine	3.69	---	0.200	ug/L	4	4.00	---	92	49-120%	**53**	**30%**	Q-24
N-Nitrosodiphenylamine	3.50	---	0.200	ug/L	4	4.00	---	88	51-123%	1	30%	
Bis(2-Chloroethoxy) methane	3.44	---	0.200	ug/L	4	4.00	---	86	48-120%	**52**	**30%**	Q-24
Bis(2-Chloroethyl) ether	3.19	---	0.200	ug/L	4	4.00	---	80	43-120%	**48**	**30%**	Q-24
2,2'-Oxybis(1-Chloropropane)	3.39	---	0.200	ug/L	4	4.00	---	85	41-120%	**65**	**30%**	Q-24
Hexachlorobenzene	2.97	---	0.0800	ug/L	4	4.00	---	74	53-125%	3	30%	
Hexachlorobutadiene	2.50	---	0.200	ug/L	4	4.00	---	62	22-124%	**53**	**30%**	Q-24
Hexachlorocyclopentadiene	2.93	---	0.400	ug/L	4	4.00	---	73	10-127%	**50**	**30%**	Q-24, Q-41
Hexachloroethane	2.76	---	0.200	ug/L	4	4.00	---	69	21-120%	**65**	**30%**	Q-24
2-Chloronaphthalene	3.20	---	0.0800	ug/L	4	4.00	---	80	40-120%	**39**	**30%**	Q-24
1,2,4-Trichlorobenzene	2.69	---	0.200	ug/L	4	4.00	---	67	29-120%	**50**	**30%**	Q-24
4-Bromophenyl phenyl ether	3.32	---	0.200	ug/L	4	4.00	---	83	55-124%	5	30%	
4-Chlorophenyl phenyl ether	3.49	---	0.200	ug/L	4	4.00	---	87	53-121%	18	30%	
Aniline	2.14	---	0.400	ug/L	4	4.00	---	54	10-120%	**45**	**30%**	Q-24
4-Chloroaniline	2.57	---	0.200	ug/L	4	4.00	---	64	33-120%	30	30%	
2-Nitroaniline	4.05	---	1.60	ug/L	4	4.00	---	101	55-127%	12	30%	
3-Nitroaniline	4.19	---	1.60	ug/L	4	4.00	---	105	41-128%	5	30%	Q-41
4-Nitroaniline	3.66	---	1.60	ug/L	4	4.00	---	92	25-120%	13	30%	
Nitrobenzene	3.44	---	0.800	ug/L	4	4.00	---	86	45-121%	**49**	**30%**	Q-24
2,4-Dinitrotoluene	3.98	---	0.800	ug/L	4	4.00	---	100	57-128%	6	30%	
2,6-Dinitrotoluene	3.58	---	0.800	ug/L	4	4.00	---	89	57-124%	11	30%	
Benzoic acid	4.40	---	4.00	ug/L	4	8.00	---	55	10-120%	0.05	30%	
Benzyl alcohol	2.76	---	0.800	ug/L	4	4.00	---	69	31-120%	**47**	**30%**	Q-24
Isophorone	3.58	---	0.200	ug/L	4	4.00	---	90	42-124%	**48**	**30%**	Q-24

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ORELAP ID: **OR100062**

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3E1053 - 06 07 23 1055**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0466 - EPA 3510C (Acid/Base Neutral)							**Water**					
LCS Dup (23E0466-BSD1)			Prepared: 05/10/23 14:32		Analyzed: 05/10/23 21:57							**Q-19**
Azobenzene (1,2-DPH)	3.90	---	0.200	ug/L	4	4.00	---	98	61-120%	17	30%	
Bis(2-Ethylhexyl) adipate	3.61	---	2.00	ug/L	4	4.00	---	90	63-121%	16	30%	
3,3'-Dichlorobenzidine	13.5	---	4.00	ug/L	4	8.00	---	**168**	**27-129%**	15	30%	Q-29, Q-52
1,2-Dinitrobenzene	3.77	---	2.00	ug/L	4	4.00	---	94	59-120%	9	30%	
1,3-Dinitrobenzene	4.13	---	2.00	ug/L	4	4.00	---	103	49-128%	11	30%	Q-41
1,4-Dinitrobenzene	4.22	---	2.00	ug/L	4	4.00	---	105	54-120%	11	30%	Q-41
Pyridine	2.02	---	0.800	ug/L	4	4.00	---	50	10-120%	**61**	**30%**	Q-24
1,2-Dichlorobenzene	2.68	---	0.200	ug/L	4	4.00	---	67	32-120%	**56**	**30%**	Q-24
1,3-Dichlorobenzene	2.62	---	0.200	ug/L	4	4.00	---	66	28-120%	**58**	**30%**	Q-24
1,4-Dichlorobenzene	2.62	---	0.200	ug/L	4	4.00	---	66	29-120%	**56**	**30%**	Q-24
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 84 %*		*Limits: 44-120 %*			*Dilution: 4x*				
2-Fluorobiphenyl (Surr)			*78 %*		*44-120 %*			*"*				
Phenol-d6 (Surr)			*26 %*		*10-133 %*			*"*				
p-Terphenyl-d14 (Surr)			*93 %*		*50-134 %*			*"*				
2-Fluorophenol (Surr)			*42 %*		*19-120 %*			*"*				
2,4,6-Tribromophenol (Surr)			*84 %*		*43-140 %*			*"*				

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ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3E1053 - 06 07 23 1055**

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0269 - EPA 3015A								**Water**				
Blank (23E0269-BLK1)			Prepared: 05/05/23 10:42 Analyzed: 05/05/23 18:33									
EPA 6020B												
Arsenic	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Barium	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
Cadmium	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Chromium	ND	---	2.00	ug/L	1	---	---	---	---	---	---	
Iron	ND	---	50.0	ug/L	1	---	---	---	---	---	---	
Lead	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
Manganese	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Mercury	ND	---	0.0800	ug/L	1	---	---	---	---	---	---	
Selenium	ND	---	1.00	ug/L	1	---	---	---	---	---	---	
Silver	ND	---	0.200	ug/L	1	---	---	---	---	---	---	
LCS (23E0269-BS1)			Prepared: 05/05/23 10:42 Analyzed: 05/05/23 18:38									
EPA 6020B												
Arsenic	51.1	---	1.00	ug/L	1	55.6	---	92	80-120%	---	---	
Barium	52.3	---	2.00	ug/L	1	55.6	---	94	80-120%	---	---	
Cadmium	48.8	---	0.200	ug/L	1	55.6	---	88	80-120%	---	---	
Chromium	50.3	---	2.00	ug/L	1	55.6	---	91	80-120%	---	---	
Iron	2730	---	50.0	ug/L	1	2780	---	98	80-120%	---	---	
Lead	54.3	---	0.200	ug/L	1	55.6	---	98	80-120%	---	---	
Manganese	51.0	---	1.00	ug/L	1	55.6	---	92	80-120%	---	---	
Mercury	0.959	---	0.0800	ug/L	1	1.11	---	86	80-120%	---	---	
Selenium	27.8	---	1.00	ug/L	1	27.8	---	100	80-120%	---	---	
Silver	25.9	---	0.200	ug/L	1	27.8	---	93	80-120%	---	---	
Duplicate (23E0269-DUP1)			Prepared: 05/05/23 10:42 Analyzed: 05/05/23 19:27									
QC Source Sample: Non-SDG (A3E0994-01)												
Arsenic	**4.56**	---	1.00	ug/L	1	---	4.68	---	---	2	20%	
Barium	**5.61**	---	2.00	ug/L	1	---	5.60	---	---	0.3	20%	
Cadmium	ND	---	0.200	ug/L	1	---	ND	---	---	---	20%	
Chromium	**7.18**	---	2.00	ug/L	1	---	8.78	---	---	20	20%	
Iron	**6660**	---	50.0	ug/L	1	---	8360	---	---	**23**	**20%**	Q-17
Lead	**1.17**	---	0.200	ug/L	1	---	1.20	---	---	3	20%	
Manganese	**86.6**	---	1.00	ug/L	1	---	97.6	---	---	12	20%	

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ORELAP ID: **OR100062**

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3E1053 - 06 07 23 1055**

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23E0269 - EPA 3015A												**Water**
Duplicate (23E0269-DUP1)			Prepared: 05/05/23 10:42		Analyzed: 05/05/23 19:27							
QC Source Sample: Non-SDG (A3E0994-01)												
Mercury	ND	---	0.0800	ug/L	1	---	ND	---	---	---	20%	
Selenium	ND	---	1.00	ug/L	1	---	ND	---	---	---	20%	
Silver	ND	---	0.200	ug/L	1	---	ND	---	---	---	20%	
Matrix Spike (23E0269-MS1)			Prepared: 05/05/23 10:42		Analyzed: 05/05/23 19:32							
QC Source Sample: Non-SDG (A3E0994-01)												
EPA 6020B												
Arsenic	58.1	---	1.00	ug/L	1	55.6	4.68	96	75-125%	---	---	
Barium	63.6	---	2.00	ug/L	1	55.6	5.60	104	75-125%	---	---	
Cadmium	54.5	---	0.200	ug/L	1	55.6	ND	98	75-125%	---	---	
Chromium	59.5	---	2.00	ug/L	1	55.6	8.78	91	75-125%	---	---	
Iron	9920	---	50.0	ug/L	1	2780	8360	**56**	**75-125%**	---	---	Q-65
Lead	56.6	---	0.200	ug/L	1	55.6	1.20	100	75-125%	---	---	
Manganese	142	---	1.00	ug/L	1	55.6	97.6	80	75-125%	---	---	
Mercury	1.08	---	0.0800	ug/L	1	1.11	ND	97	75-125%	---	---	
Selenium	27.4	---	1.00	ug/L	1	27.8	ND	99	75-125%	---	---	
Silver	25.1	---	0.200	ug/L	1	27.8	ND	90	75-125%	---	---	

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ANALYTICAL REPORT

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3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3E1053 - 06 07 23 1055**

SAMPLE PREPARATION INFORMATION

Hydrocarbon Identification Screen by NWTPH-HCID

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E0395							
A3E1053-01	Water	NWTPH-HCID	05/05/23 08:20	05/09/23 11:33	1020mL/5mL	1000mL/5mL	0.98

Polychlorinated Biphenyls by EPA 8082A

Prep: EPA 3510C (Neutral pH)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E0393							
A3E1053-01	Water	EPA 8082A	05/05/23 08:20	05/09/23 11:25	1000mL/5mL	1000mL/5mL	1.00

Semivolatile Organic Compounds by EPA 8270E

Prep: EPA 3510C (Acid/Base Neutral)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E0466							
A3E1053-01RE1	Water	EPA 8270E	05/05/23 08:20	05/10/23 14:32	1020mL/1mL	1000mL/1mL	0.98

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23E0269							
A3E1053-01	Water	EPA 6020B	05/05/23 08:20	05/05/23 10:42	45mL/50mL	45mL/50mL	1.00

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3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3E1053 - 06 07 23 1055**

QUALIFIER DEFINITIONS

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

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B-02	Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
C-07	Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
Q-01	Spike recovery and/or RPD is outside acceptance limits.
Q-17	RPD between original and duplicate sample is outside of established control limits.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
Q-24	The RPD for this spike and spike duplicate is above established control limits. Recoveries for both the spike and spike duplicate are within control limits.
Q-29	Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
Q-41	Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
Q-52	Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
Q-65	Spike recovery is estimated due to the high analyte concentration of the source sample.

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3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3E1053 - 06 07 23 1055**

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

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

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

" dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

" wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

Results for Volatiles analyses on soils and sediments that are reported on a “dry weight” basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an “As Received” basis do not have the WMS correction applied, as dry weight was not performed.

QC Source:

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

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

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Apex Laboratories

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

Philip Nerenberg

Philip Nerenberg, Lab Director

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

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3E1053 - 06 07 23 1055**

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

-Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3E1053 - 06 07 23 1055**

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

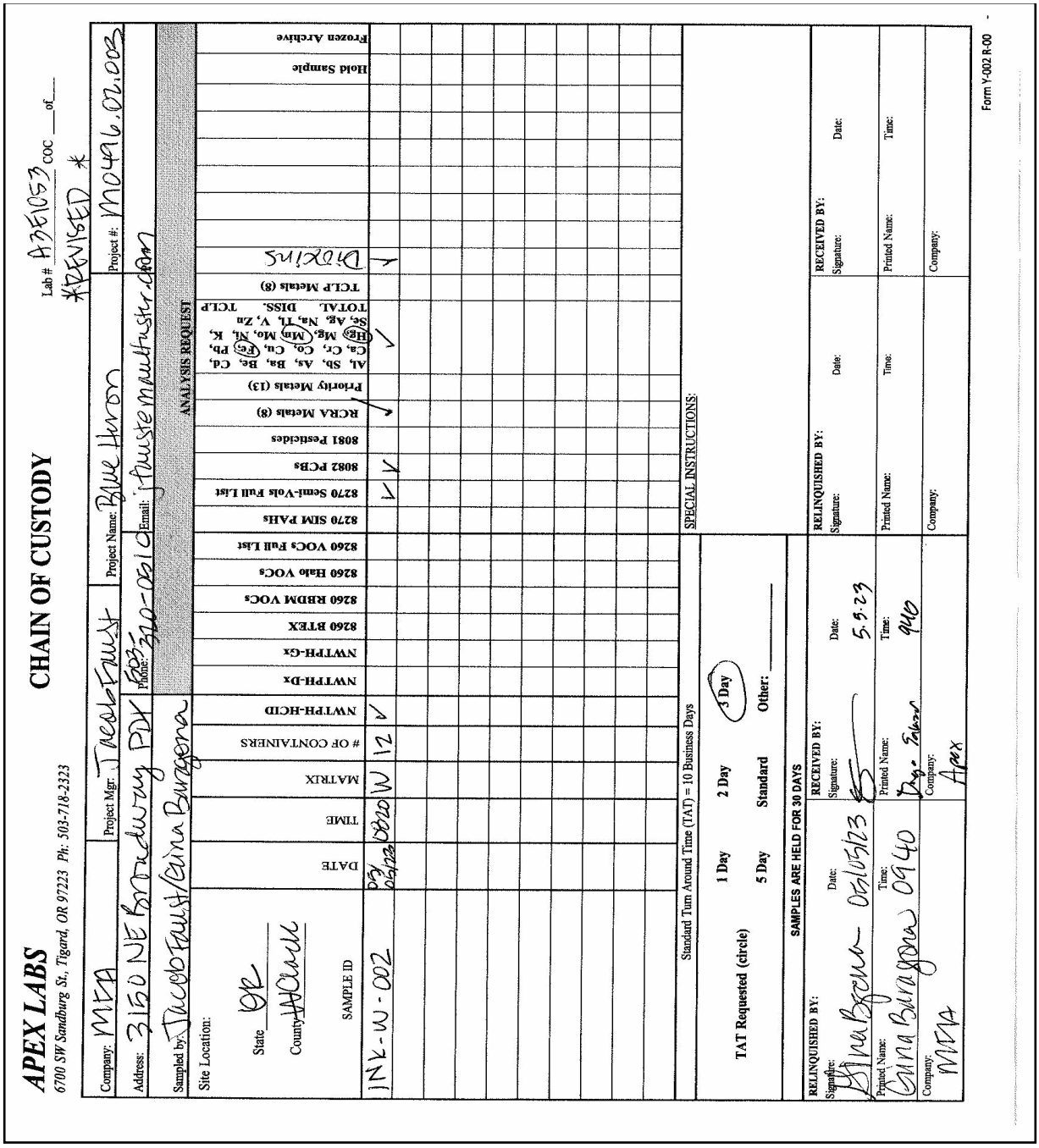
Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3E1053 - 06 07 23 1055**



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

CHAIN OF CUSTODY

Lab # A3E1053 COC __ of __

*REVISED *

Company: MFA | Project Mgr: Jacob Faust | Project Name: Blue Heron | Project #: M0496.02.003
Address: 3140 NE Broadway PDX | Phone: 503-330-0851 | Email: jfaust@maulfoster.com
Sampled by: Jacob Faust/Gina Burgoon

ANALYSIS REQUEST

Site Location: State OR County Wasco	SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pesticides	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, (Fe), Pb, (Hg), Mg, (Mn), Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS. TCLP	TCLP Metals (8)	Hold Sample	Frozen Archive
	INV-W-002	5/3/23	0910	W	12	✓								✓	✓			✓	✓	✓	

Standard Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): 1 Day | 2 Day | 3 Day | 5 Day | Standard | Other: ____

SPECIAL INSTRUCTIONS:

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature:	Signature:	Signature:
Date:	Date: 5.5.23	Date:	Date:
Printed Name: Gina Burgoon	Printed Name: Ryan Salmon	Printed Name:	Printed Name:
Time: 0940	Time: 940	Time:	Time:
Company: MFA	Company: Apex	Company:	Company:

Form Y-002 R-00

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

Philip Nerenberg

Philip Nerenberg, Lab Director

Apex Laboratories, LLC

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

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3E1053 - 06 07 23 1055**

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

CHAIN OF CUSTODY

Lab # A3E1053 COC ___ of ___

Company: MFA | Project Mgr: Jacob Faust | Project Name: Blue Heron | Project #: M0496.02.003

Address: 3140 NE Broadway PDX | Phone: 503-320-0510 | Email: jfaust@maulfoster.com | PO#

Sampled by: Jacob Faust/Gina Baragona

Site Location: State OR County Clark

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pesticides	RCRA Metals (8)	Priority Metals (13)	AL, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS. TCLP	TCLP Metals (8)	Dioxins	Hold Sample	Frozen Archive
INK-W-002	05/05/23	0815	W	1	✓								✓	✓		✓		✓		✓		
INK-W-002	05/05/23	0815	W	1	✓								✓	✓		✓		✓		✓		
INK-W-002	05/05/23	0815	W	1	✓								✓	✓		✓		✓		✓		
INK-W-002	05/05/23	0815	W	1	✓								✓	✓		✓		✓		✓		
INK-W-002	05/05/23	0815	W	1	✓								✓	✓		✓		✓		✓		
INK-W-002	05/05/23	0815	W	1	✓								✓	✓		✓		✓		✓		
INK-W-002	05/05/23	0815	W	1	✓								✓	✓		✓		✓		✓		
INK-W-002	05/05/23	0815	W	1	✓								✓	✓		✓		✓		✓		
INK-W-002	05/05/23	0815	W	1	✓								✓	✓		✓		✓		✓		
INK-W-002	05/05/23	0820	W	1	✓								✓	✓		✓		✓		✓		

Standard Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle) 1 Day 2 Day (3 Day) 5 Day Standard Other: ______

SPECIAL INSTRUCTIONS:

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature] Date: 05/05/23	Signature: [signature] Date: 5.5.23	Signature: Date:	Signature: Date:
Printed Name: Gina Baragona Time: 0940	Printed Name: Dmyi Sahar Time: 940	Printed Name: Time:	Printed Name: Time:
Company: MFA	Company: Apex	Company:	Company:

Form Y-002 R-00

Apex Laboratories

[signature]

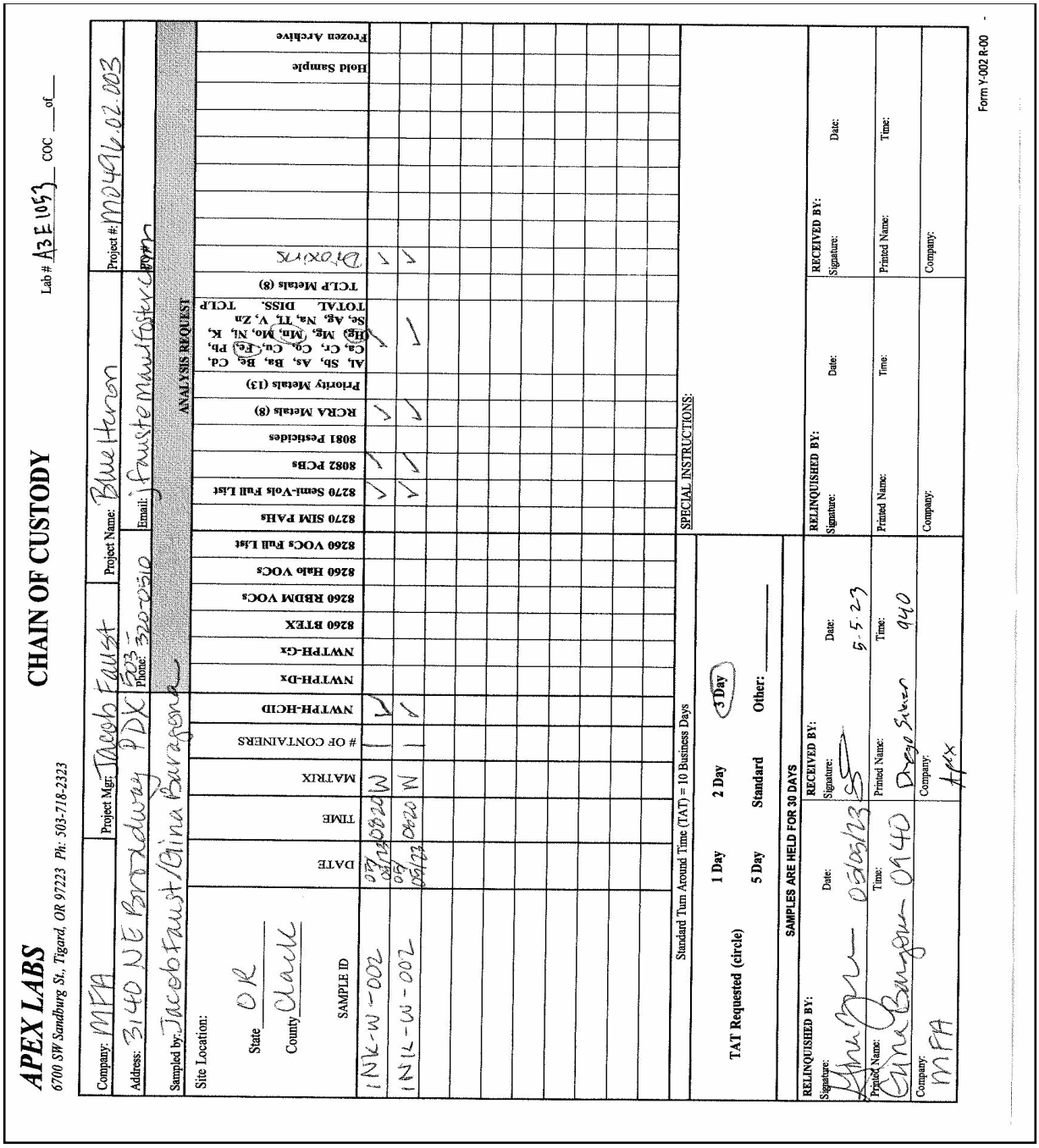
Philip Nerenberg, Lab Director

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

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

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3E1053 - 06 07 23 1055**



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

CHAIN OF CUSTODY

Lab # A3E1053 COC ___ of ___

Company: MFA | Project Mgr: Jacob Faust | Project Name: Blue Heron | Project #: M0496.02.003
Address: 3140 NE Broadway PDX | Phone: 503-320-0510 | Email: jfaust@maulfoster.com
Sampled by: Jacob Faust/Gina Barragan

Site Location: State OR County Clark

SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Vols Full List	8082 PCBs	8081 Pesticides	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, (Hg), Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn	TOTAL DISS. TCLP	TCLP Metals (8)	Dioxins	Hold Sample	Frozen Archive
INK-W-002	05/23/23	0820	W	1	✓								✓	✓		✓		✓				
INL-W-002	05/23/23	0820	W	1	✓								✓	✓		✓		✓				

Standard Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): 1 Day | 2 Day | 3 Day | 5 Day | Standard | Other: ___

SPECIAL INSTRUCTIONS:

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY:	Date:	RECEIVED BY:	Date:	RELINQUISHED BY:	Date:	RECEIVED BY:	Date:
Signature:		Signature:	5.5.23	Signature:		Signature:	
Printed Name:	Time:	Printed Name:	Time:	Printed Name:	Time:	Printed Name:	Time:
Company: MFA		Company: HPX	940	Company:		Company:	

Form Y-002 R-00

Apex Laboratories

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Philip Nerenberg

Philip Nerenberg, Lab Director

APEX LABORATORIES

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

ANALYTICAL REPORT

Maul Foster & Alongi, INC.	Project: **Blue Heron Paper Mill**	
3140 NE Broadway Street	Project Number: **M0496.02.003**	**Report ID:**
Portland, OR 97232	Project Manager: **Jacob Faust**	**A3E1053 - 06 07 23 1055**

APEX LABS COOLER RECEIPT FORM

Client: MFA Element WO#: A3E1053

Project/Project #: Blue Heron / M0496.02.003

Delivery Info:

Date/time received: 5.5.23 @ 940 By: DJS

Delivered by: Apex__Client X ESS__FedEx__UPS__Radio__Morgan__SDS__Evergreen__Other__

Cooler Inspection Date/time inspected: 5.5.23 @ 941 By: DJS

Chain of Custody included? Yes X No ____

Signed/dated by client? Yes X No ____

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	1.0						
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	N						
Ice type: (Gel/Real/Other)	Real						
Condition (In/Out):	In						

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

Green dots applied to out of temperature samples? Yes/No

Out of temperature samples form initiated? Yes/No

Sample Inspection: Date/time inspected: 5.5.23 @ 1000 By: DJS

All samples intact? Yes X No ___ Comments: ____

Bottle labels/COCs agree? Yes ___ No X Comments: Client listed containers on every line instead of on one line. No ID, Date or time on nitric poly + times vary on conts.

COC/container discrepancies form initiated? Yes ___ No X

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

Do VOA vials have visible headspace? Yes ___ No X NA ___

Comments ____

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

Comments: ____

Additional information: ____

Labeled by: DJS Witness: JS Cooler Inspected by: DJS

Form Y-003 R-00

Apex Laboratories

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Philip Nerenberg

Philip Nerenberg, Lab Director

CERES Analytical Laboratory, Inc.
4919 Windplay Dr. Suite 1, El Dorado Hills, CA 95762

May 10, 2023 Ceres ID: 16344

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223

The following report contains the results for the one aqueous sample received on May 6, 2023. This sample was analyzed for tetra through octa chlorinated dioxins and dibenzofurans by EPA method 1613. Rush turn-around time was provided for this work.

This work was authorized under Apex Laboratories' Project # A3E1053.

Continuing Calibration Verification (CCV) Requirements
All associated calibration verification standard(s) (CCV) met the acceptance criteria.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

If you have any questions regarding this report, please feel free to contact me at (916)932-5011.

Sincerely,

James M. Hedin
Director of Operations/CEO
jhedin@ceres-lab.com

Section I: Sample Inventory

Ceres Sample ID:	Sample ID	Date Received	Collection Date	&Time
16344-001	Ink-W-002 (A3E1053-01)	5/6/2023	5/5/2023	8:20

Section II: Data Summary

CERES Analytical Laboratory, Inc.
4919 Windplay Dr. Suite 1, El Dorado Hills, CA 95762

EPA Method 1613B

Quality Assurance Sample **Method Blank**		**Date Received:** NA
	QC Batch #: 2858	**Date Extracted:** 5/8/2023
	Matrix: Aqueous	**Date Analyzed:** 5/9/2023
Project ID: A3E1053	**Sample Size:** 1.000 L	

Analyte	Conc. (pg/L)	MDL	RL	Qual.	Labeled Standards	% R	LCL-UCL (a)	Qualifiers
2,3,7,8-TCDD	DL= 1.95	0.887	5.00		13C-2378-TCDD	83.0	25-164	
12378-PeCDD	DL= 4.25	2.56	25.0		13C-12378-PeCDD	101	25-181	
123478-HxCDD	DL= 5.71	3.08	25.0		13C-123478-HxCDD	70.6	32-141	
123678-HxCDD	DL= 5.00	5.29	25.0		13C-123678-HxCDD	99.2	28-130	
123789-HxCDD	DL= 4.93	13.1	25.0		13C-1234678-HpCDD	74.1	23-140	
1234678-HpCDD	DL= 4.72	5.15	25.0		13C-OCDD	60.8	17-157	
OCDD	DL= 12.2	8.50	50.0		13C-2378-TCDF	74.1	24-169	
2,3,7,8-TCDF	DL= 1.51	0.733	5.00		13C-12378-PeCDF	96.5	24-185	
12378-PeCDF	DL= 2.89	2.96	25.0		13C-23478-PeCDF	93.6	21-178	
23478-PeCDF	DL= 2.89	5.40	25.0		13C-123478-HxCDF	84.3	26-152	
123478-HxCDF	DL= 4.00	3.93	25.0		13C-123678-HxCDF	99.5	26-123	
123678-HxCDF	DL= 3.66	2.94	25.0		13C-234678-HxCDF	93.1	28-136	
234678-HxCDF	DL= 4.90	4.32	25.0		13C-123789-HxCDF	98.4	29-147	
123789-HxCDF	DL= 6.31	4.70	25.0		13C-1234678-HpCDF	81.1	28-143	
1234678-HpCDF	DL= 6.76	4.24	25.0		13C-1234789-HpCDF	83.7	26-138	
1234789-HpCDF	DL= 6.85	5.74	25.0					
OCDF	DL= 9.27	11.7	50.0					

Totals	Conc. (pg/L)	EMPC
Total TCDD	DL= 1.95	
Total PeCDD	DL= 4.25	
Total HxCDD	DL= 5.71	
Total HpCDD	DL= 4.72	
Total TCDF	DL= 1.51	
Total PeCDF	DL= 2.89	
Total HxCDF	DL= 6.31	
Total HpCDF	DL= 6.85	

CRS

37Cl4-2378-TCDD	103	35-197	

DL - Signifies Non-Detect (ND<) sample specific detection limit.
EMPC - Estimated Maximum Possible Concentration due to ion abundance ratio failure.
(a) - Lower control limit - Upper control limit
(b) - TEQ based on (2005) World Health Organization (WHO) Toxic Equivalent Factors.

Total Toxic Equivalency (TEQ min.) (b)**:** 0.0 pg/L

Analyst: JMH **Reviewed by: BS**

CERES Analytical Laboratory, Inc.
4919 Windplay Dr. Suite 1, El Dorado Hills, CA 95762

EPA Method 1613B

Quality Assurance Sample Ongoing Precision and Recovery			Date Received: NA
	QC Batch #: 2858		Date Extracted: 5/8/2023
	Matrix: Aqueous		Date Analyzed: 5/9/2023
Project ID: A3E1053	Sample Size: 1.000 L		

Analyte	Conc. (ng/mL)	Limits (a)	Labeled Standards	% Rec.	Limits (a)
2,3,7,8-TCDD	8.95	6.7-15.8	13C-2378-TCDD	77.1	20-175
12378-PeCDD	58.6	35-71	13C-12378-PeCDD	90.5	21-227
123478-HxCDD	48.5	35-82	13C-123478-HxCDD	83.8	21-193
123678-HxCDD	57.9	38-67	13C-123678-HxCDD	78.6	25-163
123789-HxCDD	50.0	32-81	13C-1234678-HpCDD	66.1	26-166
1234678-HpCDD	57.1	35-70	13C-OCDD	54.0	13-198
OCDD	107	78-144	13C-2378-TCDF	69.1	22-152
2,3,7,8-TCDF	9.24	7.5-15.8	13C-12378-PeCDF	89.1	21-192
12378-PeCDF	57.3	40-67	13C-23478-PeCDF	90.1	13-328
23478-PeCDF	56.4	34-80	13C-123478-HxCDF	83.5	19-202
123478-HxCDF	52.7	36-67	13C-123678-HxCDF	98.7	21-159
123678-HxCDF	52.6	42-65	13C-234678-HxCDF	86.0	22-176
234678-HxCDF	50.1	35-78	13C-123789-HxCDF	89.1	17-205
123789-HxCDF	50.3	39-65	13C-1234678-HpCDF	70.6	21-158
1234678-HpCDF	56.7	41-61	13C-1234789-HpCDF	75.4	20-186
1234789-HpCDF	55.7	39-69			
OCDF	121	63-170			
			CRS		
			37Cl4-2378-TCDD	95.1	31-191

(a) Limits based on method acceptance criteria.

Analyst: JMH **Reviewed by: BS**

CERES Analytical Laboratory, Inc.
4919 Windplay Dr. Suite 1, El Dorado Hills, CA 95762

EPA Method 1613B

Client Sample ID: Ink-W-002 (A3E1053-01)		
Project ID: A3E1053	**Ceres Sample ID:** 16344-001	**Date Received:** 5/6/2023
	QC Batch #: 2858	**Date Extracted:** 5/8/2023
Date Collected: 5/5/2023	**Matrix:** Aqueous	**Date Analyzed:** 5/9/2023
Time Collected: 8:20	**Sample Size:** 1.022 L	

Analyte	Conc. (pg/L)	MDL	RL	Qual.
2,3,7,8-TCDD	DL= 1.01	0.887	4.89	
12378-PeCDD	DL= 2.28	2.56	24.5	
123478-HxCDD	DL= 3.45	3.08	24.5	
123678-HxCDD	DL= 3.00	5.29	24.5	
123789-HxCDD	DL= 2.96	13.1	24.5	
1234678-HpCDD	DL= 1.74	5.15	24.5	
OCDD	59.6	8.50	48.9	
2,3,7,8-TCDF	DL= 1.70	0.733	4.89	
12378-PeCDF	DL= 1.80	2.96	24.5	
23478-PeCDF	DL= 1.65	5.40	24.5	
123478-HxCDF	DL= 3.04	3.93	24.5	
123678-HxCDF	DL= 3.01	2.94	24.5	
234678-HxCDF	DL= 3.70	4.32	24.5	
123789-HxCDF	DL= 4.50	4.70	24.5	
1234678-HpCDF	DL= 3.27	4.24	24.5	
1234789-HpCDF	DL= 3.23	5.74	24.5	
OCDF	DL= 4.91	11.7	48.9	

Totals	Conc. (pg/L)	EMPC
Total TCDD	DL= 1.01	
Total PeCDD	DL= 2.28	
Total HxCDD	DL= 3.45	
Total HpCDD	DL= 1.74	
Total TCDF	DL= 1.70	
Total PeCDF	DL= 1.80	
Total HxCDF	DL= 4.50	
Total HpCDF	DL= 3.27	

Labeled Standards	% R	LCL-UCL (a)	Qualifiers
13C-2378-TCDD	87.3	25-164	
13C-12378-PeCDD	95.4	25-181	
13C-123478-HxCDD	80.9	32-141	
13C-123678-HxCDD	97.3	28-130	
13C-1234678-HpCDD	69.9	23-140	
13C-OCDD	50.7	17-157	
13C-2378-TCDF	78.9	24-169	
13C-12378-PeCDF	88.6	24-185	
13C-23478-PeCDF	87.1	21-178	
13C-123478-HxCDF	81.6	26-152	
13C-123678-HxCDF	99.2	26-123	
13C-234678-HxCDF	93.2	28-136	
13C-123789-HxCDF	99.6	29-147	
13C-1234678-HpCDF	70.1	28-143	
13C-1234789-HpCDF	83.7	26-138	

CRS

37Cl4-2378-TCDD	118	35-197

DL - Signifies Non-Detect (ND<) sample specific detection limit.
EMPC - Estimated Maximum Possible Concentration due to ion abundance ratio failure.
(a) - Lower control limit - Upper control limit
(b) - TEQ based on (2005) World Health Organization (WHO) Toxic Equivalent Factors.

Total Toxic Equivalency (TEQ min.) (b)**:** 0.0179 pg/L

Analyst: JMH **Reviewed by: BS**

Section VI: Sample Tracking

SUBCONTRACT ORDER

Apex Laboratories

CB SKH3 **A3E1053** RHP 5/5

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Philip Nerenberg

RECEIVING LABORATORY:

Ceres Analytical Laboratory, Inc
4919 Windplay Drive, Suite 1
El Dorado Hills, CA 95762
Phone :(916) 932-5011
Fax: -9

No info on nitric poly. listed one container on e

Sample Name: Ink-W-002 **Water** **Sampled: 05/05/23 08:20** (A3E1053-01)

Analysis	Due	Expires	Comments
1613 Dioxin (Sub)	05/11/23 17:00	05/04/24 08:20	
Containers Supplied:			
(K)1 L Amber Glass - Non Preserved			
(L)1 L Amber Glass - Non Preserved			

4 day TAT

	5-5-23	UPS (Shipper)	
Released By	Date	Received By	Date
UPS (Shipper)			5/6/23 1234
Released By	Date	Received By	Date

Sample Receipt Check List Logged by: JL (initials)

Ceres ID: 16344	Date/Time: 5/6/23 1234
Client Project ID: A3E1053	Received Temp: 1.6 °C Acceptable: Y / N
Chain of Custody Relinquished by signed?	Y / N
Chain of Custody Received by signed?	Y / N
Custody Seals? Present?	Y / N
Intact?	Y / N
NA:	NA
Unlabeled / Illegible Samples	Y / N
Proper Containers:	Y / N
Preservation Acceptable (Chemical or Temperature)?	Y / N
Drinking Water, Sodium Thiosulfate present?	Y / N / NA
Residual Cl?	Y / N / NA
Aqueous sample pH: 2	NA

List COC discrepancies:

JL 5/6/23

List Damaged Samples:

JL 5/6/23

Section VII: Qualifiers/Abbreviations

J	Concentration found below the lower quantitation limit but greater than zero.
B	Analyte present in the associated Method Blank.
E	Concentration found exceeds the Calibration range of the HRGC/HRMS.
D	This analyte concentration was calculated from a dilution.
X	The concentration found is the estimated maximum possible concentration due to chlorinated diphenyl ethers present in the sample.
H	Recovery limits exceeded. See cover letter.
*****	Results taken from dilution.
I	Interference. See cover letter.
Conc.	Concentration Found
DL	Calculated Detection Limit
ND	Non-Detect
% Rec.	Percent Recovery

Attachment 7

Dye-Impacted Material Disposal Records

MAUL FOSTER ALONGI

INVOICE

Customer ID:	**5-37135-35003**
Customer Name:	ELDER DEMOLITION
Service Period:	06/01/23-06/30/23
Invoice Date:	07/01/2023
Invoice Number:	0110668-1515-7

How to Contact Us	Your Payment is Due	Your Total Due
Visit wmsolutions.com Log in to manage disposal records and tonnage reports. To pay a bill or explore other online tools, visit wm.com/MyWM. Have a question? Fill out the Contact Us Form at WMSolutions.com or contact Customer Service. Customer Service: (509) 662-4591	**07/31/2023** If full payment of the invoiced amount is not received within your contractual terms, you may be charged a monthly late charge of 2.5% of the unpaid amount, with a minimum monthly charge of $5, or such late charge allowed under applicable law, regulation or contract.	**$50,637.30**

Previous Balance	+	Payments	+	Adjustments	+	Current Invoice Charges	=	Total Account Balance Due
633.40		(633.40)		0.00		50,637.30		**50,637.30**

DETAILS OF SERVICE

Details for Service Location: **Customer ID: 5-37135-35003**
Elder Demolition, 6400 SE 101st Ave Ste 201, Portland OR 97266-5142

Description	Date	Ticket	Quantity	Unit of Measure	Rate	Amount
Vehicle#: NONE	06/07/23	1685085				0.00
PO#:140348OR						0.00
PROFILE FEE $85			1.00	ECH	80.00	80.00
Profile # 140348OR						0.00
Generator BLUE HERON PAPER MILL 300 MAIN ST OREGON CITY						0.00
Ticket Total						**80.00**
Vehicle#: 2	06/08/23	1685174				0.00
PO#:2114						0.00
Special Waste Misc			28.16	TON	110.00	3,097.60

Please detach and send the lower portion with payment (no cash or staples)

HILLSBORO LANDFILL INC.

PO BOX 3020
MONROE, WI 53566-8320
(509) 662-4591

Invoice Date	Invoice Number	Customer ID *(Include with your payment)*
07/01/2023	0110668-1515-7	**5-37135-35003**
Payment Terms	**Total Due**	**Amount**
Total Due by 07/31/2023	$50,637.30	

1515000053713535003001106680000506373000005063730 4

0053904 01 AB 0.507 **AUTO T4 2 7184 97266-514251 -C04-P53957-I1 I1574L75

ELDER DEMOLITION
6400 SE 101ST AVE SUITE 201
PORTLAND OR 97266-5142

Remit To:
WM CORPORATE SERVICES, INC.
AS PAYMENT AGENT
PO BOX 541065
LOS ANGELES, CA 90054-1065

Printed on recycled paper.

515-0002111-1515-9

DETAILS OF SERVICE - continued

Details for Service Location: **Customer ID: 5-37135-35003**
Elder Demolition, 6400 SE 101st Ave Ste 201, Portland OR 97266-5142

Description	Date	Ticket	Quantity	Unit of Measure	Rate	Amount
Standard Environmental Fee - Large (Landfill)			1.00	LOD	30.00	30.00
Profile # 140348OR						0.00
Generator BLUE HERON PAPER MILL 300 MAIN ST OREGON CITY						0.00
Manifest#: NA						0.00
Ticket Total						**3,127.60**
Vehicle#: 121 - SOLO	06/08/23	1685177				0.00

EASY WAYS TO PAY

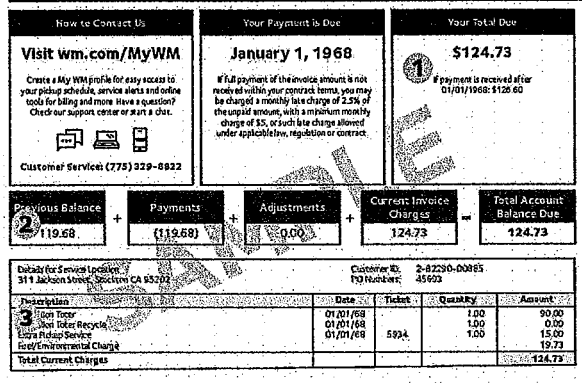
AutoPay
Set up recurring payments with us at **wm.com/myaccount**.

Online
Use **wm.com** or **My WM** for a quick and easy payment.

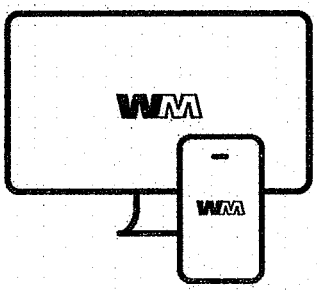
By Phone
Pay 24/7 by calling **866-964-2729**

By Mail
Fill out your invoice and mail it in. We'll provide the envelope.

HOW TO READ YOUR INVOICE



1. States the date payment is due to **WM**. Anything beyond that date may incur additional charges. Your Total Due is the total amount of current charges and any previous unpaid balances combined.
2. Previous balance is the total due from your previous invoice. We subtract any Payments Received/Adjustments and add your Current Charges from this billing cycle to get a Total Due on this invoice. If you have not paid all or a portion of your previous balance, please pay the entire Total Due to avoid a late charge or service interruption.
3. Service location details the total current charges of this invoice.



Get More with My WM

Scan to enroll in AutoPay & Paperless Billing, manage your services, view your pick up schedule and see your pick up ETA, all in one place.

Scan the QR code to get started today!

Visit **wm.com/MyWM**

If your service is suspended for non-payment, you may be charged a Resume charge to restart your service. For each returned check, a charge will be assessed on your next invoice equal to the maximum amount permitted by applicable state law.

☐ Check Here to Change Contact Info

List your new billing information below. For a change of service address, please contact **WM**.

Address 1	
Address 2	
City	
State	
Zip	
Email	
Date Valid	

☐ Check Here to Sign Up for Automatic Payment Enrollment

If I enroll in Automatic Payment services, I authorize **WM** to pay my invoice by electronically deducting money from my bank account. I can cancel authorization by notifying **WM** at **wm.com** or by calling the customer service number listed on my invoice. Your enrollment could take 1-2 billing cycles for Automatic Payments to take effect. Continue to submit payment until page one of your invoice reflects that your payment will be deducted.

Email	
Date	
Bank Account Holder Signature	

NOTICE: By sending your check, you are authorizing the Company to use information on your check to make a one-time electronic debit to your account at the financial institution indicated on your check. The electronic debit will be for the amount of your check and may occur as soon as the same day we receive your check.

In order for us to service your account or to collect any amounts you may owe (for non-marketing or solicitation purposes), we may contact you by telephone at any telephone number that you provided in connection with your account, including wireless telephone numbers, which could result in charges to you. Methods of contact may include text messages and using pre-recorded/artificial voice messages and/or use of an automatic dialing device, as applicable. We may also contact you by email or other methods as provided in our contract.

Please send all bankruptcy correspondence to RMCbankruptcy@wm.com or PO Box 43290 Phoenix, AZ 85080. Using the email option will expedite your request. (this language is in compliance with 11 USC 342(c)(2) of the Bankruptcy Code)

0053904-0000001-0072275

Customer ID: **5-37135-35003**
Customer Name: ELDER DEMOLITION
Service Period: 06/01/23-06/30/23
Invoice Date: 07/01/2023
Invoice Number: 0110668-1515-7

DETAILS OF SERVICE - continued

Details for Service Location: **Customer ID: 5-37135-35003**
Elder Demolition, 6400 SE 101st Ave Ste 201, Portland OR 97266-5142

Description	Date	Ticket	Quantity	Unit of Measure	Rate	Amount
PO#:BLUE HAREONING						0.00
Special Waste Misc			19.99	TON	110.00	2,198.90
Standard Environmental Fee - Large (Landfill)			1.00	LOD	30.00	30.00
Profile # 140348OR						0.00
Generator BLUE HERON PAPER MILL 300 MAIN ST						0.00
OREGON CITY						
Manifest#: NA						0.00
Ticket Total						**2,228.90**
Vehicle#: 128-SOLO	06/08/23	1685178				0.00
PO#:BLUE HARRONING						0.00
Special Waste Misc			20.16	TON	110.00	2,217.60
Standard Environmental Fee - Large (Landfill)			1.00	LOD	30.00	30.00
Profile # 140348OR						0.00
Generator BLUE HERON PAPER MILL 300 MAIN ST						0.00
OREGON CITY						
Manifest#: NA						0.00
Ticket Total						**2,247.60**
Vehicle#: 5-SOLO	06/08/23	1685185				0.00
PO#:BLUE HARRONING						0.00
Special Waste Misc			29.47	TON	110.00	3,241.70
Standard Environmental Fee - Large (Landfill)			1.00	LOD	30.00	30.00
Profile # 140348OR						0.00
Generator BLUE HERON PAPER MILL 300 MAIN ST						0.00
OREGON CITY						
Manifest#: NA						0.00
Ticket Total						**3,271.70**
Vehicle#: 121 - SOLO	06/08/23	1685234				0.00
PO#:BLUE HARRAN						0.00
Special Waste Misc			21.94	TON	110.00	2,413.40
Standard Environmental Fee - Large (Landfill)			1.00	LOD	30.00	30.00
Profile # 140348OR						0.00
Generator BLUE HERON PAPER MILL 300 MAIN ST						0.00
OREGON CITY						
Manifest#: NA						0.00
Ticket Total						**2,443.40**
Vehicle#: 2	06/08/23	1685235				0.00
PO#:2114						0.00
Special Waste Misc			24.28	TON	110.00	2,670.80
Standard Environmental Fee - Large (Landfill)			1.00	LOD	30.00	30.00
Profile # 140348OR						0.00
Generator BLUE HERON PAPER MILL 300 MAIN ST						0.00
OREGON CITY						
Manifest#: NA						0.00
Ticket Total						**2,700.80**
Vehicle#: 5-SOLO	06/08/23	1685239				0.00
PO#:2114						0.00
Special Waste Misc			28.19	TON	110.00	3,100.90
Standard Environmental Fee - Large (Landfill)			1.00	LOD	30.00	30.00
Profile # 140348OR						0.00
Generator BLUE HERON PAPER MILL 300 MAIN ST						0.00
OREGON CITY						
Manifest#: NA						0.00
Ticket Total						**3,130.90**

DETAILS OF SERVICE - continued

Details for Service Location: **Customer ID: 5-37135-35003**
Elder Demolition, 6400 SE 101st Ave Ste 201, Portland OR 97266-5142

Description	Date	Ticket	Quantity	Unit of Measure	Rate	Amount
Vehicle#: 128-SOLO	06/08/23	1685244				0.00
PO#:BLUE HERON						0.00
Special Waste Misc			20.46	TON	110.00	2,250.60
Standard Environmental Fee - Large (Landfill)			1.00	LOD	30.00	30.00
Profile # 140348OR						0.00
Generator BLUE HERON PAPER MILL 300 MAIN ST OREGON CITY						0.00
Manifest#: NA						0.00
Ticket Total						**2,280.60**
Vehicle#: 121 - SOLO	06/08/23	1685274				0.00
PO#:BLUEHAIN						0.00
Special Waste Misc			25.53	TON	110.00	2,808.30
Standard Environmental Fee - Large (Landfill)			1.00	LOD	30.00	30.00
Profile # 140348OR						0.00
Generator BLUE HERON PAPER MILL 300 MAIN ST OREGON CITY						0.00
Manifest#: NA						0.00
Ticket Total						**2,838.30**
Vehicle#: 5-SOLO	06/08/23	1685288				0.00
PO#:BLUE HERON						0.00
Special Waste Misc			28.55	TON	110.00	3,140.50
Standard Environmental Fee - Large (Landfill)			1.00	LOD	30.00	30.00
Profile # 140348OR						0.00
Generator BLUE HERON PAPER MILL 300 MAIN ST OREGON CITY						0.00
Manifest#: NA						0.00
Ticket Total						**3,170.50**
Vehicle#: 128-SOLO	06/08/23	1685290				0.00
PO#:BLUE HERON						0.00
Special Waste Misc			22.03	TON	110.00	2,423.30
Standard Environmental Fee - Large (Landfill)			1.00	LOD	30.00	30.00
Profile # 140348OR						0.00
Generator BLUE HERON PAPER MILL 300 MAIN ST OREGON CITY						0.00
Manifest#: NA						0.00
Ticket Total						**2,453.30**
Vehicle#: 2	06/08/23	1685294				0.00
PO#:2114						0.00
Special Waste Misc			23.85	TON	110.00	2,623.50
Standard Environmental Fee - Large (Landfill)			1.00	LOD	30.00	30.00
Profile # 140348OR						0.00
Generator BLUE HERON PAPER MILL 300 MAIN ST OREGON CITY						0.00
Manifest#: NA						0.00
Ticket Total						**2,653.50**
Vehicle#: 121 - SOLO	06/08/23	1685323				0.00
PO#:BLUE HERON						0.00
Special Waste Misc			23.58	TON	110.00	2,593.80
Standard Environmental Fee - Large (Landfill)			1.00	LOD	30.00	30.00
Profile # 140348OR						0.00
Generator BLUE HERON PAPER MILL 300 MAIN ST OREGON CITY						0.00
Manifest#: NA						0.00
Ticket Total						**2,623.80**
Vehicle#: 5-SOLO	06/12/23	1685535				0.00
PO#:2114						0.00
Special Waste Misc			27.42	TON	110.00	3,016.20
Standard Environmental Fee - Large (Landfill)			1.00	LOD	30.00	30.00
Profile # 140348OR						0.00

Customer ID: **5-37135-35003**
Customer Name: ELDER DEMOLITION
Service Period: 06/01/23-06/30/23
Invoice Date: 07/01/2023
Invoice Number: 0110668-1515-7

DETAILS OF SERVICE - continued

Details for Service Location: **Customer ID: 5-37135-35003**
Elder Demolition, 6400 SE 101st Ave Ste 201, Portland OR 97266-5142

Description	Date	Ticket	Quantity	Unit of Measure	Rate	Amount
Generator BLUE HERON PAPER MILL 300 MAIN ST						0.00
OREGON CITY						
Manifest#: NA						0.00
Ticket Total						**3,046.20**
Vehicle#: 7-SOLO	06/12/23	1685538				0.00
PO#:BLUE HERON 2114						0.00
Special Waste Misc			25.49	TON	110.00	2,803.90
Standard Environmental Fee - Large (Landfill)			1.00	LOD	30.00	30.00
Profile # 140348OR						0.00
Generator BLUE HERON PAPER MILL 300 MAIN ST						0.00
OREGON CITY						
Manifest#: NA						0.00
Ticket Total						**2,833.90**
Vehicle#: 5-SOLO	06/12/23	1685572				0.00
PO#:BLUE HERON						0.00
Special Waste Misc			29.32	TON	110.00	3,225.20
Standard Environmental Fee - Large (Landfill)			1.00	LOD	30.00	30.00
Profile # 140348OR						0.00
Generator BLUE HERON PAPER MILL 300 MAIN ST						0.00
OREGON CITY						
Manifest#: NA						0.00
Ticket Total						**3,255.20**
Vehicle#: 7-SOLO	06/12/23	1685583				0.00
PO#:BLUE HERON						0.00
Special Waste Misc			30.82	TON	110.00	3,390.20
Standard Environmental Fee - Large (Landfill)			1.00	LOD	30.00	30.00
Profile # 140348OR						0.00
Generator BLUE HERON PAPER MILL 300 MAIN ST						0.00
OREGON CITY						
Manifest#: NA						0.00
Ticket Total						**3,420.20**
Vehicle#: 7-SOLO	06/19/23	1686305				0.00
PO#:BLUE HERING						0.00
Special Waste Misc			10.57	TON	110.00	1,162.70
Standard Environmental Fee - Large (Landfill)			1.00	LOD	30.00	30.00
Profile # 140348OR						0.00
Generator BLUE HERON PAPER MILL 300 MAIN ST						0.00
OREGON CITY						
Manifest#: NA						0.00
Ticket Total						**1,192.70**
Vehicle#: 7-SOLO	06/19/23	1686358				0.00
PO#:BLUE HERION						0.00
Special Waste Misc			14.62	TON	110.00	1,608.20
Standard Environmental Fee - Large (Landfill)			1.00	LOD	30.00	30.00
Profile # 140348OR						0.00
Generator BLUE HERON PAPER MILL 300 MAIN ST						0.00
OREGON CITY						
Manifest#: NA						0.00
Ticket Total						**1,638.20**
Total Current Charges						**50,637.30**

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
ORN001002618	1	503-252-6144	BHPM-

GENERATOR

5. Generator's Name and Mailing Address
The Confederated Tribes of Grand Ronde
9615 Grand Ronde Rd.
Grand Ronde OR 97347
Generator's Phone: 503 879-2404

Att: Ryan Webb

Generator's Site Address (if different than mailing address)
The Confederated Tribes of Grand Ronde
300 Main Street
Oregon City OR 97045

6. Transporter 1 Company Name: River City Envrionmental — U.S. EPA ID Number: CESQG

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Patriot Environmental
4927 NW Front Ave
Portland OR 97210
Facility's Phone: 503 261-9800
U.S. EPA ID Number: ORD027704816

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
	Non-RCRA, non-DOT (Dye Impacted demolition water)	001	TT	~~08000~~ 6250	G
2.					
3.					
4.	Manifest #148320				

13. Special Handling Instructions and Additional Information
Profile#: 362523 PO#:165852958 Disposal Ticket#
PM: Zachary Flenniken WO#:

Truck# 213 bol# 3255946470

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Zachary Flenniken on behalf of Grand Ronde — Signature: Zack Flenniken — Month 5 Day 24 Year 23

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Stephen Gibson — Signature — Month 5 Day 30 Year 23

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Rob Webb — Signature — Month 5 Day 30 Year 23

169-BLC-O 6 10498 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

DESIGNATED FACILITY TO GENERATOR

Patriot Environmental Services

4927 NW Front Ave.
Portland, OR 97210
P: 503-261-9800
F: 503-261-9900

Profile #: 562523 (REQUIRED)

Wash Out __Yes X No

GROSS ~~51460 lb~~

10:43AM ~~05/30/2023~~

2728 gall

PO#

Truck ID # 507

Receiving Manifest # 148324

Date: 5/30/23

Customer Name: River City

Waste Description Industrial

Driver Name: Donovan

County Picked Up In: Multnomah

Patriot Environmental Services

4927 NW Front Ave.
Portland, OR 97210
P: 503-261-9800
F: 503-261-9900

Profile #: 562523 (REQUIRED)

Wash Out __Yes X No

2556

PO#

Truck ID # 507

Receiving Manifest # 148335 125

Date: 5/30/23

Customer Name: ~~[illegible]~~ River City

Waste Description Industrial

Driver Name: Donovan

County Picked Up In: Clackamas

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ORN001002618
2. Page 1 of: 1
3. Emergency Response Phone: 503-252-6144
4. Waste Tracking Number: BHPM-

GENERATOR

5. Generator's Name and Mailing Address
The Confederated Tribes of Grand Ronde
9615 Grand Ronde Rd.
Grand Ronde OR 97347
Generator's Phone: 503 879-2404

Alt: Ryan Webb

Generator's Site Address (if different than mailing address)
The Confederated Tribes of Grand Ronde
300 Main Street
Oregon City OR 97045

6. Transporter 1 Company Name: River City Envrionmental
U.S. EPA ID Number: CESQG

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Patriot Environmental
4927 NW Front Ave
Portland OR 97210
Facility's Phone: 503 261-9800
U.S. EPA ID Number: ORD027704816

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	Non-RCRA, non-DOT (Dye Impacted demolition water)	001	TT	4049 ~~05000~~	G	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
Profile#: 56583
PM: Zachary Flenniken
PO#:165852958 Disposal Ticket# 148336
WO#: 325596 470

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Zachary Flenniken on behalf of Grand Ronde
Signature: Zack Flenniken
Month: 5 Day: 24 Year: 23

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Manual Interrun
Signature:
Month: 5 Day: 30 Year: 23

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Rob Webb
Signature:
Month: 5 Day: 30 Year: 23

169-BLC-O 6 10498 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
ORN 0 0 1 0 0 2 6 1 8	1	503-252-6144	BHPM -

GENERATOR

5. Generator's Name and Mailing Address
The Confederated Tribes of Grand Ronde
9615 Grand Ronde Rd.
Grand Ronde OR 97347
Generator's Phone: 503 879-2404
Att: Ryan Webb

Generator's Site Address (if different than mailing address)
The Confederated Tribes of Grand Ronde
300 Main Street
Oregon City OR 97045

6. Transporter 1 Company Name: River City Environmental — U.S. EPA ID Number: CESQG

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Patriot Environmental
4927 NW Front Ave
Portland OR 97210
Facility's Phone: 503 261-9800
U.S. EPA ID Number: ORD027704816

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	Non-RCRA, non-DOT (Dye Impacted demolition water)	001	TT	6208 ~~65000~~	G	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
Profile#: 562523 PO#:165852958 Disposal Ticket#148338
PM: Zachary Flenniken WO#:

Truck# 213 WO# 3255964470

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Zachary Flenniken on behalf of Grand Ronde — Signature: Zack Flenniken — Month 5 Day 24 Year 23

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Stephen Gibson — Signature — Month 5 Day 30 Year 23

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Rob Webb — Signature — Month 5 Day 30 Year 23

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DESIGNATED FACILITY TO GENERATOR

Patriot Environmental Services

4927 NW Front Ave.
Portland, OR 97210
P: 503-261-9800
F: 503-261-9900

Profile #: 562523 (REQUIRED)

Wash Out __Yes X No

PO#

Truck ID # 507

Receiving Manifest # 148343 4:15

Date: 5/30/23

Customer Name: River City

Waste Description Industrial

Driver Name: Donovan

County Picked Up In: Clackamas

2692 Gal

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
ORN001002618	1	503-252-6144	BHPM -

GENERATOR

5. Generator's Name and Mailing Address
The Confederated Tribes of Grand Ronde
9615 Grand Ronde Rd.
Grand Ronde OR 97347
Att: Ryan Webb
Generator's Phone: 503 879-2404

Generator's Site Address (if different than mailing address)
The Confederated Tribes of Grand Ronde
300 Main Street
Oregon City OR 97045

6. Transporter 1 Company Name: River City Envrionmental — U.S. EPA ID Number: CESQG

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Patriot Environmental
4927 NW Front Ave
Portland OR 97210
Facility's Phone: 503 261-9800
U.S. EPA ID Number: ORD027704816

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	Non-RCRA, non-DOT (Dye Impacted demolition water)	001	TT	~~3190~~ ~~05000~~	G	
2.				3922		
3.						
4.						

13. Special Handling Instructions and Additional Information
Profile#: 562573
PM: Zachary Flenniken
PO#:165852958 Disposal Ticket# #148344
WO#: 325596470
4:34

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Zachary Flenniken on behalf of Grand Ronde
Signature: Zack Flenniken
Month 5 Day 24 Year 23

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Manuel Interian
Signature:
Month 5 Day 30 Year 23

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Johnson Hooks
Signature:
Month 5 Day 30 Year 23

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DESIGNATED FACILITY TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
ORN001002618	1	503-252-6144	BHPM -

GENERATOR

5. Generator's Name and Mailing Address
The Confederated Tribes of Grand Ronde
9615 Grand Ronde Rd.
Grand Ronde OR 97347
Generator's Phone: 503 879-2404

Att: Ryan Webb

Generator's Site Address (if different than mailing address)
The Confederated Tribes of Grand Ronde
300 Main Street
Oregon City OR 97045

6. Transporter 1 Company Name
River City Envrionmental
U.S. EPA ID Number
CESQG

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Patriot Environmental
4927 NW Front Ave
Portland OR 97210
Facility's Phone: 503 261-9800
U.S. EPA ID Number
ORD027704816

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	Non-RCRA, non-DOT (Dye Impacted demolition water)	001	TT	6102 ~~05000~~	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Profile#: 5602523
PM: Zachary Flenniken
PO#:165852958 Disposal Ticket# # 148346 7-29
WO#:
Truck # 213 WO# 325596470

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Zachary Flenniken on behalf of Grand Ronde
Signature: Zack Flenniken
Month 5 Day 24 Year 23

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Stephen Gibson
Signature:
Month 5 Day 31 Year 23

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Johnson Hoots
Signature:
Month 5 Day 31 Year 23

169-BLC-O 6 10498 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

Patriot Environmental Services
4927 NW Front Ave.
Portland, OR 97210
P: 503-261-9800
F: 503-261-9900

Profile #: 562523 REQUIRED

Wash Out __Yes X No

PO# _____

GROSS 47400 lb

Truck ID # 509

08:23AM 05/31/2023

Receiving Manifest # 148349 8:58

Date: 5/31/2023

2073 Gal

Customer Name: RCE

Waste Description WASTE WATER

Driver Name: Bigby

County Picked Up In: _____

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ORN001002618
2. Page 1 of: 1
3. Emergency Response Phone: 503-252-6144
4. Waste Tracking Number: BHPM-

GENERATOR

5. Generator's Name and Mailing Address
The Confederated Tribes of Grand Ronde
9615 Grand Ronde Rd.
Grand Ronde OR 97347
Att: Ryan Webb
Generator's Phone: 503 879-2404

Generator's Site Address (if different than mailing address)
The Confederated Tribes of Grand Ronde
300 Main Street
Oregon City OR 97045

6. Transporter 1 Company Name: River City Envrionmental
U.S. EPA ID Number: CESQG

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Patriot Environmental
4927 NW Front Ave
Portland OR 97210
Facility's Phone: 503 261-9800
U.S. EPA ID Number: ORD027704816

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
Non-RCRA, non-DOT (Dye impacted demolition water)	001	TT	5789 ~~05000~~	G
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
Profile#: 582523
PO#:165852958 Disposal Ticket# 148356 10.46
PM: Zachary Flenniken
WO#:

Truck #213 WO# 325596470

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Zachary Flenniken on behalf of Grand Ronde
Signature: Zack Flenniken
Month 5 Day 24 Year 23

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Stephen Gibson
Signature:
Month 5 Day 31 Year 23

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Johnson Hooley
Signature: Johnson Hooley
Month 5 Day 31 Year 23

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DESIGNATED FACILITY TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
ORN001002618	1	503-252-6144	BHPM-

GENERATOR

5. Generator's Name and Mailing Address
The Confederated Tribes of Grand Ronde
9615 Grand Ronde Rd.
Grand Ronde OR 97347
Att: Ryan Webb
Generator's Phone: 503 879-2404

Generator's Site Address (if different than mailing address)
The Confederated Tribes of Grand Ronde
300 Main Street
Oregon City OR 97045

6. Transporter 1 Company Name: River City Envrionmental — U.S. EPA ID Number: CESQG

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Patriot Environmental
4927 NW Front Ave
Portland OR 97210
Facility's Phone: 503 261-9800
U.S. EPA ID Number: ORD027704816

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	Non-RCRA, non-DOT (Dye Impacted demolition water)	001	TT	~~05000~~ 5658	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Profile#: 562523
PM: Zachary Flenniken
PO#:165852958 Disposal Ticket#
WO#: 325596470
Trk 236 #148361 ~~11:24~~ 10:5

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Zachary Flenniken on behalf of Grand Ronde
Signature: Zack Flenniken — Month 5 Day 24 Year 23

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:
Transporter Signature (for exports only):

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Alonzo Leon — Signature: Alonzo Leon — Month 5 Day 31 Year 23

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Johnson Hooley — Signature: John Hooley — Month 5 Day 31 Year 23

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DESIGNATED FACILITY TO GENERATOR

Patriot Environmental Services

4927 NW Front Ave.
Portland, OR 97210
P: 503-261-9800
F: 503-261-9900

Profile #: 562523 REQUIRED

Wash Out __Yes ✓No

PO#

Truck ID # 509

Receiving Manifest # 148365 11:50

Date: 5-31-2023

Customer Name: RCE

Waste Description WASTE WATER

Driver Name: bisbay

County Picked Up In:

2925 Gal

Patriot Environmental Services

4927 NW. Front Ave.
Portland, OR 97210
P: 503-261-9800
F: 503-261-9900

Profile #: 562523 REQUIRED

Wash Out X Yes __No

PO#

Truck ID # 205

Receiving Manifest # 148366 12:09

Date: 5/31/2023

Customer Name: River City

Waste Description Industrial

Driver Name: Donovan

County Picked Up In: Clackamas

GROSS 54600 lb
11:07AM 05/31/2023

GROSS 31680 lb
11:57AM 05/31/2023

22,920

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
ORN0010026 18	1	503-252-6144	BHPM -

GENERATOR

5. Generator's Name and Mailing Address
The Confederated Tribes of Grand Ronde
9615 Grand Ronde Rd.
Grand Ronde OR 97347
Att: Ryan Webb
Generator's Phone: 503 879-2404

Generator's Site Address (if different than mailing address)
The Confederated Tribes of Grand Ronde
300 Main Street
Oregon City OR 97045

6. Transporter 1 Company Name: River City Envrionmental — U.S. EPA ID Number: CESQG

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Patriot Environmental
4927 NW Front Ave
Portland OR 97210
Facility's Phone: 503 261-9800
U.S. EPA ID Number: ORD027704816

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	Non-RCRA, non-DOT (Dye Impacted demolition water)	001	TT	5509 ~~05000~~	G	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
Profile#: 562523 PO#:165852958 Disposal Ticket#
PM: Zachary Flenniken WO#: 325596470

12:38
Trk 261 #148369

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Zachary Flenniken on behalf of Grand Ronde — Signature: Zack Flenniken — Month 5 Day 24 Year 23

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Manuel Intcrcran — Signature: MI — Month 5 Day 31 Year 23

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Johnson Hoeks — Signature: John Hoeks — Month 5 Day 31 Year 23

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DESIGNATED FACILITY TO GENERATOR

Patriot
Environmental Services

4927 NW Front Ave.
Portland, OR 97210
P: 503-261-9800
F: 503-261-9900

Profile #: 502523
REQUIRED

Wash Out __Yes ✓No

PO# _____

Truck ID # 509

Receiving Manifest # 148374 245

Date: 5·31·2023

Customer Name: R.C.E.

Waste Description WASTEWATER

Driver Name: BISHOP

County Picked Up In: _____

3070 GAL

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
ORN001002618	1	503-252-6144	BHPM -

GENERATOR

5. Generator's Name and Mailing Address
The Confederated Tribes of Grand Ronde
9615 Grand Ronde Rd.
Grand Ronde OR 97347
Attn: Ryan Webb
Generator's Phone: 503 879-2404

Generator's Site Address (if different than mailing address)
The Confederated Tribes of Grand Ronde
300 Main Street
Oregon City OR 97045

6. Transporter 1 Company Name: River City Envrionmental — U.S. EPA ID Number: CESQG

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Patriot Environmental
4927 NW Front Ave
Portland OR 97210
Facility's Phone: 503 261-9800
U.S. EPA ID Number: ORD027704816

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
	Non-RCRA, non-DOT (Dye Impacted demolition water)	001	TT	4952 ~~05000~~	G
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Profile#: 516523 PO#:165852958 Disposal Ticket# 148375
PM: Zachary Flenniken WO#:
Truck #213 LOG# 3255516470 #148575 302 4952

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Zachary Flenniken on behalf of Grand Ronde — Signature: Zack Flenniken — Month 5 Day 24 Year 23

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Stephen Gibson — Signature: — Month 5 Day 31 Year 23

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Johnson Hoesly — Signature: — Month 5 Day 31 Year 23

-BLC-O 6 10498 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
ORN001002618	1	503-252-6144	BHPM -

GENERATOR

5. Generator's Name and Mailing Address
The Confederated Tribes of Grand Ronde
9615 Grand Ronde Rd.
Grand Ronde OR 97347
Att: Ryan Webb
Generator's Phone: 503 879-2404

Generator's Site Address (if different than mailing address)
The Confederated Tribes of Grand Ronde
300 Main Street
Oregon City OR 97045

6. Transporter 1 Company Name: River City Envrionmental — U.S. EPA ID Number: CESQG

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
Patriot Environmental
4927 NW Front Ave
Portland OR 97210
Facility's Phone: 503 261-9800
U.S. EPA ID Number: ORD027704816

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	Non-RCRA, non-DOT (Dye Impacted demolition water)	001	TT	3921 ~~05000~~	G	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
Profile#: 562523
PM: Zachary Flenniken
PO#:165852958 Disposal Ticket# #148377 324
WO#: 325596470
TRUCK # 236

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Zachary Flenniken on behalf of Grand Ronde
Signature: Zack Flenniken
Month 5 Day 24 Year 23

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Alonzo Leon
Signature: Alonzo León
Month 5 Day 31 Year 23

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Johnson Hoolis
Signature: Johnson Hoolis
Month 5 Day 31 Year 23

169-BLC-O 6 10498 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

Patriot Environmental Services
Portland, OR 97210
P: 503-261-9800
F: 503-261-9900

Profile #: 562523 (REQUIRED)

Wash Out (X) Yes ( ) No

PO# 165852958

Truck ID # 504

Receiving Manifest # 148439 2:2

Date: 6/2/23

Customer Name: Grand Ronde

Waste Description Industrial

Driver Name: Eliott

County Picked Up In: Clackamas

GROSS 23520 lb
01:47PM 06/02/2023

GROSS 18200 lb
02:12PM 06/02/2023

5320

Attachment 8

Oil-Stained Concrete Disposal Records

MAUL FOSTER ALONGI

DEANS
DEANS **DELIVERS**

Ph: 503-281-1637 ext 3
www.deanscom.com
accounting@deanscom.com
6400 SE 101st Ave - X4, Portland, Oregon 97266
Commercial & Residential Divisions

INVOICE

Date	Invoice #
8/1/2023	12955

Bill To

Elder Demolition INC
6400 SE 101st AVE SUITE 201
Portland, OR 97266

Ship To

Project	Ticket No.	S.O.	Terms
Job #2112 Blue Heron	010542		Net 15

Description		Invoiced	Rate	Date	Amount
Truck 7/John Price Elder Blue Heron job 2112 hauling concrete from jobsite to Hillsboro		8	145.00	8/1/2023	1,160.00

Good to 2112

Total	$1,160.00
Payments/Credits	$0.00
Balance Due	$1,160.00

INVOICE 12955

DEANS Commercial & Residential

NO 010542

6400 SE 101st AVE
Portland, OR 97266
Office: 503-281-1637 * Fax: 503-281-1890
office@deaninnovations.com

DATE: 8-1-23
Rate: 145 Per: hour
Hauler Name: Dean
Truck # 7 Trailer# n/a

Clock In: 630 Clock Out:
Total Driver Hours: 8

Beg. Mileage: 120 937
End Mileage: 121 137
Total Mileage
WA Miles: Y/(N) n/a Offroad Miles (Y)/N 1

Customer Name: Elder
Job #/Name Blue Heron
Address 4119 main st
Oregon city OR 97045

Arrive Jobsite	Leave Jobsite	Total Jobsite Hours
700	315	8

	MATERIAL	HAULED FROM	ARRIVE TIME	LEAVE TIME	HAULED TO	ARRIVE TIME	LEAVE TIME	YARD/ TON	TICKET #
1	Concrete	Blue Heron	700	748	Hillsboro	847	906	2136	1477
2	Concrete	Blue Heron	958	1012	Hillsboro	1104	1121	2518	1522
3	Concrete	Blue Heron	1227	1246	Hillsboro	142	200	2452	1557
4	[illegible]	[illegible]			[illegible]				
5									
6									
7									
8	End	Time	315						
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									

Drivers Name: John Price	TOTAL LOADS	TOTAL YARDS/TONS	TOTAL JOBSITE HOURS
Customer's Signature: John Price	3	7106	8

**ALL JOBS ARE BILLED BY THE 1/4 HOUR AT A 4 HOUR MINIMUM. (UNLESS SPECIFIED IN WRITING)
NET 15 TERMS

This order is subject to our terms and conditions

WHITE - Original YELLOW - Billing PINK - Sub Truck GOLDENROD - Customer

Attachment 9

AST Analytical Reports

MAUL FOSTER ALONGI

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

ANALYTICAL REPORT

Thursday, April 20, 2023

Jerry Wade
NRC
6211 N Ensign St
Portland, OR 97217

RE: A3C1137 - Maul Foster Alongi - 189690

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A3C1137, which was received by the laboratory on 3/30/2023 at 3:40:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: dthomas@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler	0.6 degC

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

Apex Laboratories

Darwin Thomas, Business Development Director

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

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

ANALYTICAL REPORT

NRC	Project: **Maul Foster Alongi**	
6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Tank 4-T	**A3C1137-01**	**Liquid**	**03/29/23 10:00**	**03/30/23 15:40**
Tank 2-T	**A3C1137-02**	**Solid**	**03/29/23 10:30**	**03/30/23 15:40**
Tank 0-T	**A3C1137-03**	**Solid**	**03/29/23 10:40**	**03/30/23 15:40**

Apex Laboratories

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Darwin Thomas, Business Development Director

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

ANALYTICAL REPORT

NRC	Project: **Maul Foster Alongi**	
6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

ANALYTICAL SAMPLE RESULTS

Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Tank 4-T (A3C1137-01)				**Matrix: Liquid**		**Batch: 23D0071**		
Gasoline Range Organics	ND	---	38500	mg/kg	100	04/04/23 14:31	NWTPH-HCID	
Diesel Range Organics	**DET**	---	96200	mg/kg	100	04/04/23 14:31	NWTPH-HCID	F-11
Oil Range Organics	ND	---	192000	mg/kg	100	04/04/23 14:31	NWTPH-HCID	
Surrogate: o-Terphenyl (Surr)			*Recovery: %*	*Limits: 50-150 %*	*100*	*04/04/23 14:31*	*NWTPH-HCID*	*S-01*
4-Bromofluorobenzene (Surr)			*%*	*50-150 %*	*100*	*04/04/23 14:31*	*NWTPH-HCID*	*S-01*

Apex Laboratories

Darwin Thomas, Business Development Director

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

ANALYTICAL REPORT

NRC	Project: Maul Foster Alongi	
6211 N Ensign St	Project Number: 189690	Report ID:
Portland, OR 97217	Project Manager: Jerry Wade	A3C1137 - 04 20 23 1304

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Tank 4-T (A3C1137-01)				**Matrix: Liquid**		**Batch: 23D0198**		**C-07**
Aroclor 1016	ND	---	0.385	mg/kg	1	04/07/23 08:55	EPA 8082A	
Aroclor 1221	ND	---	0.385	mg/kg	1	04/07/23 08:55	EPA 8082A	
Aroclor 1232	ND	---	0.385	mg/kg	1	04/07/23 08:55	EPA 8082A	
Aroclor 1242	ND	---	0.385	mg/kg	1	04/07/23 08:55	EPA 8082A	
Aroclor 1248	ND	---	0.385	mg/kg	1	04/07/23 08:55	EPA 8082A	
Aroclor 1254	ND	---	0.385	mg/kg	1	04/07/23 08:55	EPA 8082A	
Aroclor 1260	ND	---	0.385	mg/kg	1	04/07/23 08:55	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 98 %*		*Limits: 60-125 %*	*1*	*04/07/23 08:55*	*EPA 8082A*	
Tank 2-T (A3C1137-02)				**Matrix: Solid**		**Batch: 23D0145**		**C-07**
Aroclor 1016	ND	---	0.0760	mg/kg	2	04/06/23 11:14	EPA 8082A	
Aroclor 1221	ND	---	0.0760	mg/kg	2	04/06/23 11:14	EPA 8082A	
Aroclor 1232	ND	---	0.0760	mg/kg	2	04/06/23 11:14	EPA 8082A	
Aroclor 1242	ND	---	0.0760	mg/kg	2	04/06/23 11:14	EPA 8082A	
Aroclor 1248	ND	---	0.0760	mg/kg	2	04/06/23 11:14	EPA 8082A	
Aroclor 1254	ND	---	0.0760	mg/kg	2	04/06/23 11:14	EPA 8082A	
Aroclor 1260	ND	---	0.0760	mg/kg	2	04/06/23 11:14	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 97 %*		*Limits: 60-125 %*	*2*	*04/06/23 11:14*	*EPA 8082A*	
Tank 0-T (A3C1137-03)				**Matrix: Solid**		**Batch: 23D0145**		**C-07**
Aroclor 1016	ND	---	0.0922	mg/kg	2	04/06/23 11:50	EPA 8082A	Q-42
Aroclor 1221	ND	---	0.0922	mg/kg	2	04/06/23 11:50	EPA 8082A	Q-42
Aroclor 1232	ND	---	0.0922	mg/kg	2	04/06/23 11:50	EPA 8082A	Q-42
Aroclor 1242	ND	---	0.0922	mg/kg	2	04/06/23 11:50	EPA 8082A	Q-42
Aroclor 1248	ND	---	0.0922	mg/kg	2	04/06/23 11:50	EPA 8082A	Q-42
Aroclor 1254	ND	---	0.0922	mg/kg	2	04/06/23 11:50	EPA 8082A	
Aroclor 1260	ND	---	0.0922	mg/kg	2	04/06/23 11:50	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		*Recovery: 73 %*		*Limits: 60-125 %*	*2*	*04/06/23 11:50*	*EPA 8082A*	

Apex Laboratories

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Darwin Thomas, Business Development Director

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

ANALYTICAL REPORT

NRC	Project: **Maul Foster Alongi**	
6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Tank 4-T (A3C1137-01)				**Matrix: Liquid**		**Batch: 23D0179**		**R-04**
Acenaphthene	ND	---	71.4	mg/kg	100	04/05/23 21:17	EPA 8270E	
Acenaphthylene	ND	---	71.4	mg/kg	100	04/05/23 21:17	EPA 8270E	
Anthracene	ND	---	71.4	mg/kg	100	04/05/23 21:17	EPA 8270E	
Benz(a)anthracene	ND	---	71.4	mg/kg	100	04/05/23 21:17	EPA 8270E	
Benzo(a)pyrene	ND	---	107	mg/kg	100	04/05/23 21:17	EPA 8270E	
Benzo(b)fluoranthene	ND	---	107	mg/kg	100	04/05/23 21:17	EPA 8270E	
Benzo(k)fluoranthene	ND	---	107	mg/kg	100	04/05/23 21:17	EPA 8270E	
Benzo(g,h,i)perylene	ND	---	71.4	mg/kg	100	04/05/23 21:17	EPA 8270E	
Chrysene	ND	---	71.4	mg/kg	100	04/05/23 21:17	EPA 8270E	
Dibenz(a,h)anthracene	ND	---	71.4	mg/kg	100	04/05/23 21:17	EPA 8270E	
Fluoranthene	ND	---	71.4	mg/kg	100	04/05/23 21:17	EPA 8270E	
Fluorene	ND	---	71.4	mg/kg	100	04/05/23 21:17	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	---	71.4	mg/kg	100	04/05/23 21:17	EPA 8270E	
1-Methylnaphthalene	ND	---	143	mg/kg	100	04/05/23 21:17	EPA 8270E	
2-Methylnaphthalene	ND	---	143	mg/kg	100	04/05/23 21:17	EPA 8270E	
Naphthalene	ND	---	143	mg/kg	100	04/05/23 21:17	EPA 8270E	
Phenanthrene	ND	---	71.4	mg/kg	100	04/05/23 21:17	EPA 8270E	
Pyrene	ND	---	71.4	mg/kg	100	04/05/23 21:17	EPA 8270E	
Carbazole	ND	---	107	mg/kg	100	04/05/23 21:17	EPA 8270E	
Dibenzofuran	ND	---	71.4	mg/kg	100	04/05/23 21:17	EPA 8270E	
2-Chlorophenol	ND	---	357	mg/kg	100	04/05/23 21:17	EPA 8270E	
4-Chloro-3-methylphenol	ND	---	714	mg/kg	100	04/05/23 21:17	EPA 8270E	
2,4-Dichlorophenol	ND	---	357	mg/kg	100	04/05/23 21:17	EPA 8270E	
2,4-Dimethylphenol	ND	---	357	mg/kg	100	04/05/23 21:17	EPA 8270E	
2,4-Dinitrophenol	ND	---	1790	mg/kg	100	04/05/23 21:17	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	---	1790	mg/kg	100	04/05/23 21:17	EPA 8270E	
2-Methylphenol	ND	---	179	mg/kg	100	04/05/23 21:17	EPA 8270E	
3+4-Methylphenol(s)	ND	---	179	mg/kg	100	04/05/23 21:17	EPA 8270E	
2-Nitrophenol	ND	---	714	mg/kg	100	04/05/23 21:17	EPA 8270E	
4-Nitrophenol	ND	---	714	mg/kg	100	04/05/23 21:17	EPA 8270E	
Pentachlorophenol (PCP)	ND	---	714	mg/kg	100	04/05/23 21:17	EPA 8270E	
Phenol	ND	---	143	mg/kg	100	04/05/23 21:17	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	---	357	mg/kg	100	04/05/23 21:17	EPA 8270E	

Apex Laboratories

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Darwin Thomas, Business Development Director

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

ANALYTICAL REPORT

NRC	Project: **Maul Foster Alongi**	
6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Tank 4-T (A3C1137-01)				**Matrix: Liquid**		**Batch: 23D0179**		**R-04**
2,3,5,6-Tetrachlorophenol	ND	---	357	mg/kg	100	04/05/23 21:17	EPA 8270E	
2,4,5-Trichlorophenol	ND	---	357	mg/kg	100	04/05/23 21:17	EPA 8270E	
2,4,6-Trichlorophenol	ND	---	357	mg/kg	100	04/05/23 21:17	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	---	1070	mg/kg	100	04/05/23 21:17	EPA 8270E	
Butyl benzyl phthalate	ND	---	714	mg/kg	100	04/05/23 21:17	EPA 8270E	
Diethylphthalate	ND	---	714	mg/kg	100	04/05/23 21:17	EPA 8270E	
Dimethylphthalate	ND	---	714	mg/kg	100	04/05/23 21:17	EPA 8270E	
Di-n-butylphthalate	ND	---	714	mg/kg	100	04/05/23 21:17	EPA 8270E	
Di-n-octyl phthalate	ND	---	714	mg/kg	100	04/05/23 21:17	EPA 8270E	
N-Nitrosodimethylamine	ND	---	179	mg/kg	100	04/05/23 21:17	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	---	179	mg/kg	100	04/05/23 21:17	EPA 8270E	
N-Nitrosodiphenylamine	ND	---	179	mg/kg	100	04/05/23 21:17	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	---	179	mg/kg	100	04/05/23 21:17	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	---	179	mg/kg	100	04/05/23 21:17	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	---	179	mg/kg	100	04/05/23 21:17	EPA 8270E	
Hexachlorobenzene	ND	---	71.4	mg/kg	100	04/05/23 21:17	EPA 8270E	
Hexachlorobutadiene	ND	---	179	mg/kg	100	04/05/23 21:17	EPA 8270E	
Hexachlorocyclopentadiene	ND	---	357	mg/kg	100	04/05/23 21:17	EPA 8270E	
Hexachloroethane	ND	---	179	mg/kg	100	04/05/23 21:17	EPA 8270E	
2-Chloronaphthalene	ND	---	71.4	mg/kg	100	04/05/23 21:17	EPA 8270E	
1,2,4-Trichlorobenzene	ND	---	179	mg/kg	100	04/05/23 21:17	EPA 8270E	
4-Bromophenyl phenyl ether	ND	---	179	mg/kg	100	04/05/23 21:17	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	---	179	mg/kg	100	04/05/23 21:17	EPA 8270E	
Aniline	ND	---	357	mg/kg	100	04/05/23 21:17	EPA 8270E	
4-Chloroaniline	ND	---	179	mg/kg	100	04/05/23 21:17	EPA 8270E	
2-Nitroaniline	ND	---	1430	mg/kg	100	04/05/23 21:17	EPA 8270E	
3-Nitroaniline	ND	---	1430	mg/kg	100	04/05/23 21:17	EPA 8270E	
4-Nitroaniline	ND	---	1430	mg/kg	100	04/05/23 21:17	EPA 8270E	
Nitrobenzene	ND	---	714	mg/kg	100	04/05/23 21:17	EPA 8270E	
2,4-Dinitrotoluene	ND	---	714	mg/kg	100	04/05/23 21:17	EPA 8270E	
2,6-Dinitrotoluene	ND	---	714	mg/kg	100	04/05/23 21:17	EPA 8270E	
Benzoic acid	ND	---	8930	mg/kg	100	04/05/23 21:17	EPA 8270E	
Benzyl alcohol	ND	---	357	mg/kg	100	04/05/23 21:17	EPA 8270E	

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Darwin Thomas, Business Development Director

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

ANALYTICAL REPORT

NRC	Project: Maul Foster Alongi	
6211 N Ensign St	Project Number: 189690	Report ID:
Portland, OR 97217	Project Manager: Jerry Wade	A3C1137 - 04 20 23 1304

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Tank 4-T (A3C1137-01)				**Matrix: Liquid**		**Batch: 23D0179**		**R-04**
Isophorone	ND	---	179	mg/kg	100	04/05/23 21:17	EPA 8270E	
Azobenzene (1,2-DPH)	ND	---	179	mg/kg	100	04/05/23 21:17	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	---	1790	mg/kg	100	04/05/23 21:17	EPA 8270E	
3,3'-Dichlorobenzidine	ND	---	1430	mg/kg	100	04/05/23 21:17	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	---	1790	mg/kg	100	04/05/23 21:17	EPA 8270E	
1,3-Dinitrobenzene	ND	---	1790	mg/kg	100	04/05/23 21:17	EPA 8270E	
1,4-Dinitrobenzene	ND	---	1790	mg/kg	100	04/05/23 21:17	EPA 8270E	
Pyridine	ND	---	357	mg/kg	100	04/05/23 21:17	EPA 8270E	
1,2-Dichlorobenzene	ND	---	179	mg/kg	100	04/05/23 21:17	EPA 8270E	
1,3-Dichlorobenzene	ND	---	179	mg/kg	100	04/05/23 21:17	EPA 8270E	
1,4-Dichlorobenzene	ND	---	179	mg/kg	100	04/05/23 21:17	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery:*	*79 %*	*Limits: 37-122 %*	*100*	*04/05/23 21:17*	*EPA 8270E*	*S-05*
2-Fluorobiphenyl (Surr)			*100 %*	*44-120 %*	*100*	*04/05/23 21:17*	*EPA 8270E*	*S-05*
Phenol-d6 (Surr)			*294 %*	*33-122 %*	*100*	*04/05/23 21:17*	*EPA 8270E*	*S-05*
p-Terphenyl-d14 (Surr)			*133 %*	*54-127 %*	*100*	*04/05/23 21:17*	*EPA 8270E*	*S-05*
2-Fluorophenol (Surr)			*56 %*	*35-120 %*	*100*	*04/05/23 21:17*	*EPA 8270E*	*S-05*
2,4,6-Tribromophenol (Surr)			*340 %*	*39-132 %*	*100*	*04/05/23 21:17*	*EPA 8270E*	*S-05*
Tank 2-T (A3C1137-02)				**Matrix: Solid**		**Batch: 23D0146**		**R-04**
Acenaphthene	ND	---	2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
Acenaphthylene	ND	---	2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
Anthracene	ND	---	2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
Benz(a)anthracene	ND	---	2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
Benzo(a)pyrene	ND	---	3.91	mg/kg	40	04/05/23 17:55	EPA 8270E	
Benzo(b)fluoranthene	ND	---	3.91	mg/kg	40	04/05/23 17:55	EPA 8270E	
Benzo(k)fluoranthene	ND	---	3.91	mg/kg	40	04/05/23 17:55	EPA 8270E	
Benzo(g,h,i)perylene	ND	---	2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
Chrysene	ND	---	2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
Dibenz(a,h)anthracene	ND	---	2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
Fluoranthene	ND	---	2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
Fluorene	ND	---	2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	---	2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
1-Methylnaphthalene	ND	---	5.21	mg/kg	40	04/05/23 17:55	EPA 8270E	
2-Methylnaphthalene	ND	---	5.21	mg/kg	40	04/05/23 17:55	EPA 8270E	

Apex Laboratories

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Darwin Thomas, Business Development Director

APEX LABORATORIES

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

ANALYTICAL REPORT

NRC	Project: **Maul Foster Alongi**	
6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Tank 2-T (A3C1137-02)				**Matrix: Solid**		**Batch: 23D0146**		**R-04**
Naphthalene	ND	---	5.21	mg/kg	40	04/05/23 17:55	EPA 8270E	
Phenanthrene	ND	---	2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
Pyrene	ND	---	2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
Carbazole	ND	---	3.91	mg/kg	40	04/05/23 17:55	EPA 8270E	
Dibenzofuran	ND	---	2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
2-Chlorophenol	ND	---	13.0	mg/kg	40	04/05/23 17:55	EPA 8270E	
4-Chloro-3-methylphenol	ND	---	26.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
2,4-Dichlorophenol	ND	---	13.0	mg/kg	40	04/05/23 17:55	EPA 8270E	
2,4-Dimethylphenol	ND	---	13.0	mg/kg	40	04/05/23 17:55	EPA 8270E	
2,4-Dinitrophenol	ND	---	65.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	---	65.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
2-Methylphenol	ND	---	6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
3+4-Methylphenol(s)	ND	---	6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
2-Nitrophenol	ND	---	26.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
4-Nitrophenol	ND	---	26.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
Pentachlorophenol (PCP)	ND	---	26.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
Phenol	ND	---	5.21	mg/kg	40	04/05/23 17:55	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	---	13.0	mg/kg	40	04/05/23 17:55	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	---	13.0	mg/kg	40	04/05/23 17:55	EPA 8270E	
2,4,5-Trichlorophenol	ND	---	13.0	mg/kg	40	04/05/23 17:55	EPA 8270E	
2,4,6-Trichlorophenol	ND	---	13.0	mg/kg	40	04/05/23 17:55	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	---	39.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
Butyl benzyl phthalate	ND	---	26.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
Diethylphthalate	ND	---	26.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
Dimethylphthalate	ND	---	26.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
Di-n-butylphthalate	ND	---	26.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
Di-n-octyl phthalate	ND	---	26.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
N-Nitrosodimethylamine	ND	---	6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	---	6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
N-Nitrosodiphenylamine	ND	---	6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	---	6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	---	6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	---	6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	

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ORELAP ID: OR100062

ANALYTICAL REPORT

NRC	Project: Maul Foster Alongi	
6211 N Ensign St	Project Number: 189690	Report ID:
Portland, OR 97217	Project Manager: Jerry Wade	A3C1137 - 04 20 23 1304

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Tank 2-T (A3C1137-02)				**Matrix: Solid**		**Batch: 23D0146**		**R-04**
Hexachlorobenzene	ND	---	2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
Hexachlorobutadiene	ND	---	6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
Hexachlorocyclopentadiene	ND	---	13.0	mg/kg	40	04/05/23 17:55	EPA 8270E	
Hexachloroethane	ND	---	6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
2-Chloronaphthalene	ND	---	2.61	mg/kg	40	04/05/23 17:55	EPA 8270E	
1,2,4-Trichlorobenzene	ND	---	6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
4-Bromophenyl phenyl ether	ND	---	6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	---	6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
Aniline	ND	---	13.0	mg/kg	40	04/05/23 17:55	EPA 8270E	
4-Chloroaniline	ND	---	6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
2-Nitroaniline	ND	---	52.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
3-Nitroaniline	ND	---	52.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
4-Nitroaniline	ND	---	52.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
Nitrobenzene	ND	---	26.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
2,4-Dinitrotoluene	ND	---	26.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
2,6-Dinitrotoluene	ND	---	26.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
Benzoic acid	ND	---	325	mg/kg	40	04/05/23 17:55	EPA 8270E	
Benzyl alcohol	ND	---	13.0	mg/kg	40	04/05/23 17:55	EPA 8270E	
Isophorone	ND	---	6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
Azobenzene (1,2-DPH)	ND	---	6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	---	65.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
3,3'-Dichlorobenzidine	ND	---	52.1	mg/kg	40	04/05/23 17:55	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	---	65.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
1,3-Dinitrobenzene	ND	---	65.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
1,4-Dinitrobenzene	ND	---	65.1	mg/kg	40	04/05/23 17:55	EPA 8270E	
Pyridine	ND	---	13.0	mg/kg	40	04/05/23 17:55	EPA 8270E	
1,2-Dichlorobenzene	ND	---	6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
1,3-Dichlorobenzene	ND	---	6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
1,4-Dichlorobenzene	ND	---	6.51	mg/kg	40	04/05/23 17:55	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery: 121 %*	*Limits: 37-122 %*		*40*	*04/05/23 17:55*	*EPA 8270E*	*S-05*
2-Fluorobiphenyl (Surr)		*94 %*	*44-120 %*		*40*	*04/05/23 17:55*	*EPA 8270E*	*S-05*
Phenol-d6 (Surr)		*1020 %*	*33-122 %*		*40*	*04/05/23 17:55*	*EPA 8270E*	*S-05*
p-Terphenyl-d14 (Surr)		*112 %*	*54-127 %*		*40*	*04/05/23 17:55*	*EPA 8270E*	*S-05*
2-Fluorophenol (Surr)		*29 %*	*35-120 %*		*40*	*04/05/23 17:55*	*EPA 8270E*	*S-05*

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ORELAP ID: OR100062

ANALYTICAL REPORT

NRC	Project: Maul Foster Alongi	
6211 N Ensign St	Project Number: 189690	Report ID:
Portland, OR 97217	Project Manager: Jerry Wade	A3C1137 - 04 20 23 1304

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Tank 2-T (A3C1137-02)				**Matrix: Solid**		**Batch: 23D0146**		**R-04**
Surrogate: 2,4,6-Tribromophenol (Surr)			*Recovery: %*	*Limits: 39-132 %*	*40*	*04/05/23 17:55*	*EPA 8270E*	*S-01*
Tank 0-T (A3C1137-03)				**Matrix: Solid**		**Batch: 23D0146**		**R-04**
Acenaphthene	ND	---	7.92	mg/kg	40	04/05/23 19:03	EPA 8270E	
Acenaphthylene	ND	---	7.92	mg/kg	40	04/05/23 19:03	EPA 8270E	
Anthracene	ND	---	7.92	mg/kg	40	04/05/23 19:03	EPA 8270E	
Benz(a)anthracene	ND	---	7.92	mg/kg	40	04/05/23 19:03	EPA 8270E	
Benzo(a)pyrene	ND	---	11.9	mg/kg	40	04/05/23 19:03	EPA 8270E	
Benzo(b)fluoranthene	ND	---	11.9	mg/kg	40	04/05/23 19:03	EPA 8270E	
Benzo(k)fluoranthene	ND	---	11.9	mg/kg	40	04/05/23 19:03	EPA 8270E	
Benzo(g,h,i)perylene	ND	---	7.92	mg/kg	40	04/05/23 19:03	EPA 8270E	
Chrysene	ND	---	7.92	mg/kg	40	04/05/23 19:03	EPA 8270E	
Dibenz(a,h)anthracene	ND	---	7.92	mg/kg	40	04/05/23 19:03	EPA 8270E	
Fluoranthene	ND	---	7.92	mg/kg	40	04/05/23 19:03	EPA 8270E	
Fluorene	ND	---	7.92	mg/kg	40	04/05/23 19:03	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	---	7.92	mg/kg	40	04/05/23 19:03	EPA 8270E	
1-Methylnaphthalene	ND	---	15.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
2-Methylnaphthalene	ND	---	15.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
Naphthalene	ND	---	15.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
Phenanthrene	ND	---	7.92	mg/kg	40	04/05/23 19:03	EPA 8270E	
Pyrene	ND	---	7.92	mg/kg	40	04/05/23 19:03	EPA 8270E	
Carbazole	ND	---	11.9	mg/kg	40	04/05/23 19:03	EPA 8270E	
Dibenzofuran	ND	---	7.92	mg/kg	40	04/05/23 19:03	EPA 8270E	
2-Chlorophenol	ND	---	39.4	mg/kg	40	04/05/23 19:03	EPA 8270E	
4-Chloro-3-methylphenol	ND	---	79.2	mg/kg	40	04/05/23 19:03	EPA 8270E	
2,4-Dichlorophenol	ND	---	39.4	mg/kg	40	04/05/23 19:03	EPA 8270E	
2,4-Dimethylphenol	ND	---	39.4	mg/kg	40	04/05/23 19:03	EPA 8270E	
2,4-Dinitrophenol	ND	---	198	mg/kg	40	04/05/23 19:03	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	---	198	mg/kg	40	04/05/23 19:03	EPA 8270E	
2-Methylphenol	ND	---	19.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
3+4-Methylphenol(s)	ND	---	19.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
2-Nitrophenol	ND	---	79.2	mg/kg	40	04/05/23 19:03	EPA 8270E	
4-Nitrophenol	ND	---	79.2	mg/kg	40	04/05/23 19:03	EPA 8270E	
Pentachlorophenol (PCP)	ND	---	79.2	mg/kg	40	04/05/23 19:03	EPA 8270E	

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ANALYTICAL REPORT

NRC	Project: Maul Foster Alongi	
6211 N Ensign St	Project Number: 189690	Report ID:
Portland, OR 97217	Project Manager: Jerry Wade	A3C1137 - 04 20 23 1304

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Tank 0-T (A3C1137-03)				**Matrix: Solid**		**Batch: 23D0146**		**R-04**
Phenol	ND	---	15.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	---	39.4	mg/kg	40	04/05/23 19:03	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	---	39.4	mg/kg	40	04/05/23 19:03	EPA 8270E	
2,4,5-Trichlorophenol	ND	---	39.4	mg/kg	40	04/05/23 19:03	EPA 8270E	
2,4,6-Trichlorophenol	ND	---	39.4	mg/kg	40	04/05/23 19:03	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	---	119	mg/kg	40	04/05/23 19:03	EPA 8270E	
Butyl benzyl phthalate	ND	---	79.2	mg/kg	40	04/05/23 19:03	EPA 8270E	
Diethylphthalate	ND	---	79.2	mg/kg	40	04/05/23 19:03	EPA 8270E	
Dimethylphthalate	ND	---	79.2	mg/kg	40	04/05/23 19:03	EPA 8270E	
Di-n-butylphthalate	ND	---	79.2	mg/kg	40	04/05/23 19:03	EPA 8270E	
Di-n-octyl phthalate	ND	---	79.2	mg/kg	40	04/05/23 19:03	EPA 8270E	
N-Nitrosodimethylamine	ND	---	19.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	---	19.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
N-Nitrosodiphenylamine	ND	---	19.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	---	19.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
Bis(2-Chloroethyl) ether	ND	---	19.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	---	19.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
Hexachlorobenzene	ND	---	7.92	mg/kg	40	04/05/23 19:03	EPA 8270E	
Hexachlorobutadiene	ND	---	19.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
Hexachlorocyclopentadiene	ND	---	39.4	mg/kg	40	04/05/23 19:03	EPA 8270E	
Hexachloroethane	ND	---	19.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
2-Chloronaphthalene	ND	---	7.92	mg/kg	40	04/05/23 19:03	EPA 8270E	
1,2,4-Trichlorobenzene	ND	---	19.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
4-Bromophenyl phenyl ether	ND	---	19.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	---	19.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
Aniline	ND	---	39.4	mg/kg	40	04/05/23 19:03	EPA 8270E	
4-Chloroaniline	ND	---	19.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
2-Nitroaniline	ND	---	158	mg/kg	40	04/05/23 19:03	EPA 8270E	
3-Nitroaniline	ND	---	158	mg/kg	40	04/05/23 19:03	EPA 8270E	
4-Nitroaniline	ND	---	158	mg/kg	40	04/05/23 19:03	EPA 8270E	
Nitrobenzene	ND	---	79.2	mg/kg	40	04/05/23 19:03	EPA 8270E	
2,4-Dinitrotoluene	ND	---	79.2	mg/kg	40	04/05/23 19:03	EPA 8270E	
2,6-Dinitrotoluene	ND	---	79.2	mg/kg	40	04/05/23 19:03	EPA 8270E	

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ANALYTICAL REPORT

NRC	Project: **Maul Foster Alongi**	
6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Tank 0-T (A3C1137-03)				**Matrix: Solid**		**Batch: 23D0146**		**R-04**
Benzoic acid	ND	---	987	mg/kg	40	04/05/23 19:03	EPA 8270E	
Benzyl alcohol	ND	---	39.4	mg/kg	40	04/05/23 19:03	EPA 8270E	
Isophorone	ND	---	19.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
Azobenzene (1,2-DPH)	ND	---	19.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	---	198	mg/kg	40	04/05/23 19:03	EPA 8270E	
3,3'-Dichlorobenzidine	ND	---	158	mg/kg	40	04/05/23 19:03	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	---	198	mg/kg	40	04/05/23 19:03	EPA 8270E	
1,3-Dinitrobenzene	ND	---	198	mg/kg	40	04/05/23 19:03	EPA 8270E	
1,4-Dinitrobenzene	ND	---	198	mg/kg	40	04/05/23 19:03	EPA 8270E	
Pyridine	ND	---	39.4	mg/kg	40	04/05/23 19:03	EPA 8270E	
1,2-Dichlorobenzene	ND	---	19.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
1,3-Dichlorobenzene	ND	---	19.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
1,4-Dichlorobenzene	ND	---	19.8	mg/kg	40	04/05/23 19:03	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		*Recovery:*	*152 %*	*Limits: 37-122 %*	*40*	*04/05/23 19:03*	*EPA 8270E*	*S-05*
2-Fluorobiphenyl (Surr)			*94 %*	*44-120 %*	*40*	*04/05/23 19:03*	*EPA 8270E*	*S-05*
Phenol-d6 (Surr)			*1040 %*	*33-122 %*	*40*	*04/05/23 19:03*	*EPA 8270E*	*S-05*
p-Terphenyl-d14 (Surr)			*118 %*	*54-127 %*	*40*	*04/05/23 19:03*	*EPA 8270E*	*S-05*
2-Fluorophenol (Surr)			*72 %*	*35-120 %*	*40*	*04/05/23 19:03*	*EPA 8270E*	*S-05*
2,4,6-Tribromophenol (Surr)			*%*	*39-132 %*	*40*	*04/05/23 19:03*	*EPA 8270E*	*S-01*

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

NRC	Project: **Maul Foster Alongi**	
6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Tank 4-T (A3C1137-01)				**Matrix: Liquid**				
Batch: 23D0013								
Arsenic	ND	---	2.43	mg/kg	5	04/03/23 16:50	EPA 6020B	R-04
Barium	ND	---	2.43	mg/kg	5	04/03/23 16:50	EPA 6020B	R-04
Cadmium	ND	---	0.485	mg/kg	5	04/03/23 16:50	EPA 6020B	R-04
Chromium	ND	---	2.43	mg/kg	5	04/03/23 16:50	EPA 6020B	R-04
Lead	ND	---	0.485	mg/kg	5	04/03/23 16:50	EPA 6020B	R-04
Mercury	ND	---	0.194	mg/kg	5	04/03/23 16:50	EPA 6020B	R-04
Selenium	ND	---	2.43	mg/kg	5	04/03/23 16:50	EPA 6020B	R-04
Silver	ND	---	0.485	mg/kg	5	04/03/23 16:50	EPA 6020B	R-04
Tank 0-T (A3C1137-03)				**Matrix: Solid**				
Batch: 23D0210								
Arsenic	ND	---	1.10	mg/kg	10	04/07/23 14:55	EPA 6020B	
Cadmium	**1.48**	---	0.220	mg/kg	10	04/07/23 14:55	EPA 6020B	**Q-42**
Chromium	**3.64**	---	1.10	mg/kg	10	04/07/23 14:55	EPA 6020B	
Lead	**6.66**	---	0.220	mg/kg	10	04/07/23 14:55	EPA 6020B	
Mercury	**0.149**	---	0.0879	mg/kg	10	04/07/23 14:55	EPA 6020B	
Selenium	ND	---	1.10	mg/kg	10	04/07/23 14:55	EPA 6020B	
Silver	ND	---	0.220	mg/kg	10	04/07/23 14:55	EPA 6020B	
Tank 0-T (A3C1137-03RE1)				**Matrix: Solid**				
Batch: 23D0210								
Barium	**726**	---	11.0	mg/kg	100	04/07/23 15:25	EPA 6020B	

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503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

NRC	Project: Maul Foster Alongi	
6211 N Ensign St	Project Number: 189690	Report ID:
Portland, OR 97217	Project Manager: Jerry Wade	A3C1137 - 04 20 23 1304

ANALYTICAL SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Tank 2-T (A3C1137-02)				**Matrix: Solid**				
Batch: 23D0208								
Arsenic	ND	---	0.100	mg/L	10	04/06/23 18:11	1311/6020B	TCLPa
Barium	ND	---	5.00	mg/L	10	04/06/23 18:11	1311/6020B	TCLPa
Cadmium	ND	---	0.100	mg/L	10	04/06/23 18:11	1311/6020B	TCLPa
Chromium	ND	---	0.100	mg/L	10	04/06/23 18:11	1311/6020B	TCLPa
Lead	ND	---	0.0500	mg/L	10	04/06/23 18:11	1311/6020B	TCLPa
Mercury	ND	---	0.00700	mg/L	10	04/06/23 18:11	1311/6020B	TCLPa
Selenium	ND	---	0.100	mg/L	10	04/06/23 18:11	1311/6020B	TCLPa
Silver	ND	---	0.100	mg/L	10	04/06/23 18:11	1311/6020B	TCLPa
Tank 0-T (A3C1137-03)				**Matrix: Solid**				
Batch: 23D0209								
Arsenic	ND	---	0.100	mg/L	10	04/06/23 17:01	1311/6020B	TCLPa
Barium	ND	---	5.00	mg/L	10	04/06/23 17:01	1311/6020B	TCLPa
Cadmium	ND	---	0.100	mg/L	10	04/06/23 17:01	1311/6020B	TCLPa
Chromium	ND	---	0.100	mg/L	10	04/06/23 17:01	1311/6020B	TCLPa
Lead	ND	---	0.0500	mg/L	10	04/06/23 17:01	1311/6020B	TCLPa
Mercury	ND	---	0.00700	mg/L	10	04/06/23 17:01	1311/6020B	TCLPa
Selenium	ND	---	0.100	mg/L	10	04/06/23 17:01	1311/6020B	TCLPa
Silver	ND	---	0.100	mg/L	10	04/06/23 17:01	1311/6020B	TCLPa

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ANALYTICAL REPORT

NRC	Project: **Maul Foster Alongi**	
6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

ANALYTICAL SAMPLE RESULTS

TCLP Extraction by EPA 1311

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Tank 2-T (A3C1137-02)				**Matrix: Solid**		**Batch: 23D0150**		
TCLP Extraction	PREP	---		N/A	1	04/05/23 14:10	EPA 1311	
Tank 0-T (A3C1137-03)				**Matrix: Solid**		**Batch: 23D0162**		
TCLP Extraction	PREP	---		N/A	1	04/05/23 14:10	EPA 1311	

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ANALYTICAL REPORT

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6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

QUALITY CONTROL (QC) SAMPLE RESULTS

Hydrocarbon Identification Screen by NWTPH-HCID

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0071 - NWTPH-HCID (Soil)												**Liquid**
Blank (23D0071-BLK1)			Prepared: 04/03/23 16:52 Analyzed: 04/04/23 14:07									
NWTPH-HCID												
Gasoline Range Organics	ND	---	200	mg/kg	1	---	---	---	---	---	---	
Diesel Range Organics	ND	---	500	mg/kg	1	---	---	---	---	---	---	
Oil Range Organics	ND	---	1000	mg/kg	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)			*Recovery: 96 %*	*Limits: 50-150 %*			*Dilution: 1x*					
4-Bromofluorobenzene (Surr)			*95 %*	*50-150 %*			*"*					
Duplicate (23D0071-DUP1)			Prepared: 04/03/23 16:52 Analyzed: 04/04/23 14:55									
QC Source Sample: Tank 4-T (A3C1137-01)												
NWTPH-HCID												
Gasoline Range Organics	ND	---	37700	mg/kg	100	---	ND	---	---	---	30%	
Diesel Range Organics	**DET**	---	94300	mg/kg	100	---	ND	---	---		30%	F-11
Oil Range Organics	ND	---	189000	mg/kg	100	---	ND	---	---	---	30%	
Surr: o-Terphenyl (Surr)			*Recovery: %*	*Limits: 50-150 %*			*Dilution: 100x*					S-01
4-Bromofluorobenzene (Surr)			*%*	*50-150 %*			*"*					S-01

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ANALYTICAL REPORT

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6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0145 - EPA 3546							**Solid**					
Blank (23D0145-BLK1)			Prepared: 04/05/23 09:49		Analyzed: 04/06/23 08:53							**C-07**
EPA 8082A												
Aroclor 1016	ND	---	0.0500	mg/kg	1	---	---	---	---	---	---	
Aroclor 1221	ND	---	0.0500	mg/kg	1	---	---	---	---	---	---	
Aroclor 1232	ND	---	0.0500	mg/kg	1	---	---	---	---	---	---	
Aroclor 1242	ND	---	0.0500	mg/kg	1	---	---	---	---	---	---	
Aroclor 1248	ND	---	0.0500	mg/kg	1	---	---	---	---	---	---	
Aroclor 1254	ND	---	0.0500	mg/kg	1	---	---	---	---	---	---	
Aroclor 1260	ND	---	0.0500	mg/kg	1	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 103 %*		*Limits: 60-125 %*				*Dilution: 1x*			
LCS (23D0145-BS1)			Prepared: 04/05/23 09:49		Analyzed: 04/06/23 09:10							**C-07**
EPA 8082A												
Aroclor 1016	0.891	---	0.0500	mg/kg	1	1.25	---	71	47-134%	---	---	
Aroclor 1260	1.17	---	0.0500	mg/kg	1	1.25	---	94	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 105 %*		*Limits: 60-125 %*				*Dilution: 1x*			
Duplicate (23D0145-DUP1)			Prepared: 04/05/23 09:49		Analyzed: 04/06/23 10:21							**C-07**
QC Source Sample: Non-SDG (A3C0962-01)												
Aroclor 1016	ND	---	0.246	mg/kg	2	---	ND	---	---	---	30%	R-02
Aroclor 1221	ND	---	0.0985	mg/kg	2	---	ND	---	---	---	30%	
Aroclor 1232	ND	---	0.420	mg/kg	2	---	ND	---	---	---	30%	R-02
Aroclor 1242	ND	---	0.453	mg/kg	2	---	ND	---	---	---	30%	R-02
Aroclor 1248	ND	---	0.242	mg/kg	2	---	ND	---	---	---	30%	R-02
Aroclor 1254	ND	---	0.0985	mg/kg	2	---	ND	---	---	---	30%	
Aroclor 1260	ND	---	0.0985	mg/kg	2	---	ND	---	---	---	30%	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 68 %*		*Limits: 60-125 %*				*Dilution: 2x*			
Matrix Spike (23D0145-MS1)			Prepared: 04/05/23 09:49		Analyzed: 04/06/23 12:25							**C-07**
QC Source Sample: Tank 0-T (A3C1137-03)												
EPA 8082A												
Aroclor 1016	0.541	---	0.0939	mg/kg	2	1.17	ND	**46**	**47-134%**	---	---	Q-01
Aroclor 1260	0.658	---	0.0939	mg/kg	2	1.17	ND	56	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 62 %*		*Limits: 60-125 %*				*Dilution: 2x*			

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ANALYTICAL REPORT

NRC	Project: **Maul Foster Alongi**	
6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0145 - EPA 3546							**Solid**					

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ANALYTICAL REPORT

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6211 N Ensign St	Project Number: 189690	Report ID:
Portland, OR 97217	Project Manager: Jerry Wade	A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0198 - EPA 3546							Liquid					
Blank (23D0198-BLK1)			Prepared: 04/06/23 09:43		Analyzed: 04/07/23 08:19							C-07
EPA 8082A												
Aroclor 1016	ND	---	0.0500	mg/kg	1	---	---	---	---	---	---	
Aroclor 1221	ND	---	0.0500	mg/kg	1	---	---	---	---	---	---	
Aroclor 1232	ND	---	0.0500	mg/kg	1	---	---	---	---	---	---	
Aroclor 1242	ND	---	0.0500	mg/kg	1	---	---	---	---	---	---	
Aroclor 1248	ND	---	0.0500	mg/kg	1	---	---	---	---	---	---	
Aroclor 1254	ND	---	0.0500	mg/kg	1	---	---	---	---	---	---	
Aroclor 1260	ND	---	0.0500	mg/kg	1	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 94 %*		*Limits: 60-125 %*				*Dilution: 1x*			
LCS (23D0198-BS1)			Prepared: 04/06/23 09:43		Analyzed: 04/07/23 08:37							C-07
EPA 8082A												
Aroclor 1016	0.891	---	0.0500	mg/kg	1	1.25	---	71	47-134%	---	---	
Aroclor 1260	1.11	---	0.0500	mg/kg	1	1.25	---	89	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 98 %*		*Limits: 60-125 %*				*Dilution: 1x*			
Duplicate (23D0198-DUP1)			Prepared: 04/06/23 09:43		Analyzed: 04/07/23 09:30							C-07
QC Source Sample: Tank 4-T (A3C1137-01)												
EPA 8082A												
Aroclor 1016	ND	---	1.00	mg/kg	1	---	ND	---	---	---	30%	
Aroclor 1221	ND	---	1.00	mg/kg	1	---	ND	---	---	---	30%	
Aroclor 1232	ND	---	1.00	mg/kg	1	---	ND	---	---	---	30%	
Aroclor 1242	ND	---	1.00	mg/kg	1	---	ND	---	---	---	30%	
Aroclor 1248	ND	---	1.00	mg/kg	1	---	ND	---	---	---	30%	
Aroclor 1254	ND	---	1.00	mg/kg	1	---	ND	---	---	---	30%	
Aroclor 1260	ND	---	1.00	mg/kg	1	---	ND	---	---	---	30%	
Surr: Decachlorobiphenyl (Surr)			*Recovery: 96 %*		*Limits: 60-125 %*				*Dilution: 1x*			
Matrix Spike (23D0198-MS1)			Prepared: 04/06/23 09:43		Analyzed: 04/07/23 10:06							C-07
QC Source Sample: Tank 4-T (A3C1137-01)												
EPA 8082A												
Aroclor 1016	12.7	---	0.625	mg/kg	1	15.6	ND	81	47-134%	---	---	
Aroclor 1260	13.7	---	0.625	mg/kg	1	15.6	ND	88	53-140%	---	---	

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ANALYTICAL REPORT

NRC	Project: **Maul Foster Alongi**	
6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0198 - EPA 3546							**Liquid**					
Matrix Spike (23D0198-MS1)			Prepared: 04/06/23 09:43 Analyzed: 04/07/23 10:06									**C-07**
QC Source Sample: Tank 4-T (A3C1137-01)												
Surr: Decachlorobiphenyl (Surr)			*Recovery: 99 %*	*Limits: 60-125 %*		*Dilution: 1x*						

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ANALYTICAL REPORT

NRC	Project: Maul Foster Alongi	
6211 N Ensign St	Project Number: 189690	Report ID:
Portland, OR 97217	Project Manager: Jerry Wade	A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0146 - EPA 3546							Solid					
Blank (23D0146-BLK1)			Prepared: 04/05/23 09:55 Analyzed: 04/05/23 16:47									
EPA 8270E												
Acenaphthene	ND	---	0.00267	mg/kg	1	---	---	---	---	---	---	
Acenaphthylene	ND	---	0.00267	mg/kg	1	---	---	---	---	---	---	
Anthracene	ND	---	0.00267	mg/kg	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	---	0.00267	mg/kg	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	---	0.00400	mg/kg	1	---	---	---	---	---	---	B-02
Benzo(b)fluoranthene	ND	---	0.00400	mg/kg	1	---	---	---	---	---	---	B-02
Benzo(k)fluoranthene	ND	---	0.00400	mg/kg	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	---	0.00267	mg/kg	1	---	---	---	---	---	---	
Chrysene	ND	---	0.00267	mg/kg	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	---	0.00267	mg/kg	1	---	---	---	---	---	---	
Fluoranthene	ND	---	0.00267	mg/kg	1	---	---	---	---	---	---	
Fluorene	ND	---	0.00267	mg/kg	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	---	0.00267	mg/kg	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	---	0.00533	mg/kg	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	---	0.00533	mg/kg	1	---	---	---	---	---	---	
Naphthalene	ND	---	0.00533	mg/kg	1	---	---	---	---	---	---	
Phenanthrene	ND	---	0.00267	mg/kg	1	---	---	---	---	---	---	
Pyrene	ND	---	0.00267	mg/kg	1	---	---	---	---	---	---	
Carbazole	ND	---	0.00400	mg/kg	1	---	---	---	---	---	---	
Dibenzofuran	ND	---	0.00267	mg/kg	1	---	---	---	---	---	---	
2-Chlorophenol	ND	---	0.0133	mg/kg	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	---	0.0267	mg/kg	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	---	0.0133	mg/kg	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	---	0.0133	mg/kg	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	---	0.0667	mg/kg	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	---	0.0667	mg/kg	1	---	---	---	---	---	---	
2-Methylphenol	ND	---	0.00667	mg/kg	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	---	0.00667	mg/kg	1	---	---	---	---	---	---	
2-Nitrophenol	ND	---	0.0267	mg/kg	1	---	---	---	---	---	---	
4-Nitrophenol	ND	---	0.0267	mg/kg	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	---	0.0267	mg/kg	1	---	---	---	---	---	---	
Phenol	ND	---	0.00533	mg/kg	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	---	0.0133	mg/kg	1	---	---	---	---	---	---	

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ANALYTICAL REPORT

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6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0146 - EPA 3546							**Solid**					
Blank (23D0146-BLK1)			Prepared: 04/05/23 09:55		Analyzed: 04/05/23 16:47							
2,3,5,6-Tetrachlorophenol	ND	---	0.0133	mg/kg	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	---	0.0133	mg/kg	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	---	0.0133	mg/kg	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	---	0.0400	mg/kg	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	---	0.0267	mg/kg	1	---	---	---	---	---	---	
Diethylphthalate	ND	---	0.0267	mg/kg	1	---	---	---	---	---	---	
Dimethylphthalate	ND	---	0.0267	mg/kg	1	---	---	---	---	---	---	
Di-n-butylphthalate	**0.195**	---	0.0267	mg/kg	1	---	---	---	---	---	---	B
Di-n-octyl phthalate	ND	---	0.0267	mg/kg	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	---	0.00667	mg/kg	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	---	0.00667	mg/kg	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	---	0.00667	mg/kg	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	---	0.00667	mg/kg	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	---	0.00667	mg/kg	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	---	0.00667	mg/kg	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	---	0.00267	mg/kg	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	0.00667	mg/kg	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	---	0.0133	mg/kg	1	---	---	---	---	---	---	
Hexachloroethane	ND	---	0.00667	mg/kg	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	---	0.00267	mg/kg	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	0.00667	mg/kg	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	---	0.00667	mg/kg	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	---	0.00667	mg/kg	1	---	---	---	---	---	---	
Aniline	ND	---	0.0133	mg/kg	1	---	---	---	---	---	---	
4-Chloroaniline	ND	---	0.00667	mg/kg	1	---	---	---	---	---	---	
2-Nitroaniline	ND	---	0.0533	mg/kg	1	---	---	---	---	---	---	
3-Nitroaniline	ND	---	0.0533	mg/kg	1	---	---	---	---	---	---	
4-Nitroaniline	ND	---	0.0533	mg/kg	1	---	---	---	---	---	---	
Nitrobenzene	ND	---	0.0267	mg/kg	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	---	0.0267	mg/kg	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	---	0.0267	mg/kg	1	---	---	---	---	---	---	
Benzoic acid	ND	---	0.333	mg/kg	1	---	---	---	---	---	---	
Benzyl alcohol	ND	---	0.0133	mg/kg	1	---	---	---	---	---	---	
Isophorone	ND	---	0.00667	mg/kg	1	---	---	---	---	---	---	

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Darwin Thomas, Business Development Director

APEX LABORATORIES

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

NRC	Project: **Maul Foster Alongi**	
6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0146 - EPA 3546							**Solid**					
Blank (23D0146-BLK1)			Prepared: 04/05/23 09:55 Analyzed: 04/05/23 16:47									
Azobenzene (1,2-DPH)	ND	---	0.00667	mg/kg	1	---	---	---	---	---	---	
Bis(2-Ethylhexyl) adipate	ND	---	0.0667	mg/kg	1	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	---	0.0533	mg/kg	1	---	---	---	---	---	---	Q-52
1,2-Dinitrobenzene	ND	---	0.0667	mg/kg	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	---	0.0667	mg/kg	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	---	0.0667	mg/kg	1	---	---	---	---	---	---	
Pyridine	ND	---	0.0133	mg/kg	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	---	0.00667	mg/kg	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	---	0.00667	mg/kg	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	---	0.00667	mg/kg	1	---	---	---	---	---	---	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 99 %*		*Limits: 37-122 %*				*Dilution: 1x*			
2-Fluorobiphenyl (Surr)			*88 %*		*44-120 %*				*"*			
Phenol-d6 (Surr)			*85 %*		*33-122 %*				*"*			
p-Terphenyl-d14 (Surr)			*94 %*		*54-127 %*				*"*			
2-Fluorophenol (Surr)			*84 %*		*35-120 %*				*"*			
2,4,6-Tribromophenol (Surr)			*86 %*		*39-132 %*				*"*			
LCS (23D0146-BS1)			Prepared: 04/05/23 09:55 Analyzed: 04/05/23 17:21									**Q-18**
EPA 8270E												
Acenaphthene	0.526	---	0.0107	mg/kg	4	0.533	---	99	40-123%	---	---	
Acenaphthylene	0.502	---	0.0107	mg/kg	4	0.533	---	94	32-132%	---	---	
Anthracene	0.541	---	0.0107	mg/kg	4	0.533	---	101	47-123%	---	---	
Benz(a)anthracene	0.540	---	0.0107	mg/kg	4	0.533	---	101	49-126%	---	---	
Benzo(a)pyrene	0.514	---	0.0160	mg/kg	4	0.533	---	96	45-129%	---	---	B-02
Benzo(b)fluoranthene	0.509	---	0.0160	mg/kg	4	0.533	---	95	45-132%	---	---	B-02
Benzo(k)fluoranthene	0.514	---	0.0160	mg/kg	4	0.533	---	96	47-132%	---	---	
Benzo(g,h,i)perylene	0.547	---	0.0107	mg/kg	4	0.533	---	103	43-134%	---	---	
Chrysene	0.535	---	0.0107	mg/kg	4	0.533	---	100	50-124%	---	---	
Dibenz(a,h)anthracene	0.542	---	0.0107	mg/kg	4	0.533	---	102	45-134%	---	---	
Fluoranthene	0.569	---	0.0107	mg/kg	4	0.533	---	107	50-127%	---	---	
Fluorene	0.505	---	0.0107	mg/kg	4	0.533	---	95	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	0.502	---	0.0107	mg/kg	4	0.533	---	94	45-133%	---	---	
1-Methylnaphthalene	0.531	---	0.0213	mg/kg	4	0.533	---	100	40-120%	---	---	
2-Methylnaphthalene	0.578	---	0.0213	mg/kg	4	0.533	---	108	38-122%	---	---	

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Darwin Thomas, Business Development Director

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

NRC	Project: **Maul Foster Alongi**	
6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0146 - EPA 3546							**Solid**					
LCS (23D0146-BS1)			Prepared: 04/05/23 09:55		Analyzed: 04/05/23 17:21							**Q-18**
Naphthalene	0.523	---	0.0213	mg/kg	4	0.533	---	98	35-123%	---	---	
Phenanthrene	0.510	---	0.0107	mg/kg	4	0.533	---	96	50-121%	---	---	
Pyrene	0.568	---	0.0107	mg/kg	4	0.533	---	106	47-127%	---	---	
Carbazole	0.589	---	0.0160	mg/kg	4	0.533	---	110	50-123%	---	---	
Dibenzofuran	0.533	---	0.0107	mg/kg	4	0.533	---	100	44-120%	---	---	
2-Chlorophenol	0.580	---	0.0532	mg/kg	4	0.533	---	109	34-121%	---	---	
4-Chloro-3-methylphenol	0.609	---	0.107	mg/kg	4	0.533	---	114	45-122%	---	---	
2,4-Dichlorophenol	0.622	---	0.0532	mg/kg	4	0.533	---	117	40-122%	---	---	
2,4-Dimethylphenol	0.666	---	0.0532	mg/kg	4	0.533	---	125	30-127%	---	---	
2,4-Dinitrophenol	0.617	---	0.267	mg/kg	4	0.533	---	116	10-137%	---	---	
4,6-Dinitro-2-methylphenol	0.577	---	0.267	mg/kg	4	0.533	---	108	29-132%	---	---	
2-Methylphenol	0.641	---	0.0267	mg/kg	4	0.533	---	120	32-122%	---	---	Q-41
3+4-Methylphenol(s)	0.637	---	0.0267	mg/kg	4	0.533	---	119	34-120%	---	---	
2-Nitrophenol	0.730	---	0.107	mg/kg	4	0.533	---	**137**	**36-123%**	---	---	Q-29, Q-41
4-Nitrophenol	0.616	---	0.107	mg/kg	4	0.533	---	116	30-132%	---	---	
Pentachlorophenol (PCP)	0.507	---	0.107	mg/kg	4	0.533	---	95	25-133%	---	---	
Phenol	0.596	---	0.0213	mg/kg	4	0.533	---	112	34-121%	---	---	
2,3,4,6-Tetrachlorophenol	0.543	---	0.0532	mg/kg	4	0.533	---	102	44-125%	---	---	
2,3,5,6-Tetrachlorophenol	0.562	---	0.0532	mg/kg	4	0.533	---	105	40-120%	---	---	
2,4,5-Trichlorophenol	0.560	---	0.0532	mg/kg	4	0.533	---	105	41-124%	---	---	
2,4,6-Trichlorophenol	0.547	---	0.0532	mg/kg	4	0.533	---	103	39-126%	---	---	
Bis(2-ethylhexyl)phthalate	0.535	---	0.160	mg/kg	4	0.533	---	100	51-133%	---	---	
Butyl benzyl phthalate	0.584	---	0.107	mg/kg	4	0.533	---	109	48-132%	---	---	
Diethylphthalate	0.507	---	0.107	mg/kg	4	0.533	---	95	50-124%	---	---	
Dimethylphthalate	0.525	---	0.107	mg/kg	4	0.533	---	98	48-124%	---	---	
Di-n-butylphthalate	0.851	---	0.107	mg/kg	4	0.533	---	**159**	**51-128%**	---	---	Q-29, B
Di-n-octyl phthalate	0.515	---	0.107	mg/kg	4	0.533	---	97	45-140%	---	---	
N-Nitrosodimethylamine	0.504	---	0.0267	mg/kg	4	0.533	---	95	23-120%	---	---	
N-Nitroso-di-n-propylamine	0.555	---	0.0267	mg/kg	4	0.533	---	104	36-120%	---	---	
N-Nitrosodiphenylamine	0.528	---	0.0267	mg/kg	4	0.533	---	99	38-127%	---	---	
Bis(2-Chloroethoxy) methane	0.607	---	0.0267	mg/kg	4	0.533	---	114	36-121%	---	---	
Bis(2-Chloroethyl) ether	0.476	---	0.0267	mg/kg	4	0.533	---	89	31-120%	---	---	
2,2'-Oxybis(1-Chloropropane)	0.473	---	0.0267	mg/kg	4	0.533	---	89	39-120%	---	---	
Hexachlorobenzene	0.493	---	0.0107	mg/kg	4	0.533	---	92	45-122%	---	---	

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Darwin Thomas, Business Development Director

APEX LABORATORIES

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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

NRC	Project: **Maul Foster Alongi**	
6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0146 - EPA 3546							**Solid**					
LCS (23D0146-BS1)			Prepared: 04/05/23 09:55		Analyzed: 04/05/23 17:21							**Q-18**
Hexachlorobutadiene	0.478	---	0.0267	mg/kg	4	0.533	---	90	32-123%	---	---	
Hexachlorocyclopentadiene	0.698	---	0.0532	mg/kg	4	0.533	---	131	10-140%	---	---	Q-41
Hexachloroethane	0.490	---	0.0267	mg/kg	4	0.533	---	92	28-120%	---	---	
2-Chloronaphthalene	0.573	---	0.0107	mg/kg	4	0.533	---	107	41-120%	---	---	
1,2,4-Trichlorobenzene	0.514	---	0.0267	mg/kg	4	0.533	---	96	34-120%	---	---	
4-Bromophenyl phenyl ether	0.548	---	0.0267	mg/kg	4	0.533	---	103	46-124%	---	---	
4-Chlorophenyl phenyl ether	0.550	---	0.0267	mg/kg	4	0.533	---	103	45-121%	---	---	
Aniline	0.305	---	0.0532	mg/kg	4	0.533	---	57	10-120%	---	---	
4-Chloroaniline	0.268	---	0.0267	mg/kg	4	0.533	---	50	17-120%	---	---	
2-Nitroaniline	0.557	---	0.213	mg/kg	4	0.533	---	104	44-127%	---	---	
3-Nitroaniline	0.384	---	0.213	mg/kg	4	0.533	---	72	33-120%	---	---	
4-Nitroaniline	0.645	---	0.213	mg/kg	4	0.533	---	121	51-125%	---	---	
Nitrobenzene	0.604	---	0.107	mg/kg	4	0.533	---	113	34-122%	---	---	
2,4-Dinitrotoluene	0.541	---	0.107	mg/kg	4	0.533	---	101	48-126%	---	---	
2,6-Dinitrotoluene	0.552	---	0.107	mg/kg	4	0.533	---	104	46-124%	---	---	
Benzoic acid	1.03	---	0.668	mg/kg	4	1.07	---	96	10-140%	---	---	
Benzyl alcohol	0.618	---	0.0532	mg/kg	4	0.533	---	116	29-122%	---	---	
Isophorone	0.530	---	0.0267	mg/kg	4	0.533	---	99	30-122%	---	---	
Azobenzene (1,2-DPH)	0.524	---	0.0267	mg/kg	4	0.533	---	98	39-125%	---	---	
Bis(2-Ethylhexyl) adipate	0.564	---	0.267	mg/kg	4	0.533	---	106	61-121%	---	---	
3,3'-Dichlorobenzidine	1.34	---	0.213	mg/kg	4	1.07	---	**126**	**22-121%**	---	---	Q-29, Q-31, Q-52
1,2-Dinitrobenzene	0.549	---	0.267	mg/kg	4	0.533	---	103	44-120%	---	---	
1,3-Dinitrobenzene	0.574	---	0.267	mg/kg	4	0.533	---	108	43-127%	---	---	
1,4-Dinitrobenzene	0.580	---	0.267	mg/kg	4	0.533	---	109	37-132%	---	---	
Pyridine	0.390	---	0.0532	mg/kg	4	0.533	---	73	10-120%	---	---	
1,2-Dichlorobenzene	0.498	---	0.0267	mg/kg	4	0.533	---	93	33-120%	---	---	
1,3-Dichlorobenzene	0.489	---	0.0267	mg/kg	4	0.533	---	92	30-120%	---	---	
1,4-Dichlorobenzene	0.494	---	0.0267	mg/kg	4	0.533	---	93	31-120%	---	---	
Surr: Nitrobenzene-d5 (Surr)		*Recovery:*	*109 %*	*Limits:*	*37-122 %*		*Dilution:*	*4x*				
2-Fluorobiphenyl (Surr)			*102 %*		*44-120 %*			*"*				
Phenol-d6 (Surr)			*111 %*		*33-122 %*			*"*				
p-Terphenyl-d14 (Surr)			*107 %*		*54-127 %*			*"*				
2-Fluorophenol (Surr)			*94 %*		*35-120 %*			*"*				
2,4,6-Tribromophenol (Surr)			*101 %*		*39-132 %*			*"*				

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Darwin Thomas, Business Development Director

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503-718-2323
ORELAP ID: OR100062

ANALYTICAL REPORT

NRC	Project: Maul Foster Alongi	
6211 N Ensign St	Project Number: 189690	Report ID:
Portland, OR 97217	Project Manager: Jerry Wade	A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0146 - EPA 3546							**Solid**					
Duplicate (23D0146-DUP1)			Prepared: 04/05/23 09:55 Analyzed: 04/05/23 18:29									**R-04**
QC Source Sample: Tank 2-T (A3C1137-02)												
EPA 8270E												
Acenaphthene	ND	---	2.67	mg/kg	40	---	ND	---	---	---	30%	
Acenaphthylene	ND	---	2.67	mg/kg	40	---	ND	---	---	---	30%	
Anthracene	ND	---	2.67	mg/kg	40	---	ND	---	---	---	30%	
Benz(a)anthracene	ND	---	2.67	mg/kg	40	---	ND	---	---	---	30%	
Benzo(a)pyrene	ND	---	3.99	mg/kg	40	---	ND	---	---	---	30%	
Benzo(b)fluoranthene	ND	---	3.99	mg/kg	40	---	ND	---	---	---	30%	
Benzo(k)fluoranthene	ND	---	3.99	mg/kg	40	---	ND	---	---	---	30%	
Benzo(g,h,i)perylene	ND	---	2.67	mg/kg	40	---	ND	---	---	---	30%	
Chrysene	ND	---	2.67	mg/kg	40	---	ND	---	---	---	30%	
Dibenz(a,h)anthracene	ND	---	2.67	mg/kg	40	---	ND	---	---	---	30%	
Fluoranthene	ND	---	2.67	mg/kg	40	---	ND	---	---	---	30%	
Fluorene	ND	---	2.67	mg/kg	40	---	ND	---	---	---	30%	
Indeno(1,2,3-cd)pyrene	ND	---	2.67	mg/kg	40	---	ND	---	---	---	30%	
1-Methylnaphthalene	ND	---	5.32	mg/kg	40	---	ND	---	---	---	30%	
2-Methylnaphthalene	ND	---	5.32	mg/kg	40	---	ND	---	---	---	30%	
Naphthalene	ND	---	5.32	mg/kg	40	---	ND	---	---	---	30%	
Phenanthrene	ND	---	2.67	mg/kg	40	---	ND	---	---	---	30%	
Pyrene	ND	---	2.67	mg/kg	40	---	ND	---	---	---	30%	
Carbazole	ND	---	3.99	mg/kg	40	---	ND	---	---	---	30%	
Dibenzofuran	ND	---	2.67	mg/kg	40	---	ND	---	---	---	30%	
2-Chlorophenol	ND	---	13.3	mg/kg	40	---	ND	---	---	---	30%	
4-Chloro-3-methylphenol	ND	---	26.7	mg/kg	40	---	ND	---	---	---	30%	
2,4-Dichlorophenol	ND	---	13.3	mg/kg	40	---	ND	---	---	---	30%	
2,4-Dimethylphenol	ND	---	13.3	mg/kg	40	---	ND	---	---	---	30%	
2,4-Dinitrophenol	ND	---	66.6	mg/kg	40	---	ND	---	---	---	30%	
4,6-Dinitro-2-methylphenol	ND	---	66.6	mg/kg	40	---	ND	---	---	---	30%	
2-Methylphenol	ND	---	6.66	mg/kg	40	---	ND	---	---	---	30%	
3+4-Methylphenol(s)	ND	---	6.66	mg/kg	40	---	ND	---	---	---	30%	
2-Nitrophenol	ND	---	26.7	mg/kg	40	---	ND	---	---	---	30%	
4-Nitrophenol	ND	---	26.7	mg/kg	40	---	ND	---	---	---	30%	
Pentachlorophenol (PCP)	ND	---	26.7	mg/kg	40	---	ND	---	---	---	30%	

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Darwin Thomas, Business Development Director

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ORELAP ID: OR100062

ANALYTICAL REPORT

NRC	Project: Maul Foster Alongi	
6211 N Ensign St	Project Number: 189690	Report ID:
Portland, OR 97217	Project Manager: Jerry Wade	A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0146 - EPA 3546							**Solid**					
Duplicate (23D0146-DUP1)			Prepared: 04/05/23 09:55 Analyzed: 04/05/23 18:29									**R-04**
QC Source Sample: Tank 2-T (A3C1137-02)												
Phenol	ND	---	5.32	mg/kg	40	---	ND	---	---	---	30%	
2,3,4,6-Tetrachlorophenol	ND	---	13.3	mg/kg	40	---	ND	---	---	---	30%	
2,3,5,6-Tetrachlorophenol	ND	---	13.3	mg/kg	40	---	ND	---	---	---	30%	
2,4,5-Trichlorophenol	ND	---	13.3	mg/kg	40	---	ND	---	---	---	30%	
2,4,6-Trichlorophenol	ND	---	13.3	mg/kg	40	---	ND	---	---	---	30%	
Bis(2-ethylhexyl)phthalate	ND	---	39.9	mg/kg	40	---	ND	---	---	---	30%	
Butyl benzyl phthalate	ND	---	26.7	mg/kg	40	---	ND	---	---	---	30%	
Diethylphthalate	ND	---	26.7	mg/kg	40	---	ND	---	---	---	30%	
Dimethylphthalate	ND	---	26.7	mg/kg	40	---	ND	---	---	---	30%	
Di-n-butylphthalate	ND	---	26.7	mg/kg	40	---	ND	---	---	---	30%	
Di-n-octyl phthalate	ND	---	26.7	mg/kg	40	---	ND	---	---	---	30%	
N-Nitrosodimethylamine	ND	---	6.66	mg/kg	40	---	ND	---	---	---	30%	
N-Nitroso-di-n-propylamine	ND	---	6.66	mg/kg	40	---	ND	---	---	---	30%	
N-Nitrosodiphenylamine	ND	---	6.66	mg/kg	40	---	ND	---	---	---	30%	
Bis(2-Chloroethoxy) methane	ND	---	6.66	mg/kg	40	---	ND	---	---	---	30%	
Bis(2-Chloroethyl) ether	ND	---	6.66	mg/kg	40	---	ND	---	---	---	30%	
2,2'-Oxybis(1-Chloropropane)	ND	---	6.66	mg/kg	40	---	ND	---	---	---	30%	
Hexachlorobenzene	ND	---	2.67	mg/kg	40	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	---	6.66	mg/kg	40	---	ND	---	---	---	30%	
Hexachlorocyclopentadiene	ND	---	13.3	mg/kg	40	---	ND	---	---	---	30%	
Hexachloroethane	ND	---	6.66	mg/kg	40	---	ND	---	---	---	30%	
2-Chloronaphthalene	ND	---	2.67	mg/kg	40	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	---	6.66	mg/kg	40	---	ND	---	---	---	30%	
4-Bromophenyl phenyl ether	ND	---	6.66	mg/kg	40	---	ND	---	---	---	30%	
4-Chlorophenyl phenyl ether	ND	---	6.66	mg/kg	40	---	ND	---	---	---	30%	
Aniline	ND	---	13.3	mg/kg	40	---	ND	---	---	---	30%	
4-Chloroaniline	ND	---	6.66	mg/kg	40	---	ND	---	---	---	30%	
2-Nitroaniline	ND	---	53.2	mg/kg	40	---	ND	---	---	---	30%	
3-Nitroaniline	ND	---	53.2	mg/kg	40	---	ND	---	---	---	30%	
4-Nitroaniline	ND	---	53.2	mg/kg	40	---	ND	---	---	---	30%	
Nitrobenzene	ND	---	26.7	mg/kg	40	---	ND	---	---	---	30%	
2,4-Dinitrotoluene	ND	---	26.7	mg/kg	40	---	ND	---	---	---	30%	
2,6-Dinitrotoluene	ND	---	26.7	mg/kg	40	---	ND	---	---	---	30%	

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

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

NRC	Project: **Maul Foster Alongi**	
6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0146 - EPA 3546							**Solid**					
Duplicate (23D0146-DUP1)			Prepared: 04/05/23 09:55 Analyzed: 04/05/23 18:29									**R-04**
QC Source Sample: Tank 2-T (A3C1137-02)												
Benzoic acid	ND	---	333	mg/kg	40	---	ND	---	---	---	30%	
Benzyl alcohol	ND	---	13.3	mg/kg	40	---	ND	---	---	---	30%	
Isophorone	ND	---	6.66	mg/kg	40	---	ND	---	---	---	30%	
Azobenzene (1,2-DPH)	ND	---	6.66	mg/kg	40	---	ND	---	---	---	30%	
Bis(2-Ethylhexyl) adipate	ND	---	66.6	mg/kg	40	---	ND	---	---	---	30%	
3,3'-Dichlorobenzidine	ND	---	53.2	mg/kg	40	---	ND	---	---	---	30%	Q-52
1,2-Dinitrobenzene	ND	---	66.6	mg/kg	40	---	ND	---	---	---	30%	
1,3-Dinitrobenzene	ND	---	66.6	mg/kg	40	---	ND	---	---	---	30%	
1,4-Dinitrobenzene	ND	---	66.6	mg/kg	40	---	ND	---	---	---	30%	
Pyridine	ND	---	13.3	mg/kg	40	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	---	6.66	mg/kg	40	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	---	6.66	mg/kg	40	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	---	6.66	mg/kg	40	---	ND	---	---	---	30%	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 62 %*		*Limits: 37-122 %*		*Dilution: 40x*					S-05
2-Fluorobiphenyl (Surr)			*88 %*		*44-120 %*		*"*					S-05
Phenol-d6 (Surr)			*1010 %*		*33-122 %*		*"*					S-05
p-Terphenyl-d14 (Surr)			*114 %*		*54-127 %*		*"*					S-05
2-Fluorophenol (Surr)			*43 %*		*35-120 %*		*"*					S-05
2,4,6-Tribromophenol (Surr)			*%*		*39-132 %*		*"*					S-01

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Darwin Thomas, Business Development Director

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

NRC	Project: **Maul Foster Alongi**	
6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0179 - EPA 3580A								**Liquid**				
Blank (23D0179-BLK1)			Prepared: 04/05/23 14:55 Analyzed: 04/05/23 19:37									
EPA 8270E												
Acenaphthene	ND	---	0.100	mg/kg	1	---	---	---	---	---	---	
Acenaphthylene	ND	---	0.100	mg/kg	1	---	---	---	---	---	---	
Anthracene	ND	---	0.100	mg/kg	1	---	---	---	---	---	---	
Benz(a)anthracene	ND	---	0.100	mg/kg	1	---	---	---	---	---	---	
Benzo(a)pyrene	ND	---	0.150	mg/kg	1	---	---	---	---	---	---	
Benzo(b)fluoranthene	ND	---	0.150	mg/kg	1	---	---	---	---	---	---	
Benzo(k)fluoranthene	ND	---	0.150	mg/kg	1	---	---	---	---	---	---	
Benzo(g,h,i)perylene	ND	---	0.100	mg/kg	1	---	---	---	---	---	---	
Chrysene	ND	---	0.100	mg/kg	1	---	---	---	---	---	---	
Dibenz(a,h)anthracene	ND	---	0.100	mg/kg	1	---	---	---	---	---	---	
Fluoranthene	ND	---	0.100	mg/kg	1	---	---	---	---	---	---	
Fluorene	ND	---	0.100	mg/kg	1	---	---	---	---	---	---	
Indeno(1,2,3-cd)pyrene	ND	---	0.100	mg/kg	1	---	---	---	---	---	---	
1-Methylnaphthalene	ND	---	0.200	mg/kg	1	---	---	---	---	---	---	
2-Methylnaphthalene	ND	---	0.200	mg/kg	1	---	---	---	---	---	---	
Naphthalene	ND	---	0.200	mg/kg	1	---	---	---	---	---	---	
Phenanthrene	ND	---	0.100	mg/kg	1	---	---	---	---	---	---	
Pyrene	ND	---	0.100	mg/kg	1	---	---	---	---	---	---	
Carbazole	ND	---	0.150	mg/kg	1	---	---	---	---	---	---	
Dibenzofuran	ND	---	0.100	mg/kg	1	---	---	---	---	---	---	
2-Chlorophenol	ND	---	0.500	mg/kg	1	---	---	---	---	---	---	
4-Chloro-3-methylphenol	ND	---	1.00	mg/kg	1	---	---	---	---	---	---	
2,4-Dichlorophenol	ND	---	0.500	mg/kg	1	---	---	---	---	---	---	
2,4-Dimethylphenol	ND	---	0.500	mg/kg	1	---	---	---	---	---	---	
2,4-Dinitrophenol	ND	---	2.50	mg/kg	1	---	---	---	---	---	---	
4,6-Dinitro-2-methylphenol	ND	---	2.50	mg/kg	1	---	---	---	---	---	---	
2-Methylphenol	ND	---	0.250	mg/kg	1	---	---	---	---	---	---	
3+4-Methylphenol(s)	ND	---	0.250	mg/kg	1	---	---	---	---	---	---	
2-Nitrophenol	ND	---	1.00	mg/kg	1	---	---	---	---	---	---	
4-Nitrophenol	ND	---	1.00	mg/kg	1	---	---	---	---	---	---	
Pentachlorophenol (PCP)	ND	---	1.00	mg/kg	1	---	---	---	---	---	---	
Phenol	ND	---	0.200	mg/kg	1	---	---	---	---	---	---	
2,3,4,6-Tetrachlorophenol	ND	---	0.500	mg/kg	1	---	---	---	---	---	---	

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Darwin Thomas, Business Development Director

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

ANALYTICAL REPORT

NRC	Project: **Maul Foster Alongi**	
6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0179 - EPA 3580A								**Liquid**				
Blank (23D0179-BLK1)			Prepared: 04/05/23 14:55 Analyzed: 04/05/23 19:37									
2,3,5,6-Tetrachlorophenol	ND	---	0.500	mg/kg	1	---	---	---	---	---	---	
2,4,5-Trichlorophenol	ND	---	0.500	mg/kg	1	---	---	---	---	---	---	
2,4,6-Trichlorophenol	ND	---	0.500	mg/kg	1	---	---	---	---	---	---	
Bis(2-ethylhexyl)phthalate	ND	---	1.50	mg/kg	1	---	---	---	---	---	---	
Butyl benzyl phthalate	ND	---	1.00	mg/kg	1	---	---	---	---	---	---	
Diethylphthalate	ND	---	1.00	mg/kg	1	---	---	---	---	---	---	
Dimethylphthalate	ND	---	1.00	mg/kg	1	---	---	---	---	---	---	
Di-n-butylphthalate	ND	---	1.00	mg/kg	1	---	---	---	---	---	---	
Di-n-octyl phthalate	ND	---	1.00	mg/kg	1	---	---	---	---	---	---	
N-Nitrosodimethylamine	ND	---	0.250	mg/kg	1	---	---	---	---	---	---	
N-Nitroso-di-n-propylamine	ND	---	0.250	mg/kg	1	---	---	---	---	---	---	
N-Nitrosodiphenylamine	ND	---	0.250	mg/kg	1	---	---	---	---	---	---	
Bis(2-Chloroethoxy) methane	ND	---	0.250	mg/kg	1	---	---	---	---	---	---	
Bis(2-Chloroethyl) ether	ND	---	0.250	mg/kg	1	---	---	---	---	---	---	
2,2'-Oxybis(1-Chloropropane)	ND	---	0.250	mg/kg	1	---	---	---	---	---	---	
Hexachlorobenzene	ND	---	0.100	mg/kg	1	---	---	---	---	---	---	
Hexachlorobutadiene	ND	---	0.250	mg/kg	1	---	---	---	---	---	---	
Hexachlorocyclopentadiene	ND	---	0.500	mg/kg	1	---	---	---	---	---	---	
Hexachloroethane	ND	---	0.250	mg/kg	1	---	---	---	---	---	---	
2-Chloronaphthalene	ND	---	0.100	mg/kg	1	---	---	---	---	---	---	
1,2,4-Trichlorobenzene	ND	---	0.250	mg/kg	1	---	---	---	---	---	---	
4-Bromophenyl phenyl ether	ND	---	0.250	mg/kg	1	---	---	---	---	---	---	
4-Chlorophenyl phenyl ether	ND	---	0.250	mg/kg	1	---	---	---	---	---	---	
Aniline	ND	---	0.500	mg/kg	1	---	---	---	---	---	---	
4-Chloroaniline	ND	---	0.250	mg/kg	1	---	---	---	---	---	---	
2-Nitroaniline	ND	---	2.00	mg/kg	1	---	---	---	---	---	---	
3-Nitroaniline	ND	---	2.00	mg/kg	1	---	---	---	---	---	---	
4-Nitroaniline	ND	---	2.00	mg/kg	1	---	---	---	---	---	---	
Nitrobenzene	ND	---	1.00	mg/kg	1	---	---	---	---	---	---	
2,4-Dinitrotoluene	ND	---	1.00	mg/kg	1	---	---	---	---	---	---	
2,6-Dinitrotoluene	ND	---	1.00	mg/kg	1	---	---	---	---	---	---	
Benzoic acid	ND	---	12.5	mg/kg	1	---	---	---	---	---	---	
Benzyl alcohol	ND	---	0.500	mg/kg	1	---	---	---	---	---	---	
Isophorone	ND	---	0.250	mg/kg	1	---	---	---	---	---	---	

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Darwin Thomas, Business Development Director

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APEX LABORATORIES

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

ANALYTICAL REPORT

NRC	Project: **Maul Foster Alongi**	
6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0179 - EPA 3580A							**Liquid**					
Blank (23D0179-BLK1)			Prepared: 04/05/23 14:55 Analyzed: 04/05/23 19:37									
Azobenzene (1,2-DPH)	ND	---	0.250	mg/kg	1	---	---	---	---	---	---	
Bis(2-Ethylhexyl) adipate	ND	---	2.50	mg/kg	1	---	---	---	---	---	---	
3,3'-Dichlorobenzidine	ND	---	2.00	mg/kg	1	---	---	---	---	---	---	Q-52
1,2-Dinitrobenzene	ND	---	2.50	mg/kg	1	---	---	---	---	---	---	
1,3-Dinitrobenzene	ND	---	2.50	mg/kg	1	---	---	---	---	---	---	
1,4-Dinitrobenzene	ND	---	2.50	mg/kg	1	---	---	---	---	---	---	
Pyridine	ND	---	0.500	mg/kg	1	---	---	---	---	---	---	
1,2-Dichlorobenzene	ND	---	0.250	mg/kg	1	---	---	---	---	---	---	
1,3-Dichlorobenzene	ND	---	0.250	mg/kg	1	---	---	---	---	---	---	
1,4-Dichlorobenzene	ND	---	0.250	mg/kg	1	---	---	---	---	---	---	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 63 %*	*Limits: 37-122 %*			*Dilution: 1x*					
2-Fluorobiphenyl (Surr)			*108 %*	*44-120 %*			*"*					
Phenol-d6 (Surr)			*91 %*	*33-122 %*			*"*					
p-Terphenyl-d14 (Surr)			*110 %*	*54-127 %*			*"*					
2-Fluorophenol (Surr)			*91 %*	*35-120 %*			*"*					
2,4,6-Tribromophenol (Surr)			*40 %*	*39-132 %*			*"*					
LCS (23D0179-BS1)			Prepared: 04/05/23 14:55 Analyzed: 04/05/23 20:11									
EPA 8270E												
Acenaphthene	7.87	---	0.100	mg/kg	1	8.00	---	98	40-123%	---	---	
Acenaphthylene	7.43	---	0.100	mg/kg	1	8.00	---	93	32-132%	---	---	
Anthracene	7.89	---	0.100	mg/kg	1	8.00	---	99	47-123%	---	---	
Benz(a)anthracene	8.03	---	0.100	mg/kg	1	8.00	---	100	49-126%	---	---	
Benzo(a)pyrene	7.55	---	0.150	mg/kg	1	8.00	---	94	45-129%	---	---	
Benzo(b)fluoranthene	7.57	---	0.150	mg/kg	1	8.00	---	95	45-132%	---	---	
Benzo(k)fluoranthene	7.63	---	0.150	mg/kg	1	8.00	---	95	47-132%	---	---	
Benzo(g,h,i)perylene	8.36	---	0.100	mg/kg	1	8.00	---	104	43-134%	---	---	
Chrysene	7.90	---	0.100	mg/kg	1	8.00	---	99	50-124%	---	---	
Dibenz(a,h)anthracene	8.17	---	0.100	mg/kg	1	8.00	---	102	45-134%	---	---	
Fluoranthene	7.97	---	0.100	mg/kg	1	8.00	---	100	50-127%	---	---	
Fluorene	7.29	---	0.100	mg/kg	1	8.00	---	91	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	7.74	---	0.100	mg/kg	1	8.00	---	97	45-133%	---	---	
1-Methylnaphthalene	7.77	---	0.200	mg/kg	1	8.00	---	97	40-120%	---	---	
2-Methylnaphthalene	8.41	---	0.200	mg/kg	1	8.00	---	105	38-122%	---	---	

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Darwin Thomas, Business Development Director

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

NRC	Project: **Maul Foster Alongi**	
6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0179 - EPA 3580A							**Liquid**					
LCS (23D0179-BS1)			Prepared: 04/05/23 14:55		Analyzed: 04/05/23 20:11							
Naphthalene	7.73	---	0.200	mg/kg	1	8.00	---	97	35-123%	---	---	
Phenanthrene	7.39	---	0.100	mg/kg	1	8.00	---	92	50-121%	---	---	
Pyrene	7.79	---	0.100	mg/kg	1	8.00	---	97	47-127%	---	---	
Carbazole	8.88	---	0.150	mg/kg	1	8.00	---	111	50-123%	---	---	
Dibenzofuran	7.80	---	0.100	mg/kg	1	8.00	---	97	44-120%	---	---	
2-Chlorophenol	8.72	---	0.500	mg/kg	1	8.00	---	109	34-121%	---	---	
4-Chloro-3-methylphenol	8.62	---	1.00	mg/kg	1	8.00	---	108	45-122%	---	---	
2,4-Dichlorophenol	9.00	---	0.500	mg/kg	1	8.00	---	112	40-122%	---	---	
2,4-Dimethylphenol	9.39	---	0.500	mg/kg	1	8.00	---	117	30-127%	---	---	
2,4-Dinitrophenol	5.24	---	2.50	mg/kg	1	8.00	---	65	10-137%	---	---	
4,6-Dinitro-2-methylphenol	5.80	---	2.50	mg/kg	1	8.00	---	73	29-132%	---	---	
2-Methylphenol	8.93	---	0.250	mg/kg	1	8.00	---	112	32-122%	---	---	Q-41
3+4-Methylphenol(s)	7.96	---	0.250	mg/kg	1	8.00	---	100	34-120%	---	---	
2-Nitrophenol	9.77	---	1.00	mg/kg	1	8.00	---	122	36-123%	---	---	Q-41
4-Nitrophenol	5.81	---	1.00	mg/kg	1	8.00	---	73	30-132%	---	---	
Pentachlorophenol (PCP)	6.17	---	1.00	mg/kg	1	8.00	---	77	25-133%	---	---	
Phenol	8.15	---	0.200	mg/kg	1	8.00	---	102	34-121%	---	---	
2,3,4,6-Tetrachlorophenol	7.29	---	0.500	mg/kg	1	8.00	---	91	44-125%	---	---	
2,3,5,6-Tetrachlorophenol	7.65	---	0.500	mg/kg	1	8.00	---	96	40-120%	---	---	
2,4,5-Trichlorophenol	8.15	---	0.500	mg/kg	1	8.00	---	102	41-124%	---	---	
2,4,6-Trichlorophenol	7.82	---	0.500	mg/kg	1	8.00	---	98	39-126%	---	---	
Bis(2-ethylhexyl)phthalate	8.15	---	1.50	mg/kg	1	8.00	---	102	51-133%	---	---	
Butyl benzyl phthalate	9.00	---	1.00	mg/kg	1	8.00	---	112	48-132%	---	---	
Diethylphthalate	7.26	---	1.00	mg/kg	1	8.00	---	91	50-124%	---	---	
Dimethylphthalate	7.90	---	1.00	mg/kg	1	8.00	---	99	48-124%	---	---	
Di-n-butylphthalate	8.61	---	1.00	mg/kg	1	8.00	---	108	51-128%	---	---	
Di-n-octyl phthalate	7.89	---	1.00	mg/kg	1	8.00	---	99	45-140%	---	---	
N-Nitrosodimethylamine	8.05	---	0.250	mg/kg	1	8.00	---	101	23-120%	---	---	
N-Nitroso-di-n-propylamine	7.94	---	0.250	mg/kg	1	8.00	---	99	36-120%	---	---	
N-Nitrosodiphenylamine	7.89	---	0.250	mg/kg	1	8.00	---	99	38-127%	---	---	
Bis(2-Chloroethoxy) methane	9.00	---	0.250	mg/kg	1	8.00	---	112	36-121%	---	---	
Bis(2-Chloroethyl) ether	6.96	---	0.250	mg/kg	1	8.00	---	87	31-120%	---	---	
2,2'-Oxybis(1-Chloropropane)	6.81	---	0.250	mg/kg	1	8.00	---	85	39-120%	---	---	
Hexachlorobenzene	7.29	---	0.100	mg/kg	1	8.00	---	91	45-122%	---	---	

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Darwin Thomas, Business Development Director

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

ANALYTICAL REPORT

NRC	Project: **Maul Foster Alongi**	
6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0179 - EPA 3580A							**Liquid**					
LCS (23D0179-BS1)			Prepared: 04/05/23 14:55		Analyzed: 04/05/23 20:11							
Hexachlorobutadiene	7.36	---	0.250	mg/kg	1	8.00	---	92	32-123%	---	---	
Hexachlorocyclopentadiene	9.36	---	0.500	mg/kg	1	8.00	---	117	10-140%	---	---	Q-41
Hexachloroethane	7.51	---	0.250	mg/kg	1	8.00	---	94	28-120%	---	---	
2-Chloronaphthalene	8.35	---	0.100	mg/kg	1	8.00	---	104	41-120%	---	---	
1,2,4-Trichlorobenzene	7.85	---	0.250	mg/kg	1	8.00	---	98	34-120%	---	---	
4-Bromophenyl phenyl ether	8.29	---	0.250	mg/kg	1	8.00	---	104	46-124%	---	---	
4-Chlorophenyl phenyl ether	8.05	---	0.250	mg/kg	1	8.00	---	101	45-121%	---	---	
Aniline	4.71	---	0.500	mg/kg	1	8.00	---	59	10-120%	---	---	
4-Chloroaniline	1.97	---	0.250	mg/kg	1	8.00	---	25	17-120%	---	---	
2-Nitroaniline	7.79	---	2.00	mg/kg	1	8.00	---	97	44-127%	---	---	
3-Nitroaniline	6.12	---	2.00	mg/kg	1	8.00	---	77	33-120%	---	---	
4-Nitroaniline	7.98	---	2.00	mg/kg	1	8.00	---	100	51-125%	---	---	
Nitrobenzene	8.25	---	1.00	mg/kg	1	8.00	---	103	34-122%	---	---	
2,4-Dinitrotoluene	7.57	---	1.00	mg/kg	1	8.00	---	95	48-126%	---	---	
2,6-Dinitrotoluene	7.82	---	1.00	mg/kg	1	8.00	---	98	46-124%	---	---	
Benzoic acid	10.2	---	6.25	mg/kg	1	16.0	---	64	10-140%	---	---	
Benzyl alcohol	7.88	---	0.500	mg/kg	1	8.00	---	98	29-122%	---	---	
Isophorone	7.84	---	0.250	mg/kg	1	8.00	---	98	30-122%	---	---	
Azobenzene (1,2-DPH)	7.75	---	0.250	mg/kg	1	8.00	---	97	39-125%	---	---	
Bis(2-Ethylhexyl) adipate	8.50	---	2.50	mg/kg	1	8.00	---	106	61-121%	---	---	
3,3'-Dichlorobenzidine	26.3	---	2.00	mg/kg	1	16.0	---	**164**	**22-121%**	---	---	Q-29, Q-31, Q-52
1,2-Dinitrobenzene	7.77	---	2.50	mg/kg	1	8.00	---	97	44-120%	---	---	
1,3-Dinitrobenzene	7.78	---	2.50	mg/kg	1	8.00	---	97	43-127%	---	---	
1,4-Dinitrobenzene	7.56	---	2.50	mg/kg	1	8.00	---	94	37-132%	---	---	
Pyridine	7.97	---	0.500	mg/kg	1	8.00	---	100	10-120%	---	---	
1,2-Dichlorobenzene	7.51	---	0.250	mg/kg	1	8.00	---	94	33-120%	---	---	
1,3-Dichlorobenzene	7.62	---	0.250	mg/kg	1	8.00	---	95	30-120%	---	---	
1,4-Dichlorobenzene	7.44	---	0.250	mg/kg	1	8.00	---	93	31-120%	---	---	

Surr: Nitrobenzene-d5 (Surr)	*Recovery: 108 %*	*Limits: 37-122 %*	*Dilution: 1x*	
2-Fluorobiphenyl (Surr)	*105 %*	*44-120 %*	*"*	
Phenol-d6 (Surr)	*117 %*	*33-122 %*	*"*	
p-Terphenyl-d14 (Surr)	*114 %*	*54-127 %*	*"*	
2-Fluorophenol (Surr)	*112 %*	*35-120 %*	*"*	
2,4,6-Tribromophenol (Surr)	*97 %*	*39-132 %*	*"*	

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Darwin Thomas, Business Development Director

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

NRC	Project: **Maul Foster Alongi**	
6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0179 - EPA 3580A							**Liquid**					
LCS Dup (23D0179-BSD1)			Prepared: 04/05/23 14:56 Analyzed: 04/05/23 20:43									
EPA 8270E												
Acenaphthene	7.82	---	0.100	mg/kg	1	8.00	---	98	40-123%	0.7	30%	
Acenaphthylene	7.36	---	0.100	mg/kg	1	8.00	---	92	32-132%	0.9	30%	
Anthracene	7.94	---	0.100	mg/kg	1	8.00	---	99	47-123%	0.6	30%	
Benz(a)anthracene	7.92	---	0.100	mg/kg	1	8.00	---	99	49-126%	1	30%	
Benzo(a)pyrene	7.49	---	0.150	mg/kg	1	8.00	---	94	45-129%	0.8	30%	
Benzo(b)fluoranthene	7.57	---	0.150	mg/kg	1	8.00	---	95	45-132%	0.009	30%	
Benzo(k)fluoranthene	7.54	---	0.150	mg/kg	1	8.00	---	94	47-132%	1	30%	
Benzo(g,h,i)perylene	8.34	---	0.100	mg/kg	1	8.00	---	104	43-134%	0.3	30%	
Chrysene	7.87	---	0.100	mg/kg	1	8.00	---	98	50-124%	0.3	30%	
Dibenz(a,h)anthracene	8.00	---	0.100	mg/kg	1	8.00	---	100	45-134%	2	30%	
Fluoranthene	8.05	---	0.100	mg/kg	1	8.00	---	101	50-127%	1	30%	
Fluorene	7.24	---	0.100	mg/kg	1	8.00	---	91	43-125%	0.6	30%	
Indeno(1,2,3-cd)pyrene	7.62	---	0.100	mg/kg	1	8.00	---	95	45-133%	2	30%	
1-Methylnaphthalene	7.64	---	0.200	mg/kg	1	8.00	---	96	40-120%	2	30%	
2-Methylnaphthalene	8.24	---	0.200	mg/kg	1	8.00	---	103	38-122%	2	30%	
Naphthalene	7.66	---	0.200	mg/kg	1	8.00	---	96	35-123%	0.8	30%	
Phenanthrene	7.54	---	0.100	mg/kg	1	8.00	---	94	50-121%	2	30%	
Pyrene	7.92	---	0.100	mg/kg	1	8.00	---	99	47-127%	2	30%	
Carbazole	8.91	---	0.150	mg/kg	1	8.00	---	111	50-123%	0.3	30%	
Dibenzofuran	7.64	---	0.100	mg/kg	1	8.00	---	96	44-120%	2	30%	
2-Chlorophenol	8.36	---	0.500	mg/kg	1	8.00	---	104	34-121%	4	30%	
4-Chloro-3-methylphenol	8.46	---	1.00	mg/kg	1	8.00	---	106	45-122%	2	30%	
2,4-Dichlorophenol	8.81	---	0.500	mg/kg	1	8.00	---	110	40-122%	2	30%	
2,4-Dimethylphenol	8.99	---	0.500	mg/kg	1	8.00	---	112	30-127%	4	30%	
2,4-Dinitrophenol	5.09	---	2.50	mg/kg	1	8.00	---	64	10-137%	3	30%	
4,6-Dinitro-2-methylphenol	6.03	---	2.50	mg/kg	1	8.00	---	75	29-132%	4	30%	
2-Methylphenol	8.16	---	0.250	mg/kg	1	8.00	---	102	32-122%	9	30%	Q-41
3+4-Methylphenol(s)	7.50	---	0.250	mg/kg	1	8.00	---	94	34-120%	6	30%	
2-Nitrophenol	10.1	---	1.00	mg/kg	1	8.00	---	**126**	**36-123%**	3	30%	Q-29, Q-41
4-Nitrophenol	5.94	---	1.00	mg/kg	1	8.00	---	74	30-132%	2	30%	
Pentachlorophenol (PCP)	6.28	---	1.00	mg/kg	1	8.00	---	78	25-133%	2	30%	
Phenol	7.72	---	0.200	mg/kg	1	8.00	---	97	34-121%	5	30%	
2,3,4,6-Tetrachlorophenol	7.42	---	0.500	mg/kg	1	8.00	---	93	44-125%	2	30%	

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Darwin Thomas, Business Development Director

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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

NRC	Project: **Maul Foster Alongi**	
6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0179 - EPA 3580A							**Liquid**					
LCS Dup (23D0179-BSD1)			Prepared: 04/05/23 14:56 Analyzed: 04/05/23 20:43									
2,3,5,6-Tetrachlorophenol	7.66	---	0.500	mg/kg	1	8.00	---	96	40-120%	0.1	30%	
2,4,5-Trichlorophenol	8.11	---	0.500	mg/kg	1	8.00	---	101	41-124%	0.4	30%	
2,4,6-Trichlorophenol	7.79	---	0.500	mg/kg	1	8.00	---	97	39-126%	0.4	30%	
Bis(2-ethylhexyl)phthalate	7.67	---	1.50	mg/kg	1	8.00	---	96	51-133%	6	30%	
Butyl benzyl phthalate	8.65	---	1.00	mg/kg	1	8.00	---	108	48-132%	4	30%	
Diethylphthalate	7.23	---	1.00	mg/kg	1	8.00	---	90	50-124%	0.3	30%	
Dimethylphthalate	7.82	---	1.00	mg/kg	1	8.00	---	98	48-124%	1	30%	
Di-n-butylphthalate	8.45	---	1.00	mg/kg	1	8.00	---	106	51-128%	2	30%	
Di-n-octyl phthalate	7.61	---	1.00	mg/kg	1	8.00	---	95	45-140%	4	30%	
N-Nitrosodimethylamine	6.98	---	0.250	mg/kg	1	8.00	---	87	23-120%	14	30%	
N-Nitroso-di-n-propylamine	7.31	---	0.250	mg/kg	1	8.00	---	91	36-120%	8	30%	
N-Nitrosodiphenylamine	7.93	---	0.250	mg/kg	1	8.00	---	99	38-127%	0.4	30%	
Bis(2-Chloroethoxy) methane	8.63	---	0.250	mg/kg	1	8.00	---	108	36-121%	4	30%	
Bis(2-Chloroethyl) ether	6.92	---	0.250	mg/kg	1	8.00	---	87	31-120%	0.6	30%	
2,2'-Oxybis(1-Chloropropane)	6.47	---	0.250	mg/kg	1	8.00	---	81	39-120%	5	30%	
Hexachlorobenzene	7.38	---	0.100	mg/kg	1	8.00	---	92	45-122%	1	30%	
Hexachlorobutadiene	7.33	---	0.250	mg/kg	1	8.00	---	92	32-123%	0.4	30%	
Hexachlorocyclopentadiene	8.89	---	0.500	mg/kg	1	8.00	---	111	10-140%	5	30%	Q-41
Hexachloroethane	7.40	---	0.250	mg/kg	1	8.00	---	93	28-120%	1	30%	
2-Chloronaphthalene	8.22	---	0.100	mg/kg	1	8.00	---	103	41-120%	2	30%	
1,2,4-Trichlorobenzene	7.75	---	0.250	mg/kg	1	8.00	---	97	34-120%	1	30%	
4-Bromophenyl phenyl ether	8.20	---	0.250	mg/kg	1	8.00	---	102	46-124%	1	30%	
4-Chlorophenyl phenyl ether	7.95	---	0.250	mg/kg	1	8.00	---	99	45-121%	1	30%	
Aniline	5.01	---	0.500	mg/kg	1	8.00	---	63	10-120%	6	30%	
4-Chloroaniline	2.75	---	0.250	mg/kg	1	8.00	---	34	17-120%	**33**	**30%**	Q-24
2-Nitroaniline	7.72	---	2.00	mg/kg	1	8.00	---	96	44-127%	0.9	30%	
3-Nitroaniline	6.00	---	2.00	mg/kg	1	8.00	---	75	33-120%	2	30%	
4-Nitroaniline	7.85	---	2.00	mg/kg	1	8.00	---	98	51-125%	2	30%	
Nitrobenzene	7.90	---	1.00	mg/kg	1	8.00	---	99	34-122%	4	30%	
2,4-Dinitrotoluene	7.78	---	1.00	mg/kg	1	8.00	---	97	48-126%	3	30%	
2,6-Dinitrotoluene	8.06	---	1.00	mg/kg	1	8.00	---	101	46-124%	3	30%	
Benzoic acid	9.81	---	6.25	mg/kg	1	16.0	---	61	10-140%	4	30%	
Benzyl alcohol	7.47	---	0.500	mg/kg	1	8.00	---	93	29-122%	5	30%	
Isophorone	7.58	---	0.250	mg/kg	1	8.00	---	95	30-122%	3	30%	

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

NRC	Project: **Maul Foster Alongi**	
6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0179 - EPA 3580A							**Liquid**					
LCS Dup (23D0179-BSD1)			Prepared: 04/05/23 14:56 Analyzed: 04/05/23 20:43									
Azobenzene (1,2-DPH)	7.80	---	0.250	mg/kg	1	8.00	---	98	39-125%	0.7	30%	
Bis(2-Ethylhexyl) adipate	8.12	---	2.50	mg/kg	1	8.00	---	102	61-121%	5	30%	
3,3'-Dichlorobenzidine	22.4	---	2.00	mg/kg	1	16.0	---	**140**	**22-121%**	16	30%	Q-29, Q-31, Q-52
1,2-Dinitrobenzene	7.99	---	2.50	mg/kg	1	8.00	---	100	44-120%	3	30%	
1,3-Dinitrobenzene	7.96	---	2.50	mg/kg	1	8.00	---	100	43-127%	2	30%	
1,4-Dinitrobenzene	7.83	---	2.50	mg/kg	1	8.00	---	98	37-132%	4	30%	
Pyridine	7.96	---	0.500	mg/kg	1	8.00	---	100	10-120%	0.2	30%	
1,2-Dichlorobenzene	7.33	---	0.250	mg/kg	1	8.00	---	92	33-120%	2	30%	
1,3-Dichlorobenzene	7.56	---	0.250	mg/kg	1	8.00	---	95	30-120%	0.7	30%	
1,4-Dichlorobenzene	7.46	---	0.250	mg/kg	1	8.00	---	93	31-120%	0.2	30%	
Surr: Nitrobenzene-d5 (Surr)		*Recovery:*	*101 %*	*Limits:*	*37-122 %*		*Dilution:*	*1x*				
2-Fluorobiphenyl (Surr)			*104 %*		*44-120 %*			*"*				
Phenol-d6 (Surr)			*107 %*		*33-122 %*			*"*				
p-Terphenyl-d14 (Surr)			*112 %*		*54-127 %*			*"*				
2-Fluorophenol (Surr)			*106 %*		*35-120 %*			*"*				
2,4,6-Tribromophenol (Surr)			*96 %*		*39-132 %*			*"*				
Duplicate (23D0179-DUP1)			Prepared: 04/05/23 14:55 Analyzed: 04/05/23 21:50									**R-04**
QC Source Sample: Tank 4-T (A3C1137-01)												
EPA 8270E												
Acenaphthene	ND	---	90.9	mg/kg	100	---	ND	---	---	---	30%	
Acenaphthylene	ND	---	90.9	mg/kg	100	---	ND	---	---	---	30%	
Anthracene	ND	---	90.9	mg/kg	100	---	ND	---	---	---	30%	
Benz(a)anthracene	ND	---	90.9	mg/kg	100	---	ND	---	---	---	30%	
Benzo(a)pyrene	ND	---	136	mg/kg	100	---	ND	---	---	---	30%	
Benzo(b)fluoranthene	ND	---	136	mg/kg	100	---	ND	---	---	---	30%	
Benzo(k)fluoranthene	ND	---	136	mg/kg	100	---	ND	---	---	---	30%	
Benzo(g,h,i)perylene	ND	---	90.9	mg/kg	100	---	ND	---	---	---	30%	
Chrysene	ND	---	90.9	mg/kg	100	---	ND	---	---	---	30%	
Dibenz(a,h)anthracene	ND	---	90.9	mg/kg	100	---	ND	---	---	---	30%	
Fluoranthene	ND	---	90.9	mg/kg	100	---	ND	---	---	---	30%	
Fluorene	ND	---	90.9	mg/kg	100	---	ND	---	---	---	30%	
Indeno(1,2,3-cd)pyrene	ND	---	90.9	mg/kg	100	---	ND	---	---	---	30%	

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

NRC	Project: **Maul Foster Alongi**	
6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0179 - EPA 3580A							**Liquid**					
Duplicate (23D0179-DUP1)			Prepared: 04/05/23 14:55 Analyzed: 04/05/23 21:50									**R-04**
QC Source Sample: Tank 4-T (A3C1137-01)												
1-Methylnaphthalene	ND	---	182	mg/kg	100	---	ND	---	---	---	30%	
2-Methylnaphthalene	ND	---	182	mg/kg	100	---	ND	---	---	---	30%	
Naphthalene	ND	---	182	mg/kg	100	---	ND	---	---	---	30%	
Phenanthrene	ND	---	90.9	mg/kg	100	---	ND	---	---	---	30%	
Pyrene	ND	---	90.9	mg/kg	100	---	ND	---	---	---	30%	
Carbazole	ND	---	136	mg/kg	100	---	ND	---	---	---	30%	
Dibenzofuran	ND	---	90.9	mg/kg	100	---	ND	---	---	---	30%	
2-Chlorophenol	ND	---	455	mg/kg	100	---	ND	---	---	---	30%	
4-Chloro-3-methylphenol	ND	---	909	mg/kg	100	---	ND	---	---	---	30%	
2,4-Dichlorophenol	ND	---	455	mg/kg	100	---	ND	---	---	---	30%	
2,4-Dimethylphenol	ND	---	455	mg/kg	100	---	ND	---	---	---	30%	
2,4-Dinitrophenol	ND	---	2270	mg/kg	100	---	ND	---	---	---	30%	
4,6-Dinitro-2-methylphenol	ND	---	2270	mg/kg	100	---	ND	---	---	---	30%	
2-Methylphenol	ND	---	227	mg/kg	100	---	ND	---	---	---	30%	
3+4-Methylphenol(s)	ND	---	227	mg/kg	100	---	ND	---	---	---	30%	
2-Nitrophenol	ND	---	909	mg/kg	100	---	ND	---	---	---	30%	
4-Nitrophenol	ND	---	909	mg/kg	100	---	ND	---	---	---	30%	
Pentachlorophenol (PCP)	ND	---	909	mg/kg	100	---	ND	---	---	---	30%	
Phenol	ND	---	182	mg/kg	100	---	ND	---	---	---	30%	
2,3,4,6-Tetrachlorophenol	ND	---	455	mg/kg	100	---	ND	---	---	---	30%	
2,3,5,6-Tetrachlorophenol	ND	---	455	mg/kg	100	---	ND	---	---	---	30%	
2,4,5-Trichlorophenol	ND	---	455	mg/kg	100	---	ND	---	---	---	30%	
2,4,6-Trichlorophenol	ND	---	455	mg/kg	100	---	ND	---	---	---	30%	
Bis(2-ethylhexyl)phthalate	ND	---	1360	mg/kg	100	---	ND	---	---	---	30%	
Butyl benzyl phthalate	ND	---	909	mg/kg	100	---	ND	---	---	---	30%	
Diethylphthalate	ND	---	909	mg/kg	100	---	ND	---	---	---	30%	
Dimethylphthalate	ND	---	909	mg/kg	100	---	ND	---	---	---	30%	
Di-n-butylphthalate	ND	---	909	mg/kg	100	---	ND	---	---	---	30%	
Di-n-octyl phthalate	ND	---	909	mg/kg	100	---	ND	---	---	---	30%	
N-Nitrosodimethylamine	ND	---	227	mg/kg	100	---	ND	---	---	---	30%	
N-Nitroso-di-n-propylamine	ND	---	227	mg/kg	100	---	ND	---	---	---	30%	
N-Nitrosodiphenylamine	ND	---	227	mg/kg	100	---	ND	---	---	---	30%	
Bis(2-Chloroethoxy) methane	ND	---	227	mg/kg	100	---	ND	---	---	---	30%	

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Darwin Thomas, Business Development Director

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503-718-2323
ORELAP ID: **OR100062**

ANALYTICAL REPORT

NRC	Project: **Maul Foster Alongi**	
6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0179 - EPA 3580A							**Liquid**					
Duplicate (23D0179-DUP1)			Prepared: 04/05/23 14:55		Analyzed: 04/05/23 21:50							**R-04**
QC Source Sample: Tank 4-T (A3C1137-01)												
Bis(2-Chloroethyl) ether	ND	---	227	mg/kg	100	---	ND	---	---	---	30%	
2,2'-Oxybis(1-Chloropropane)	ND	---	227	mg/kg	100	---	ND	---	---	---	30%	
Hexachlorobenzene	ND	---	90.9	mg/kg	100	---	ND	---	---	---	30%	
Hexachlorobutadiene	ND	---	227	mg/kg	100	---	ND	---	---	---	30%	
Hexachlorocyclopentadiene	ND	---	455	mg/kg	100	---	ND	---	---	---	30%	
Hexachloroethane	ND	---	227	mg/kg	100	---	ND	---	---	---	30%	
2-Chloronaphthalene	ND	---	90.9	mg/kg	100	---	ND	---	---	---	30%	
1,2,4-Trichlorobenzene	ND	---	227	mg/kg	100	---	ND	---	---	---	30%	
4-Bromophenyl phenyl ether	ND	---	227	mg/kg	100	---	ND	---	---	---	30%	
4-Chlorophenyl phenyl ether	ND	---	227	mg/kg	100	---	ND	---	---	---	30%	
Aniline	ND	---	455	mg/kg	100	---	ND	---	---	---	30%	
4-Chloroaniline	ND	---	227	mg/kg	100	---	ND	---	---	---	30%	
2-Nitroaniline	ND	---	1820	mg/kg	100	---	ND	---	---	---	30%	
3-Nitroaniline	ND	---	1820	mg/kg	100	---	ND	---	---	---	30%	
4-Nitroaniline	ND	---	1820	mg/kg	100	---	ND	---	---	---	30%	
Nitrobenzene	ND	---	909	mg/kg	100	---	ND	---	---	---	30%	
2,4-Dinitrotoluene	ND	---	909	mg/kg	100	---	ND	---	---	---	30%	
2,6-Dinitrotoluene	ND	---	909	mg/kg	100	---	ND	---	---	---	30%	
Benzoic acid	ND	---	11400	mg/kg	100	---	ND	---	---	---	30%	
Benzyl alcohol	ND	---	455	mg/kg	100	---	ND	---	---	---	30%	
Isophorone	ND	---	227	mg/kg	100	---	ND	---	---	---	30%	
Azobenzene (1,2-DPH)	ND	---	227	mg/kg	100	---	ND	---	---	---	30%	
Bis(2-Ethylhexyl) adipate	ND	---	2270	mg/kg	100	---	ND	---	---	---	30%	
3,3'-Dichlorobenzidine	ND	---	1820	mg/kg	100	---	ND	---	---	---	30%	Q-52
1,2-Dinitrobenzene	ND	---	2270	mg/kg	100	---	ND	---	---	---	30%	
1,3-Dinitrobenzene	ND	---	2270	mg/kg	100	---	ND	---	---	---	30%	
1,4-Dinitrobenzene	ND	---	2270	mg/kg	100	---	ND	---	---	---	30%	
Pyridine	ND	---	455	mg/kg	100	---	ND	---	---	---	30%	
1,2-Dichlorobenzene	ND	---	227	mg/kg	100	---	ND	---	---	---	30%	
1,3-Dichlorobenzene	ND	---	227	mg/kg	100	---	ND	---	---	---	30%	
1,4-Dichlorobenzene	ND	---	227	mg/kg	100	---	ND	---	---	---	30%	
Surr: Nitrobenzene-d5 (Surr)			*Recovery: 88 %*		*Limits: 37-122 %*		*Dilution: 100x*					S-05
2-Fluorobiphenyl (Surr)			*100 %*		*44-120 %*		*"*					S-05

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503-718-2323
ORELAP ID: **OR100062**

NRC	Project: **Maul Foster Alongi**	
6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0179 - EPA 3580A												**Liquid**
Duplicate (23D0179-DUP1)				Prepared: 04/05/23 14:55 Analyzed: 04/05/23 21:50								**R-04**
QC Source Sample: Tank 4-T (A3C1137-01)												
Surr: Phenol-d6 (Surr)	*Recovery:*		*291 %*	*Limits:*	*33-122 %*	*Dilution:*	*100x*					S-05
p-Terphenyl-d14 (Surr)			*119 %*		*54-127 %*		*"*					S-05
2-Fluorophenol (Surr)			*69 %*		*35-120 %*		*"*					S-05
2,4,6-Tribromophenol (Surr)			*346 %*		*39-132 %*		*"*					S-05

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ORELAP ID: OR100062

ANALYTICAL REPORT

NRC	Project: Maul Foster Alongi	
6211 N Ensign St	Project Number: 189690	Report ID:
Portland, OR 97217	Project Manager: Jerry Wade	A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0013 - EPA 3051A							Liquid					
Blank (23D0013-BLK1)			Prepared: 04/03/23 07:25 Analyzed: 04/03/23 16:39									
EPA 6020B												
Arsenic	ND	---	2.50	mg/kg	5	---	---	---	---	---	---	
Barium	ND	---	2.50	mg/kg	5	---	---	---	---	---	---	
Cadmium	ND	---	0.500	mg/kg	5	---	---	---	---	---	---	
Chromium	ND	---	2.50	mg/kg	5	---	---	---	---	---	---	
Lead	ND	---	0.500	mg/kg	5	---	---	---	---	---	---	
Mercury	ND	---	0.200	mg/kg	5	---	---	---	---	---	---	
Selenium	ND	---	2.50	mg/kg	5	---	---	---	---	---	---	
Silver	ND	---	0.500	mg/kg	5	---	---	---	---	---	---	
LCS (23D0013-BS1)			Prepared: 04/03/23 07:25 Analyzed: 04/03/23 16:44									
EPA 6020B												
Arsenic	125	---	2.50	mg/kg	5	125	---	100	80-120%	---	---	
Barium	127	---	2.50	mg/kg	5	125	---	102	80-120%	---	---	
Cadmium	124	---	0.500	mg/kg	5	125	---	99	80-120%	---	---	
Chromium	128	---	2.50	mg/kg	5	125	---	103	80-120%	---	---	
Lead	124	---	0.500	mg/kg	5	125	---	100	80-120%	---	---	
Mercury	2.32	---	0.200	mg/kg	5	2.50	---	93	80-120%	---	---	
Selenium	63.4	---	2.50	mg/kg	5	62.5	---	101	80-120%	---	---	
Silver	61.1	---	0.500	mg/kg	5	62.5	---	98	80-120%	---	---	
Duplicate (23D0013-DUP1)			Prepared: 04/03/23 07:25 Analyzed: 04/03/23 16:55									
QC Source Sample: Tank 4-T (A3C1137-01)												
EPA 6020B												
Arsenic	ND	---	2.43	mg/kg	5	---	ND	---	---	---	20%	
Barium	ND	---	2.43	mg/kg	5	---	ND	---	---	---	20%	
Cadmium	ND	---	0.485	mg/kg	5	---	ND	---	---	---	20%	
Chromium	ND	---	2.43	mg/kg	5	---	ND	---	---	---	20%	
Lead	ND	---	0.485	mg/kg	5	---	ND	---	---	---	20%	
Mercury	ND	---	0.194	mg/kg	5	---	ND	---	---	---	20%	
Selenium	ND	---	2.43	mg/kg	5	---	ND	---	---	---	20%	
Silver	ND	---	0.485	mg/kg	5	---	ND	---	---	---	20%	
Matrix Spike (23D0013-MS1)			Prepared: 04/03/23 07:25 Analyzed: 04/03/23 17:16									

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ANALYTICAL REPORT

NRC	Project: Maul Foster Alongi	
6211 N Ensign St	Project Number: 189690	Report ID:
Portland, OR 97217	Project Manager: Jerry Wade	A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0013 - EPA 3051A							Liquid					
Matrix Spike (23D0013-MS1)			Prepared: 04/03/23 07:25 Analyzed: 04/03/23 17:16									
QC Source Sample: Tank 4-T (A3C1137-01)												
EPA 6020B												
Arsenic	117	---	2.38	mg/kg	5	119	ND	98	75-125%	---	---	
Barium	117	---	2.38	mg/kg	5	119	ND	98	75-125%	---	---	
Cadmium	116	---	0.476	mg/kg	5	119	ND	97	75-125%	---	---	
Chromium	121	---	2.38	mg/kg	5	119	ND	102	75-125%	---	---	
Lead	114	---	0.476	mg/kg	5	119	ND	96	75-125%	---	---	
Mercury	2.13	---	0.190	mg/kg	5	2.38	ND	89	75-125%	---	---	
Selenium	58.1	---	2.38	mg/kg	5	59.5	ND	98	75-125%	---	---	
Silver	57.2	---	0.476	mg/kg	5	59.5	ND	96	75-125%	---	---	

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ANALYTICAL REPORT

NRC	Project: Maul Foster Alongi	
6211 N Ensign St	Project Number: 189690	Report ID:
Portland, OR 97217	Project Manager: Jerry Wade	A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0210 - EPA 3051A							Solid					
Blank (23D0210-BLK1)			Prepared: 04/06/23 11:50 Analyzed: 04/07/23 14:45									
EPA 6020B												
Arsenic	ND	---	1.00	mg/kg	10	---	---	---	---	---	---	
Barium	ND	---	1.00	mg/kg	10	---	---	---	---	---	---	
Cadmium	ND	---	0.200	mg/kg	10	---	---	---	---	---	---	
Chromium	ND	---	1.00	mg/kg	10	---	---	---	---	---	---	
Lead	ND	---	0.200	mg/kg	10	---	---	---	---	---	---	
Mercury	ND	---	0.0800	mg/kg	10	---	---	---	---	---	---	
Selenium	ND	---	1.00	mg/kg	10	---	---	---	---	---	---	
Silver	ND	---	0.200	mg/kg	10	---	---	---	---	---	---	
LCS (23D0210-BS1)			Prepared: 04/06/23 11:50 Analyzed: 04/07/23 14:50									
EPA 6020B												
Arsenic	55.5	---	1.00	mg/kg	10	50.0	---	111	80-120%	---	---	
Barium	60.1	---	1.00	mg/kg	10	50.0	---	120	80-120%	---	---	
Cadmium	54.8	---	0.200	mg/kg	10	50.0	---	110	80-120%	---	---	
Chromium	55.5	---	1.00	mg/kg	10	50.0	---	111	80-120%	---	---	
Lead	59.5	---	0.200	mg/kg	10	50.0	---	119	80-120%	---	---	
Mercury	1.18	---	0.0800	mg/kg	10	1.00	---	118	80-120%	---	---	
Selenium	25.7	---	1.00	mg/kg	10	25.0	---	103	80-120%	---	---	
Silver	28.4	---	0.200	mg/kg	10	25.0	---	114	80-120%	---	---	
Duplicate (23D0210-DUP1)			Prepared: 04/06/23 11:50 Analyzed: 04/07/23 15:10									
QC Source Sample: Tank 0-T (A3C1137-03)												
EPA 6020B												
Arsenic	ND	---	1.05	mg/kg	10	---	ND	---	---	---	20%	
Cadmium	**1.88**	---	0.209	mg/kg	10	---	1.48	---	---	**24**	**20%**	Q-17
Chromium	**4.07**	---	1.05	mg/kg	10	---	3.64	---	---	11	20%	
Lead	**7.07**	---	0.209	mg/kg	10	---	6.66	---	---	6	20%	
Mercury	**0.161**	---	0.0837	mg/kg	10	---	0.149	---	---	8	20%	
Selenium	ND	---	1.05	mg/kg	10	---	ND	---	---	---	20%	
Silver	ND	---	0.209	mg/kg	10	---	ND	---	---	---	20%	
Duplicate (23D0210-DUP2)			Prepared: 04/06/23 11:50 Analyzed: 04/07/23 15:29									

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ANALYTICAL REPORT

NRC	Project: Maul Foster Alongi	
6211 N Ensign St	Project Number: 189690	Report ID:
Portland, OR 97217	Project Manager: Jerry Wade	A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0210 - EPA 3051A							**Solid**					
Duplicate (23D0210-DUP2)			Prepared: 04/06/23 11:50 Analyzed: 04/07/23 15:29									
QC Source Sample: Tank 0-T (A3C1137-03RE1)												
EPA 6020B												
Barium	**780**	---	10.5	mg/kg	100	---	726	---	---	7	20%	Q-16
Matrix Spike (23D0210-MS1)			Prepared: 04/06/23 11:50 Analyzed: 04/07/23 15:15									
QC Source Sample: Tank 0-T (A3C1137-03)												
EPA 6020B												
Arsenic	54.8	---	1.08	mg/kg	10	54.0	ND	102	75-125%	---	---	
Barium	672	---	1.08	mg/kg	10	54.0	698	**-48**	**75-125%**	---	---	E, Q-65
Cadmium	54.2	---	0.216	mg/kg	10	54.0	1.48	98	75-125%	---	---	
Chromium	57.6	---	1.08	mg/kg	10	54.0	3.64	100	75-125%	---	---	
Lead	61.5	---	0.216	mg/kg	10	54.0	6.66	101	75-125%	---	---	
Mercury	1.21	---	0.0864	mg/kg	10	1.08	0.149	98	75-125%	---	---	
Selenium	25.4	---	1.08	mg/kg	10	27.0	ND	94	75-125%	---	---	
Silver	27.8	---	0.216	mg/kg	10	27.0	ND	103	75-125%	---	---	

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ANALYTICAL REPORT

NRC	Project: Maul Foster Alongi	
6211 N Ensign St	Project Number: 189690	Report ID:
Portland, OR 97217	Project Manager: Jerry Wade	A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0208 - EPA 1311/3015A							Solid					
Blank (23D0208-BLK1)			Prepared: 04/06/23 11:36 Analyzed: 04/06/23 18:00									
1311/6020B												
Arsenic	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLP
Barium	ND	---	5.00	mg/L	10	---	---	---	---	---	---	TCLP
Cadmium	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLP
Chromium	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLP
Lead	ND	---	0.0500	mg/L	10	---	---	---	---	---	---	TCLP
Mercury	ND	---	0.00700	mg/L	10	---	---	---	---	---	---	TCLP
Selenium	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLP
Silver	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLP
LCS (23D0208-BS1)			Prepared: 04/06/23 11:36 Analyzed: 04/06/23 18:06									
1311/6020B												
Arsenic	4.92	---	0.100	mg/L	10	5.00	---	98	80-120%	---	---	TCLP
Barium	9.94	---	5.00	mg/L	10	10.0	---	99	80-120%	---	---	TCLP
Cadmium	1.01	---	0.100	mg/L	10	1.00	---	101	80-120%	---	---	TCLP
Chromium	4.84	---	0.100	mg/L	10	5.00	---	97	80-120%	---	---	TCLP
Lead	5.17	---	0.0500	mg/L	10	5.00	---	103	80-120%	---	---	TCLP
Mercury	0.0996	---	0.00700	mg/L	10	0.100	---	100	80-120%	---	---	TCLP
Selenium	0.998	---	0.100	mg/L	10	1.00	---	100	80-120%	---	---	TCLP
Silver	0.942	---	0.100	mg/L	10	1.00	---	94	80-120%	---	---	TCLP
Duplicate (23D0208-DUP1)			Prepared: 04/06/23 11:36 Analyzed: 04/06/23 18:16									
QC Source Sample: Tank 2-T (A3C1137-02)												
1311/6020B												
Arsenic	ND	---	0.100	mg/L	10	---	ND	---	---	---	20%	TCLPa
Barium	ND	---	5.00	mg/L	10	---	ND	---	---	---	20%	TCLPa
Cadmium	ND	---	0.100	mg/L	10	---	ND	---	---	---	20%	TCLPa
Chromium	ND	---	0.100	mg/L	10	---	ND	---	---	---	20%	TCLPa
Lead	ND	---	0.0500	mg/L	10	---	ND	---	---	---	20%	TCLPa
Mercury	ND	---	0.00700	mg/L	10	---	ND	---	---	---	20%	TCLPa
Selenium	ND	---	0.100	mg/L	10	---	ND	---	---	---	20%	TCLPa
Silver	ND	---	0.100	mg/L	10	---	ND	---	---	---	20%	TCLPa
Matrix Spike (23D0208-MS1)			Prepared: 04/06/23 11:36 Analyzed: 04/06/23 18:22									

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ANALYTICAL REPORT

NRC	Project: Maul Foster Alongi	
6211 N Ensign St	Project Number: 189690	Report ID:
Portland, OR 97217	Project Manager: Jerry Wade	A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0208 - EPA 1311/3015A							**Solid**					
Matrix Spike (23D0208-MS1)			Prepared: 04/06/23 11:36 Analyzed: 04/06/23 18:22									
QC Source Sample: Tank 2-T (A3C1137-02)												
1311/6020B												
Arsenic	4.88	---	0.100	mg/L	10	5.00	ND	98	50-150%	---	---	TCLPa
Barium	11.2	---	5.00	mg/L	10	10.0	ND	112	50-150%	---	---	TCLPa
Cadmium	1.03	---	0.100	mg/L	10	1.00	ND	103	50-150%	---	---	TCLPa
Chromium	4.83	---	0.100	mg/L	10	5.00	ND	97	50-150%	---	---	TCLPa
Lead	4.97	---	0.0500	mg/L	10	5.00	ND	99	50-150%	---	---	TCLPa
Mercury	0.0969	---	0.00700	mg/L	10	0.100	ND	97	50-150%	---	---	TCLPa
Selenium	1.00	---	0.100	mg/L	10	1.00	ND	100	50-150%	---	---	TCLPa
Silver	0.941	---	0.100	mg/L	10	1.00	ND	94	50-150%	---	---	TCLPa
Matrix Spike (23D0208-MS2)			Prepared: 04/06/23 11:36 Analyzed: 04/06/23 18:32									
QC Source Sample: Non-SDG (A3D0737-01)												
1311/6020B												
Arsenic	5.03	---	0.100	mg/L	10	5.00	ND	101	50-150%	---	---	
Barium	10.8	---	5.00	mg/L	10	10.0	ND	108	50-150%	---	---	
Cadmium	1.03	---	0.100	mg/L	10	1.00	ND	103	50-150%	---	---	
Chromium	4.98	---	0.100	mg/L	10	5.00	ND	100	50-150%	---	---	
Lead	5.05	---	0.0500	mg/L	10	5.00	ND	101	50-150%	---	---	
Mercury	0.0954	---	0.00700	mg/L	10	0.100	ND	95	50-150%	---	---	
Selenium	1.01	---	0.100	mg/L	10	1.00	ND	101	50-150%	---	---	
Silver	0.968	---	0.100	mg/L	10	1.00	ND	97	50-150%	---	---	

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Darwin Thomas, Business Development Director

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

ANALYTICAL REPORT

NRC	Project: Maul Foster Alongi	
6211 N Ensign St	Project Number: 189690	Report ID:
Portland, OR 97217	Project Manager: Jerry Wade	A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0209 - EPA 1311/3015A							Solid					
Blank (23D0209-BLK1)			Prepared: 04/06/23 11:36 Analyzed: 04/06/23 16:50									
1311/6020B												
Arsenic	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLPb
Barium	ND	---	5.00	mg/L	10	---	---	---	---	---	---	TCLPb
Cadmium	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLPb
Chromium	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLPb
Lead	ND	---	0.0500	mg/L	10	---	---	---	---	---	---	TCLPb
Mercury	ND	---	0.00700	mg/L	10	---	---	---	---	---	---	TCLPb
Selenium	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLPb
Silver	ND	---	0.100	mg/L	10	---	---	---	---	---	---	TCLPb
LCS (23D0209-BS1)			Prepared: 04/06/23 11:36 Analyzed: 04/06/23 16:56									
1311/6020B												
Arsenic	4.95	---	0.100	mg/L	10	5.00	---	99	80-120%	---	---	TCLPb
Barium	10.0	---	5.00	mg/L	10	10.0	---	100	80-120%	---	---	TCLPb
Cadmium	1.03	---	0.100	mg/L	10	1.00	---	103	80-120%	---	---	TCLPb
Chromium	4.87	---	0.100	mg/L	10	5.00	---	97	80-120%	---	---	TCLPb
Lead	5.08	---	0.0500	mg/L	10	5.00	---	102	80-120%	---	---	TCLPb
Mercury	0.0962	---	0.00700	mg/L	10	0.100	---	96	80-120%	---	---	TCLPb
Selenium	1.01	---	0.100	mg/L	10	1.00	---	101	80-120%	---	---	TCLPb
Silver	0.966	---	0.100	mg/L	10	1.00	---	97	80-120%	---	---	TCLPb
Duplicate (23D0209-DUP1)			Prepared: 04/06/23 11:36 Analyzed: 04/06/23 17:07									
QC Source Sample: Tank 0-T (A3C1137-03)												
1311/6020B												
Arsenic	ND	---	0.100	mg/L	10	---	ND	---	---	---	20%	TCLPa
Barium	ND	---	5.00	mg/L	10	---	ND	---	---	---	20%	TCLPa
Cadmium	ND	---	0.100	mg/L	10	---	ND	---	---	---	20%	TCLPa
Chromium	ND	---	0.100	mg/L	10	---	ND	---	---	---	20%	TCLPa
Lead	ND	---	0.0500	mg/L	10	---	ND	---	---	---	20%	TCLPa
Mercury	ND	---	0.00700	mg/L	10	---	ND	---	---	---	20%	TCLPa
Selenium	ND	---	0.100	mg/L	10	---	ND	---	---	---	20%	TCLPa
Silver	ND	---	0.100	mg/L	10	---	ND	---	---	---	20%	TCLPa
Matrix Spike (23D0209-MS1)			Prepared: 04/06/23 11:36 Analyzed: 04/06/23 17:12									

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ORELAP ID: OR100062

ANALYTICAL REPORT

NRC	Project: Maul Foster Alongi	
6211 N Ensign St	Project Number: 189690	Report ID:
Portland, OR 97217	Project Manager: Jerry Wade	A3C1137 - 04 20 23 1304

QUALITY CONTROL (QC) SAMPLE RESULTS

TCLP Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0209 - EPA 1311/3015A							**Solid**					
Matrix Spike (23D0209-MS1)			Prepared: 04/06/23 11:36 Analyzed: 04/06/23 17:12									
QC Source Sample: Tank 0-T (A3C1137-03)												
1311/6020B												
Arsenic	4.77	---	0.100	mg/L	10	5.00	ND	95	50-150%	---	---	TCLPa
Barium	12.0	---	5.00	mg/L	10	10.0	ND	120	50-150%	---	---	TCLPa
Cadmium	1.03	---	0.100	mg/L	10	1.00	ND	103	50-150%	---	---	TCLPa
Chromium	4.72	---	0.100	mg/L	10	5.00	ND	94	50-150%	---	---	TCLPa
Lead	5.03	---	0.0500	mg/L	10	5.00	ND	101	50-150%	---	---	TCLPa
Mercury	0.0958	---	0.00700	mg/L	10	0.100	ND	96	50-150%	---	---	TCLPa
Selenium	1.07	---	0.100	mg/L	10	1.00	ND	107	50-150%	---	---	TCLPa
Silver	0.930	---	0.100	mg/L	10	1.00	ND	93	50-150%	---	---	TCLPa

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ANALYTICAL REPORT

NRC	Project: **Maul Foster Alongi**	
6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

SAMPLE PREPARATION INFORMATION

Hydrocarbon Identification Screen by NWTPH-HCID

Prep: NWTPH-HCID (Soil)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23D0071							
A3C1137-01	Liquid	NWTPH-HCID	03/29/23 10:00	04/03/23 16:52	0.52g/10mL	1g/10mL	1.92

Polychlorinated Biphenyls by EPA 8082A

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23D0145							
A3C1137-02	Solid	EPA 8082A	03/29/23 10:30	04/05/23 09:49	2.63g/5mL	2g/5mL	0.76
A3C1137-03	Solid	EPA 8082A	03/29/23 10:40	04/05/23 09:49	2.17g/5mL	2g/5mL	0.92
Batch: 23D0198							
A3C1137-01	Liquid	EPA 8082A	03/29/23 10:00	04/06/23 09:43	0.26g/5mL	2g/5mL	7.69

Semivolatile Organic Compounds by EPA 8270E

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23D0146							
A3C1137-02	Solid	EPA 8270E	03/29/23 10:30	04/05/23 09:55	15.36g/50mL	15g/2mL	24.40
A3C1137-03	Solid	EPA 8270E	03/29/23 10:40	04/05/23 09:55	5.06g/50mL	15g/2mL	74.10

Prep: EPA 3580A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23D0179							
A3C1137-01	Liquid	EPA 8270E	03/29/23 10:00	04/05/23 14:55	0.14g/5mL	1g/5mL	7.14

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23D0013							
A3C1137-01	Liquid	EPA 6020B	03/29/23 10:00	04/03/23 07:25	0.103g/50mL	0.5g/50mL	4.85
Batch: 23D0210							
A3C1137-03	Solid	EPA 6020B	03/29/23 10:40	04/06/23 11:50	0.455g/50mL	0.5g/50mL	1.10
A3C1137-03RE1	Solid	EPA 6020B	03/29/23 10:40	04/06/23 11:50	0.455g/50mL	0.5g/50mL	1.10

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ANALYTICAL REPORT

NRC	Project: Maul Foster Alongi	
6211 N Ensign St	Project Number: 189690	Report ID:
Portland, OR 97217	Project Manager: Jerry Wade	A3C1137 - 04 20 23 1304

SAMPLE PREPARATION INFORMATION

TCLP Metals by EPA 6020B (ICPMS)

Prep: EPA 1311/3015A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23D0208							
A3C1137-02	Solid	1311/6020B	03/29/23 10:30	04/06/23 11:36	10mL/50mL	10mL/50mL	1.00
Batch: 23D0209							
A3C1137-03	Solid	1311/6020B	03/29/23 10:40	04/06/23 11:36	10mL/50mL	10mL/50mL	1.00

TCLP Extraction by EPA 1311

Prep: EPA 1311 (TCLP)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23D0150							
A3C1137-02	Solid	EPA 1311	03/29/23 10:30	04/05/23 14:10	50g/1000g	100g/2000g	NA
Batch: 23D0162							
A3C1137-03	Solid	EPA 1311	03/29/23 10:40	04/05/23 14:10	10g/200g	100g/2000g	NA

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QUALIFIER DEFINITIONS

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

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B	Analyte detected in an associated blank at a level above the MRL. (See Notes and Conventions below.)
B-02	Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.)
C-07	Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
E	Estimated Value. The result is above the calibration range of the instrument.
F-11	The hydrocarbon pattern indicates possible weathered diesel, mineral oil, or a contribution from a related component.
Q-01	Spike recovery and/or RPD is outside acceptance limits.
Q-16	Reanalysis of an original Batch QC sample.
Q-17	RPD between original and duplicate sample is outside of established control limits.
Q-18	Matrix Spike results for this extraction batch are not reported due to the high dilution necessary for analysis of the source sample.
Q-24	The RPD for this spike and spike duplicate is above established control limits. Recoveries for both the spike and spike duplicate are within control limits.
Q-29	Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high.
Q-31	Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
Q-41	Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
Q-42	Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
Q-52	Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method.
Q-65	Spike recovery is estimated due to the high analyte concentration of the source sample.
R-02	The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
R-04	Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.
S-01	Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
S-05	Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
TCLP	This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23D0150.
TCLPa	Limited sample volume. Leachate was prepared using less than the specified amount of sample per EPA 1311 or 1312. For consistency in leaching, the standard 20x ratio of sample to leachate fluid was maintained. Results may not meet regulatory requirements.
TCLPb	This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23D0162.

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ANALYTICAL REPORT

NRC	Project:	**Maul Foster Alongi**	
6211 N Ensign St	Project Number:	**189690**	**Report ID:**
Portland, OR 97217	Project Manager:	**Jerry Wade**	**A3C1137 - 04 20 23 1304**

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ANALYTICAL REPORT

NRC	Project: **Maul Foster Alongi**	
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Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

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

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as " dry", " wet", or " " (blank) designation.

" dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.

" wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

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

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

Miscellaneous Notes:

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

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

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6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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ANALYTICAL REPORT

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6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -
EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

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Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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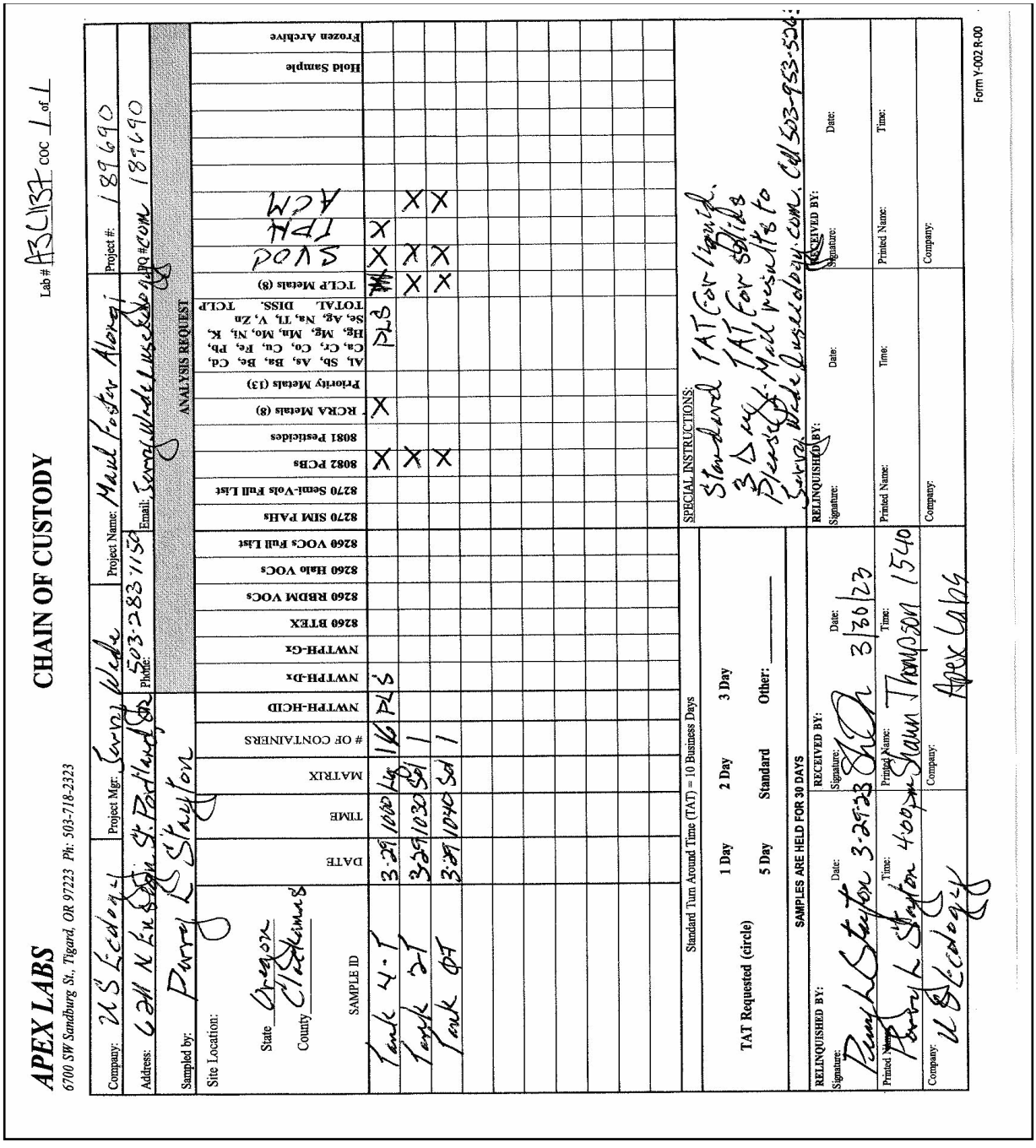
6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**



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

CHAIN OF CUSTODY

Lab # A3C1137 COC 1 of 1

Company: NRC Portland | Project Mgr: Jerry Wade | Project Name: Maul Foster Alongi | Project #: 189690
Address: 6211 N Ensign St. Portland, OR | Phone: 503-283-1150 | Email: JerryWade@maulfoster.com | PO #: com 189690
Sampled by: Darrell Strayhorn
Site Location: State Oregon County Clackamas

SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	BTEX	RBDM VOCs	Halo VOCs	VOCs Full List	SIM PAHs	Semi-Vols Full List	PCBs	Pesticides	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS. TCLP	TCLP Metals (8)	Hold Sample	Frozen Archive
Tank 4-5	3-29	1030	Liq	16	PLS									X		X		PLS	X		
Tank 5-5	3-29	1030	Soil	1										X		X			X		
Tank 6-5	3-29	1040	Soil	1										X		X			X		

Standard Turn Around Time (TAT) = 10 Business Days
TAT Requested (circle): 1 Day 2 Day 3 Day 5 Day Standard Other: _____

SPECIAL INSTRUCTIONS:
Standard TAT for liquid.
3 Day TAT for soils
Please E-Mail results to Jerry Wade (jwade@maulfoster.com). Call 503-953-5046 with questions.

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: Signature: Darrell Strayhorn Printed Name: Darrell Strayhorn Company: NRC Portland Date: 3-29-23 Time: 4:00pm
RECEIVED BY: Signature: Printed Name: Company: Date: Time:
RELINQUISHED BY: Signature: Printed Name: Company: Date: Time:
RECEIVED BY: Signature: Printed Name: Company: Date: Time:
RELINQUISHED BY: Signature: Printed Name: Company: Date: Time:
RECEIVED BY: Signature: Printed Name: Company: Date: Time:

Form Y-002 R-00

Apex Laboratories

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

Darwin Thomas, Business Development Director

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

ANALYTICAL REPORT

NRC	Project: **Maul Foster Alongi**	
6211 N Ensign St	Project Number: **189690**	**Report ID:**
Portland, OR 97217	Project Manager: **Jerry Wade**	**A3C1137 - 04 20 23 1304**

APEX LABS COOLER RECEIPT FORM

Client: US ECOLOGY Element WO#: A3C1137

Project/Project #: MAUL FOSTER ALONGI 189690

Delivery Info:

Date/time received: 3/30/23 @ 1540 By: SAT

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

Cooler Inspection Date/time inspected: 3/30/23 @ 1735 By: SAT

Chain of Custody included? Yes X No

Signed/dated by client? Yes X No

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	0.6						
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Gel						
Condition (In/Out):	IN						

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

Green dots applied to out of temperature samples? Yes/(No)

Out of temperature samples form initiated? Yes/(No)

Sample Inspection: Date/time inspected: 3/30/23 @ 1825 By: RMP

All samples intact? Yes X No Comments:

Bottle labels/COCs agree? Yes X No Comments:

COC/container discrepancies form initiated? Yes No X

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

Do VOA vials have visible headspace? Yes No NA X

Comments

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

Comments:

Additional information:

Labeled by: RMP Witness: AMW Cooler Inspected by: RMP

Form Y-003 R-00

Apex Laboratories

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Darwin Thomas, Business Development Director

SUBCONTRACT ORDER

Apex Laboratories

A3C1137

AKC 3/31/23

JB

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Darwin Thomas

RECEIVING LABORATORY:

Atlas Laboratories, Inc
14795 SW 72nd Ave - Suite B
Portland, OR 97224
Phone :(503) 430-5290
Fax: -1

Sample Name: Tank 2-T **Sampled: 03/29/23 10:30** (A3C1137-02)

Analysis	Due	Expires	Comments
Asbestos (Sub)	04/06/23 17:00	04/12/23 10:30	
Containers Supplied:			
(A)8 oz Glass Jar			

Sample Name: Tank 0-T **Sampled: 03/29/23 10:40** (A3C1137-03)

Analysis	Due	Expires	Comments
Asbestos (Sub)	04/06/23 17:00	04/12/23 10:40	
Containers Supplied:			
(A)8 oz Glass Jar			

5-day TAT

Released By	Date	Received By	Date
	3/31/23 1211		3/31/23
Released By	Date	Received By	Date
			4-4-23

Atlas Labs

Batch # 2022 *
69101

Name / Company *
Apex Laboratory

Analysis Date *
2023-03-31

Project Name

Project #
A3C1137

PO #

Analyst *
Jason Elbon

Project Location *
6700 SW Sandburg St. Tigard, OR 97233

Turnaround Time *
5-Day

Asbestos Analysis of Bulk Material by Polarized Light Microscopy

Sample*	Layer*	Description*	Non Asbestos*	Asbestos Type*	Asbestos %*
1	1	Tank Debris (Brown / Gold) - Tank 2-T	Cellulose / Fiberglass	None Present	N/D
2	1	Tank Debris (Brown / Gold) - Tank 0-T	Cellulose / Fiberglass	None Present	N/D

To Be Filled by the Technician

Technician *