



State of Oregon
Department of
Environmental
Quality

Application for a Solid Waste Beneficial Use Determination

DEQ USE ONLY - BUSINESS OFFICE	
Date Received:	<u>OCT 18 2018</u>
Amount Received:	<u>2010.8</u>
Check No.:	<u>1396</u>
Deposit No.:	_____
Forward confirmation of fee payment for: Eastern Region to DEQ, The Dalles Northwestern Region to DEQ-NWR, Portland Western Region to DEQ, Salem	

A. REFERENCE INFORMATION (Please type or print clearly.)

<u>Linnton Water Credits, LLC</u>		<u>RestorCap, LLC</u>	
Legal name of applicant		Business name of applicant if different	
<u>337 17th Street</u>		<u>Oakland</u>	<u>CA</u> <u>94612</u>
Mailing address		City	State Zip
<u>714-580-2004</u>	<u>714-580-2004</u>	<u>andyg@restorcap.net</u>	<u>562-427-3314</u>
Phone	Mobile	E-mail	Fax

<u>Linnton Water Credits, LLC</u>			
Generator of solid waste (may be same as applicant)			
<u>337 17th Street</u>		<u>Oakland</u>	<u>CA</u> <u>94612</u>
Mailing address		City	State Zip
<u>714-580-2004</u>	<u>714-580-2004</u>	<u>andyg@restorcap.net</u>	<u>562-427-3314</u>
Phone	Mobile	E-mail	Fax

B. TYPE OF BENEFICIAL USE DETERMINATION REQUESTED Beneficial Use Determination applications are categorized based on the type of information and potential amount of work required by DEQ staff to review application materials and render a decision. A tiered review and fee system has been established in rule. The tiers are:

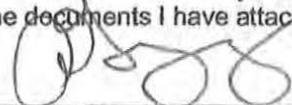
- Tier 1 For a beneficial use of a solid waste that does not contain hazardous substances significantly exceeding the concentration in a comparable raw material or commercial product and that will be used in a manufactured product;
- Tier 2 For a beneficial use of a solid waste that contains hazardous substances significantly exceeding the concentration in a comparable raw material or commercial product, or involves application on the land;
- Tier 3 For a beneficial use of a solid waste that requires research, such as a literature review or risk assessment, or for a demonstration project to demonstrate compliance with this rule.

I am applying for a Tier 1 Tier 2 Tier 3 determination.

C. DOES THIS PROPOSED BENEFICIAL USE INVOLVE LAND APPLICATION OF ANY MATERIAL?

Yes No

D. SIGNATURE I hereby certify by my signature below that the information contained in this application, and the documents I have attached, are true and correct to the best of my knowledge and belief.

 Andrew Gregg General Counsel 10/16/18
Signature of legally authorized representative Print name Title Date

E. REQUIRED ATTACHMENTS TO THIS APPLICATION *(For an application to be complete, it must provide the required information for each listed item of the tier which is being applied for.)*

Tier 1

- A description of the material, manner of generation, and estimated quantity to be used each year;
- A description of the proposed use;
- A comparison of the chemical and physical characteristics of the material proposed for use with the material it will replace;
- A demonstration of compliance with the performance criteria in OAR 340-093-0280 based on knowledge of the process that generated the material, properties of the finished product, or testing; and
- Any other information that DEQ may require to evaluate the proposal.

Tier 2

- The information required for a Tier 1 application;
- Sampling and analysis that provides chemical, physical, and biological characterization of the material and that identifies potential contaminants in the material or the end product, as applicable;
- A risk screening comparing the concentration of hazardous substances in the material to existing, DEQ approved, risk-based screening level values, and demonstrating compliance with acceptable risk levels;
- Location or type of land use where the material will be applied, consistent with the risk scenarios used to evaluate risk;
- Contact information of property owner(s) if this is a site-specific land application proposal, including name, address, phone number, e-mail, site address and site coordinates (latitude and longitude); and
- A description of how the material will be managed to minimize potential adverse impacts to public health, safety, welfare, or the environment.

Tier 3

- The information required for a Tier 1 & 2 application;
- A discussion of the justification for the proposal;
- An estimate of the expected length of time that would be required to complete the project, if it is a demonstration; and
- If it is a demonstration project, the methods proposed to ensure safe and proper management of the material.

F. PERFORMANCE CRITERIA *(For all tiers - An application for a beneficial use determination must demonstrate satisfactory compliance with the following performance criteria.)*

The use is productive, including:

- ✦ There is an identified or reasonably likely use for the material that is not speculative;
- ✦ The use is a valuable part of a manufacturing process, an effective substitute for a valuable raw material or commercial product, or otherwise authorized by DEQ, and does not constitute disposal; and
- ✦ The use is in accordance with applicable engineering standards, commercial standards, and agricultural or horticultural practices.

The use will not create an adverse impact to public health, safety, welfare, or the environment, including:

- ✦ The material is not a hazardous waste under ORS 466.005;
- ✦ Until the time the material is used in accordance with a beneficial use determination, the material will be managed, including any storage, transportation, or processing, to prevent releases to the environment or nuisance conditions;
- ✦ Hazardous substances in the material do not significantly exceed the concentration in a comparable raw material or commercial product, or do not exceed naturally occurring background concentrations, or do not exceed acceptable risk levels, including evaluation of persistence and potential bioaccumulation, when the material is managed according to a beneficial use determination.

The use will not result in the increase of a hazardous substance in a sensitive environment.

The use will not create objectionable odors, dust, unsightliness, fire, or other nuisance conditions.

The use will comply with all applicable federal, state, and local regulations.



Washington
Issaquah | Bellingham | Seattle
Oregon
Portland | Bend | Baker City
California
Oakland | Folsom | Irvine

October 16, 2018

Ms. Heather Kuoppamaki
Oregon Department of Environmental Quality
Northwest Region
Solid Waste Programs
700 Northeast Multnomah Street, Suite 600
Portland, Oregon 97232

BY EMAIL ONLY

**RE: APPLICATION FOR TIER II SOLID WASTE BENEFICIAL USE
DETERMINATION
LINNTON MILL SITE
10504 NORTHWEST SAINT HELENS ROAD, PORTLAND, OREGON
LINNTON WATER CREDITS, LLC
FARALLON PN: 1588-001**

Dear Ms. Kuoppamaki:

Farallon Consulting, L.L.C. (Farallon) has prepared this letter on behalf of Linnton Water Credits, LLC (LWC) as part of the application for a Tier II Solid Waste Beneficial Use Determination (BUD) for the former Linnton Plywood Association (LPA) mill at 10504 Northwest Saint Helens Road in Portland, Oregon (herein referred to as the Site) (Figure 1). The Site is a former lumber and plywood mill adjacent to the western bank of the Lower Willamette River. LWC is seeking a Tier II BUD that would allow off-site reuse of soil excavated from the Site as part of the restoration of the Site as a biohabitat. Attachment A includes a completed Oregon Department of Environmental Quality (DEQ) application for a Tier II BUD and a check to cover the fees for a Tier II BUD application.

This letter includes background information regarding the use and regulatory history of the Site, and the following additional information required by the application:

1. A description of the material, manner of generation, and estimated quantity to be used each year;
2. A description of the proposed use;
3. A comparison of the physical and chemical characteristics of the material proposed for use with the material it will replace;
4. A demonstration of compliance with the performance criteria in Rule 0280 of Division 093 of Chapter 340 of the Oregon Administrative Rules (OAR 340-093-0280) based on knowledge of the process that generated the material, properties of the finished product, or testing;



5. Sampling and analysis that provides physical, chemical, and biological characterization of the material and that identifies potential contaminants in the material or the end product, as applicable;
6. A risk screening comparing the concentration of hazardous substances in the material to existing, DEQ-approved, risk-based screening level values, and demonstrating compliance with acceptable risk levels;
7. Location or type of land use where the material will be applied, consistent with the risk scenarios used to evaluate risk;
8. Contact information of property owner(s) if this is a site-specific land application proposal, including name, address, phone number, email, site address, and site coordinates (in latitude and longitude);
9. A description of how the material will be managed to minimize potential adverse impacts to public health, safety, welfare, or the environment; and
10. Other information that DEQ may require for evaluating the application.

BACKGROUND

The Site operated as a lumber mill beginning in approximately 1894. As early as 1908, lumber piles covered the majority of the northern portion of the Site, and mill operations that included a saw mill, a planing mill, a grading and sorting table, a drying kiln, and a machine shop were conducted on the southern portion of the Site. Operations on the Site included staging of logs in the Lower Willamette River, and lumber cutting, planing, and storage. The lumber mill operated until it was partially destroyed by fire in 1947. From 1951 to 2001, LPA conducted operations in the main mill complex buildings on the northern portion of the Site, which included log sawing and peeling, milling, lumber and veneer drying, and plywood manufacturing. Beginning in the 1980s, an aggregate processing facility was operated by Columbia River Sand and Gravel on the southern portion of the Site. Aggregate processing operations included off-loading (i.e., sand pumping) of Columbia River dredge spoils via spud barge into settling and dewatering ponds on the Site. LPA ceased operations in December 2001, and mill decommissioning and equipment salvage operations began in 2002.

The Site historically did not treat lumber; however, LPA entered the DEQ Voluntary Cleanup Program in 1999 based primarily on the presence of polycyclic aromatic hydrocarbons (PAHs) in sediment samples collected from river sediment near the Site by the U.S. Environmental Protection Agency (EPA) in 1997. LPA signed a Voluntary Agreement for Source Control with DEQ dated June 5, 2000 to evaluate the Site as a potential upland source of contamination to the Portland Harbor Superfund Site. Several investigations were performed at the Site under the agreements with DEQ. The Site investigations identified soil impacts associated with mill operations, and groundwater impacts in the southeastern portion of the Site associated with releases at the south-adjacent BP/ARCO Bulk Terminal 22T (Terminal 22T). Limited soil removal actions were performed at the Site in 2003. Monitoring wells associated with releases at Terminal 22T have been installed in the southeastern portion of the Site as part of ongoing remediation at Terminal



22T. None of the investigations indicated that conditions at the Site represented a potentially unacceptable risk to the Lower Willamette River or potential human and ecological receptors. Accordingly, DEQ issued a Source Control Decision on May 7, 2004 and a No Further Action (NFA) determination on July 10, 2009 for the Site. The Source Control Decision indicated that impacted soil associated with former mill operations at the Site was not a current source of contamination to the Lower Willamette River. The NFA indicated that because the impacted soil does not pose an unacceptable risk to human health or the environment under existing conditions, the soil can remain in-place.

LWC entered into a Prospective Purchaser Agreement with DEQ under Chapter 465.327 of the Oregon Revised Statute (ORS 465.327) in 2014. Planned future restoration activities include construction of a biohabitat on the southern portion of the Site. Proposed habitat improvements include a series of open-water, emergent wetland, and forested riparian areas. LWC has since conducted various efforts in preparation for restoration construction, including demolition of existing buildings and infrastructure on the northern portion of the Site, development of restoration plans, and obtainment of permits from U.S. Army Corps of Engineers, DEQ, and City of Portland.

LWC agreed to perform additional remedial activities for the Site under a Consent Judgment to ensure that the restoration is protective of public health, safety, and welfare, and of the environment. The remedial activities included but were not limited to performing an investigation in accordance with the *New Exposed Subsurface Investigation Work Plan, Linnton Mill Site Restoration, 10504 Northwest Saint Helens Road, Portland, Oregon* dated June 10, 2016, developed by Farallon and approved by DEQ on June 13, 2016 (2016 investigation). The 2016 investigation included advancing borings and collecting soil samples to characterize soil planned for excavation and soil at the excavation leave surface using a systematic random sampling approach. A grid with 165 fifty-foot-square cells was superimposed on the excavation area and a boring was advanced at the approximate centers of 49 grid cells. To characterize the soil planned for excavation, one composite soil sample representing the soil over the depth of the excavation was collected from each boring and submitted for analysis of contaminants of interest (COIs), including the following chemical compounds:

- Total petroleum hydrocarbons as gasoline-range organics (GRO);
- Total petroleum hydrocarbons as diesel-range organics (DRO) and as oil-range organics (ORO);
- Resource Conservation and Recovery Act 8 metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) and copper;
- PAHs; and
- Polychlorinated bi-phenyls as Aroclors.



The results of the investigations were described in the *New Exposed Surface Investigation Report, Linnton Mill Site Restoration, 10504 Northwest Saint Helens Road, Portland, Oregon* dated November 11, 2016, prepared by Farallon (2016 Investigation Report). The 2016 Investigation Report was submitted to Mr. Jeff Schatz, the DEQ project manager for the Site, in November 2016. DEQ approved the 2016 Investigation Report in an email regarding Response to DEQ Comments and Revised New Exposed Surface Investigation Report dated December 5, 2016, from Mr. Schatz of DEQ to Messrs. Craig Ware and Mark Havighorst of Farallon. The 2016 Investigation Report concluded that COIs in soil planned for excavation do not pose an unacceptable risk to potential human and ecological receptors based on a comparison of concentrations of COIs with regulatory screening levels relevant for reusing the excavated soil on the Site. Reusing the excavated soil off the Site was not contemplated at the time when the 2016 Investigation Report was issued; therefore, the 2016 Investigation Report did not compare concentrations of COIs with regulatory screening levels relevant for reusing the excavated soil off the Site or describe potential scenarios for off-Site reuse. These screening levels and potential scenarios for off-Site reuse are described in the sections that follow.

1. A DESCRIPTION OF THE MATERIAL, MANNER OF GENERATION, AND ESTIMATED QUANTITY TO BE USED EACH YEAR

Approximately 200,000 cubic yards of soil at the Site will be excavated from the area shown on Figure 2 from depths of up to 27 feet below ground surface during the period from 2018 to 2020 as part of the habitat restoration project. Some of the excavated soil will be used to establish new grades on the Site to create the biohabitat. It is estimated that up to 50,000 cubic yards of excavated soil will not be used to create the biohabitat and could be available for off-Site reuse. The 2016 investigation indicated that the excavated soil will consist mostly of sandy or silty Columbia River dredge material placed on the Site in the 1970s and 1980s and native material composed of unconsolidated alluvial deposits ranging from silty to clayey silts, with some sands and gravels.

2. A DESCRIPTION OF THE PROPOSED USE

Proposed off-Site uses of the excavated soil include residential and non-residential fill, utility trench fill, and road base course materials. The excavated soil would not be reused in waterways, but the soil may come into contact with stormwater.

3. A COMPARISON OF THE PHYSICAL AND CHEMICAL CHARACTERISTICS OF THE MATERIAL PROPOSED FOR USE WITH THE MATERIAL IT WILL REPLACE

Physical characteristic testing has not been performed on the soil in the excavation area; however, the general granular nature of soil at the Site is assumed suitable for residential and non-residential construction fill, utility trench fill, and road base course materials. When used in applications where structural engineering properties are a concern, it is assumed that the soil will be evaluated appropriately by the end user.

The chemical characteristics of the excavation area soil were evaluated during the 2016 investigation. The locations of borings advanced during the 2016 investigation are shown on Figure 2. A list of the grid cells sampled, the approximate excavation depth in each sampled grid



cell, and the depth of each boring are listed in Table 1. Soil analytical results are summarized in Tables 2 through 5. The laboratory analytical reports are provided in Attachment B.

To evaluate the soil for potential off-Site reuse, the concentrations of COIs detected in soil samples collected from the excavation area were compared with the following regulatory screening levels:

- DEQ Clean Fill Criteria;
- DEQ risk-based concentrations (RBCs) for the soil ingestion, dermal contact, and inhalation exposure pathways for the residential receptor scenario, which is the most restrictive potential receptor scenario; and
- Metals concentrations were compared with the lowest regional default background metals concentrations for soil established by DEQ in accordance with the Development of Oregon Background Metals Concentrations in Soil Technical Report dated March 2013 (default background concentrations).

The 95 percent Upper Confidence Limit (UCL) of the arithmetic mean concentration was calculated using EPA ProUCL Release Version 5.1 software (ProUCL)¹ for each COI that was detected at a concentration exceeding one or more of the relevant screening levels. When the 95 percent UCL was calculated, the Sample Sizes module of ProUCL² was used to confirm that the number of samples in each decision unit provides reasonable precision around estimated mean concentrations. Analytical results for the COIs, 95 percent UCLs, and screening levels are presented in Tables 2 through 5. COIs are considered to not pose an unacceptable risk for off-Site reuse if one of the following conditions apply:

- COIs were not detected at concentrations exceeding the method reporting limit;
- COIs were not detected at concentrations exceeding the DEQ Clean Fill Criteria;
- COIs were detected at concentrations exceeding the DEQ Clean Fill Criteria, but were not detected at concentrations exceeding the lowest default background concentrations for the (only metals);
- COIs were detected at concentrations exceeding the DEQ Clean Fill Criteria and default background concentrations (only metals), but were not detected in soil samples at concentrations exceeding the DEQ RBC for soil ingestion, dermal contact, and inhalation exposure pathways for residential receptors, which is the most stringent DEQ RBC for this pathway; or

¹ UCLs of the arithmetic mean were calculated for normal, lognormal, gamma, and non-parametric distributions at 95 percent confidence. The 95 percent UCL used in this report was selected based on the best fit for the distribution of the data set as identified by ProUCL. For normal distributions, the 95 percent UCL was calculated using a standard one-tailed t-test with the appropriate number of degrees of freedom.

² The Sample Sizes module calculations were performed using a 95 percent confidence interval.



- COIs were detected at concentrations exceeding the DEQ Clean Fill Criteria, default background concentrations (only metals), and DEQ RBCs for residential receptors; however, the 95 Percent UCL does not exceed the default background concentration or DEQ RBC for soil ingestion, dermal contact, and inhalation exposure pathways for residential receptors.

The comparison results for each COI are presented below.

- GRO and DRO were not detected at concentrations exceeding the laboratory reporting limit.
- ORO was detected in some of the soil samples; however, the concentration of ORO in only one soil sample exceeded a DEQ RBC, and the 95 percent UCL for ORO is 605,151 micrograms per kilogram ($\mu\text{g}/\text{kg}$), which is less than the DEQ RBC for residential receptors of 2,800,000 $\mu\text{g}/\text{kg}$. DEQ has not established a Clean Fill Criteria for ORO.
- Arsenic, cadmium, copper, lead, mercury, and silver were detected at concentrations exceeding Clean Fill Criteria in one or more soil samples. However, only arsenic and lead were detected at concentrations exceeding default background concentrations and DEQ RBCs for residential receptors. The 95 percent UCL for arsenic is 7.41 milligrams per kilogram, which is less than the default background concentration, and the 95 percent UCL for lead is 186.1 milligrams per kilogram, which is less than the DEQ RBC for residential receptors.
- PCBs were not detected at concentrations exceeding the Clean Fill Criteria or DEQ RBCs.
- PAHs benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene were detected at concentrations exceeding Clean Fill Criteria in one or more soil samples. Benzo(a)pyrene was detected at concentrations exceeding a DEQ RBC for residential receptors in only soil samples collected from borings 7, 12, 37, and 50, and the 95 percent UCL for benzo(a)pyrene is 351.8 $\mu\text{g}/\text{kg}$, which exceeds DEQ RBCs for residential and urban residential receptors. No other PAHs were detected at concentrations exceeding DEQ RBCs in the soil samples collected from the excavation area. However, because the 95 percent UCL for benzo(a)pyrene exceeds the DEQ RBC for residential receptors, soil from the entirety of the excavation area may not be suitable for off-Site reuse. The estimated areal extents of excavation area soil with concentrations of benzo(a)pyrene less than the DEQ RBC for residential receptors based on the results of the 2016 investigation is shown on Figure 2. Soil within only these extents is proposed for off-Site reuse under a BUD.



4. DEMONSTRATION OF COMPLIANCE WITH THE PERFORMANCE CRITERIA IN OAR 340-093-0280 BASED ON KNOWLEDGE OF THE PROCESS THAT GENERATED THE MATERIAL, PROPERTIES OF THE FINISHED PRODUCT, OR TESTING

The information below demonstrates compliance with the performance criteria in OAR 340-093-0280. Performance criteria are presented in italics.

(1) The applicant has characterized the solid waste and use sufficiently to demonstrate compliance with this rule.

Demonstration that the solid waste has been characterized and is in compliance with OAR 340-093-0280 is included in Item 3.

(2) The use is productive, including: (a) There is an identified or reasonably likely use for the material that is not speculative; (b) The use is a valuable part of a manufacturing process, an effective substitute for a valuable raw material or commercial product, or otherwise authorized by the Department and does not constitute disposal; and (c) The use is in accordance with applicable engineering standards, commercial standards, and agricultural or horticultural practices.

Instead of being disposed of in a landfill, the soil will be used either amended or unamended as residential and non-residential construction fill, utility trench fill, and road base course materials.

(3) The use will not create an adverse impact to public health, safety, welfare, or the environment, including:

(a) The soil is not hazardous waste under Oregon Revised Statute (ORS) 466.005.

The soil does not meet the requirements for hazardous waste under ORS 466.005.

The soil is not the result of any substance or combination of substances intended for defoliating plants or for the preventing, destroying, repelling, or mitigating of insects, fungi, weeds, rodents, or predatory animals, including but not limited to defoliant, desiccants, fungicides, herbicides, insecticides, nematocides, and rodenticides.

The soil is not a residue classified as hazardous and resulting from any process of industry, manufacturing, trade or business, or government; or from the development or recovery of any natural resources, if such residues are by order of the commission, after notice and public hearing.

(b) Until the time a material is used according to a beneficial use determination, the material must be managed, including any storage, transportation, or processing, to prevent releases to the environment or nuisance conditions.



Biohabitat construction at the Site will be conducted under U.S. Army Corps of Engineers Nationwide Permit No. 7, Outfall Structures and Associated Intake Structures, and Nationwide Permit No. 27, Aquatic Habitat Restoration, Establishment, and Enhancement Activities (Federal Register, January 6, 2017, Vol. 82, No. 4), and a Construction Stormwater Control Permit – 1200-C Permit Number 31377 (1200-C Permit) issued by DEQ. A copy of the 1200-C Permit is included as Attachment C. All excavation work will be performed in accordance with the 1200-C Permit and the *Linnton Mitigation Site – Phase 2 Habitat Restoration Erosion and Sediment Control Plan, 10504 NW Sant Helens Road, Portland, Oregon* dated March 20, 2018, prepared for the Site by Waterways Consulting Inc. included in Attachment D. It is anticipated that soil intended for off-Site reuse will be excavated and directly loaded into trucks and not placed in temporary stockpiles. The excavation will be performed in a manner that limits the generation of nuisance dust. Nuisance odors are not associated with the soil.

(c) Hazardous substances in the material meet one of the criteria in this subsection, (i) Do not significantly exceed the concentration in a comparable raw material or commercial product, (ii) Do not exceed naturally occurring background concentrations, or (iii) Will not exceed acceptable risk levels, including evaluation of persistence and potential bioaccumulation, when managed according to a beneficial use determination.

Demonstration that hazardous substances in the material meet criteria (ii) and/or (iii) is included in Item 3.

(d) The use will not result in the increase of a hazardous substance in a sensitive environment.

The soil will not be reused in sensitive environments but will be used for construction of civil infrastructure. Therefore, the use will not result in the increase of a hazardous substance in a sensitive environment.

(e) The use will not create objectionable odors, dust, unsightliness, fire, or other nuisance conditions.

Soil will be used as fill for construction of civil infrastructure. The soil use will be subject to applicable local regulations and permits obtained by the user (i.e., National Pollutant Discharge Elimination System 1200-C permits for construction). As such, the use will not create objectionable odors, dust, unsightliness, fire, or other nuisance conditions.

(f) The use must comply with applicable federal, state, and local regulations.

The soil use will comply with applicable federal, state, and local regulations, and will be subject to applicable industry standards, permits, and codes as defined by the user and permitting authorities.



5. SAMPLING AND ANALYSIS THAT PROVIDES PHYSICAL, CHEMICAL, AND BIOLOGICAL CHARACTERIZATION OF THE MATERIAL AND THAT IDENTIFIES POTENTIAL CONTAMINANTS IN THE MATERIAL OR THE END PRODUCT, AS APPLICABLE

The physical and chemical characterization of the materials is presented in Item 3. Biological activity is not expected in these materials; therefore, no biological characterization has been performed on the materials.

6. A RISK SCREENING COMPARING THE CONCENTRATION OF HAZARDOUS SUBSTANCES IN THE MATERIAL TO EXISTING, DEQ-APPROVED, RISK-BASED SCREENING LEVEL VALUES, AND DEMONSTRATING COMPLIANCE WITH ACCEPTABLE RISK LEVELS

The chemical characterization of Site soil and comparison with DEQ RBCs is presented in Item 3.

7. LOCATION OR TYPE OF LAND USE WHERE THE MATERIAL WILL BE APPLIED, CONSISTENT WITH THE RISK SCENARIOS USED TO EVALUATE RISK

The location and types of use are presented in Item 2. No restrictions are proposed for the use of the material based upon the risk evaluation presented in Item 3.

8. CONTACT INFORMATION OF PROPERTY OWNER(S) IF THIS IS A SITE-SPECIFIC LAND APPLICATION PROPOSAL, INCLUDING NAME, ADDRESS, PHONE NUMBER, EMAIL, SITE ADDRESS, AND SITE COORDINATES (IN LATITUDE AND LONGITUDE)

The material will not be used at a specific location. No restrictions are proposed for the use of the material based upon the risk evaluation presented in Item 3.

9. A DESCRIPTION OF HOW THE MATERIAL WILL BE MANAGED TO MINIMIZE POTENTIAL ADVERSE IMPACTS TO PUBLIC HEALTH, SAFETY, WELFARE, OR THE ENVIRONMENT

Based on the risk evaluation presented in Item 3, the materials do not pose an unacceptable risk for potential human or ecological receptors; therefore, no special material management practices will be followed at the Site or location of end use other than those practices that may be required under relevant permits issued for the Site or location of end use.

10. OTHER INFORMATION THAT DEQ MAY REQUIRE FOR EVALUATING THE APPLICATION

No additional information has been requested by DEQ to evaluate these materials.



CLOSING

Please contact the undersigned at (503) 280-4635 if you have questions or need additional information.

Sincerely,

Farallon Consulting, L.L.C.

A handwritten signature in blue ink, appearing to read "Mark Havighorst".

Mark Havighorst, P.E.
Senior Engineer

Attachments: Figure 1 Site Vicinity Map
Figure 2 Site Plan with Boring Locations
Table 1 Sampling Summary
Table 2 Soil Analytical Results – Total Petroleum Hydrocarbons
Table 3 Soil Analytical Results – Metals
Table 4 Soil Analytical Results – Polycyclic Aromatic Hydrocarbons
Table 5 Soil Analytical Results – Polychlorinated Biphenyls
Attachment A, Application for Solid Waste Beneficial Use Determination
Attachment B, Laboratory Analytical Reports
Attachment C, Construction Stormwater Control Permit – 1200-C Permit Number 31377
Attachment D, Linnton Mitigation Site – Phase 2 Habitat Restoration, Erosion and Sediment Control Plan

cc: Andrew Gregg, Linnton Water Credits (by email)

MH:em

FIGURES

**APPLICATION FOR TIER II SOLID WASTE BENEFICIAL USE
DETERMINATION**

**Linnton Mill Site
10504 Northwest Saint Helens Road, Portland, Oregon**

Farallon PN: 1588-001

SUBCONTRACT ORDER

Apex Laboratories

A6G0036

DA.

11607062

SENDING LABORATORY:

Apex Laboratories
12232 S.W. Garden Place
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 718-0333
Project Manager: Philip Nerenberg

RECEIVING LABORATORY:

Fremont Analytical
3600 Fremont Avenue N.
Seattle, WA 98103
Phone :(206) 352-3790
Fax: (206) 352-7178

Sample Name: B44_062716_27-29 Soil D on jar says 6/23 Sampled: 06/27/16 10:20 (A6G0036-16)

Analysis	Due	Expires	Comments
NWTPH-VPH (Sub)	07/21/16 17:00	07/11/16 10:20	hold time exp Monday 7/11----Fremont Analytical

Containers Supplied:
(C)40 mL VOA - 5035 (MeOH)

Watch HOLD TIME!

STANDARD TAT.

Released By: [Signature] Date: 7/1/16

UPS

Received By: [Signature] Date: 7/8/16 9:30

UPS

Released By: Date:

Received By: Date:



Fremont
Analytical

3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

info@fremontanalytical.com

Apex Laboratories

Philip Nerenberg
12232 S.W. Garden Place
Tigard, OR 97223

RE: A6G0072

Lab ID: 1607098

July 19, 2016

Attention Philip Nerenberg:

Fremont Analytical, Inc. received 1 sample(s) on 7/12/2016 for the analyses presented in the following report.

Volatile Petroleum Hydrocarbons by NWVPH

This report consists of the following:

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

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

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director



CLIENT: Apex Laboratories
Project: A6G0072
Lab Order: 1607098

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1607098-001	B15_062916_33-35	06/29/2016 9:30 AM	07/12/2016 9:36 AM



CLIENT: Apex Laboratories
Project: A6G0072

I. SAMPLE RECEIPT:

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

II. GENERAL REPORTING COMMENTS:

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

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

III. ANALYSES AND EXCEPTIONS:

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



Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

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



Client: Apex Laboratories

Collection Date: 6/29/2016 9:30:00 AM

Project: A6G0072

Lab ID: 1607098-001

Matrix: Soil

Client Sample ID: B15_062916_33-35

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 14227

Analyst: EM

Aliphatic Hydrocarbon (C5-C6)	ND	1.91		mg/Kg	1	7/12/2016 2:36:28 PM
Aliphatic Hydrocarbon (C6-C8)	ND	1.91		mg/Kg	1	7/12/2016 2:36:28 PM
Aliphatic Hydrocarbon (C8-C10)	ND	1.91		mg/Kg	1	7/12/2016 2:36:28 PM
Aliphatic Hydrocarbon (C10-C12)	ND	1.91		mg/Kg	1	7/12/2016 2:36:28 PM
Aromatic Hydrocarbon (C8-C10)	2.62	1.91		mg/Kg	1	7/12/2016 2:36:28 PM
Aromatic Hydrocarbon (C10-C12)	ND	1.91		mg/Kg	1	7/12/2016 2:36:28 PM
Aromatic Hydrocarbon (C12-C13)	ND	1.91		mg/Kg	1	7/12/2016 2:36:28 PM
Surr: 1,4-Difluorobenzene	138	65-140		%Rec	1	7/12/2016 2:36:28 PM
Surr: Bromofluorobenzene	124	65-140		%Rec	1	7/12/2016 2:36:28 PM



Date: 7/19/2016

Work Order: 1607098
 CLIENT: Apex Laboratories
 Project: A6G0072

QC SUMMARY REPORT
Volatile Petroleum Hydrocarbons by NWVPH

Sample ID	MB-14227	SampType:	MBLK	Units:	mg/Kg	Prep Date:	7/12/2016	RunNo:	30645		
Client ID:	MBLKS	Batch ID:	14227	Analysis Date:	7/12/2016	SeqNo:	578007				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	ND	2.00		0	0						
Aliphatic Hydrocarbon (C6-C8)	ND	2.00		0	0						
Aliphatic Hydrocarbon (C8-C10)	ND	2.00		0	0						
Aliphatic Hydrocarbon (C10-C12)	ND	2.00		0	0						
Aromatic Hydrocarbon (C8-C10)	ND	2.00		0	0						
Aromatic Hydrocarbon (C10-C12)	ND	2.00		0	0						
Aromatic Hydrocarbon (C12-C13)	ND	2.00		0	0						
Surr: 1,4-Difluorobenzene	2.72		2.500		109	65	140				
Surr: Bromofluorobenzene	3.10		2.500		124	65	140				

Sample ID	LCS-14227	SampType:	LCS	Units:	mg/Kg	Prep Date:	7/12/2016	RunNo:	30645		
Client ID:	LCSS	Batch ID:	14227	Analysis Date:	7/12/2016	SeqNo:	578006				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	29.7	2.00	30.00	0	99.0	70	130				
Aliphatic Hydrocarbon (C6-C8)	9.58	2.00	10.00	0	95.8	70	130				
Aliphatic Hydrocarbon (C8-C10)	8.46	2.00	10.00	0	84.6	70	130				
Aliphatic Hydrocarbon (C10-C12)	11.6	2.00	10.00	0	116	70	130				
Aromatic Hydrocarbon (C8-C10)	44.9	2.00	40.00	0	112	70	130				
Aromatic Hydrocarbon (C10-C12)	9.05	2.00	10.00	0	90.5	70	130				
Aromatic Hydrocarbon (C12-C13)	11.6	2.00	10.00	0	116	70	130				
Surr: 1,4-Difluorobenzene	3.11		2.500		125	65	140				
Surr: Bromofluorobenzene	3.34		2.500		134	65	140				

Sample ID	1607098-001ADUP	SampType:	DUP	Units:	mg/Kg	Prep Date:	7/12/2016	RunNo:	30645		
Client ID:	B15_062916_33-35	Batch ID:	14227	Analysis Date:	7/12/2016	SeqNo:	578003				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	ND	1.91		0	0			0		25	
Aliphatic Hydrocarbon (C6-C8)	ND	1.91		0	0			0		25	



Date: 7/19/2016

Work Order: 1607098
 CLIENT: Apex Laboratories
 Project: A6G0072

QC SUMMARY REPORT
Volatile Petroleum Hydrocarbons by NWVPH

Sample ID	1607098-001ADUP	SampType:	DUP	Units:	mg/Kg	Prep Date:	7/12/2016	RunNo:	30645		
Client ID:	B15_062916_33-35	Batch ID:	14227			Analysis Date:	7/12/2016	SeqNo:	578003		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C8-C10)	ND	1.91		0	0			0			25
Aliphatic Hydrocarbon (C10-C12)	ND	1.91		0	0			0			25
Aromatic Hydrocarbon (C8-C10)	2.92	1.91		0	0			2.621	10.7		25
Aromatic Hydrocarbon (C10-C12)	ND	1.91		0	0			0			25
Aromatic Hydrocarbon (C12-C13)	ND	1.91		0	0			0			25
Surr: 1,4-Difluorobenzene	3.21		2.390		134	65	140		0		
Surr: Bromofluorobenzene	3.07		2.390		128	65	140		0		

Sample ID	1607085-001BMS	SampType:	MS	Units:	mg/Kg-dry	Prep Date:	7/12/2016	RunNo:	30645		
Client ID:	BATCH	Batch ID:	14227			Analysis Date:	7/12/2016	SeqNo:	577999		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	24.5	1.61	24.16	0	102	70	130				
Aliphatic Hydrocarbon (C6-C8)	8.94	1.61	8.053	1.412	93.5	70	130				
Aliphatic Hydrocarbon (C8-C10)	19.3	1.61	8.053	6.728	156	70	130				S
Aliphatic Hydrocarbon (C10-C12)	58.2	1.61	8.053	50.43	97.0	70	130				
Aromatic Hydrocarbon (C8-C10)	59.8	1.61	32.21	21.63	118	70	130				
Aromatic Hydrocarbon (C10-C12)	93.4	1.61	8.053	85.65	95.8	70	130				
Aromatic Hydrocarbon (C12-C13)	134	1.61	8.053	128.6	71.5	70	130				
Surr: 1,4-Difluorobenzene	2.73		2.013		135	65	140				
Surr: Bromofluorobenzene	2.71		2.013		135	65	140				

NOTES:

S - Outlying QC recoveries were observed. The method is in control as indicated by the LCS.

Sample ID	1607085-001BMSD	SampType:	MSD	Units:	mg/Kg-dry	Prep Date:	7/12/2016	RunNo:	30645		
Client ID:	BATCH	Batch ID:	14227			Analysis Date:	7/12/2016	SeqNo:	578000		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	24.7	1.61	24.16	0	102	70	130	24.53	0.644		30
Aliphatic Hydrocarbon (C6-C8)	10.9	1.61	8.053	1.412	118	70	130	8.941	19.9		30
Aliphatic Hydrocarbon (C8-C10)	15.9	1.61	8.053	6.728	114	70	130	19.30	19.4		30



Work Order: 1607098
CLIENT: Apex Laboratories
Project: A6G0072

QC SUMMARY REPORT

Volatile Petroleum Hydrocarbons by NWVPH

Sample ID: 1607085-001BMSD	SampType: MSD	Units: mg/Kg-dry	Prep Date: 7/12/2016	RunNo: 30645							
Client ID: BATCH	Batch ID: 14227		Analysis Date: 7/12/2016	SeqNo: 578000							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C10-C12)	61.4	1.61	8.053	50.43	136	70	130	58.24	5.30	30	S
Aromatic Hydrocarbon (C8-C10)	66.3	1.61	32.21	21.63	139	70	130	59.78	10.3	30	S
Aromatic Hydrocarbon (C10-C12)	95.5	1.61	8.053	85.65	123	70	130	93.37	2.31	30	
Aromatic Hydrocarbon (C12-C13)	131	1.61	8.053	128.6	30.3	70	130	134.3	2.50	30	S
Surr: 1,4-Difluorobenzene	2.81		2.013		140	65	140		0		
Surr: Bromofluorobenzene	2.81		2.013		140	65	140		0		

NOTES:

S - Outlying QC recoveries were observed. The method is in control as indicated by the LCS.



Client Name: APEX	Work Order Number: 1607098
Logged by: Erica Silva	Date Received: 7/12/2016 9:36:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? UPS

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Required
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >0°C to 10.0°C* Yes No NA

Please refer to Item Information

8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____	Date: _____
By Whom: _____	Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding: _____	
Client Instructions: _____	

19. Additional remarks:

Item Information

Item #	Temp °C
Cooler	3.0
Sample	19.7
Temp Blank	0.8

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

SUBCONTRACT ORDER

Apex Laboratories

A6G0072

PA
1607098

SENDING LABORATORY:

Apex Laboratories
12232 S.W. Garden Place
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 718-0333
Project Manager: Philip Nerenberg

RECEIVING LABORATORY:

Fremont Analytical
3600 Fremont Avenue N.
Seattle, WA 98103
Phone : (206) 352-3790
Fax: (206) 352-7178

Sample Name: B15_062916_33-35

Soil

Sampled: 06/29/16 09:30

(A6G0072-28)

Analysis	Due	Expires	Comments
NWTPH-VPH (Sub)	07/22/16 17:00	07/13/16 09:30	+7/8; Fremont; Watch HOLD time-->expires on 7/13

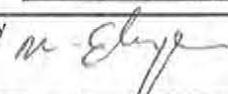
Containers Supplied:
(B)40 mL VOA - 5035 (MeOH)

STANDARD TAT
Watch HOLD TIME.

Ship Monday 7/11

Released By  Date 7/11/16
UPS (Shipper)

UPS (Shipper)

Received By  Date 7/12/16 9:36am

ATTACHMENT C
1200-C PERMIT NUMBER 31377

**APPLICATION FOR TIER II SOLID WASTE BENEFICIAL USE
DETERMINATION
Linnton Mill Site
10504 Northwest Saint Helens Road, Portland, Oregon**

Farallon PN: 1588-001



**GENERAL PERMIT
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
STORMWATER DISCHARGE PERMIT**

Oregon Department of Environmental Quality
811 SW Sixth Avenue, Portland OR 97204
Telephone: (503) 229-5279 or 1-800-452-4011 (toll free in Oregon)

Issued pursuant to ORS 468B.050 and Section 402 of the Federal Clean Water Act

AUTOMATICALLY COVERED CONSTRUCTION ACTIVITIES

SOURCES COVERED BY THIS PERMIT:

- Coverage under this permit is not available in all jurisdictions. Coverage under this permit is available only in specific jurisdictions referred to as "1200-CN Jurisdictions."
- An owner or operator that has received a local permit authorizing construction activities meeting the conditions in Schedule A, conditions 1 or 2 is not required to submit an application for permit coverage to DEQ. The owner or operator must comply with all applicable local jurisdiction permit requirements, codes, and ordinances. The construction activities are automatically covered under the State 1200-CN permit, and are authorized to discharge in accordance with Schedule A, conditions 3 through 6. Construction activities covered under this permit include:
 - Construction activities including clearing, grading, excavation, materials or equipment staging and stockpiling that will disturb one or more acres but less than 5 acres and may discharge to surface waters or conveyance systems leading to surface waters of the state; and
 - Construction activities including clearing, grading, excavation, materials or equipment staging and stockpiling that will disturb less than one acre that are part of a common plan of development or sale if the larger common plan of development or sale will ultimately disturb one acre or more and may discharge to surface waters or conveyance systems leading to surface waters of the state.

DEQ retains the right to require registration (by the owner or operator) of construction activities in these jurisdictions in accordance with the 1200-C permit, when DEQ determines that registration is necessary to ensure protection of water quality.

This permit does not authorize the following:

- In-water or riparian work, that is regulated by other programs and agencies including the Federal Clean Water Act Section 404 permit program, the Oregon Department of State Lands, the Oregon Department of Fish and Wildlife, the U.S. Fish and Wildlife Service, the U.S. Army Corp of Engineers, the National Marine Fisheries Service and the Department of Environmental Quality Section 401 certification program.
- Post-construction stormwater discharges that originate from the site after completion of construction activities and the site has undergone final stabilization.
- Discharges to underground injection control (UIC) systems.

Lydia Emer, Administrator
Operations Division

Effective: December 15, 2015
Expiration Date: December 14, 2020

PERMITTED ACTIVITIES

Until this permit expires, is modified or revoked, the owner/operator of an automatically covered activity is authorized to construct, install, modify, or operate erosion and sediment control measures and stormwater treatment and control facilities, and to discharge stormwater and certain specified non-stormwater discharges to surface waters of the state or conveyance systems leading to surface waters of the state only in conformance with all the requirements, limitations, and conditions set forth in the permit including attached schedules as follows:

CONTENTS

SCHEDULE A CONTROLS AND LIMITATIONS3

- 1. Disturbance Less Than 5 Acres3
- 2. Disturbance Less Than 1 Acre.....4
- 3. Performance Measures.....4
- 4. Authorized Stormwater Discharges4
- 5. Authorized Non-Stormwater Discharges5
- 6. Prohibited Discharges5

SCHEDULE B MINIMUM MONITORING AND RECORDKEEPING REQUIREMENTS5

- 1. Visual Monitoring.....5
- 2. Recordkeeping6

SCHEDULE D SPECIAL CONDITIONS7

- 1. Standard Conditions.....7
- 2. Other Requirements7
- 3. Permit-specific Definitions7

**SCHEDULE A
CONTROLS AND LIMITATIONS**

1. Disturbance Less Than 5 Acres

An owner or operator of construction activities that meet the conditions listed below automatically receives coverage under this permit.

- a. The owner or operator has received a local permit authorizing the construction activities; and
- b. The construction activities are within the jurisdictions listed below; and
 - i. Albany
 - ii. Corvallis
 - iii. Eugene
 - iv. Milwaukie
 - v. Springfield
 - vi. West Linn
 - vii. Wilsonville
 - viii. Clackamas County Water Environment Services, within its two service districts: Clackamas County Service District #1 and the Surface Water Management Agency of Clackamas County.
 - ix. Clean Water Services, including:
 - (1) Banks
 - (2) Beaverton
 - (3) Cornelius
 - (4) Durham
 - (5) Forest Grove
 - (6) Hillsboro
 - (7) King City
 - (8) North Plains
 - (9) Sherwood
 - (10) Tigard
 - (11) Tualatin
 - (12) Washington County within the Urban Growth Boundary
 - x. Portions of Lane County that are in Lane County's MS4 Phase II Permit area
 - xi. Multnomah County (unincorporated portions of the county)
 - xii. Rogue Valley Sewer Services, including:
 - (1) Central Point
 - (2) Phoenix
 - (3) Talent
 - (4) Portions of Jackson County in Rogue Valley Sewer Services' MS4 Phase II Permit area
- c. The construction activity does not have the potential to discharge to a portion of a waterbody listed for turbidity or sedimentation on the most recently EPA-approved Oregon 303(d) list and is not addressed by a Total Maximum Daily Load (TMDL) (listings are available at www.deq.state.or.us/WQ/assessment/assessment.htm); and
- d. Either,
 - i. The construction activities will disturb one or more acres but less than 5 acres over the life of the project; or
 - ii. The construction activities will disturb less than 1 acre and are part of a common plan of development or sale that will ultimately disturb one acre or more.

2. Disturbance Less Than 1 Acre

An owner or operator of construction activities that meet the conditions listed below automatically receives coverage under this permit.

- a. The owner or operator has received a local permit authorizing the construction activities; and
- b. The construction activities are within the jurisdictions listed below; and
 - i. Gresham
 - ii. Troutdale
 - iii. Wood Village
- c. The construction activity does not have the potential to discharge to a portion of a waterbody listed for turbidity or sedimentation on the most recently EPA-approved Oregon 303(d) list and is not addressed by a Total Maximum Daily Load (TMDL) (listings are available at www.deq.state.or.us/WQ/assessment/assessment.htm); and
- d. The construction activities will disturb less than 1 acre and are part of a common plan of development or sale that will ultimately disturb one acre or more.

3. Performance Measures

- a. An owner or operator of automatically covered construction activities must prevent the discharge of significant amounts of sediment to surface waters or conveyance systems leading to surface waters. The following conditions indicate that significant amounts of sediment has left or is likely to leave the site, and are prohibited:
 - i. Earth slides or mud flows;
 - ii. Concentrated flows of stormwater such as rills, rivulets or channels that cause erosion when such flows are not filtered, settled or otherwise treated to remove sediment;
 - iii. Sediment laden or turbid flows of stormwater that are not filtered or settled to remove sediments and turbidity;
 - iv. Deposits of sediment at the construction site in areas that drain to unprotected stormwater inlets or to catch basins that discharge to surface waters. Inlets and catch basins with failing sediment controls due to lack of maintenance or inadequate design are considered unprotected;
 - v. Deposits of sediment from the construction site on any property (including public and private streets) outside of the construction activity covered by this permit. An owner or operator of automatically covered construction activities must not cause or contribute to a violation of in-stream water quality standards.

4. Authorized Stormwater Discharges

Subject to compliance with the terms and conditions of this permit, and provided that all necessary controls are implemented to minimize sediment transport, the following stormwater discharges from construction sites are authorized (unless otherwise prohibited by local ordinances):

- a. Stormwater associated with the automatically covered construction activity described in the "Sources Covered" section of the permit.
- b. Stormwater from support activities at the automatically covered construction site (for example, concrete or asphalt operations, equipment staging yards, material storage areas, excavated material disposal areas and borrow areas) provided:
 - i. The support activity is directly related to the construction site covered by this NPDES permit;
 - ii. The support activity is not a commercial operation serving multiple unrelated construction projects by different owners or operators;
 - iii. The support activity does not operate beyond the completion of the construction activity at the last construction project it supports; and
 - iv. Appropriate control measures are used to ensure compliance with discharge and water quality requirements.

5. Authorized Non-Stormwater Discharges

If the terms and conditions of this permit are met, all necessary controls are implemented to minimize sediment transport, the discharge is not contaminated, and the discharge is not prohibited by local ordinance, the following non-stormwater discharges from construction sites are authorized:

- a. Water from emergency firefighting activities;
- b. Fire hydrant flushings;
- c. Potable water including water line flushing;
- d. Vehicle washing and external building washing that does not use solvents, detergents or hot water;
- e. Pavement wash waters where stockpiled material, spills or leaks of toxic or hazardous materials have not occurred (unless all stockpiled and spilled material has been removed) and where solvents, detergents or hot water are not used. Directing pavement wash waters into any surface water, storm drain inlet, or stormwater conveyance is prohibited, unless the conveyance is connected to a sediment basin, sediment trap, or similarly effective control;
- f. Water used to control dust;
- g. Air conditioning or compressor condensate;
- h. Construction dewatering activities (including groundwater dewatering and well drilling discharge associated with the automatically covered construction activity), provided that:
 - i. The water is land applied in a way that results in complete infiltration with no potential to discharge to a surface water of the state, or
 - ii. Best Management Practices (BMPs) or an approved treatment system is used to ensure compliance with discharge and water quality requirements;
- i. Foundation or footing drains where flows are not contaminated with process materials such as solvents; and
- j. Landscape irrigation.

6. Prohibited Discharges

Discharges of the following are not authorized by this permit:

- a. Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;
- b. Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance; and
- c. Soaps or solvents used in vehicle and equipment washing.
- d. Concrete truck wash-out, hydro-demolition water, and saw-cutting slurry.

SCHEDULE B MINIMUM MONITORING AND RECORDKEEPING REQUIREMENTS

1. Visual Monitoring

Visual monitoring is required when construction will disturb one or more acres.

- a. The following must be monitored visually:
 - i. Discharge point(s). Where discharge points are inaccessible, nearby downstream locations must be inspected to the extent that such inspections are practicable.
 - ii. BMPs.
 - iii. Locations where vehicles enter or exit the site for evidence of off-site sediment tracking.
 - iv. Areas used for storage of materials that are exposed to precipitation for evidence of spillage or other potential to contaminate stormwater runoff.

b. Inspect according to the following schedule:

Site Condition	Minimum Frequency
1. Active period	Weekly when stormwater runoff, including runoff from snow melt, is occurring. At least once every month, regardless of whether stormwater runoff is occurring.
2. Prior to the site becoming inactive or in anticipation of site inaccessibility	Once to ensure that erosion and sediment control measure are in working order. Any necessary maintenance and repair must be made prior to leaving the site.
3. Inactive periods greater than fourteen (14) consecutive calendar days	Once every month.
4. Periods during which the site is inaccessible due to inclement weather	If practical, inspections must occur daily at a relevant and accessible discharge point or downstream location.
5. Periods during which discharge is unlikely due to frozen conditions.	Monthly. Resume monitoring immediately upon melt, or when weather conditions make discharges likely.

c. Documentation of visual monitoring.

All visual monitoring must document the following:

- i. Visual monitoring date and inspector's name.
- ii. The construction site name or address.
- iii. For each discharge location, record:
 - (1) For turbidity and color, describe any apparent color and the clarity of the discharge, and any apparent difference in comparison with the surface waters.
 - (2) Describe any sheen or floating material, or record that it is absent. If present, it could indicate concern about a possible spill or leakage from vehicles or materials storage.
- iv. BMPs that failed or that are in need of maintenance, including erosion and sediment controls, chemical and waste controls, locations where vehicles enter and exit the site, status of areas that are under temporary or final stabilization, soil stockpile areas, and non-stormwater pollution (for example, paints, oils, fuels, or adhesives) controls.
- v. Location(s) where additional BMPs are needed that did not exist at the time of inspection; and
- vi. Corrective action required and implementation dates.

2. Recordkeeping

- a. Visual Monitoring Records Retained Onsite. All inspection records must be retained on site. During inactive periods of greater than seven (7) consecutive calendar days, the records must be retained by the owner/operator but do not need to be at the construction site.
- b. Upon request, the permit registrant must deliver the above records to DEQ, Agent, or the local municipality within three (3) working days of the request.
- c. All records must be retained by the owner/operator for at least three (3) years after project completion.

SCHEDULE D SPECIAL CONDITIONS

1. Standard Conditions

Federal regulations require that the Standard Conditions at 40 CFR §122.41 be applied to all NPDES permits. You are required to comply with those Standard Conditions. In the event of any inconsistency between 40 CFR §122.41 and any other schedule of the permit, Schedules A through D take precedence.

2. Other Requirements

This permit does not relieve the owner or operator from other permitting and licensing requirements. Prior to beginning construction activities, the owner/operator must obtain all other necessary approvals.

3. Permit-specific Definitions

- a. *1200-CN Jurisdiction* means a jurisdiction in which automatic coverage under the Oregon State 1200-CN permit may apply to eligible activities. A list of these jurisdictions is available at <http://www.deq.state.or.us/wq/stormwater/construction.htm>.
- b. *Best Management Practices or BMPs* means schedules of activities, prohibitions of practices, maintenance procedures, and other physical, structural or managerial practices to prevent or reduce the pollution of waters of the state. BMPs include treatment systems, erosion and sediment control, source control, and operating procedures and practices to control site runoff, spillage or leaks, and waste disposal.
- c. *Borrow Area* means the area from which material is excavated to be used as fill material in another area.
- d. *Clean Water Act or CWA* means the Federal Water Pollution Control Act enacted by Public Law 92-500, as amended by Public Laws 95-217, 95-576, 96-483, and 97-117; USC 1251 et seq.
- e. *Conveyance System* means, for the purposes of this permit, a sewer, ditch, pipe, channel, swale or similar component that is designed to carry water; or any combination of such components.
- f. *DEQ* means the Oregon Department of Environmental Quality.
- g. *Dewatering* means the removal and disposal of surface water or groundwater during site construction.
- h. *Discharge Point* means the location where stormwater leaves the site. It includes the location where stormwater is discharged to surface water or a stormwater conveyance system.
- i. *Erosion* means the movement of soil particles or rock fragments by water or wind.
- j. *Fully Stabilized* means the completion of all soil disturbing activities at the site by the owner/operator, and the establishment of a final vegetative cover, or equivalent permanent stabilization measures (such as riprap, gabions or geotextiles) to prevent erosion.
- k. *Hazardous Materials* means the materials defined in 40 CFR part 302 Designation, Reportable Quantities, and Notification.
- l. *Local Jurisdiction* means any county, city, town, or service district.
- m. *National Pollutant Discharge Elimination System or NPDES* means the national program under Section 402 of the Clean Water Act for regulation of point source discharges of pollutants to waters of the United States.
- n. *Owner or operator* means the owner or operator of any "facility or activity" subject to regulation under the NPDES program. Owners or operators may be individuals or other legal entities.
 - i. Operator for the purposes of this permit means any person associated with a construction project that meets either of the following two criteria:
 - (1) The person has operational control over construction plans and specifications, including the authority to make modifications to those plans and specifications; or

- (2) The person has day-to-day operational control of those activities at a project which are necessary to ensure compliance with a ESCP for the site or other permit conditions (for example, they are authorized to direct workers at a site to carry out activities required by the ESCP or comply with other permit conditions).
- ii. Owner for the purposes of this permit means any person with a legal interest in the permitted activities
- o. *Person* means not only individuals, but also includes, corporations, associations, firms, partnerships, joint stock companies, public and municipal corporations, political subdivisions, the state and any agencies thereof, and the federal government and any agencies thereof.
- p. *Pollutant* as defined in 40 CFR §122.2 means dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, domestic sewage sludge (biosolids), munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand, soil, cellar dirt and industrial, municipal, and agricultural waste discharge into water. It does not mean sewage from vessels within the meaning of section 312 of the FWPCA, nor does it include dredged or fill material discharged in accordance with a permit issued under section 404 of the FWPCA.
- q. *Pollution or Water Pollution* as defined by ORS 468B.005(3) means such alteration of the physical, chemical or biological properties of any waters of the state, including change in temperature, taste, color, turbidity, silt or odor of the waters, or such discharge of any liquid, gaseous, solid, radioactive or other substance into any waters of the state, which will or tends to, either by itself or in connection with any other substance, create a public nuisance or which will or tends to render such waters harmful, detrimental or injurious to public health, safety or welfare, or to domestic, commercial, industrial, agricultural, recreational or other legitimate beneficial uses or to livestock, wildlife, fish or other aquatic life or the habitat thereof.
- r. *Sediment* means mineral or organic matter, typically deposited by water, air, or ice.
- s. *Site* means the area where the construction activity is physically located or conducted.
- t. *Stormwater Conveyance* means a sewer, ditch, or swale that is designed to carry stormwater; a stormwater conveyance may also be referred to as a storm drain or storm sewer.
- u. *Stormwater as defined by 40 CFR §122.26(b)(13)* means stormwater runoff, snow melt runoff, and surface runoff and drainage.
- v. *Surface Water* means all water naturally open to the atmosphere (for example, rivers, lakes, reservoirs, ponds, streams, impoundments, oceans, estuaries, springs, etc.).
- w. *Total Maximum Daily Load or TMDL* means a calculation of the maximum amount of a pollutant that a waterbody can receive and still meet state water quality standards. It is the sum of the allowable loads of a single pollutant from all contributing point and nonpoint sources. Percentages of the TMDL are allocated by DEQ to the various pollutant sources.
- x. *Turbidity* means the optical condition of waters caused by suspended or dissolved particles or colloids that scatter and absorb light rays instead of transmitting light in straight lines through the water column. Turbidity may be expressed as nephelometric turbidity units (NTUs) measured with a calibrated turbidity meter.
- y. *Underground Injection Control* means any system, structure, or activity that is created to place fluid below the ground or sub-surface (for example, sumps, infiltration galleries, drywells, trench drains, drill holes, etc.)
- z. *Water or Waters of the State as defined by ORS 468B.005(8)* means lakes, bays, ponds, impounding reservoirs, springs, wells, rivers, streams, creeks, estuaries, marshes, inlets, canals, the Pacific Ocean within the territorial limits of the State of Oregon and all other bodies of surface or underground waters, natural or artificial, inland or coastal, fresh or salt, public or private (except those private waters which do not combine or effect a junction with natural surface or underground waters), which are wholly or partially within or bordering the state or within its jurisdiction.

**ATTACHMENT D
LINNTON MITIGATION SITE – PHASE 2 HABITAT RESTORATION,
EROSION AND SEDIMENT CONTROL PLAN**

**APPLICATION FOR TIER II SOLID WASTE BENEFICIAL USE
DETERMINATION**

**Linnton Mill Site
10504 Northwest Saint Helens Road, Portland, Oregon**

Farallon PN: 1588-001



Client Name: APEX	Work Order Number: 1607062
Logged by: Clare Griggs	Date Received: 7/8/2016 9:30:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? UPS

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Required
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >0°C to 10.0°C* Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Cooler	2.0
Sample	8.8
Temp Blank	0.8

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



Date: 7/15/2016

Work Order: 1607062
 CLIENT: Apex Laboratories
 Project: A6G0036

QC SUMMARY REPORT
Volatile Petroleum Hydrocarbons by NWVPH

Sample ID	1607062-001AMSD	SampType:	MSD	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	30594
Client ID:	B44_062716_27-29	Batch ID:	14208			Analysis Date:	7/8/2016	SeqNo:	577268

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C10-C12)	15.2	1.35	6.757	7.750	110	70	130	19.18	23.1	30	
Aromatic Hydrocarbon (C8-C10)	41.3	1.35	27.03	14.14	101	70	130	44.54	7.51	30	
Aromatic Hydrocarbon (C10-C12)	9.48	1.35	6.757	5.005	66.3	70	130	8.571	10.1	30	S
Aromatic Hydrocarbon (C12-C13)	11.0	1.35	6.757	0.4319	156	70	130	7.447	38.5	30	RS
Surr: 1,4-Difluorobenzene	2.25		1.689		133	65	140		0		
Surr: Bromofluorobenzene	2.33		1.689		138	65	140		0		

NOTES:

S - Spike recovery indicates a possible matrix effect. The method is in control as indicated by the Laboratory Control Sample (LCS).
 R - High RPD observed. The method is in control as indicated by the LCS.



Date: 7/15/2016

Work Order: 1607062
 CLIENT: Apex Laboratories
 Project: A6G0036

QC SUMMARY REPORT
Volatile Petroleum Hydrocarbons by NWVPH

Sample ID	1607059-003BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	7/8/2016	RunNo:	30594		
Client ID:	BATCH	Batch ID:	14208	Analysis Date:	7/8/2016	SeqNo:	577265				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C8-C10)	ND	2.26		0	0			0		25	
Aliphatic Hydrocarbon (C10-C12)	ND	2.26		0	0			0		25	
Aromatic Hydrocarbon (C8-C10)	ND	2.26		0	0			0		25	
Aromatic Hydrocarbon (C10-C12)	ND	2.26		0	0			0		25	
Aromatic Hydrocarbon (C12-C13)	ND	2.26		0	0			0		25	
Surr: 1,4-Difluorobenzene	3.85		2.823		136	65	140		0		
Surr: Bromofluorobenzene	3.94		2.823		140	65	140		0		

Sample ID	1607062-001AMS	SampType:	MS	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	30594		
Client ID:	B44_062716_27-29	Batch ID:	14208	Analysis Date:	7/8/2016	SeqNo:	577267				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	19.8	1.35	20.27	0	97.4	70	130				
Aliphatic Hydrocarbon (C6-C8)	6.46	1.35	6.757	0.9828	81.0	70	130				
Aliphatic Hydrocarbon (C8-C10)	10.9	1.35	6.757	2.722	122	70	130				
Aliphatic Hydrocarbon (C10-C12)	19.2	1.35	6.757	7.750	169	70	130				S
Aromatic Hydrocarbon (C8-C10)	44.5	1.35	27.03	14.14	112	70	130				
Aromatic Hydrocarbon (C10-C12)	8.57	1.35	6.757	5.005	52.8	70	130				S
Aromatic Hydrocarbon (C12-C13)	7.45	1.35	6.757	0.4319	104	70	130				
Surr: 1,4-Difluorobenzene	2.19		1.689		130	65	140				
Surr: Bromofluorobenzene	2.28		1.689		135	65	140				

NOTES:

S - Spike recovery indicates a possible matrix effect. The method is in control as indicated by the Laboratory Control Sample (LCS).

Sample ID	1607062-001AMSD	SampType:	MSD	Units:	mg/Kg	Prep Date:	7/8/2016	RunNo:	30594		
Client ID:	B44_062716_27-29	Batch ID:	14208	Analysis Date:	7/8/2016	SeqNo:	577268				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	20.1	1.35	20.27	0	99.3	70	130	19.75	1.92	30	
Aliphatic Hydrocarbon (C6-C8)	5.14	1.35	6.757	0.9828	61.5	70	130	6.456	22.7	30	S
Aliphatic Hydrocarbon (C8-C10)	9.39	1.35	6.757	2.722	98.7	70	130	10.94	15.2	30	



Date: 7/15/2016

Work Order: 1607062
 CLIENT: Apex Laboratories
 Project: A6G0036

QC SUMMARY REPORT
Volatile Petroleum Hydrocarbons by NWVPH

Sample ID MB-14208		SampType: MBLK		Units: mg/Kg		Prep Date: 7/8/2016		RunNo: 30594			
Client ID: MBLKS		Batch ID: 14208				Analysis Date: 7/8/2016		SeqNo: 577272			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	ND	2.00		0	0						
Aliphatic Hydrocarbon (C6-C8)	ND	2.00		0	0						
Aliphatic Hydrocarbon (C8-C10)	ND	2.00		0	0						
Aliphatic Hydrocarbon (C10-C12)	ND	2.00		0	0						
Aromatic Hydrocarbon (C8-C10)	ND	2.00		0	0						
Aromatic Hydrocarbon (C10-C12)	ND	2.00		0	0						
Aromatic Hydrocarbon (C12-C13)	ND	2.00		0	0						
Surr: 1,4-Difluorobenzene	2.50		2.500		99.9	65	140				
Surr: Bromofluorobenzene	2.95		2.500		118	65	140				

Sample ID LCS-14208		SampType: LCS		Units: mg/Kg		Prep Date: 7/8/2016		RunNo: 30594			
Client ID: LCSS		Batch ID: 14208				Analysis Date: 7/8/2016		SeqNo: 577273			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	30.1	2.00	30.00	0	100	70	130				
Aliphatic Hydrocarbon (C6-C8)	8.64	2.00	10.00	0	86.4	70	130				
Aliphatic Hydrocarbon (C8-C10)	12.1	2.00	10.00	0	121	70	130				
Aliphatic Hydrocarbon (C10-C12)	11.5	2.00	10.00	0	115	70	130				
Aromatic Hydrocarbon (C8-C10)	42.0	2.00	40.00	0	105	70	130				
Aromatic Hydrocarbon (C10-C12)	8.71	2.00	10.00	0	87.1	70	130				
Aromatic Hydrocarbon (C12-C13)	10.6	2.00	10.00	0	106	70	130				
Surr: 1,4-Difluorobenzene	2.55		2.500		102	65	140				
Surr: Bromofluorobenzene	3.01		2.500		121	65	140				

Sample ID 1607059-003BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 7/8/2016		RunNo: 30594			
Client ID: BATCH		Batch ID: 14208				Analysis Date: 7/8/2016		SeqNo: 577265			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aliphatic Hydrocarbon (C5-C6)	ND	2.26		0	0			0		25	
Aliphatic Hydrocarbon (C6-C8)	ND	2.26		0	0			0		25	



Client: Apex Laboratories

Collection Date: 6/27/2016 10:20:00 AM

Project: A6G0036

Lab ID: 1607062-001

Matrix: Soil

Client Sample ID: B44_062716_27-29

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 14208

Analyst: EM

Aliphatic Hydrocarbon (C5-C6)	ND	1.35		mg/Kg	1	7/8/2016 4:14:41 PM
Aliphatic Hydrocarbon (C6-C8)	ND	1.35		mg/Kg	1	7/8/2016 4:14:41 PM
Aliphatic Hydrocarbon (C8-C10)	2.72	1.35		mg/Kg	1	7/8/2016 4:14:41 PM
Aliphatic Hydrocarbon (C10-C12)	7.75	1.35		mg/Kg	1	7/8/2016 4:14:41 PM
Aromatic Hydrocarbon (C8-C10)	14.1	1.35		mg/Kg	1	7/8/2016 4:14:41 PM
Aromatic Hydrocarbon (C10-C12)	5.00	1.35		mg/Kg	1	7/8/2016 4:14:41 PM
Aromatic Hydrocarbon (C12-C13)	ND	1.35		mg/Kg	1	7/8/2016 4:14:41 PM
Surr: 1,4-Difluorobenzene	135	65-140		%Rec	1	7/8/2016 4:14:41 PM
Surr: Bromofluorobenzene	128	65-140		%Rec	1	7/8/2016 4:14:41 PM

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

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



CLIENT: Apex Laboratories
Project: A6G0036

I. SAMPLE RECEIPT:

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

II. GENERAL REPORTING COMMENTS:

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

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

III. ANALYSES AND EXCEPTIONS:

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



CLIENT: Apex Laboratories
Project: A6G0036
Lab Order: 1607062

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1607062-001	B44_062716_27-29	06/27/2016 10:20 AM	07/08/2016 9:30 AM



3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

info@fremontanalytical.com

Apex Laboratories

Philip Nerenberg
12232 S.W. Garden Place
Tigard, OR 97223

RE: A6G0036

Lab ID: 1607062

July 15, 2016

Attention Philip Nerenberg:

Fremont Analytical, Inc. received 1 sample(s) on 7/8/2016 for the analyses presented in the following report.

Volatile Petroleum Hydrocarbons by NWVPH

This report consists of the following:

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

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

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

Farallon Consulting
4380 SW Macadam Ave #500
Portland, OR 97239

Project: **Linnnton Mill**
Project Number: 1588-001
Project Manager: Mark Havighorst

Reported:
08/15/16 17:27

APEX LABS

CHAIN OF CUSTODY

Lab # AG0072
COC # 5015

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

Company: Farallon Consulting Project Mgr: Mark Havighorst

Address: 4380 SW Macadam Ave Ste 500 Portland OR 97239-2100 Phone: 503-210-4625 Fax:

Project Name: Linnnton Mill Project # 1588001

Sampled by: Paul Green and Margaret Driffler Email: mhavighorst@farallon.com

Site Location: OR W/A

Other:

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HClD	NWTPH-Ds	NWTPH-Gs	8260 VOCs Full List	8260 RBDM VOCs	8260 HVOCs	8260 BTEX Volatiles	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TTO	RCRA Metals (6)	TCLP Metals (6)	Al, Sb, As, Ba, Be, Bi, Cd, Ca, Cr, Co, Cu, Fe, Pb, P, Se, Si, Ag, Ni, Ti, V, Zn	TOTAL DSS TCLP	1200-Z		
<u>B5-062916-20-26</u>	<u>42816</u>	<u>1/30/16</u>	<u>1:50</u>	<u>S</u>	<u>3</u>	<u>X</u>	<u>X</u>	<u>X</u>														<u>HOLD ALL</u>	
<u>B5-062916-0-26</u>																							
<u>B5-062916-26-28</u>																							

Normal Turn Around Time (TAT) = 10 Business Days

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

RELEASING BY: Paul Green Date: 8/15/16 RECEIVED BY: Mark Havighorst Date: 8/15/16

Signature: Paul Green Date: 8/15/16 Signature: Mark Havighorst Date: 8/15/16

Printed Name: Paul Green Title: Time Printed Name: Mark Havighorst Title: Time

Company: Farallon Company: Apex Labs

SPECIAL INSTRUCTIONS:
- Site set cleanup for NWTPH-Ds
- H=will comment on results of Ds and/or Gs
- Contract management before analysis
- National Harbor HDLs - report only MDL for SVOCs

Philip Nerenberg

Farallon Consulting
4380 SW Macadam Ave #500
Portland, OR 97239

Project: **Linnton Mill**
Project Number: 1588-001
Project Manager: Mark Havighorst

Reported:
08/15/16 17:27

Company: Farallon Consulting Address: 4380 SW Macadam Ave, Ste 500, Portland, OR 97239 Contact: Paul Cervin		Project Name: Linnton Mill Project No: 1588-001 Project Manager: Mark Havighorst	
Site Location: OR WA Other: _____		Project Name: Linnton Mill Project No: 1588-001 Project Manager: Mark Havighorst	
Sample ID: _____ LAB ID #: _____ DATE: _____ TIME: _____ MATRIX: _____ # OF CONTAINERS: _____		ANALYSIS REQUEST: NWTPH-ICID NWTPH-Dx NWTPH-Gx 8260 VOCs Full List 8260 HVOCs 8260 BTEN VOCs 8270 SVOC 8270 SIM PAHs 8081 PCBs 600 TTO RCRA Metals (8) TCLP Metals (8) AL, Sb, As, Ba, Be, Bi, Cd, Cr, Cu, Fe, Pb, Hg, Mn, Mo, Ni, Se, Si, V, Zn TOTAL DISS. SOLIDS 1200-Z	
TAT Requested (circle): 1 Day 4 DAY 5 DAY 3 Day Other: _____		SPECIAL INSTRUCTIONS: -Site get cleanup for NWTPH-Dx -H-should comment on results of Dx and/or Gx -Contact Havighorst before analysis -Field and H- Lab HPLS - report only DDX for Gx2	
RELINQUISHED BY: _____ RECEIVED BY: _____ Date: 8/15/16		RELINQUISHED BY: _____ RECEIVED BY: _____ Date: _____	
Printed Name: Paul Cervin Title: _____ Company: Apex Labs		Printed Name: _____ Title: _____ Company: _____	

APEX LABS

CHAIN OF CUSTODY

Lab # **AG 0672**
 COC **4 of 5**

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. This analytical report must be reproduced in its entirety.

Farallon Consulting
 4380 SW Macadam Ave #500
 Portland, OR 97239

Project: **Linnton Mill**
 Project Number: 1588-001
 Project Manager: Mark Havighorst

Reported:
 08/15/16 17:27

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333

APEX LABS

CHAIN OF CUSTODY

Lab # AL60072 CUC 3 of 5

Company: Farallon Consulting Project Name: Mark Havighorst Project Name: Linnton Mill Project # 1588001

Address: 4380 SW Macadam Ave Ste 500 Portland, OR 97239 Phone: 503-718-2323 Fax: 503-718-0333 E-mail: mark.havighorst@farallonconsulting.com

Sampled by: Paul Gordin + Margaret Ornelia

Site Location: OR WA Other: _____

SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	SWTPH-HCID	SWTPH-Dx	SWTPH-Gx	8260 VOCs Full List	8260 SVOCs	8260 BTEX VOCs	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TTO	RCRA Metals (B)	TCLP Metals (B)	AL, Sb, As, Ba, Be, Bi, Cd, Cr, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, Zn	Se, Ag, Na, Ti, V, Zn	TOTAL DISS TCLP	1200-Z	
B50-062916-14-20		6/24/16	0840	Soil	5	X	X		H				H	H	X		X					
B50-062916-18-20-1		0840																				
B15-062916-0-10		0930																				
B15-062916-10-20		0930																				
B15-062916-20-30		0930																				
B15-062916-30-33		0930																				
B15-062916-0-33		0930																				
B15-062916-33-35		0930																				
B7-062916-0-10		1000																				
B7-062916-10-13		1000																				

Normal Turn Around Time (TAT) - 10 Business Days: YES NO

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

SAMPLES ARE HELD FOR 30 DAYS

RECEIVED BY: Paul Gordin Date: 8/15/16

RECEIVED BY: Mark Havighorst Date: 8/15/16

SPECIAL INSTRUCTIONS:
 - Still get change for SWTPH-Dx
 - H=hold contingent on results of Dx
 - Contact Havighorst before analysis
 - Portland Helo HPLs report only DDX for 6082

Philip Nerenberg

Farallon Consulting
4380 SW Macadam Ave #500
Portland, OR 97239

Project: **Linnton Mill**
Project Number: 1588-001
Project Manager: Mark Havighorst

Reported:
08/15/16 17:27

APEX LABS

CHAIN OF CUSTODY

LAB # A060072
PAGE 2 of 5

12232 S.W. Garden Place, Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-718-0333		Project Name: Linnton Mill	
Company: Farallon Consulting		Project Manager: Mark Havighorst	
Address: 4380 SW Macadam Ave, Ste 500, Portland, OR 97239		Phone: 503-280-4628	
Sampled by: Paul Gwynn + Margaret O'Sullivan		Project Name: Linnton Mill	
Site Location: OR W/A		Project # 1588-001	
Other: _____		Company: Apex Laboratories	
SAMPLE ID		ANALYSIS REQUEST	
LAB ID #	DATE	MATRIX	# OF CONTAINERS
B37-062816-0-10	8/16/16	soil	3
B37-062816-10-11	8/16/16		
B37-062816-0-11	8/20/16		
B37-062816-11-13	8/20/16		
B50-062916-0-10	8/29/16		
B50-062916-0-10-1			
B50-062916-10-14			
B50-062916-10-15-1			
B50-062916-0-15-1			
Normal Turn Around Time (TAT) = 10 Business Days		YES NO	
TAT Requested (circle)		1 Day 2 Day 3 Day	
4 DAY 5 DAY Other: _____		SPECIAL INSTRUCTIONS:	
SAMPLER ARE HELD FOR 30 DAYS		-Site set cleanup for NWTPH-Dx	
RECEIVED BY: _____		-Hold copybook on results of Dx and/or Gx	
Date: 8/15/16		-Contact Havighorst before analysis	
Signature: Mark Havighorst		-Final Harbor MDLs - report only DDx for 8082	
Project Name: Linnton Mill		RECEIVED BY: _____	
Date: 8/15/16		Date: _____	
Signature: _____		Signature: _____	
Printed Name: _____		Printed Name: _____	
Time: _____		Time: _____	
Company: Apex Labs		Company: _____	

Philip Nerenberg

Apex Labs

AMENDED REPORT

12232 S.W. Garden Place
Tigard, OR 97223
503-718-2323 Phone
503-718-0333 Fax

Farallon Consulting
4380 SW Macadam Ave #500
Portland, OR 97239

Project: **Linton Mill**
Project Number: 1588-001
Project Manager: Mark Havighorst

Reported:
08/15/16 17:27

Company: **Farallon Consulting, LLC** Project Mgr: **Mark Havighorst** Project Name: **Linton Mill** Lab # **AG60072** PO# **1588-001**
Address: **4380 SW Macadam Ave #500, Portland, OR 97239** Phone: **503-280-4628** Fax: **503-718-0333**
Sampled by: **Margaret Oscillo & Paul Garcia** ANALYSIS REQUEST

Site Location:	OR	WA																			
Other:	<input checked="" type="checkbox"/>	<input type="checkbox"/>																			
SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Ds	NWTPH-Gs	8260 VOCs Full List	8260 HVCs	8260 BTEX VOCs	8270 SVOC	8270 SIM PAHs	8082 PCBs	600 TTO	RCRA Metals (6)	TCLP Metals (6)	Al, Sb, As, Ba, Be, Cd, Cu, Cr, Co, Pb, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Ti, V, Zn	TOTAL DISS TCLP	1200-Z	
B16-062816-0-10			1500	S	3		X	X	H							X		X			
B16-062816-10-14																					
B16-062816-0-19																					
B16-062816-19-21																					
B16-062816-0-2																					
B16-062816-7-3																					
B20-062816-0-10																					
B20-062816-10-13																					
B20-062816-0-13																					
B20-062816-13-15																					

Normal Turn Around Time (TAT) = 10 Business Days

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

SAMPLES ARE HELD FOR 30 DAYS

RECEIVED BY: **Mark Havighorst** Date: **8-17-16**

RECEIVED BY: **Paul Garcia** Date: **8-17-16**

Company: **Farallon** Project: **Linton Mill**

SPECIAL INSTRUCTIONS:
- Silica gel cleanup for NWTPH-Ds
- H = hold, contingent on results of Ds analysis for contact, Havighorst before analysis
- Portland Harbor HQLs report only DDx for 8082.

APEX LABS

CHAIN OF CUSTODY

Lab #

AG60072

Page 1 of 5

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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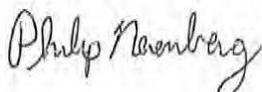
Farallon Consulting
4380 SW Macadam Ave #500
Portland, OR 97239

Project: **Linnton Mill**
Project Number: 1588-001
Project Manager: Mark Havighorst

Reported:
08/15/16 17:27

Results qualified as reported below the MRL may include a potential high bias if associated with a B or B-02 qualified blank. B and B-02 qualifications are not applied to J qualified results reported below the MRL.

- 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).



Farallon Consulting

4380 SW Macadam Ave #500
Portland, OR 97239

Project: **Linnton Mill**

Project Number: 1588-001
Project Manager: Mark Havighorst

Reported:

08/15/16 17:27

Notes and Definitions

Qualifiers:

- C-05 Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.
- 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-03 The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.
- F-12 The result for this hydrocarbon range is primarily due to the presence of individual analyte peaks in the quantitation range. No fuel pattern detected.
- F-13 The chromatographic pattern does not resemble the fuel standard used for quantitation
- M-02 Due to matrix interference, this analyte cannot be accurately quantified. The reported result is estimated.
- P-10 Result estimated due to the presence of multiple PCB Aroclors and/or matrix interference.
- Q-05 Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- Q-41 Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- V-15 Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.

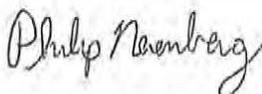
Notes and Conventions:

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. Results listed as 'wet' or without 'dry' designation are not dry weight corrected.
- RPD Relative Percent Difference
- MDL If MDL is not listed, data has been evaluated to the Method Reporting Limit only.
- WMSC Water Miscible Solvent Correction has been applied to Results and MRLs for volatiles soil samples per EPA 8000C.
- Batch QC Unless specifically requested, this report contains only results for Batch QC derived from client samples included in this report. All analyses were performed with the appropriate Batch QC (including Sample Duplicates, Matrix Spikes and/or Matrix Spike Duplicates) in order to meet or exceed method and regulatory requirements. Any exceptions to this will be qualified in this report. Complete Batch QC results are available upon request. In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) is analyzed to demonstrate accuracy and precision of the extraction and analysis.
- Blank Policy Apex assesses blank data for potential high bias down to a level equal to 1/2 the method reporting limit (MRL), except for conventional chemistry and HClD analyses which are assessed only to the MRL. Sample results flagged with a B or B-02 qualifier are potentially biased high if they 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.

For accurate comparison of volatile results to the level found in the blank; water sample results should be divided by the dilution factor, and soil sample results should be divided by 1/50 of the sample dilution to account for the sample prep factor.

Apex Laboratories

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Philip Nerenberg, Lab Director

Farallon Consulting
 4380 SW Macadam Ave #500
 Portland, OR 97239

Project: **Linnton Mill**
 Project Number: 1588-001
 Project Manager: Mark Havighorst

Reported:
 08/15/16 17:27

SAMPLE PREPARATION INFORMATION

Percent Dry Weight

Prep: Total Solids (Dry Weight)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A6G0072-21	Soil	EPA 8000C	06/29/16 08:40	07/06/16 12:47	1N/A/1N/A	1N/A/1N/A	NA
A6G0072-22	Soil	EPA 8000C	06/29/16 08:40	07/06/16 12:47	1N/A/1N/A	1N/A/1N/A	NA
A6G0072-27	Soil	EPA 8000C	06/29/16 09:30	07/06/16 12:47	1N/A/1N/A	1N/A/1N/A	NA
A6G0072-28	Soil	EPA 8000C	06/29/16 09:30	07/06/16 12:47	1N/A/1N/A	1N/A/1N/A	NA
A6G0072-31	Soil	EPA 8000C	06/29/16 10:00	07/06/16 12:47	1N/A/1N/A	1N/A/1N/A	NA
A6G0072-32	Soil	EPA 8000C	06/29/16 10:00	07/06/16 12:47	1N/A/1N/A	1N/A/1N/A	NA
A6G0072-37	Soil	EPA 8000C	06/29/16 10:40	07/06/16 12:47	1N/A/1N/A	1N/A/1N/A	NA
A6G0072-38	Soil	EPA 8000C	06/29/16 10:40	07/06/16 12:47	1N/A/1N/A	1N/A/1N/A	NA
A6G0072-42	Soil	EPA 8000C	06/29/16 11:30	07/06/16 12:47	1N/A/1N/A	1N/A/1N/A	NA
A6G0072-43	Soil	EPA 8000C	06/29/16 11:30	07/06/16 12:47	1N/A/1N/A	1N/A/1N/A	NA

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Philip Nerenberg, Lab Director

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Farallon Consulting
4380 SW Macadam Ave #500
Portland, OR 97239

Project: **Linnton Mill**
Project Number: 1588-001
Project Manager: Mark Havighorst

Reported:
08/15/16 17:27

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
A6G0072-05	Soil	EPA 6020A	06/28/16 15:10	07/12/16 18:51	0.475g/50mL	0.5g/50mL	1.05
A6G0072-06	Soil	EPA 6020A	06/28/16 15:10	07/12/16 18:51	0.507g/50mL	0.5g/50mL	0.99
A6G0072-09	Soil	EPA 6020A	06/28/16 15:40	07/12/16 18:51	0.502g/50mL	0.5g/50mL	1.00
A6G0072-10	Soil	EPA 6020A	06/28/16 15:40	07/12/16 18:51	0.496g/50mL	0.5g/50mL	1.01
A6G0072-13	Soil	EPA 6020A	06/28/16 16:20	07/12/16 18:51	0.515g/50mL	0.5g/50mL	0.97
A6G0072-14	Soil	EPA 6020A	06/28/16 16:20	07/12/16 18:51	0.467g/50mL	0.5g/50mL	1.07
A6G0072-19	Soil	EPA 6020A	06/29/16 08:40	07/12/16 18:51	0.482g/50mL	0.5g/50mL	1.04
A6G0072-20	Soil	EPA 6020A	06/29/16 08:40	07/12/16 18:51	0.49g/50mL	0.5g/50mL	1.02
Batch: 6070334							
A6G0072-21	Soil	EPA 6020A	06/29/16 08:40	07/13/16 08:01	0.483g/50mL	0.5g/50mL	1.04
A6G0072-22	Soil	EPA 6020A	06/29/16 08:40	07/13/16 08:01	0.484g/50mL	0.5g/50mL	1.03
A6G0072-27	Soil	EPA 6020A	06/29/16 09:30	07/13/16 08:01	0.506g/50mL	0.5g/50mL	0.99
A6G0072-28	Soil	EPA 6020A	06/29/16 09:30	07/13/16 08:01	0.501g/50mL	0.5g/50mL	1.00
A6G0072-31	Soil	EPA 6020A	06/29/16 10:00	07/13/16 08:01	0.505g/50mL	0.5g/50mL	0.99
A6G0072-32	Soil	EPA 6020A	06/29/16 10:00	07/13/16 08:01	0.503g/50mL	0.5g/50mL	0.99
A6G0072-37	Soil	EPA 6020A	06/29/16 10:40	07/13/16 08:01	0.483g/50mL	0.5g/50mL	1.04
A6G0072-38	Soil	EPA 6020A	06/29/16 10:40	07/13/16 08:01	0.502g/50mL	0.5g/50mL	1.00
A6G0072-42	Soil	EPA 6020A	06/29/16 11:30	07/13/16 08:01	0.482g/50mL	0.5g/50mL	1.04
A6G0072-43	Soil	EPA 6020A	06/29/16 11:30	07/13/16 08:01	0.515g/50mL	0.5g/50mL	0.97

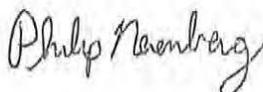
Percent Dry Weight

Prep: Total Solids (Dry Weight)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6070122							
A6G0072-03	Soil	EPA 8000C	06/28/16 15:00	07/06/16 12:47	1N/A/1N/A	1N/A/1N/A	NA
A6G0072-04	Soil	EPA 8000C	06/28/16 15:00	07/06/16 12:47	1N/A/1N/A	1N/A/1N/A	NA
A6G0072-05	Soil	EPA 8000C	06/28/16 15:10	07/06/16 12:47	1N/A/1N/A	1N/A/1N/A	NA
A6G0072-06	Soil	EPA 8000C	06/28/16 15:10	07/06/16 12:47	1N/A/1N/A	1N/A/1N/A	NA
A6G0072-09	Soil	EPA 8000C	06/28/16 15:40	07/06/16 12:47	1N/A/1N/A	1N/A/1N/A	NA
A6G0072-10	Soil	EPA 8000C	06/28/16 15:40	07/06/16 12:47	1N/A/1N/A	1N/A/1N/A	NA
A6G0072-13	Soil	EPA 8000C	06/28/16 16:20	07/06/16 12:47	1N/A/1N/A	1N/A/1N/A	NA
A6G0072-14	Soil	EPA 8000C	06/28/16 16:20	07/06/16 12:47	1N/A/1N/A	1N/A/1N/A	NA
A6G0072-19	Soil	EPA 8000C	06/29/16 08:40	07/06/16 12:47	1N/A/1N/A	1N/A/1N/A	NA
A6G0072-20	Soil	EPA 8000C	06/29/16 08:40	07/06/16 12:47	1N/A/1N/A	1N/A/1N/A	NA

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Philip Nerenberg, Lab Director

Farallon Consulting
4380 SW Macadam Ave #500
Portland, OR 97239

Project: **Linnton Mill**
Project Number: 1588-001
Project Manager: Mark Havighorst

Reported:
08/15/16 17:27

SAMPLE PREPARATION INFORMATION

Organochlorine Pesticides by EPA 8081B

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6070282							
A6G0072-04RE1	Soil	EPA 8081B	06/28/16 15:00	07/11/16 08:39	10.59g/10mL	10g/5mL	1.89
A6G0072-04RE1	Soil	EPA 8081B	06/28/16 15:00	07/12/16 07:21	10.59g/10mL	10g/5mL	1.89
A6G0072-28RE1	Soil	EPA 8081B	06/29/16 09:30	07/11/16 08:39	10.52g/10mL	10g/5mL	1.90
A6G0072-28RE1	Soil	EPA 8081B	06/29/16 09:30	07/12/16 07:21	10.52g/10mL	10g/5mL	1.90

Prep: EPA 3546/3640A (GPC)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6070361							
A6G0072-38RE1	Soil	EPA 8081B	06/29/16 10:40	07/12/16 15:29	9.8g/10mL	10g/5mL	2.04
A6G0072-43RE1	Soil	EPA 8081B	06/29/16 11:30	07/12/16 15:29	10.67g/10mL	10g/5mL	1.87
A6G0072-43RE2	Soil	EPA 8081B	06/29/16 11:30	07/12/16 15:29	10.67g/10mL	10g/5mL	1.87

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6070315							
A6G0072-03	Soil	EPA 8270D (SIM)	06/28/16 15:00	07/12/16 15:27	11.56g/5mL	10g/5mL	0.87
A6G0072-13	Soil	EPA 8270D (SIM)	06/28/16 16:20	07/12/16 15:27	11.94g/5mL	10g/5mL	0.84
Batch: 6070327							
A6G0072-20	Soil	EPA 8270D (SIM)	06/29/16 08:40	07/13/16 06:35	11.03g/5mL	10g/5mL	0.91
A6G0072-21	Soil	EPA 8270D (SIM)	06/29/16 08:40	07/13/16 06:35	11.25g/5mL	10g/5mL	0.89
A6G0072-22	Soil	EPA 8270D (SIM)	06/29/16 08:40	07/13/16 06:35	11.15g/5mL	10g/5mL	0.90
A6G0072-28	Soil	EPA 8270D (SIM)	06/29/16 09:30	07/13/16 06:35	10.86g/5mL	10g/5mL	0.92
A6G0072-31	Soil	EPA 8270D (SIM)	06/29/16 10:00	07/13/16 06:35	11.55g/5mL	10g/5mL	0.87
A6G0072-32	Soil	EPA 8270D (SIM)	06/29/16 10:00	07/13/16 06:35	11.49g/5mL	10g/5mL	0.87
A6G0072-42	Soil	EPA 8270D (SIM)	06/29/16 11:30	07/13/16 06:35	10.93g/5mL	10g/5mL	0.92

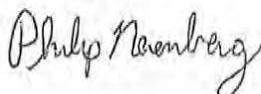
Total Metals by EPA 6020 (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6070325							
A6G0072-03	Soil	EPA 6020A	06/28/16 15:00	07/12/16 18:51	0.46g/50mL	0.5g/50mL	1.09
A6G0072-04	Soil	EPA 6020A	06/28/16 15:00	07/12/16 18:51	0.501g/50mL	0.5g/50mL	1.00

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Philip Nerenberg, Lab Director

Farallon Consulting 4380 SW Macadam Ave #500 Portland, OR 97239	Project: Linnton Mill Project Number: 1588-001 Project Manager: Mark Havighorst	Reported: 08/15/16 17:27
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SAMPLE PREPARATION INFORMATION

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
A6G0072-13	Soil	NWTPH-Gx (MS)	06/28/16 16:20	06/28/16 16:20	5.71g/5mL	5g/5mL	0.88
A6G0072-14	Soil	NWTPH-Gx (MS)	06/28/16 16:20	06/28/16 16:20	5.25g/5mL	5g/5mL	0.95
A6G0072-19	Soil	NWTPH-Gx (MS)	06/29/16 08:40	06/29/16 08:40	6.26g/5mL	5g/5mL	0.80
A6G0072-20	Soil	NWTPH-Gx (MS)	06/29/16 08:40	06/29/16 08:40	6.63g/5mL	5g/5mL	0.75
A6G0072-21	Soil	NWTPH-Gx (MS)	06/29/16 08:40	06/29/16 08:40	5.97g/5mL	5g/5mL	0.84
A6G0072-22	Soil	NWTPH-Gx (MS)	06/29/16 08:40	06/29/16 08:40	6.29g/5mL	5g/5mL	0.80
A6G0072-27	Soil	NWTPH-Gx (MS)	06/29/16 09:30	06/29/16 09:30	6.28g/5mL	5g/5mL	0.80
A6G0072-28	Soil	NWTPH-Gx (MS)	06/29/16 09:30	06/29/16 09:30	6.02g/5mL	5g/5mL	0.83
A6G0072-31	Soil	NWTPH-Gx (MS)	06/29/16 10:00	06/29/16 10:00	6.49g/5mL	5g/5mL	0.77
A6G0072-32	Soil	NWTPH-Gx (MS)	06/29/16 10:00	06/29/16 10:00	6.83g/5mL	5g/5mL	0.73
A6G0072-37	Soil	NWTPH-Gx (MS)	06/29/16 10:40	06/29/16 10:40	6.73g/5mL	5g/5mL	0.74
A6G0072-38	Soil	NWTPH-Gx (MS)	06/29/16 10:40	06/29/16 10:40	6.6g/5mL	5g/5mL	0.76
A6G0072-42	Soil	NWTPH-Gx (MS)	06/29/16 11:30	06/29/16 11:30	6g/5mL	5g/5mL	0.83
A6G0072-43	Soil	NWTPH-Gx (MS)	06/29/16 11:30	06/29/16 11:30	6.35g/5mL	5g/5mL	0.79

BTEX Compounds by EPA 8260B

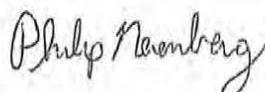
Prep: EPA 5035A							
Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6070113							
A6G0072-28	Soil	5035/8260B	06/29/16 09:30	06/29/16 09:30	6.02g/5mL	5g/5mL	0.83

Polychlorinated Biphenyls by EPA 8082A

Prep: EPA 3546							
Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6070313							
A6G0072-03	Soil	EPA 8082A	06/28/16 15:00	07/12/16 14:59	10.17g/5mL	10g/5mL	0.98
A6G0072-13	Soil	EPA 8082A	06/28/16 16:20	07/12/16 14:59	10.56g/5mL	10g/5mL	0.95
A6G0072-20	Soil	EPA 8082A	06/29/16 08:40	07/12/16 14:59	10.47g/5mL	10g/5mL	0.96
A6G0072-21	Soil	EPA 8082A	06/29/16 08:40	07/12/16 14:59	10.74g/5mL	10g/5mL	0.93
A6G0072-22	Soil	EPA 8082A	06/29/16 08:40	07/12/16 14:59	10.69g/5mL	10g/5mL	0.94
A6G0072-28	Soil	EPA 8082A	06/29/16 09:30	07/12/16 14:59	10.4g/5mL	10g/5mL	0.96
A6G0072-31	Soil	EPA 8082A	06/29/16 10:00	07/12/16 14:59	10.5g/5mL	10g/5mL	0.95
A6G0072-32	Soil	EPA 8082A	06/29/16 10:00	07/12/16 14:59	10.81g/5mL	10g/5mL	0.93
A6G0072-42	Soil	EPA 8082A	06/29/16 11:30	07/12/16 14:59	10.42g/5mL	10g/5mL	0.96

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Philip Nerenberg, Lab Director

Farallon Consulting
4380 SW Macadam Ave #500
Portland, OR 97239

Project: **Linnton Mill**
Project Number: 1588-001
Project Manager: Mark Havighorst

Reported:
08/15/16 17:27

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Cleanup

Prep: EPA 3546 (Fuels) w/Silica Gel+Acid (NWTPH)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6070089							
A6G0072-03	Soil	NWTPH-Dx/SG	06/28/16 15:00	07/05/16 15:17	11.85g/5mL	10g/5mL	0.84
A6G0072-04	Soil	NWTPH-Dx/SG	06/28/16 15:00	07/05/16 15:17	11.68g/5mL	10g/5mL	0.86
A6G0072-05	Soil	NWTPH-Dx/SG	06/28/16 15:10	07/05/16 15:17	10.72g/5mL	10g/5mL	0.93
A6G0072-06	Soil	NWTPH-Dx/SG	06/28/16 15:10	07/05/16 15:17	10.46g/5mL	10g/5mL	0.96
A6G0072-09	Soil	NWTPH-Dx/SG	06/28/16 15:40	07/05/16 15:17	10.77g/5mL	10g/5mL	0.93
A6G0072-10	Soil	NWTPH-Dx/SG	06/28/16 15:40	07/05/16 15:17	10.77g/5mL	10g/5mL	0.93
A6G0072-13	Soil	NWTPH-Dx/SG	06/28/16 16:20	07/05/16 15:17	11.46g/5mL	10g/5mL	0.87
A6G0072-14	Soil	NWTPH-Dx/SG	06/28/16 16:20	07/05/16 15:17	10.37g/5mL	10g/5mL	0.96
A6G0072-19	Soil	NWTPH-Dx/SG	06/29/16 08:40	07/05/16 15:17	11.73g/5mL	10g/5mL	0.85
A6G0072-20	Soil	NWTPH-Dx/SG	06/29/16 08:40	07/05/16 15:18	11.28g/5mL	10g/5mL	0.89
A6G0072-21	Soil	NWTPH-Dx/SG	06/29/16 08:40	07/05/16 15:18	10.13g/5mL	10g/5mL	0.99
A6G0072-22	Soil	NWTPH-Dx/SG	06/29/16 08:40	07/05/16 15:18	11.52g/5mL	10g/5mL	0.87
A6G0072-27	Soil	NWTPH-Dx/SG	06/29/16 09:30	07/05/16 15:18	11.51g/5mL	10g/5mL	0.87
A6G0072-28	Soil	NWTPH-Dx/SG	06/29/16 09:30	07/05/16 15:18	11.23g/5mL	10g/5mL	0.89
A6G0072-31	Soil	NWTPH-Dx/SG	06/29/16 10:00	07/05/16 15:18	10.89g/5mL	10g/5mL	0.92
A6G0072-32	Soil	NWTPH-Dx/SG	06/29/16 10:00	07/05/16 15:18	11.64g/5mL	10g/5mL	0.86
Batch: 6070141							
A6G0072-37	Soil	NWTPH-Dx/SG	06/29/16 10:40	07/06/16 17:38	10.67g/5mL	10g/5mL	0.94
A6G0072-38	Soil	NWTPH-Dx/SG	06/29/16 10:40	07/06/16 17:38	10.95g/5mL	10g/5mL	0.91
A6G0072-42	Soil	NWTPH-Dx/SG	06/29/16 11:30	07/06/16 17:38	11.8g/5mL	10g/5mL	0.85
A6G0072-43	Soil	NWTPH-Dx/SG	06/29/16 11:30	07/06/16 17:38	11.45g/5mL	10g/5mL	0.87

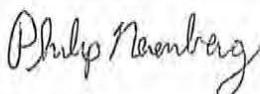
Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

Prep: EPA 5035A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 6070105							
A6G0072-04	Soil	NWTPH-Gx (MS)	06/28/16 15:00	06/28/16 15:00	6.44g/5mL	5g/5mL	0.78
A6G0072-06	Soil	NWTPH-Gx (MS)	06/28/16 15:10	06/28/16 15:10	5.66g/5mL	5g/5mL	0.88
A6G0072-09	Soil	NWTPH-Gx (MS)	06/28/16 15:40	06/28/16 15:40	5.35g/5mL	5g/5mL	0.94
A6G0072-10	Soil	NWTPH-Gx (MS)	06/28/16 15:40	06/28/16 15:40	5.56g/5mL	5g/5mL	0.90
Batch: 6070113							
A6G0072-03	Soil	NWTPH-Gx (MS)	06/28/16 15:00	06/28/16 15:00	6.66g/5mL	5g/5mL	0.75
A6G0072-05	Soil	NWTPH-Gx (MS)	06/28/16 15:10	06/28/16 15:10	5.104g/5mL	5g/5mL	0.98

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Philip Nerenberg, Lab Director

Farallon Consulting 4380 SW Macadam Ave #500 Portland, OR 97239	Project: Linnton Mill Project Number: 1588-001 Project Manager: Mark Havighorst	Reported: 08/15/16 17:27
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QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight												
--------------------	--	--	--	--	--	--	--	--	--	--	--	--

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	------	--------------	---------------	------	-------------	-----	-----------	-------

Batch 6070122 - Total Solids (Dry Weight)	Soil
--	-------------

Duplicate (6070122-DUP3) Prepared: 07/06/16 12:47 Analyzed: 07/07/16 09:05

QC Source Sample: B50_062916_0-18-1 (A6G0072-20)
 EPA 8000C

% Solids	78.9	---	1.00	% by Weight	1	---	79.3	---	---	0.5	10%	
----------	------	-----	------	-------------	---	-----	------	-----	-----	-----	-----	--

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



Farallon Consulting
4380 SW Macadam Ave #500
Portland, OR 97239

Project: **Linnton Mill**
Project Number: 1588-001
Project Manager: Mark Havighorst

Reported:
08/15/16 17:27

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070334 - EPA 3051A						Soil						
Blank (6070334-BLK1)						Prepared: 07/13/16 08:01 Analyzed: 07/15/16 21:03						
EPA 6020A												
Arsenic	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	---
Barium	ND	---	1.00	"	"	---	---	---	---	---	---	---
Cadmium	ND	---	0.200	"	"	---	---	---	---	---	---	---
Chromium	ND	---	1.00	"	"	---	---	---	---	---	---	---
Copper	ND	---	1.00	"	"	---	---	---	---	---	---	---
Lead	ND	---	0.200	"	"	---	---	---	---	---	---	---
Mercury	ND	---	0.0800	"	"	---	---	---	---	---	---	---
Selenium	ND	---	1.00	"	"	---	---	---	---	---	---	---
Silver	ND	---	0.200	"	"	---	---	---	---	---	---	---
LCS (6070334-BS1)						Prepared: 07/13/16 08:01 Analyzed: 07/15/16 21:05						
EPA 6020A												
Arsenic	49.6	---	1.00	mg/kg wet	10	50.0	---	99	80-120%	---	---	---
Barium	50.2	---	1.00	"	"	"	---	100	"	---	---	---
Cadmium	49.6	---	0.200	"	"	"	---	99	"	---	---	---
Chromium	50.1	---	1.00	"	"	"	---	100	"	---	---	---
Copper	50.4	---	1.00	"	"	"	---	101	"	---	---	---
Lead	51.0	---	0.200	"	"	"	---	102	"	---	---	---
Mercury	1.07	---	0.0800	"	"	1.00	---	107	"	---	---	---
Selenium	26.4	---	1.00	"	"	25.0	---	106	"	---	---	---
Silver	24.9	---	0.200	"	"	"	---	100	"	---	---	---

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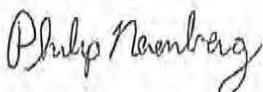
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070325 - EPA 3051A						Soil						
Matrix Spike (6070325-MS2)						Prepared: 07/12/16 18:51		Analyzed: 07/14/16 23:06				
QC Source Sample: B50_062916_0-18-1 (A6G0072-20)												
Mercury	1.46	---	0.111	mg/kg dry	"	1.39	0.0906	98	"	---	---	
Selenium	39.8	---	2.78	"	"	34.7	ND	115	"	---	---	
Silver	35.2	---	0.278	"	"	"	0.154	101	"	---	---	



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Portland, OR 97239

Project: **Linnton Mill**
Project Number: 1588-001
Project Manager: Mark Havighorst

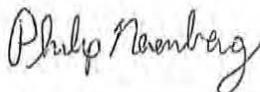
Reported:
08/15/16 17:27

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070325 - EPA 3051A						Soil						
Blank (6070325-BLK1)						Prepared: 07/12/16 18:51 Analyzed: 07/14/16 21:33						
EPA 6020A												
Arsenic	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	---
Barium	ND	---	1.00	"	"	---	---	---	---	---	---	---
Cadmium	ND	---	0.200	"	"	---	---	---	---	---	---	---
Chromium	ND	---	1.00	"	"	---	---	---	---	---	---	---
Copper	ND	---	1.00	"	"	---	---	---	---	---	---	---
Lead	ND	---	1.00	"	"	---	---	---	---	---	---	---
Mercury	ND	---	0.0800	"	"	---	---	---	---	---	---	---
Selenium	ND	---	2.00	"	"	---	---	---	---	---	---	---
Silver	ND	---	0.200	"	"	---	---	---	---	---	---	---
LCS (6070325-BS1)						Prepared: 07/12/16 18:51 Analyzed: 07/14/16 21:36						
EPA 6020A												
Arsenic	52.0	---	1.00	mg/kg wet	10	50.0	---	104	80-120%	---	---	---
Barium	52.1	---	1.00	"	"	"	---	104	"	---	---	---
Cadmium	52.5	---	0.200	"	"	"	---	105	"	---	---	---
Chromium	50.5	---	1.00	"	"	"	---	101	"	---	---	---
Copper	51.9	---	1.00	"	"	"	---	104	"	---	---	---
Lead	53.5	---	1.00	"	"	"	---	107	"	---	---	---
Mercury	1.12	---	0.0800	"	"	1.00	---	112	"	---	---	---
Selenium	29.0	---	2.00	"	"	25.0	---	116	"	---	---	---
Silver	26.4	---	0.200	"	"	"	---	106	"	---	---	---
Matrix Spike (6070325-MS2)						Prepared: 07/12/16 18:51 Analyzed: 07/14/16 23:06						
QC Source Sample: B50_062916_0-18-1 (A6G0072-20)												
EPA 6020A												
Arsenic	72.9	---	1.39	mg/kg dry	10	69.5	3.36	100	75-125%	---	---	---
Barium	178	---	1.39	"	"	"	117	88	"	---	---	---
Cadmium	72.0	---	0.278	"	"	"	0.270	103	"	---	---	---
Chromium	94.1	---	1.39	"	"	"	20.1	107	"	---	---	---
Copper	93.6	---	1.39	"	"	"	23.7	101	"	---	---	---
Lead	85.6	---	1.39	"	"	"	19.6	95	"	---	---	---

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Project: **Linnton Mill**
Project Number: 1588-001
Project Manager: Mark Havighorst

Reported:
08/15/16 17:27

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070327 - EPA 3546						Soil						
LCS (6070327-BS1)						Prepared: 07/13/16 06:35			Analyzed: 07/15/16 14:05			
Fluoranthene	752	---	10.0	"	"	"	---	94	50-127%	---	---	
Fluorene	730	---	10.0	"	"	"	---	91	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	570	---	10.0	"	"	"	---	71	45-133%	---	---	
Naphthalene	705	---	10.0	"	"	"	---	88	35-123%	---	---	
Phenanthrene	720	---	10.0	"	"	"	---	90	50-121%	---	---	
Pyrene	740	---	10.0	"	"	"	---	93	47-127%	---	---	

Surr: 2-Fluorobiphenyl (Surr) Recovery: 84% Limits: 44-120% Dilution: 1x
 p-Terphenyl-d14 (Surr) 119% 54-127% "

Matrix Spike (6070327-MS1)

Prepared: 07/13/16 06:35 Analyzed: 07/17/16 00:41

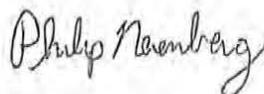
QC Source Sample: B5_062916_0-26 (A6G0072-42)

EPA 8270D (SIM)

Acenaphthene	864	---	11.7	ug/kg dry	1	939	ND	92	40-122%	---	---	
Acenaphthylene	858	---	11.7	"	"	"	38.1	87	32-132%	---	---	
Anthracene	927	---	11.7	"	"	"	51.8	93	47-123%	---	---	
Benz(a)anthracene	881	---	11.7	"	"	"	72.6	86	49-126%	---	---	
Benzo(a)pyrene	897	---	11.7	"	"	"	95.5	85	45-129%	---	---	
Benzo(b)fluoranthene	904	---	11.7	"	"	"	173	78	45-132%	---	---	
Benzo(k)fluoranthene	870	---	11.7	"	"	"	60.5	86	47-132%	---	---	
Benzo(g,h,i)perylene	582	---	11.7	"	"	"	126	49	43-134%	---	---	
Chrysene	924	---	11.7	"	"	"	134	84	50-124%	---	---	
Dibenz(a,h)anthracene	697	---	11.7	"	"	"	32.4	71	45-134%	---	---	
Fluoranthene	1010	---	11.7	"	"	"	154	91	50-127%	---	---	
Fluorene	906	---	11.7	"	"	"	ND	96	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	654	---	11.7	"	"	"	164	52	45-133%	---	---	
Naphthalene	815	---	11.7	"	"	"	37.6	83	35-123%	---	---	
Phenanthrene	903	---	11.7	"	"	"	101	85	50-121%	---	---	
Pyrene	1040	---	11.7	"	"	"	151	94	47-127%	---	---	

Surr: 2-Fluorobiphenyl (Surr) Recovery: 92% Limits: 44-120% Dilution: 1x
 p-Terphenyl-d14 (Surr) 95% 54-127% "

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QUALITY CONTROL (QC) SAMPLE RESULTS

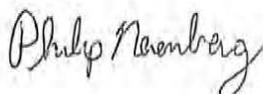
Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dil	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070327 - EPA 3546						Soil						
Blank (6070327-BLK1)						Prepared: 07/13/16 06:35 Analyzed: 07/15/16 13:36						
EPA 8270D (SIM)												
Acenaphthene	ND	---	8.33	ug/kg wet	1	---	---	---	---	---	---	---
Acenaphthylene	ND	---	8.33	"	"	---	---	---	---	---	---	---
Anthracene	ND	---	8.33	"	"	---	---	---	---	---	---	---
Benz(a)anthracene	ND	---	8.33	"	"	---	---	---	---	---	---	---
Benzo(a)pyrene	ND	---	8.33	"	"	---	---	---	---	---	---	---
Benzo(b)fluoranthene	ND	---	8.33	"	"	---	---	---	---	---	---	---
Benzo(k)fluoranthene	ND	---	8.33	"	"	---	---	---	---	---	---	---
Benzo(g,h,i)perylene	ND	---	8.33	"	"	---	---	---	---	---	---	---
Chrysene	ND	---	8.33	"	"	---	---	---	---	---	---	---
Dibenz(a,h)anthracene	ND	---	8.33	"	"	---	---	---	---	---	---	---
Fluoranthene	ND	---	8.33	"	"	---	---	---	---	---	---	---
Fluorene	ND	---	8.33	"	"	---	---	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	ND	---	8.33	"	"	---	---	---	---	---	---	---
Naphthalene	ND	---	8.33	"	"	---	---	---	---	---	---	---
Phenanthrene	ND	---	8.33	"	"	---	---	---	---	---	---	---
Pyrene	ND	---	8.33	"	"	---	---	---	---	---	---	---
<i>Surr: 2-Fluorobiphenyl (Surr)</i>		<i>Recovery: 89 %</i>		<i>Limits: 44-120 %</i>		<i>Dilution: 1x</i>						
<i>p-Terphenyl-d14 (Surr)</i>		<i>126 %</i>		<i>54-127 %</i>		<i>"</i>						

LCS (6070327-BS1)						Prepared: 07/13/16 06:35 Analyzed: 07/15/16 14:05						
EPA 8270D (SIM)												
Acenaphthene	712	---	10.0	ug/kg wet	1	800	---	89	40-122%	---	---	---
Acenaphthylene	692	---	10.0	"	"	"	---	86	32-132%	---	---	---
Anthracene	783	---	10.0	"	"	"	---	98	47-123%	---	---	---
Benz(a)anthracene	683	---	10.0	"	"	"	---	85	49-126%	---	---	---
Benzo(a)pyrene	675	---	10.0	"	"	"	---	84	45-129%	---	---	---
Benzo(b)fluoranthene	707	---	10.0	"	"	"	---	88	45-132%	---	---	---
Benzo(k)fluoranthene	793	---	10.0	"	"	"	---	99	47-132%	---	---	---
Benzo(g,h,i)perylene	581	---	10.0	"	"	"	---	73	43-134%	---	---	---
Chrysene	720	---	10.0	"	"	"	---	90	50-124%	---	---	---
Dibenz(a,h)anthracene	610	---	10.0	"	"	"	---	76	45-134%	---	---	---

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Philip Nerenberg, Lab Director

Farallon Consulting 4380 SW Macadam Ave #500 Portland, OR 97239	Project: Linnton Mill Project Number: 1588-001 Project Manager: Mark Havighorst	Reported: 08/15/16 17:27
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QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	------	--------------	---------------	------	-------------	-----	-----------	-------

Batch 6070315 - EPA 3546

Soil

LCS (6070315-BS1)				Prepared: 07/12/16 15:27		Analyzed: 07/13/16 10:11						
Fluoranthene	636	---	10.0	"	"	"	---	80	50-127%	---	---	
Fluorene	636	---	10.0	"	"	"	---	80	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	668	---	10.0	"	"	"	---	84	45-133%	---	---	
Naphthalene	627	---	10.0	"	"	"	---	78	35-123%	---	---	
Phenanthrene	617	---	10.0	"	"	"	---	77	50-121%	---	---	
Pyrene	638	---	10.0	"	"	"	---	80	47-127%	---	---	

Surr: 2-Fluorobiphenyl (Surr) Recovery: 87 % Limits: 44-120 % Dilution: 1x
 p-Terphenyl-d14 (Surr) 88 % 54-127 % "

Matrix Spike (6070315-MS1)

Prepared: 07/12/16 15:27 Analyzed: 07/13/16 15:34

QC Source Sample: B37_062816_0-11 (A6G0072-13)

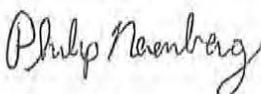
EPA 8270D (SIM)

Acenaphthene	626	---	9.80	ug/kg dry	1	784	ND	80	40-122%	---	---	
Acenaphthylene	630	---	9.80	"	"	"	25.7	77	32-132%	---	---	
Anthracene	782	---	9.80	"	"	"	76.2	90	47-123%	---	---	
Benz(a)anthracene	791	---	9.80	"	"	"	108	87	49-126%	---	---	
Benzo(a)pyrene	796	---	9.80	"	"	"	131	85	45-129%	---	---	
Benzo(b)fluoranthene	769	---	9.80	"	"	"	150	79	45-132%	---	---	
Benzo(k)fluoranthene	782	---	9.80	"	"	"	55.9	93	47-132%	---	---	
Benzo(g,h,i)perylene	609	---	9.80	"	"	"	115	63	43-134%	---	---	
Chrysene	827	---	9.80	"	"	"	164	85	50-124%	---	---	
Dibenz(a,h)anthracene	636	---	9.80	"	"	"	11.4	80	45-134%	---	---	
Fluoranthene	921	---	9.80	"	"	"	363	71	50-127%	---	---	
Fluorene	687	---	9.80	"	"	"	17.0	85	43-125%	---	---	
Indeno(1,2,3-cd)pyrene	615	---	9.80	"	"	"	99.9	66	45-133%	---	---	
Naphthalene	546	---	9.80	"	"	"	ND	70	35-123%	---	---	
Phenanthrene	845	---	9.80	"	"	"	328	66	50-121%	---	---	
Pyrene	949	---	9.80	"	"	"	423	67	47-127%	---	---	

Surr: 2-Fluorobiphenyl (Surr) Recovery: 76 % Limits: 44-120 % Dilution: 1x
 p-Terphenyl-d14 (Surr) 94 % 54-127 % "

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Philip Nerenberg, Lab Director

Farallon Consulting
4380 SW Macadam Ave #500
Portland, OR 97239

Project: **Linnton Mill**
Project Number: 1588-001
Project Manager: Mark Havighorst

Reported:
08/15/16 17:27

QUALITY CONTROL (QC) SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070315 - EPA 3546												
Soil												
Blank (6070315-BLK1) Prepared: 07/12/16 15:27 Analyzed: 07/13/16 09:42												
EPA 8270D (SIM)												
Acenaphthene	ND	---	8.33	ug/kg wet	1	---	---	---	---	---	---	---
Acenaphthylene	ND	---	8.33	"	"	---	---	---	---	---	---	---
Anthracene	ND	---	8.33	"	"	---	---	---	---	---	---	---
Benz(a)anthracene	ND	---	8.33	"	"	---	---	---	---	---	---	---
Benzo(a)pyrene	ND	---	8.33	"	"	---	---	---	---	---	---	---
Benzo(b)fluoranthene	ND	---	8.33	"	"	---	---	---	---	---	---	---
Benzo(k)fluoranthene	ND	---	8.33	"	"	---	---	---	---	---	---	---
Benzo(g,h,i)perylene	ND	---	8.33	"	"	---	---	---	---	---	---	---
Chrysene	ND	---	8.33	"	"	---	---	---	---	---	---	---
Dibenz(a,h)anthracene	ND	---	8.33	"	"	---	---	---	---	---	---	---
Fluoranthene	ND	---	8.33	"	"	---	---	---	---	---	---	---
Fluorene	ND	---	8.33	"	"	---	---	---	---	---	---	---
Indeno(1,2,3-cd)pyrene	ND	---	8.33	"	"	---	---	---	---	---	---	---
Naphthalene	ND	---	8.33	"	"	---	---	---	---	---	---	---
Phenanthrene	ND	---	8.33	"	"	---	---	---	---	---	---	---
Pyrene	ND	---	8.33	"	"	---	---	---	---	---	---	---

Surr: 2-Fluorobiphenyl (Surr)
p-Terphenyl-d14 (Surr)

Recovery: 98 % Limits: 44-120 %
102 % 54-127 %

Dilution: 1x
"

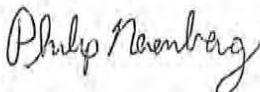
LCS (6070315-BS1)

Prepared: 07/12/16 15:27 Analyzed: 07/13/16 10:11

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
EPA 8270D (SIM)												
Acenaphthene	637	---	10.0	ug/kg wet	1	800	---	80	40-122%	---	---	---
Acenaphthylene	621	---	10.0	"	"	"	---	78	32-132%	---	---	---
Anthracene	683	---	10.0	"	"	"	---	85	47-123%	---	---	---
Benz(a)anthracene	622	---	10.0	"	"	"	---	78	49-126%	---	---	---
Benzo(a)pyrene	624	---	10.0	"	"	"	---	78	45-129%	---	---	---
Benzo(b)fluoranthene	600	---	10.0	"	"	"	---	75	45-132%	---	---	---
Benzo(k)fluoranthene	659	---	10.0	"	"	"	---	82	47-132%	---	---	---
Benzo(g,h,i)perylene	527	---	10.0	"	"	"	---	66	43-134%	---	---	---
Chrysene	688	---	10.0	"	"	"	---	86	50-124%	---	---	---
Dibenz(a,h)anthracene	565	---	10.0	"	"	"	---	71	45-134%	---	---	---

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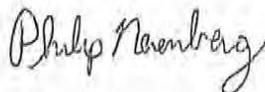
Philip Nerenberg, Lab Director

Farallon Consulting 4380 SW Macadam Ave #500 Portland, OR 97239	Project: Linnton Mill Project Number: 1588-001 Project Manager: Mark Havighorst	Reported: 08/15/16 17:27
--	--	-----------------------------

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070361 - EPA 3546/3640A (GPC)						Soil						
Blank (6070361-BLK1)			Prepared: 07/12/16 15:29			Analyzed: 07/14/16 11:45			C-05			
EPA 8081B												
4,4'-DDD	ND	---	1.82	ug/kg wet	1	---	---	---	---	---	---	
4,4'-DDE	ND	---	1.82	"	"	---	---	---	---	---	---	
4,4'-DDT	ND	---	1.82	"	"	---	---	---	---	---	---	
<i>Surr: 2,4,5,6-TCMX (Surr)</i>			Recovery: 61 %		Limits: 42-129 %		Dilution: 1x					
<i>Decachlorobiphenyl (Surr)</i>			91 %		65-151 %		"					
Blank (6070361-BLK2)			Prepared: 07/12/16 15:29			Analyzed: 08/03/16 19:47			C-05			
EPA 8081B												
2,4'-DDD	ND	---	1.82	ug/kg wet	1	---	---	---	---	---	---	
2,4'-DDE	ND	---	1.82	"	"	---	---	---	---	---	---	
2,4'-DDT	ND	---	1.82	"	"	---	---	---	---	---	---	
LCS (6070361-BS1)			Prepared: 07/12/16 15:29			Analyzed: 07/14/16 12:02			C-05			
EPA 8081B												
4,4'-DDD	49.0	---	2.00	ug/kg wet	1	50.0	---	98	56-139%	---	---	
4,4'-DDE	40.1	---	2.00	"	"	"	---	80	56-134%	---	---	
4,4'-DDT	47.1	---	2.00	"	"	"	---	94	50-141%	---	---	
<i>Surr: 2,4,5,6-TCMX (Surr)</i>			Recovery: 66 %		Limits: 42-129 %		Dilution: 1x					
<i>Decachlorobiphenyl (Surr)</i>			88 %		65-151 %		"					
Matrix Spike (6070361-MS1)			Prepared: 07/12/16 15:29			Analyzed: 07/14/16 13:29			C-05			
QC Source Sample: B5_062916_26-28 (A6G0072-43RE1)												
EPA 8081B												
4,4'-DDD	64.5	---	2.47	ug/kg dry	1	61.7	ND	105	56-139%	---	---	
4,4'-DDE	58.5	---	2.47	"	"	"	ND	95	56-134%	---	---	
4,4'-DDT	69.7	---	2.47	"	"	"	ND	113	50-141%	---	---	
<i>Surr: 2,4,5,6-TCMX (Surr)</i>			Recovery: 73 %		Limits: 42-129 %		Dilution: 1x					
<i>Decachlorobiphenyl (Surr)</i>			91 %		65-151 %		"					



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Project: **Linnton Mill**
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Project Manager: Mark Havighorst

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08/15/16 17:27

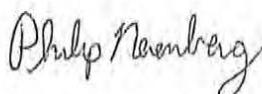
QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070282 - EPA 3546						Soil						
Duplicate (6070282-DUP1)						Prepared: 07/12/16 07:21 Analyzed: 07/13/16 10:50						C-05
QC Source Sample: B16_062816_19-21 (A6G0072-04RE1)												
cis-Chlordane	ND	---	2.52	"	"	---	ND	---	---	---	30%	
trans-Chlordane	ND	---	2.52	"	"	---	ND	---	---	---	30%	
4,4'-DDD	ND	---	2.52	"	"	---	ND	---	---	---	30%	
4,4'-DDE	ND	---	2.52	"	"	---	ND	---	---	---	30%	
4,4'-DDT	ND	---	2.52	"	"	---	ND	---	---	---	30%	
Dieldrin	ND	---	2.52	"	"	---	ND	---	---	---	30%	
Endosulfan I	ND	---	2.52	"	"	---	ND	---	---	---	30%	
Endosulfan II	ND	---	2.52	"	"	---	ND	---	---	---	30%	
Endosulfan sulfate	ND	---	2.52	"	"	---	ND	---	---	---	30%	
Endrin	ND	---	2.52	"	"	---	ND	---	---	---	30%	
Endrin Aldehyde	ND	---	2.52	"	"	---	ND	---	---	---	30%	
Endrin ketone	ND	---	2.52	"	"	---	ND	---	---	---	30%	
Heptachlor	ND	---	2.52	"	"	---	ND	---	---	---	30%	
Heptachlor epoxide	ND	---	2.52	"	"	---	ND	---	---	---	30%	
Methoxychlor	ND	---	7.56	"	"	---	ND	---	---	---	30%	
Chlordane (Technical)	ND	---	75.6	"	"	---	ND	---	---	---	30%	
Toxaphene (Total)	ND	---	75.6	"	"	---	ND	---	---	---	30%	

Surr: 2,4,5,6-TCMX (Surr) Recovery: 79 % Limits: 42-129 % Dilution: 1x
Decachlorobiphenyl (Surr) 81 % 65-151 % "

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Philip Nerenberg, Lab Director

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4380 SW Macadam Ave #500
Portland, OR 97239

Project: **Linnton Mill**
Project Number: 1588-001
Project Manager: Mark Havighorst

Reported:
08/15/16 17:27

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070282 - EPA 3546						Soil						
LCS (6070282-BS1)						Prepared: 07/12/16 07:21 Analyzed: 07/13/16 09:40						
EPA 8081B												
Aldrin	43.2	---	2.00	ug/kg wet	1	50.0	---	86	45-136%	---	---	
alpha-BHC	47.1	---	2.00	"	"	"	---	94	45-137%	---	---	
beta-BHC	47.6	---	2.00	"	"	"	---	95	50-136%	---	---	
delta-BHC	54.8	---	2.00	"	"	"	---	110	47-139%	---	---	
gamma-BHC (Lindane)	46.6	---	2.00	"	"	"	---	93	49-135%	---	---	
cis-Chlordane	45.6	---	2.00	"	"	"	---	91	54-133%	---	---	
trans-Chlordane	46.6	---	2.00	"	"	"	---	93	53-135%	---	---	
4,4'-DDD	52.6	---	2.00	"	"	"	---	105	56-139%	---	---	
4,4'-DDE	48.2	---	2.00	"	"	"	---	96	56-134%	---	---	
4,4'-DDT	58.5	---	2.00	"	"	"	---	117	50-141%	---	---	
Dieldrin	48.6	---	2.00	"	"	"	---	97	56-136%	---	---	
Endosulfan I	47.4	---	2.00	"	"	"	---	95	52-132%	---	---	
Endosulfan II	54.3	---	2.00	"	"	"	---	109	53-134%	---	---	
Endosulfan sulfate	61.6	---	2.00	"	"	"	---	123	55-136%	---	---	Q-41
Endrin	51.7	---	2.00	"	"	"	---	103	56-140%	---	---	
Endrin Aldehyde	54.0	---	2.00	"	"	"	---	108	35-137%	---	---	
Endrin ketone	64.2	---	2.00	"	"	"	---	128	55-136%	---	---	Q-41
Heptachlor	47.3	---	2.00	"	"	"	---	95	47-136%	---	---	
Heptachlor epoxide	41.6	---	2.00	"	"	"	---	83	52-136%	---	---	
Methoxychlor	60.0	---	6.00	"	"	"	---	120	52-143%	---	---	
<i>Surr: 2,4,5,6-TCMX (Surr)</i>			<i>Recovery: 81 %</i>		<i>Limits: 42-129 %</i>		<i>Dilution: 1x</i>					
<i>Decachlorobiphenyl (Surr)</i>			<i>98 %</i>		<i>65-151 %</i>		<i>"</i>					

Duplicate (6070282-DUP1)

Prepared: 07/12/16 07:21 Analyzed: 07/13/16 10:50

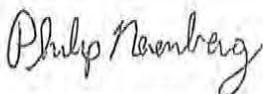
C-05

QC Source Sample: B16_062816_19-21 (A6G0072-04RE1)

EPA 8081B												
Aldrin	ND	---	2.52	ug/kg dry	1	---	ND	---	---	---	30%	
alpha-BHC	ND	---	2.52	"	"	---	ND	---	---	---	30%	
beta-BHC	ND	---	2.52	"	"	---	ND	---	---	---	30%	
delta-BHC	ND	---	2.52	"	"	---	ND	---	---	---	30%	
gamma-BHC (Lindane)	ND	---	2.52	"	"	---	ND	---	---	---	30%	

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Philip Nerenberg, Lab Director

Farallon Consulting
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Portland, OR 97239

Project: **Linnton Mill**
Project Number: 1588-001
Project Manager: Mark Havighorst

Reported:
08/15/16 17:27

QUALITY CONTROL (QC) SAMPLE RESULTS

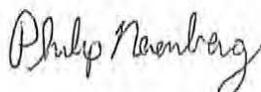
Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070282 - EPA 3546						Soil						
Blank (6070282-BLK1)						Prepared: 07/12/16 07:21 Analyzed: 07/13/16 09:23						C-05
EPA 8081B												
Aldrin	ND	---	1.82	ug/kg wet	1	---	---	---	---	---	---	
alpha-BHC	ND	---	1.82	"	"	---	---	---	---	---	---	
beta-BHC	ND	---	1.82	"	"	---	---	---	---	---	---	
delta-BHC	ND	---	1.82	"	"	---	---	---	---	---	---	
gamma-BHC (Lindane)	ND	---	1.82	"	"	---	---	---	---	---	---	
cis-Chlordane	ND	---	1.82	"	"	---	---	---	---	---	---	
trans-Chlordane	ND	---	1.82	"	"	---	---	---	---	---	---	
4,4'-DDD	ND	---	1.82	"	"	---	---	---	---	---	---	
4,4'-DDE	ND	---	1.82	"	"	---	---	---	---	---	---	
4,4'-DDT	ND	---	1.82	"	"	---	---	---	---	---	---	
Dieldrin	ND	---	1.82	"	"	---	---	---	---	---	---	
Endosulfan I	ND	---	1.82	"	"	---	---	---	---	---	---	
Endosulfan II	ND	---	1.82	"	"	---	---	---	---	---	---	
Endosulfan sulfate	ND	---	1.82	"	"	---	---	---	---	---	---	
Endrin	ND	---	1.82	"	"	---	---	---	---	---	---	
Endrin Aldehyde	ND	---	1.82	"	"	---	---	---	---	---	---	
Endrin ketone	ND	---	1.82	"	"	---	---	---	---	---	---	
Heptachlor	ND	---	1.82	"	"	---	---	---	---	---	---	
Heptachlor epoxide	ND	---	1.82	"	"	---	---	---	---	---	---	
Methoxychlor	ND	---	5.45	"	"	---	---	---	---	---	---	
Chlordane (Technical)	ND	---	54.5	"	"	---	---	---	---	---	---	
Toxaphene (Total)	ND	---	54.5	"	"	---	---	---	---	---	---	

Surr: 2,4,5,6-TCMX (Surr) Recovery: 91 % Limits: 42-129 % Dilution: 1x
Decachlorobiphenyl (Surr) 92 % 65-151 % "

Blank (6070282-BLK2)						Prepared: 07/12/16 07:21 Analyzed: 08/03/16 18:55						C-07
EPA 8081B												
2,4'-DDD	ND	---	1.82	ug/kg wet	1	---	---	---	---	---	---	
2,4'-DDE	ND	---	1.82	"	"	---	---	---	---	---	---	
2,4'-DDT	ND	---	1.82	"	"	---	---	---	---	---	---	

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Philip Nerenberg, Lab Director

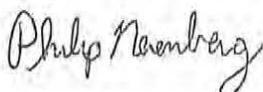
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Farallon Consulting 4380 SW Macadam Ave #500 Portland, OR 97239	Project: Linnton Mill Project Number: 1588-001 Project Manager: Mark Havighorst	Reported: 08/15/16 17:27
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QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070313 - EPA 3546						Soil						
Blank (6070313-BLK1)						Prepared: 07/12/16 14:57 Analyzed: 07/13/16 10:57						C-07
EPA 8082A												
Aroclor 1016	ND	---	9.09	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1221	ND	---	9.09	"	"	---	---	---	---	---	---	
Aroclor 1232	ND	---	9.09	"	"	---	---	---	---	---	---	
Aroclor 1242	ND	---	9.09	"	"	---	---	---	---	---	---	
Aroclor 1248	ND	---	9.09	"	"	---	---	---	---	---	---	
Aroclor 1254	ND	---	9.09	"	"	---	---	---	---	---	---	
Aroclor 1260	ND	---	9.09	"	"	---	---	---	---	---	---	
<i>Surr: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 102 %</i>		<i>Limits: 72-126 %</i>		<i>Dilution: 1x</i>						
LCS (6070313-BS1)						Prepared: 07/12/16 14:57 Analyzed: 07/13/16 11:14						C-07
EPA 8082A												
Aroclor 1016	181	---	10.0	ug/kg wet	1	250	---	72	47-134%	---	---	
Aroclor 1260	242	---	10.0	"	"	"	---	97	53-140%	---	---	
<i>Surr: Decachlorobiphenyl (Surr)</i>		<i>Recovery: 103 %</i>		<i>Limits: 72-126 %</i>		<i>Dilution: 1x</i>						



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Project: **Linnton Mill**
Project Number: 1588-001
Project Manager: Mark Havighorst

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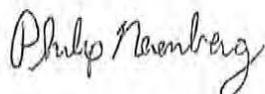
QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070113 - EPA 5035A						Soil						
Duplicate (6070113-DUP2)						Prepared: 06/29/16 10:40 Analyzed: 07/06/16 20:15						
QC Source Sample: B46_062916_0-32 (A6G0072-37)												
Toluene	ND	---	59.2	"	"	---	52.1	---	---	***	30%	Q-05
Ethylbenzene	ND	---	29.6	"	"	---	ND	---	---	---	30%	
Xylenes, total	ND	---	88.8	"	"	---	ND	---	---	---	30%	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 109 %</i>		<i>Limits: 70-130 %</i>		<i>Dilution: 1x</i>					
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>		<i>70-130 %</i>		<i>"</i>					
<i>4-Bromofluorobenzene (Surr)</i>			<i>95 %</i>		<i>70-130 %</i>		<i>"</i>					

Matrix Spike (6070113-MS1)						Prepared: 06/29/16 11:30 Analyzed: 07/06/16 21:53						
QC Source Sample: B5_062916_26-28 (A6G0072-43)												
5035/8260B												
Benzene	1530	---	14.2	ug/kg dry	50	1420	ND	108	65-135%	---	---	
Toluene	1420	---	70.9	"	"	"	ND	100	"	---	---	
Ethylbenzene	1540	---	35.4	"	"	"	ND	109	"	---	---	
Xylenes, total	4280	---	106	"	"	4250	ND	101	"	---	---	
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 105 %</i>		<i>Limits: 70-130 %</i>		<i>Dilution: 1x</i>					
<i>Toluene-d8 (Surr)</i>			<i>97 %</i>		<i>70-130 %</i>		<i>"</i>					
<i>4-Bromofluorobenzene (Surr)</i>			<i>89 %</i>		<i>70-130 %</i>		<i>"</i>					

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QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	------	--------------	---------------	------	-------------	-----	-----------	-------

Batch 6070113 - EPA 5035A

Soil

Blank (6070113-BLK1)			Prepared: 07/06/16 12:49 Analyzed: 07/06/16 14:52									
5035/8260B												
Benzene	ND	---	6.67	ug/kg wet	50	---	---	---	---	---	---	---
Toluene	ND	---	33.3	"	"	---	---	---	---	---	---	---
Ethylbenzene	ND	---	16.7	"	"	---	---	---	---	---	---	---
Xylenes, total	ND	---	50.0	"	"	---	---	---	---	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 104 %</i>	<i>Limits: 70-130 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>103 %</i>	<i>70-130 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>101 %</i>	<i>70-130 %</i>		<i>"</i>						

LCS (6070113-BS1)

Prepared: 07/06/16 12:49 Analyzed: 07/06/16 14:03

5035/8260B												
Benzene	1030	---	10.0	ug/kg wet	50	1000	---	103	65-135%	---	---	---
Toluene	966	---	50.0	"	"	"	---	97	"	---	---	---
Ethylbenzene	1060	---	25.0	"	"	"	---	106	"	---	---	---
Xylenes, total	3010	---	75.0	"	"	3000	---	100	"	---	---	---
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 101 %</i>	<i>Limits: 70-130 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>98 %</i>	<i>70-130 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>92 %</i>	<i>70-130 %</i>		<i>"</i>						

Duplicate (6070113-DUP1)

Prepared: 06/28/16 16:20 Analyzed: 07/06/16 16:07

QC Source Sample: B37_062816_11-13 (A6G0072-14)												
5035/8260B												
Benzene	ND	---	11.7	ug/kg dry	50	---	ND	---	---	---	---	30%
Toluene	ND	---	58.6	"	"	---	ND	---	---	---	---	30%
Ethylbenzene	ND	---	29.3	"	"	---	ND	---	---	---	---	30%
Xylenes, total	ND	---	88.0	"	"	---	ND	---	---	---	---	30%
<i>Surr: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 108 %</i>	<i>Limits: 70-130 %</i>		<i>Dilution: 1x</i>						
<i>Toluene-d8 (Surr)</i>			<i>103 %</i>	<i>70-130 %</i>		<i>"</i>						
<i>4-Bromofluorobenzene (Surr)</i>			<i>97 %</i>	<i>70-130 %</i>		<i>"</i>						

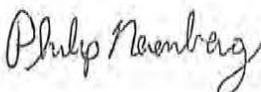
Duplicate (6070113-DUP2)

Prepared: 06/29/16 10:40 Analyzed: 07/06/16 20:15

QC Source Sample: B46_062916_0-32 (A6G0072-37)												
5035/8260B												
Benzene	ND	---	11.8	ug/kg dry	50	---	ND	---	---	---	---	30%

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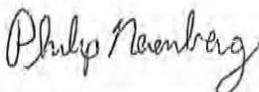
Project: **Linnton Mill**
Project Number: 1588-001
Project Manager: Mark Havighorst

Reported:
08/15/16 17:27

QUALITY CONTROL (QC) SAMPLE RESULTS

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

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070113 - EPA 5035A						Soil						
Blank (6070113-BLK1)						Prepared: 07/06/16 12:49 Analyzed: 07/06/16 14:52						
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	---
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 94 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>106 %</i>		<i>50-150 %</i>		<i>"</i>						
LCS (6070113-BS2)						Prepared: 07/06/16 12:49 Analyzed: 07/06/16 14:27						
NWTPH-Gx (MS)												
Gasoline Range Organics	19.4	---	5.00	mg/kg wet	50	25.0	---	78	70-130%	---	---	---
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 99 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>103 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (6070113-DUP1)						Prepared: 06/28/16 16:20 Analyzed: 07/06/16 16:07						
QC Source Sample: B37_062816_11-13 (A6G0072-14)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	5.86	mg/kg dry	50	---	ND	---	---	---	30%	---
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 105 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>112 %</i>		<i>50-150 %</i>		<i>"</i>						
Duplicate (6070113-DUP2)						Prepared: 06/29/16 10:40 Analyzed: 07/06/16 20:15						
QC Source Sample: B46_062916_0-32 (A6G0072-37)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	5.92	mg/kg dry	50	---	ND	---	---	---	30%	---
<i>Surr: 4-Bromofluorobenzene (Sur)</i>		<i>Recovery: 108 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>		<i>113 %</i>		<i>50-150 %</i>		<i>"</i>						



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Project: **Linnton Mill**
Project Number: 1588-001
Project Manager: Mark Havighorst

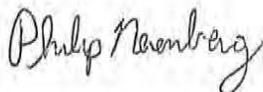
Reported:
08/15/16 17:27

QUALITY CONTROL (QC) SAMPLE RESULTS

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

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070105 - EPA 5035A						Soil						
Blank (6070105-BLK1)						Prepared: 07/06/16 10:07 Analyzed: 07/06/16 12:52						
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	3.33	mg/kg wet	50	---	---	---	---	---	---	---
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 108 %</i>	<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>			<i>99 %</i>	<i>50-150 %</i>		<i>"</i>						
LCS (6070105-BS2)						Prepared: 07/06/16 10:07 Analyzed: 07/06/16 12:26						
NWTPH-Gx (MS)												
Gasoline Range Organics	24.3	---	5.00	mg/kg wet	50	25.0	---	97	70-130%	---	---	---
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 107 %</i>	<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>			<i>98 %</i>	<i>50-150 %</i>		<i>"</i>						
Duplicate (6070105-DUP1)						Prepared: 06/28/16 15:00 Analyzed: 07/06/16 15:20						
QC Source Sample: B16_062816_19-21 (A6G0072-04)												
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	---	6.83	mg/kg dry	50	---	ND	---	---	---	30%	---
<i>Surr: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 110 %</i>	<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
<i>1,4-Difluorobenzene (Sur)</i>			<i>100 %</i>	<i>50-150 %</i>		<i>"</i>						

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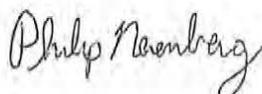
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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070141 - EPA 3546 (Fuels) w/Silica Gel+Acid (NWTPH)						Soil						
LCS (6070141-BS1)						Prepared: 07/06/16 17:38 Analyzed: 07/06/16 23:37						
Diesel	133	---	25.0	mg/kg wet	1	125	---	107	76-115%	---	---	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 101 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						
Duplicate (6070141-DUP1)						Prepared: 07/06/16 17:38 Analyzed: 07/07/16 01:16						
QC Source Sample: B5_062916_26-28 (A6G0072-43)												
NWTPH-Dx/SG												
Diesel	ND	---	31.6	mg/kg dry	1	---	ND	---	---	---	30%	
Oil	ND	---	63.1	"	"	---	ND	---	---	---	30%	
<i>Surr: o-Terphenyl (Surr)</i>		<i>Recovery: 93 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>						

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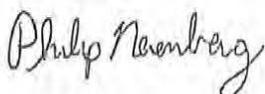
Farallon Consulting 4380 SW Macadam Ave #500 Portland, OR 97239	Project: Linnton Mill Project Number: 1588-001 Project Manager: Mark Havighorst	Reported: 08/15/16 17:27
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QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dil.	Spike Amount	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6070089 - EPA 3546 (Fuels) w/Silica Gel+Acid (NWTPH)						Soil						
Blank (6070089-BLK1)						Prepared: 07/05/16 15:17 Analyzed: 07/05/16 23:15						
NWTPH-Dx/SG												
Diesel	ND	---	25.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	50.0	"	"	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>			<i>Recovery: 97 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					
LCS (6070089-BS1)						Prepared: 07/05/16 15:17 Analyzed: 07/05/16 23:35						
NWTPH-Dx/SG												
Diesel	130	---	25.0	mg/kg wet	1	125	---	104	76-115%	---	---	
<i>Surr: o-Terphenyl (Surr)</i>			<i>Recovery: 103 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					
Duplicate (6070089-DUP1)						Prepared: 07/05/16 15:17 Analyzed: 07/06/16 00:15						
QC Source Sample: B16_062816_0-19 (A6G0072-03)												
NWTPH-Dx/SG												
Diesel	ND	---	29.3	mg/kg dry	1	---	ND	---	---	---	30%	
Oil	72.3	---	58.7	"	"	---	135	---	---	61	30%	Q-05
<i>Surr: o-Terphenyl (Surr)</i>			<i>Recovery: 92 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					
Duplicate (6070089-DUP2)						Prepared: 07/05/16 15:18 Analyzed: 07/06/16 07:12						
QC Source Sample: B7_062916_13-15 (A6G0072-32)												
NWTPH-Dx/SG												
Diesel	ND	---	27.0	mg/kg dry	1	---	ND	---	---	---	30%	
Oil	ND	---	54.0	"	"	---	147	---	---	***	30%	Q-05
<i>Surr: o-Terphenyl (Surr)</i>			<i>Recovery: 93 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					
Batch 6070141 - EPA 3546 (Fuels) w/Silica Gel+Acid (NWTPH)						Soil						
Blank (6070141-BLK1)						Prepared: 07/06/16 17:38 Analyzed: 07/06/16 23:18						
NWTPH-Dx/SG												
Diesel	ND	---	25.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	50.0	"	"	---	---	---	---	---	---	
<i>Surr: o-Terphenyl (Surr)</i>			<i>Recovery: 95 %</i>		<i>Limits: 50-150 %</i>		<i>Dilution: 1x</i>					
LCS (6070141-BS1)						Prepared: 07/06/16 17:38 Analyzed: 07/06/16 23:37						
NWTPH-Dx/SG												

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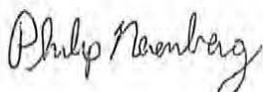
Project: **Linnton Mill**
 Project Number: 1588-001
 Project Manager: Mark Havighorst

Reported:
 08/15/16 17:27

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight								
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B46_062916_0-32 (A6G0072-37)			Matrix: Soil		Batch: 6070122			
% Solids	79.8	---	1.00	% by Weight	1	07/07/16 09:05	EPA 8000C	
B46_062916_32-34 (A6G0072-38)			Matrix: Soil		Batch: 6070122			
% Solids	73.7	---	1.00	% by Weight	1	07/07/16 09:05	EPA 8000C	
B5_062916_0-26 (A6G0072-42)			Matrix: Soil		Batch: 6070122			
% Solids	78.8	---	1.00	% by Weight	1	07/07/16 09:05	EPA 8000C	
B5_062916_26-28 (A6G0072-43)			Matrix: Soil		Batch: 6070122			
% Solids	74.7	---	1.00	% by Weight	1	07/07/16 09:05	EPA 8000C	

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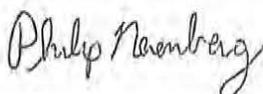
Farallon Consulting 4380 SW Macadam Ave #500 Portland, OR 97239	Project: Linnton Mill Project Number: 1588-001 Project Manager: Mark Havighorst	Reported: 08/15/16 17:27
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ANALYTICAL SAMPLE RESULTS

Percent Dry Weight								
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B16_062816_0-19 (A6G0072-03)			Matrix: Soil		Batch: 6070122			
% Solids	76.9	---	1.00	% by Weight	1	07/07/16 09:05	EPA 8000C	
B16_062816_19-21 (A6G0072-04)			Matrix: Soil		Batch: 6070122			
% Solids	75.3	---	1.00	% by Weight	1	07/07/16 09:05	EPA 8000C	
B40_062816_0-1 (A6G0072-05)			Matrix: Soil		Batch: 6070122			
% Solids	93.2	---	1.00	% by Weight	1	07/07/16 09:05	EPA 8000C	
B40_062816_1-3 (A6G0072-06)			Matrix: Soil		Batch: 6070122			
% Solids	87.7	---	1.00	% by Weight	1	07/07/16 09:05	EPA 8000C	
B20_062816_0-13 (A6G0072-09)			Matrix: Soil		Batch: 6070122			
% Solids	89.5	---	1.00	% by Weight	1	07/07/16 09:05	EPA 8000C	
B20_062816_13-15 (A6G0072-10)			Matrix: Soil		Batch: 6070122			
% Solids	90.5	---	1.00	% by Weight	1	07/07/16 09:05	EPA 8000C	
B37_062816_0-11 (A6G0072-13)			Matrix: Soil		Batch: 6070122			
% Solids	87.5	---	1.00	% by Weight	1	07/07/16 09:05	EPA 8000C	
B37_062816_11-13 (A6G0072-14)			Matrix: Soil		Batch: 6070122			
% Solids	89.8	---	1.00	% by Weight	1	07/07/16 09:05	EPA 8000C	
B50_062916_0-18 (A6G0072-19)			Matrix: Soil		Batch: 6070122			
% Solids	78.8	---	1.00	% by Weight	1	07/07/16 09:05	EPA 8000C	
B50_062916_0-18-1 (A6G0072-20)			Matrix: Soil		Batch: 6070122			
% Solids	79.3	---	1.00	% by Weight	1	07/07/16 09:05	EPA 8000C	
B50_062916_18-20 (A6G0072-21)			Matrix: Soil		Batch: 6070122			
% Solids	71.7	---	1.00	% by Weight	1	07/07/16 09:05	EPA 8000C	
B50_062916_18-20-1 (A6G0072-22)			Matrix: Soil		Batch: 6070122			
% Solids	71.7	---	1.00	% by Weight	1	07/07/16 09:05	EPA 8000C	
B15_062916_0-33 (A6G0072-27)			Matrix: Soil		Batch: 6070122			
% Solids	80.0	---	1.00	% by Weight	1	07/07/16 09:05	EPA 8000C	
B15_062916_33-35 (A6G0072-28)			Matrix: Soil		Batch: 6070122			
% Solids	65.0	---	1.00	% by Weight	1	07/07/16 09:05	EPA 8000C	
B7_062916_0-13 (A6G0072-31)			Matrix: Soil		Batch: 6070122			
% Solids	86.5	---	1.00	% by Weight	1	07/07/16 09:05	EPA 8000C	
B7_062916_13-15 (A6G0072-32)			Matrix: Soil		Batch: 6070122			
% Solids	79.8	---	1.00	% by Weight	1	07/07/16 09:05	EPA 8000C	

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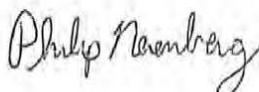
Philip Nerenberg, Lab Director

Farallon Consulting 4380 SW Macadam Ave #500 Portland, OR 97239	Project: Linnton Mill Project Number: 1588-001 Project Manager: Mark Havighorst	Reported: 08/15/16 17:27
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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B5_062916_26-28 (A6G0072-43)			Matrix: Soil					
Barium	138	---	1.30	mg/kg dry	10	"	EPA 6020A	
Cadmium	0.286	---	0.260	"	"	"	"	
Chromium	15.6	---	1.30	"	"	"	"	
Copper	22.5	---	1.30	"	"	"	"	
Lead	12.8	---	0.260	"	"	"	"	
Mercury	ND	---	0.104	"	"	"	"	
Selenium	ND	---	1.30	"	"	"	"	
Silver	ND	---	0.260	"	"	"	"	



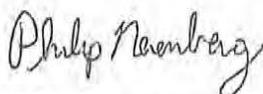
Farallon Consulting 4380 SW Macadam Ave #500 Portland, OR 97239	Project: Linnton Mill Project Number: 1588-001 Project Manager: Mark Havighorst	Reported: 08/15/16 17:27
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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B46_062916_0-32 (A6G0072-37) Matrix: Soil								
Batch: 6070334								
Arsenic	3.18	---	1.30	mg/kg dry	10	07/15/16 22:10	EPA 6020A	
Barium	114	---	1.30	"	"	"	"	
Cadmium	ND	---	0.259	"	"	"	"	
Chromium	16.7	---	1.30	"	"	"	"	
Copper	21.3	---	1.30	"	"	"	"	
Lead	12.1	---	0.259	"	"	"	"	
Mercury	ND	---	0.104	"	"	"	"	
Selenium	ND	---	1.30	"	"	"	"	
Silver	ND	---	0.259	"	"	"	"	
B46_062916_32-34 (A6G0072-38) Matrix: Soil								
Batch: 6070334								
Arsenic	1.92	---	1.35	mg/kg dry	10	07/15/16 22:13	EPA 6020A	
Barium	129	---	1.35	"	"	"	"	
Cadmium	ND	---	0.270	"	"	"	"	
Chromium	19.0	---	1.35	"	"	"	"	
Copper	11.6	---	1.35	"	"	"	"	
Lead	6.46	---	0.270	"	"	"	"	
Mercury	ND	---	0.108	"	"	"	"	
Selenium	ND	---	1.35	"	"	"	"	
Silver	ND	---	0.270	"	"	"	"	
B5_062916_0-26 (A6G0072-42) Matrix: Soil								
Batch: 6070334								
Arsenic	6.61	---	1.32	mg/kg dry	10	07/15/16 22:16	EPA 6020A	
Barium	208	---	1.32	"	"	"	"	
Cadmium	0.448	---	0.263	"	"	"	"	
Chromium	12.1	---	1.32	"	"	"	"	
Copper	71.2	---	1.32	"	"	"	"	
Lead	91.8	---	0.263	"	"	"	"	
Mercury	ND	---	0.105	"	"	"	"	
Selenium	ND	---	1.32	"	"	"	"	
Silver	0.263	---	0.263	"	"	"	"	
B5_062916_26-28 (A6G0072-43) Matrix: Soil								
Batch: 6070334								
Arsenic	8.89	---	1.30	mg/kg dry	10	07/15/16 22:18	EPA 6020A	

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Portland, OR 97239

Project: **Linnton Mill**
Project Number: 1588-001
Project Manager: Mark Havighorst

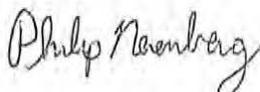
Reported:
08/15/16 17:27

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
B15_062916_0-33 (A6G0072-27)			Matrix: Soil					
Selenium	ND	---	1.24	mg/kg dry	10	"	EPA 6020A	
Silver	ND	---	0.247	"	"	"	"	
B15_062916_33-35 (A6G0072-28)			Matrix: Soil					
Batch: 6070334								
Arsenic	2.12	---	1.53	mg/kg dry	10	07/15/16 21:52	EPA 6020A	
Barium	118	---	1.53	"	"	"	"	
Cadmium	ND	---	0.307	"	"	"	"	
Chromium	10.7	---	1.53	"	"	"	"	
Copper	16.3	---	1.53	"	"	"	"	
Lead	9.08	---	0.307	"	"	"	"	
Mercury	ND	---	0.123	"	"	"	"	
Selenium	ND	---	1.53	"	"	"	"	
Silver	ND	---	0.307	"	"	"	"	
B7_062916_0-13 (A6G0072-31)			Matrix: Soil					
Batch: 6070334								
Arsenic	3.07	---	1.14	mg/kg dry	10	07/15/16 22:04	EPA 6020A	
Barium	120	---	1.14	"	"	"	"	
Cadmium	0.229	---	0.229	"	"	"	"	
Chromium	22.2	---	1.14	"	"	"	"	
Copper	21.4	---	1.14	"	"	"	"	
Lead	13.8	---	0.229	"	"	"	"	
Mercury	ND	---	0.0916	"	"	"	"	
Selenium	ND	---	1.14	"	"	"	"	
Silver	ND	---	0.229	"	"	"	"	
B7_062916_13-15 (A6G0072-32)			Matrix: Soil					
Batch: 6070334								
Arsenic	3.07	---	1.25	mg/kg dry	10	07/15/16 22:07	EPA 6020A	
Barium	136	---	1.25	"	"	"	"	
Cadmium	ND	---	0.249	"	"	"	"	
Chromium	20.1	---	1.25	"	"	"	"	
Copper	18.3	---	1.25	"	"	"	"	
Lead	14.7	---	0.249	"	"	"	"	
Mercury	ND	---	0.0997	"	"	"	"	
Selenium	ND	---	1.25	"	"	"	"	
Silver	ND	---	0.249	"	"	"	"	

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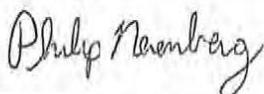
Farallon Consulting 4380 SW Macadam Ave #500 Portland, OR 97239	Project: Linnton Mill Project Number: 1588-001 Project Manager: Mark Havighorst	Reported: 08/15/16 17:27
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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B50_062916_0-18-1 (A6G0072-20)								
Matrix: Soil								
Lead	19.6	---	1.29	mg/kg dry	10	"	EPA 6020A	
Mercury	ND	---	0.103	"	"	"	"	
Selenium	ND	---	2.57	"	"	"	"	
Silver	ND	---	0.257	"	"	"	"	
B50_062916_18-20 (A6G0072-21)								
Matrix: Soil								
Batch: 6070334								
Arsenic	3.68	---	1.44	mg/kg dry	10	07/15/16 21:43	EPA 6020A	
Barium	142	---	1.44	"	"	"	"	
Cadmium	0.332	---	0.289	"	"	"	"	
Chromium	23.7	---	1.44	"	"	"	"	
Copper	32.9	---	1.44	"	"	"	"	
Lead	19.6	---	0.289	"	"	"	"	
Mercury	0.145	---	0.115	"	"	"	"	
Selenium	ND	---	1.44	"	"	"	"	
Silver	ND	---	0.289	"	"	"	"	
B50_062916_18-20-1 (A6G0072-22)								
Matrix: Soil								
Batch: 6070334								
Arsenic	3.55	---	1.44	mg/kg dry	10	07/15/16 21:46	EPA 6020A	
Barium	139	---	1.44	"	"	"	"	
Cadmium	0.288	---	0.288	"	"	"	"	
Chromium	23.1	---	1.44	"	"	"	"	
Copper	33.5	---	1.44	"	"	"	"	
Lead	19.6	---	0.288	"	"	"	"	
Mercury	0.271	---	0.115	"	"	"	"	
Selenium	ND	---	1.44	"	"	"	"	
Silver	ND	---	0.288	"	"	"	"	
B15_062916_0-33 (A6G0072-27)								
Matrix: Soil								
Batch: 6070334								
Arsenic	3.26	---	1.24	mg/kg dry	10	07/15/16 21:49	EPA 6020A	
Barium	117	---	1.24	"	"	"	"	
Cadmium	ND	---	0.247	"	"	"	"	
Chromium	18.9	---	1.24	"	"	"	"	
Copper	23.9	---	1.24	"	"	"	"	
Lead	15.2	---	0.247	"	"	"	"	
Mercury	0.113	---	0.0988	"	"	"	"	

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Portland, OR 97239

Project: **Linnton Mill**
Project Number: 1588-001
Project Manager: Mark Havighorst

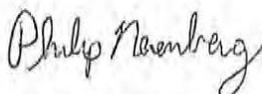
Reported:
08/15/16 17:27

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B37_062816_0-11 (A6G0072-13) Matrix: Soil								
Chromium	19.6	---	1.11	mg/kg dry	10	"	EPA 6020A	
Copper	32.9	---	1.11	"	"	"	"	
Lead	26.8	---	1.11	"	"	"	"	
Mercury	ND	---	0.0887	"	"	"	"	
Selenium	ND	---	2.22	"	"	"	"	
Silver	ND	---	0.222	"	"	"	"	
B37_062816_11-13 (A6G0072-14) Matrix: Soil								
Batch: 6070325								
Arsenic	4.27	---	1.19	mg/kg dry	10	07/14/16 22:49	EPA 6020A	
Barium	91.4	---	1.19	"	"	"	"	
Cadmium	ND	---	0.239	"	"	"	"	
Chromium	10.9	---	1.19	"	"	"	"	
Copper	21.3	---	1.19	"	"	"	"	
Lead	10.9	---	1.19	"	"	"	"	
Mercury	ND	---	0.0954	"	"	"	"	
Selenium	ND	---	2.39	"	"	"	"	
Silver	ND	---	0.239	"	"	"	"	
B50_062916_0-18 (A6G0072-19) Matrix: Soil								
Batch: 6070325								
Arsenic	3.25	---	1.32	mg/kg dry	10	07/14/16 22:52	EPA 6020A	
Barium	117	---	1.32	"	"	"	"	
Cadmium	0.263	---	0.263	"	"	"	"	
Chromium	27.4	---	1.32	"	"	"	"	
Copper	26.0	---	1.32	"	"	"	"	
Lead	18.9	---	1.32	"	"	"	"	
Mercury	ND	---	0.105	"	"	"	"	
Selenium	ND	---	2.63	"	"	"	"	
Silver	ND	---	0.263	"	"	"	"	
B50_062916_0-18-1 (A6G0072-20) Matrix: Soil								
Batch: 6070325								
Arsenic	3.36	---	1.29	mg/kg dry	10	07/14/16 23:03	EPA 6020A	
Barium	117	---	1.29	"	"	"	"	
Cadmium	0.270	---	0.257	"	"	"	"	
Chromium	20.1	---	1.29	"	"	"	"	
Copper	23.7	---	1.29	"	"	"	"	

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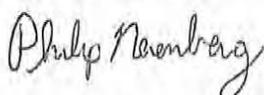
Farallon Consulting 4380 SW Macadam Ave #500 Portland, OR 97239	Project: Linnton Mill Project Number: 1588-001 Project Manager: Mark Havighorst	Reported: 08/15/16 17:27
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ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B40_062816_1-3 (A6G0072-06) Matrix: Soil								
Barium	84.5	---	1.12	mg/kg dry	10	"	EPA 6020A	
Cadmium	ND	---	0.225	"	"	"	"	
Chromium	11.2	---	1.12	"	"	"	"	
Copper	16.5	---	1.12	"	"	"	"	
Lead	8.45	---	1.12	"	"	"	"	
Mercury	ND	---	0.0900	"	"	"	"	
Selenium	ND	---	2.25	"	"	"	"	
Silver	ND	---	0.225	"	"	"	"	
B20_062816_0-13 (A6G0072-09) Matrix: Soil								
Batch: 6070325								
Arsenic	2.64	---	1.11	mg/kg dry	10	07/14/16 22:40	EPA 6020A	
Barium	76.1	---	1.11	"	"	"	"	
Cadmium	ND	---	0.223	"	"	"	"	
Chromium	10.7	---	1.11	"	"	"	"	
Copper	12.9	---	1.11	"	"	"	"	
Lead	4.42	---	1.11	"	"	"	"	
Mercury	ND	---	0.0891	"	"	"	"	
Selenium	ND	---	2.23	"	"	"	"	
Silver	ND	---	0.223	"	"	"	"	
B20_062816_13-15 (A6G0072-10) Matrix: Soil								
Batch: 6070325								
Arsenic	2.47	---	1.11	mg/kg dry	10	07/14/16 22:43	EPA 6020A	
Barium	80.5	---	1.11	"	"	"	"	
Cadmium	ND	---	0.223	"	"	"	"	
Chromium	10.8	---	1.11	"	"	"	"	
Copper	12.4	---	1.11	"	"	"	"	
Lead	3.10	---	1.11	"	"	"	"	
Mercury	ND	---	0.0891	"	"	"	"	
Selenium	ND	---	2.23	"	"	"	"	
Silver	ND	---	0.223	"	"	"	"	
B37_062816_0-11 (A6G0072-13) Matrix: Soil								
Batch: 6070325								
Arsenic	4.41	---	1.11	mg/kg dry	10	07/14/16 22:46	EPA 6020A	
Barium	183	---	1.11	"	"	"	"	
Cadmium	0.355	---	0.222	"	"	"	"	

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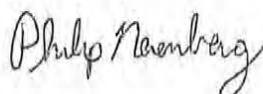
ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020 (ICPMS)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B16_062816_0-19 (A6G0072-03) Matrix: Soil								
Batch: 6070325								
Arsenic	13.1	---	1.41	mg/kg dry	10	07/14/16 22:28	EPA 6020A	
Barium	164	---	1.41	"	"	"	"	
Cadmium	ND	---	0.283	"	"	"	"	
Chromium	20.8	---	1.41	"	"	"	"	
Copper	27.1	---	1.41	"	"	"	"	
Lead	17.5	---	1.41	"	"	"	"	
Mercury	ND	---	0.113	"	"	"	"	
Selenium	ND	---	2.83	"	"	"	"	
Silver	ND	---	0.283	"	"	"	"	
B16_062816_19-21 (A6G0072-04) Matrix: Soil								
Batch: 6070325								
Arsenic	6.87	---	1.33	mg/kg dry	10	07/14/16 22:31	EPA 6020A	
Barium	140	---	1.33	"	"	"	"	
Cadmium	0.331	---	0.265	"	"	"	"	
Chromium	14.0	---	1.33	"	"	"	"	
Copper	21.7	---	1.33	"	"	"	"	
Lead	12.9	---	1.33	"	"	"	"	
Mercury	ND	---	0.106	"	"	"	"	
Selenium	ND	---	2.65	"	"	"	"	
Silver	ND	---	0.265	"	"	"	"	
B40_062816_0-1 (A6G0072-05) Matrix: Soil								
Batch: 6070325								
Arsenic	10.7	---	1.13	mg/kg dry	10	07/14/16 22:34	EPA 6020A	
Barium	96.1	---	1.13	"	"	"	"	
Cadmium	0.294	---	0.226	"	"	"	"	
Chromium	13.2	---	1.13	"	"	"	"	
Copper	23.8	---	1.13	"	"	"	"	
Lead	18.4	---	1.13	"	"	"	"	
Mercury	ND	---	0.0904	"	"	"	"	
Selenium	ND	---	2.26	"	"	"	"	
Silver	ND	---	0.226	"	"	"	"	
B40_062816_1-3 (A6G0072-06) Matrix: Soil								
Batch: 6070325								
Arsenic	3.75	---	1.12	mg/kg dry	10	07/14/16 22:37	EPA 6020A	

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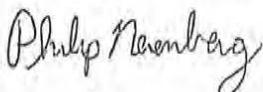
Project: **Linnton Mill**
Project Number: 1588-001
Project Manager: Mark Havighorst

Reported:
08/15/16 17:27

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B5_062916_0-26 (A6G0072-42)			Matrix: Soil	Batch: 6070327				
Acenaphthene	ND	---	11.6	ug/kg dry	1	07/17/16 00:14	EPA 8270D (SIM)	
Acenaphthylene	38.1	---	11.6	"	"	"	"	
Anthracene	51.8	---	11.6	"	"	"	"	
Benz(a)anthracene	72.6	---	11.6	"	"	"	"	M-02
Benzo(a)pyrene	95.5	---	11.6	"	"	"	"	
Benzo(b)fluoranthene	173	---	11.6	"	"	"	"	M-02
Benzo(k)fluoranthene	60.5	---	11.6	"	"	"	"	M-02
Benzo(g,h,i)perylene	126	---	11.6	"	"	"	"	
Chrysene	134	---	11.6	"	"	"	"	M-02
Dibenz(a,h)anthracene	32.4	---	11.6	"	"	"	"	
Fluoranthene	154	---	11.6	"	"	"	"	
Fluorene	ND	---	11.6	"	"	"	"	
Indeno(1,2,3-cd)pyrene	164	---	11.6	"	"	"	"	
Naphthalene	37.6	---	11.6	"	"	"	"	
Phenanthrene	101	---	11.6	"	"	"	"	
Pyrene	151	---	11.6	"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>			<i>Recovery: 84 %</i>	<i>Limits: 44-120 %</i>	"	"	"	
<i>p-Terphenyl-d14 (Surr)</i>			<i>90 %</i>	<i>Limits: 54-127 %</i>	"	"	"	



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Project: **Linnton Mill**
Project Number: 1588-001
Project Manager: Mark Havighorst

Reported:
08/15/16 17:27

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
B7_062916_13-15 (A6G0072-32)			Matrix: Soil		Batch: 6070327			
Acenaphthene	23.7	---	10.9	ug/kg dry	1	07/16/16 22:51	EPA 8270D (SIM)	
Acenaphthylene	151	---	10.9	"	"	"	"	
Anthracene	198	---	10.9	"	"	"	"	
Benz(a)anthracene	472	---	10.9	"	"	"	"	M-02
Benzo(a)pyrene	745	---	10.9	"	"	"	"	
Benzo(b)fluoranthene	709	---	10.9	"	"	"	"	M-02
Benzo(k)fluoranthene	228	---	10.9	"	"	"	"	M-02
Benzo(g,h,i)perylene	554	---	10.9	"	"	"	"	
Chrysene	679	---	10.9	"	"	"	"	M-02
Dibenz(a,h)anthracene	53.6	---	10.9	"	"	"	"	
Fluoranthene	1620	---	10.9	"	"	"	"	
Fluorene	64.4	---	10.9	"	"	"	"	
Indeno(1,2,3-cd)pyrene	503	---	10.9	"	"	"	"	
Naphthalene	36.0	---	10.9	"	"	"	"	
Phenanthrene	1130	---	10.9	"	"	"	"	
Pyrene	2160	---	10.9	"	"	"	"	
Surrogate: 2-Fluorobiphenyl (Surr)			Recovery: 80 %	Limits: 44-120 %	"	"	"	
p-Terphenyl-d14 (Surr)			86 %	Limits: 54-127 %	"	"	"	

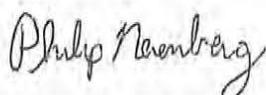


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ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B7_062916_0-13 (A6G0072-31)			Matrix: Soil		Batch: 6070327			
Acenaphthene	10.5	---	10.0	ug/kg dry	1	07/16/16 22:23	EPA 8270D (SIM)	
Acenaphthylene	17.9	---	10.0	"	"	"	"	
Anthracene	30.3	---	10.0	"	"	"	"	
Benz(a)anthracene	85.1	---	10.0	"	"	"	"	M-02
Benzo(a)pyrene	130	---	10.0	"	"	"	"	
Benzo(b)fluoranthene	134	---	10.0	"	"	"	"	M-02
Benzo(k)fluoranthene	50.6	---	10.0	"	"	"	"	M-02
Benzo(g,h,i)perylene	107	---	10.0	"	"	"	"	
Chrysene	108	---	10.0	"	"	"	"	M-02
Dibenz(a,h)anthracene	12.4	---	10.0	"	"	"	"	
Fluoranthene	210	---	10.0	"	"	"	"	
Fluorene	ND	---	10.0	"	"	"	"	
Indeno(1,2,3-cd)pyrene	96.7	---	10.0	"	"	"	"	
Naphthalene	28.5	---	10.0	"	"	"	"	
Phenanthrene	96.8	---	10.0	"	"	"	"	
Pyrene	262	---	10.0	"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>			<i>Recovery: 88 %</i>	<i>Limits: 44-120 %</i>	"	"	"	
<i>p-Terphenyl-d14 (Surr)</i>			<i>94 %</i>	<i>Limits: 54-127 %</i>	"	"	"	



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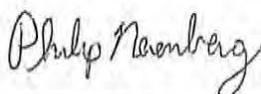
Project: **Linnton Mill**
 Project Number: 1588-001
 Project Manager: Mark Havighorst

Reported:
 08/15/16 17:27

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B15_062916_33-35 (A6G0072-28)			Matrix: Soil		Batch: 6070327			
Acenaphthene	15.1	---	14.2	ug/kg dry	1	07/16/16 21:56	EPA 8270D (SIM)	
Acenaphthylene	33.7	---	14.2	"	"	"	"	
Anthracene	45.9	---	14.2	"	"	"	"	
Benz(a)anthracene	89.6	---	14.2	"	"	"	"	M-02
Benzo(a)pyrene	150	---	14.2	"	"	"	"	
Benzo(b)fluoranthene	137	---	14.2	"	"	"	"	M-02
Benzo(k)fluoranthene	57.6	---	14.2	"	"	"	"	M-02
Benzo(g,h,i)perylene	133	---	14.2	"	"	"	"	
Chrysene	113	---	14.2	"	"	"	"	M-02
Dibenz(a,h)anthracene	ND	---	14.2	"	"	"	"	
Fluoranthene	296	---	14.2	"	"	"	"	
Fluorene	14.5	---	14.2	"	"	"	"	
Indeno(1,2,3-cd)pyrene	117	---	14.2	"	"	"	"	
Naphthalene	182	---	14.2	"	"	"	"	
Phenanthrene	219	---	14.2	"	"	"	"	
Pyrene	364	---	14.2	"	"	"	"	
Surrogate: 2-Fluorobiphenyl (Surr)			Recovery: 89 %	Limits: 44-120 %	"	"	"	
p-Terphenyl-d14 (Surr)			91 %	Limits: 54-127 %	"	"	"	



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 Project Number: 1588-001
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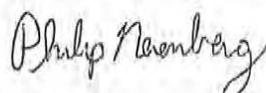
ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
B50_062916_18-20-1 (A6G0072-22)			Matrix: Soil		Batch: 6070327			
Acenaphthene	469	---	12.5	ug/kg dry	1	07/16/16 21:28	EPA 8270D (SIM)	
Acenaphthylene	93.0	---	12.5	"	"	"	"	
Anthracene	555	---	12.5	"	"	"	"	
Benz(a)anthracene	698	---	12.5	"	"	"	"	
Benzo(a)pyrene	931	---	12.5	"	"	"	"	
Benzo(b)fluoranthene	828	---	12.5	"	"	"	"	M-02
Benzo(k)fluoranthene	314	---	12.5	"	"	"	"	M-02
Benzo(g,h,i)perylene	601	---	12.5	"	"	"	"	
Chrysene	945	---	12.5	"	"	"	"	
Dibenz(a,h)anthracene	72.4	---	12.5	"	"	"	"	
Fluoranthene	2620	---	12.5	"	"	"	"	
Fluorene	344	---	12.5	"	"	"	"	
Indeno(1,2,3-cd)pyrene	562	---	12.5	"	"	"	"	
Naphthalene	569	---	12.5	"	"	"	"	
Phenanthrene	2540	---	12.5	"	"	"	"	
Pyrene	3360	---	12.5	"	"	"	"	

Surrogate: 2-Fluorobiphenyl (Surr)
p-Terphenyl-d14 (Surr)

Recovery: 86 % Limits: 44-120 %
87 % Limits: 54-127 %

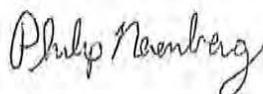


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ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B50_062916_18-20 (A6G0072-21)			Matrix: Soil		Batch: 6070327			
Acenaphthene	596	---	12.4	ug/kg dry	1	07/16/16 21:00	EPA 8270D (SIM)	
Acenaphthylene	101	---	12.4	"	"	"	"	
Anthracene	662	---	12.4	"	"	"	"	
Benz(a)anthracene	894	---	12.4	"	"	"	"	
Benzo(a)pyrene	1280	---	12.4	"	"	"	"	
Benzo(b)fluoranthene	1110	---	12.4	"	"	"	"	M-02
Benzo(k)fluoranthene	412	---	12.4	"	"	"	"	M-02
Benzo(g,h,i)perylene	826	---	12.4	"	"	"	"	
Chrysene	1250	---	12.4	"	"	"	"	
Dibenz(a,h)anthracene	98.2	---	12.4	"	"	"	"	
Fluoranthene	3380	---	12.4	"	"	"	"	
Fluorene	458	---	12.4	"	"	"	"	
Indeno(1,2,3-cd)pyrene	770	---	12.4	"	"	"	"	
Naphthalene	799	---	12.4	"	"	"	"	
Phenanthrene	3050	---	12.4	"	"	"	"	
Pyrene	4320	---	12.4	"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>			<i>Recovery: 85 %</i>	<i>Limits: 44-120 %</i>	"	"	"	
<i>p-Terphenyl-d14 (Surr)</i>			<i>87 %</i>	<i>Limits: 54-127 %</i>	"	"	"	



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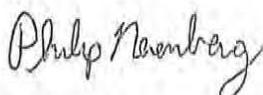
Project: **Linnton Mill**
Project Number: 1588-001
Project Manager: Mark Havighorst

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08/15/16 17:27

ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B50_062916_0-18-1 (A6G0072-20)			Matrix: Soil	Batch: 6070327				
Acenaphthene	95.4	---	11.4	ug/kg dry	1	07/16/16 20:32	EPA 8270D (SIM)	
Acenaphthylene	81.9	---	11.4	"	"	"	"	
Anthracene	185	---	11.4	"	"	"	"	
Benzo(a)anthracene	375	---	11.4	"	"	"	"	M-02
Benzo(a)pyrene	587	---	11.4	"	"	"	"	
Benzo(b)fluoranthene	632	---	11.4	"	"	"	"	M-02
Benzo(k)fluoranthene	180	---	11.4	"	"	"	"	M-02
Benzo(g,h,i)perylene	544	---	11.4	"	"	"	"	
Chrysene	520	---	11.4	"	"	"	"	M-02
Dibenz(a,h)anthracene	59.0	---	11.4	"	"	"	"	
Fluoranthene	1070	---	11.4	"	"	"	"	
Fluorene	91.4	---	11.4	"	"	"	"	
Indeno(1,2,3-cd)pyrene	490	---	11.4	"	"	"	"	
Naphthalene	390	---	11.4	"	"	"	"	
Phenanthrene	675	---	11.4	"	"	"	"	
Pyrene	1360	---	11.4	"	"	"	"	
Surrogate: 2-Fluorobiphenyl (Surr)			Recovery: 89 %	Limits: 44-120 %	"	"	"	
p-Terphenyl-d14 (Surr)			94 %	Limits: 54-127 %	"	"	"	



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ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B37_062816_0-11 (A6G0072-13)			Matrix: Soil	Batch: 6070315				
Acenaphthene	ND	---	9.57	ug/kg dry	1	07/13/16 15:05	EPA 8270D (SIM)	
Acenaphthylene	25.7	---	9.57	"	"	"	"	
Anthracene	76.2	---	9.57	"	"	"	"	
Benz(a)anthracene	108	---	9.57	"	"	"	"	M-02
Benzo(a)pyrene	131	---	9.57	"	"	"	"	
Benzo(b)fluoranthene	150	---	9.57	"	"	"	"	M-02
Benzo(k)fluoranthene	55.9	---	9.57	"	"	"	"	M-02
Benzo(g,h,i)perylene	115	---	9.57	"	"	"	"	
Chrysene	164	---	9.57	"	"	"	"	M-02
Dibenz(a,h)anthracene	11.4	---	9.57	"	"	"	"	
Fluoranthene	363	---	9.57	"	"	"	"	
Fluorene	17.0	---	9.57	"	"	"	"	
Indeno(1,2,3-cd)pyrene	99.9	---	9.57	"	"	"	"	
Naphthalene	ND	---	9.57	"	"	"	"	
Phenanthrene	328	---	9.57	"	"	"	"	
Pyrene	423	---	9.57	"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>			<i>Recovery: 71 %</i>	<i>Limits: 44-120 %</i>	"	"	"	
<i>p-Terphenyl-d14 (Surr)</i>			<i>96 %</i>	<i>Limits: 54-127 %</i>	"	"	"	



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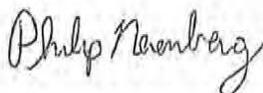
Project: **Linnton Mill**
Project Number: 1588-001
Project Manager: Mark Havighorst

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ANALYTICAL SAMPLE RESULTS

Polyaromatic Hydrocarbons (PAHs) by EPA 8270D SIM

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
B16_062816_0-19 (A6G0072-03)			Matrix: Soil		Batch: 6070315			
Acenaphthene	ND	---	11.3	ug/kg dry	1	07/13/16 14:36	EPA 8270D (SIM)	
Acenaphthylene	ND	---	11.3	"	"	"	"	
Anthracene	ND	---	11.3	"	"	"	"	
Benz(a)anthracene	ND	---	11.3	"	"	"	"	
Benzo(a)pyrene	ND	---	11.3	"	"	"	"	
Benzo(b)fluoranthene	ND	---	11.3	"	"	"	"	
Benzo(k)fluoranthene	ND	---	11.3	"	"	"	"	
Benzo(g,h,i)perylene	ND	---	11.3	"	"	"	"	
Chrysene	ND	---	11.3	"	"	"	"	
Dibenz(a,h)anthracene	ND	---	11.3	"	"	"	"	
Fluoranthene	11.3	---	11.3	"	"	"	"	
Fluorene	ND	---	11.3	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	---	11.3	"	"	"	"	
Naphthalene	ND	---	11.3	"	"	"	"	
Phenanthrene	ND	---	11.3	"	"	"	"	
Pyrene	14.6	---	11.3	"	"	"	"	
<i>Surrogate: 2-Fluorobiphenyl (Surr)</i>			<i>Recovery: 90 %</i>	<i>Limits: 44-120 %</i>	"	"	"	
<i>p-Terphenyl-d14 (Surr)</i>			<i>95 %</i>	<i>Limits: 54-127 %</i>	"	"	"	



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Project: **Linnton Mill**
 Project Number: 1588-001
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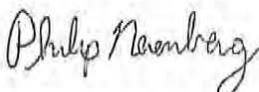
Reported:
 08/15/16 17:27

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B5_062916_26-28 (A6G0072-43RE2)			Matrix: Soil		Batch: 6070361			C-05
2,4'-DDD	ND	---	2.51	ug/kg dry	1	08/03/16 20:39	EPA 8081B	
2,4'-DDE	ND	---	2.51	"	"	"	"	
2,4'-DDT	ND	---	2.51	"	"	"	"	

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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, Lab Director

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ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B16_062816_19-21 (A6G0072-04RE1)			Matrix: Soil	Batch: 6070282				C-05
4,4'-DDD	ND	---	2.51	ug/kg dry	1	07/13/16 10:33	EPA 8081B	
4,4'-DDE	ND	---	2.51	"	"	"	"	
4,4'-DDT	ND	---	2.51	"	"	"	"	
2,4'-DDD	ND	---	2.51	"	"	08/03/16 19:13	"	
2,4'-DDE	ND	---	2.51	"	"	"	"	
2,4'-DDT	ND	---	2.51	"	"	"	"	
<i>Surrogate: 2,4,5,6-TCMX (Surr)</i>			Recovery: 82 %		Limits: 42-129 %	"	07/13/16 10:33	"
<i>Decachlorobiphenyl (Surr)</i>			87 %		Limits: 65-151 %	"	"	"
B15_062916_33-35 (A6G0072-28RE1)			Matrix: Soil	Batch: 6070282				
4,4'-DDD	ND	---	2.92	ug/kg dry	1	07/13/16 17:22	EPA 8081B	
4,4'-DDE	ND	---	2.92	"	"	"	"	
4,4'-DDT	ND	---	2.92	"	"	"	"	
2,4'-DDD	ND	---	2.92	"	"	08/03/16 19:30	"	
2,4'-DDE	ND	---	2.92	"	"	"	"	
2,4'-DDT	ND	---	2.92	"	"	"	"	
<i>Surrogate: 2,4,5,6-TCMX (Surr)</i>			Recovery: 84 %		Limits: 42-129 %	"	07/13/16 17:22	"
<i>Decachlorobiphenyl (Surr)</i>			91 %		Limits: 65-151 %	"	"	"
B46_062916_32-34 (A6G0072-38RE1)			Matrix: Soil	Batch: 6070361				C-05
4,4'-DDD	ND	---	2.77	ug/kg dry	1	07/14/16 12:54	EPA 8081B	
4,4'-DDE	ND	---	2.77	"	"	"	"	
4,4'-DDT	ND	---	2.77	"	"	"	"	
2,4'-DDD	ND	---	2.77	"	"	08/03/16 20:22	"	
2,4'-DDE	ND	---	2.77	"	"	"	"	
2,4'-DDT	ND	---	2.77	"	"	"	"	
<i>Surrogate: 2,4,5,6-TCMX (Surr)</i>			Recovery: 62 %		Limits: 42-129 %	"	07/14/16 12:54	"
<i>Decachlorobiphenyl (Surr)</i>			89 %		Limits: 65-151 %	"	"	"
B5_062916_26-28 (A6G0072-43RE1)			Matrix: Soil	Batch: 6070361				C-05
4,4'-DDD	ND	---	2.51	ug/kg dry	1	07/14/16 13:12	EPA 8081B	
4,4'-DDE	ND	---	2.51	"	"	"	"	
4,4'-DDT	ND	---	2.51	"	"	"	"	
<i>Surrogate: 2,4,5,6-TCMX (Surr)</i>			Recovery: 69 %		Limits: 42-129 %	"	"	"
<i>Decachlorobiphenyl (Surr)</i>			82 %		Limits: 65-151 %	"	"	"
B5_062916_26-28 (A6G0072-43RE2)			Matrix: Soil	Batch: 6070361				C-05

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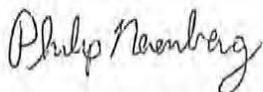
Farallon Consulting 4380 SW Macadam Ave #500 Portland, OR 97239	Project: Linnton Mill Project Number: 1588-001 Project Manager: Mark Havighorst	Reported: 08/15/16 17:27
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ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B7_062916_13-15 (A6G0072-32)			Matrix: Soil		Batch: 6070313			C-07
Aroclor 1248	ND	---	11.6	ug/kg dry	1	"	EPA 8082A	
Aroclor 1254	ND	---	11.6	"	"	"	"	
Aroclor 1260	ND	---	11.6	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>			<i>Recovery: 91 %</i>	<i>Limits: 72-126 %</i>	"	"	"	
B5_062916_0-26 (A6G0072-42)			Matrix: Soil		Batch: 6070313			C-07
Aroclor 1016	ND	---	12.2	ug/kg dry	1	07/14/16 01:00	EPA 8082A	
Aroclor 1221	ND	---	12.2	"	"	"	"	
Aroclor 1232	ND	---	12.2	"	"	"	"	
Aroclor 1242	ND	---	12.2	"	"	"	"	
Aroclor 1248	ND	---	12.2	"	"	"	"	
Aroclor 1254	ND	---	12.2	"	"	"	"	
Aroclor 1260	ND	---	12.2	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>			<i>Recovery: 90 %</i>	<i>Limits: 72-126 %</i>	"	"	"	

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Portland, OR 97239

Project: **Linnton Mill**
Project Number: 1588-001
Project Manager: Mark Havighorst

Reported:
08/15/16 17:27

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
B50_062916_18-20 (A6G0072-21)			Matrix: Soil		Batch: 6070313			C-07
<i>Surrogate: Decachlorobiphenyl (Surr)</i>			<i>Recovery: 98 % Limits: 72-126 %</i>		1	"	EPA 8082A	
B50_062916_18-20-1 (A6G0072-22)			Matrix: Soil		Batch: 6070313			C-07
Aroclor 1016	ND	---	13.1	ug/kg dry	1	07/13/16 22:03	EPA 8082A	
Aroclor 1221	ND	---	13.1	"	"	"	"	
Aroclor 1232	ND	---	13.1	"	"	"	"	
Aroclor 1242	ND	---	13.1	"	"	"	"	
Aroclor 1248	ND	---	13.1	"	"	"	"	
Aroclor 1254	18.2	---	13.1	"	"	"	"	P-10
Aroclor 1260	18.8	---	13.1	"	"	"	"	P-10
<i>Surrogate: Decachlorobiphenyl (Surr)</i>			<i>Recovery: 96 % Limits: 72-126 %</i>		"	"	"	
B15_062916_33-35 (A6G0072-28)			Matrix: Soil		Batch: 6070313			C-07
Aroclor 1016	ND	---	14.8	ug/kg dry	1	07/13/16 23:14	EPA 8082A	
Aroclor 1221	ND	---	14.8	"	"	"	"	
Aroclor 1232	ND	---	14.8	"	"	"	"	
Aroclor 1242	ND	---	14.8	"	"	"	"	
Aroclor 1248	ND	---	14.8	"	"	"	"	
Aroclor 1254	ND	---	14.8	"	"	"	"	
Aroclor 1260	ND	---	14.8	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>			<i>Recovery: 96 % Limits: 72-126 %</i>		"	"	"	
B7_062916_0-13 (A6G0072-31)			Matrix: Soil		Batch: 6070313			C-07
Aroclor 1016	ND	---	11.0	ug/kg dry	1	07/13/16 23:50	EPA 8082A	
Aroclor 1221	ND	---	11.0	"	"	"	"	
Aroclor 1232	ND	---	11.0	"	"	"	"	
Aroclor 1242	ND	---	11.0	"	"	"	"	
Aroclor 1248	ND	---	11.0	"	"	"	"	
Aroclor 1254	110	---	11.0	"	"	"	"	
Aroclor 1260	ND	---	11.0	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>			<i>Recovery: 94 % Limits: 72-126 %</i>		"	"	"	
B7_062916_13-15 (A6G0072-32)			Matrix: Soil		Batch: 6070313			C-07
Aroclor 1016	ND	---	11.6	ug/kg dry	1	07/14/16 00:25	EPA 8082A	
Aroclor 1221	ND	---	11.6	"	"	"	"	
Aroclor 1232	ND	---	11.6	"	"	"	"	
Aroclor 1242	ND	---	11.6	"	"	"	"	

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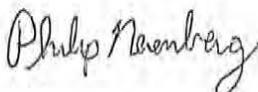
ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B16_062816_0-19 (A6G0072-03)			Matrix: Soil		Batch: 6070313			C-07
Aroclor 1016	ND	---	12.8	ug/kg dry	1	07/13/16 19:41	EPA 8082A	
Aroclor 1221	ND	---	12.8	"	"	"	"	
Aroclor 1232	ND	---	12.8	"	"	"	"	
Aroclor 1242	ND	---	12.8	"	"	"	"	
Aroclor 1248	ND	---	12.8	"	"	"	"	
Aroclor 1254	ND	---	12.8	"	"	"	"	
Aroclor 1260	ND	---	12.8	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>			<i>Recovery: 81 %</i>		<i>Limits: 72-126 %</i>			
B37_062816_0-11 (A6G0072-13)			Matrix: Soil		Batch: 6070313			C-07
Aroclor 1016	ND	---	10.8	ug/kg dry	1	07/13/16 20:17	EPA 8082A	
Aroclor 1221	ND	---	10.8	"	"	"	"	
Aroclor 1232	ND	---	10.8	"	"	"	"	
Aroclor 1242	ND	---	10.8	"	"	"	"	
Aroclor 1248	ND	---	10.8	"	"	"	"	
Aroclor 1254	42.8	---	10.8	"	"	"	"	
Aroclor 1260	ND	---	10.8	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>			<i>Recovery: 92 %</i>		<i>Limits: 72-126 %</i>			
B50_062916_0-18-1 (A6G0072-20)			Matrix: Soil		Batch: 6070313			C-07
Aroclor 1016	ND	---	12.0	ug/kg dry	1	07/13/16 20:52	EPA 8082A	
Aroclor 1221	ND	---	12.0	"	"	"	"	
Aroclor 1232	ND	---	12.0	"	"	"	"	
Aroclor 1242	ND	---	12.0	"	"	"	"	
Aroclor 1248	ND	---	12.0	"	"	"	"	
Aroclor 1254	ND	---	12.0	"	"	"	"	
Aroclor 1260	ND	---	12.0	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl (Surr)</i>			<i>Recovery: 90 %</i>		<i>Limits: 72-126 %</i>			
B51_062916_18-20 (A6G0072-21)			Matrix: Soil		Batch: 6070313			C-07
Aroclor 1016	ND	---	13.0	ug/kg dry	1	07/13/16 21:28	EPA 8082A	
Aroclor 1221	ND	---	13.0	"	"	"	"	
Aroclor 1232	ND	---	13.0	"	"	"	"	
Aroclor 1242	ND	---	13.0	"	"	"	"	
Aroclor 1248	ND	---	13.0	"	"	"	"	
Aroclor 1254	21.9	---	13.0	"	"	"	"	P-10
Aroclor 1260	20.1	---	13.0	"	"	"	"	P-10

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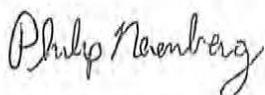
Philip Nerenberg, Lab Director

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ANALYTICAL SAMPLE RESULTS

BTEX Compounds by EPA 8260B

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B15_062916_33-35 (A6G0072-28)			Matrix: Soil		Batch: 6070113			
Benzene	ND	---	18.1	ug/kg dry	50	07/06/16 18:36	5035/8260B	
Toluene	ND	---	90.7	"	"	"	"	
Ethylbenzene	ND	---	45.4	"	"	"	"	
Xylenes, total	ND	---	136	"	"	"	"	
<i>Surrogate: 1,4-Difluorobenzene (Surr)</i>			<i>Recovery: 109 %</i>	<i>Limits: 70-130 %</i>	1	"	"	
<i>Toluene-d8 (Surr)</i>			<i>101 %</i>	<i>Limits: 70-130 %</i>	"	"	"	
<i>4-Bromofluorobenzene (Surr)</i>			<i>95 %</i>	<i>Limits: 70-130 %</i>	"	"	"	



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ANALYTICAL SAMPLE RESULTS

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B46_062916_0-32 (A6G0072-37)			Matrix: Soil		Batch: 6070113			
Gasoline Range Organics	ND	---	5.92	mg/kg dry	50	07/06/16 19:51	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 97 %</i>	<i>Limits: 50-150 %</i>	1	"	"	
<i>1,4-Difluorobenzene (Sur)</i>			<i>110 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
B46_062916_32-34 (A6G0072-38)			Matrix: Soil		Batch: 6070113			
Gasoline Range Organics	ND	---	6.93	mg/kg dry	50	07/06/16 20:40	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 101 %</i>	<i>Limits: 50-150 %</i>	1	"	"	
<i>1,4-Difluorobenzene (Sur)</i>			<i>112 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
B5_062916_0-26 (A6G0072-42)			Matrix: Soil		Batch: 6070113			
Gasoline Range Organics	ND	---	6.64	mg/kg dry	50	07/06/16 21:04	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 101 %</i>	<i>Limits: 50-150 %</i>	1	"	"	
<i>1,4-Difluorobenzene (Sur)</i>			<i>110 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
B5_062916_26-28 (A6G0072-43)			Matrix: Soil		Batch: 6070113			
Gasoline Range Organics	ND	---	6.96	mg/kg dry	50	07/06/16 21:29	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 101 %</i>	<i>Limits: 50-150 %</i>	1	"	"	
<i>1,4-Difluorobenzene (Sur)</i>			<i>113 %</i>	<i>Limits: 50-150 %</i>	"	"	"	



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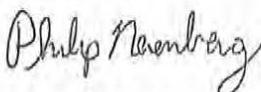
ANALYTICAL SAMPLE RESULTS

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
			Matrix: Soil					
			Batch: 6070113					
Gasoline Range Organics	ND	---	6.42	mg/kg dry	50	07/06/16 16:32	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 106 %</i>	<i>Limits: 50-150 %</i>	1	"	"	
<i>1,4-Difluorobenzene (Sur)</i>			<i>113 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
			Matrix: Soil					
			Batch: 6070113					
Gasoline Range Organics	ND	---	6.06	mg/kg dry	50	07/06/16 16:57	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 105 %</i>	<i>Limits: 50-150 %</i>	1	"	"	
<i>1,4-Difluorobenzene (Sur)</i>			<i>112 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
			Matrix: Soil					
			Batch: 6070113					
Gasoline Range Organics	ND	---	7.81	mg/kg dry	50	07/06/16 17:21	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 112 %</i>	<i>Limits: 50-150 %</i>	1	"	"	
<i>1,4-Difluorobenzene (Sur)</i>			<i>112 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
			Matrix: Soil					
			Batch: 6070113					
Gasoline Range Organics	ND	---	7.52	mg/kg dry	50	07/06/16 17:46	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 108 %</i>	<i>Limits: 50-150 %</i>	1	"	"	
<i>1,4-Difluorobenzene (Sur)</i>			<i>110 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
			Matrix: Soil					
			Batch: 6070113					
Gasoline Range Organics	ND	---	6.23	mg/kg dry	50	07/06/16 18:11	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 106 %</i>	<i>Limits: 50-150 %</i>	1	"	"	
<i>1,4-Difluorobenzene (Sur)</i>			<i>109 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
			Matrix: Soil					
			Batch: 6070113					
Gasoline Range Organics	11.9	---	9.07	mg/kg dry	50	07/06/16 18:36	NWTPH-Gx (MS)	F-12
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 120 %</i>	<i>Limits: 50-150 %</i>	1	"	"	
<i>1,4-Difluorobenzene (Sur)</i>			<i>112 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
			Matrix: Soil					
			Batch: 6070113					
Gasoline Range Organics	ND	---	5.23	mg/kg dry	50	07/06/16 19:01	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 98 %</i>	<i>Limits: 50-150 %</i>	1	"	"	
<i>1,4-Difluorobenzene (Sur)</i>			<i>109 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
			Matrix: Soil					
			Batch: 6070113					
Gasoline Range Organics	ND	---	5.86	mg/kg dry	50	07/06/16 19:26	NWTPH-Gx (MS)	
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 102 %</i>	<i>Limits: 50-150 %</i>	1	"	"	
<i>1,4-Difluorobenzene (Sur)</i>			<i>111 %</i>	<i>Limits: 50-150 %</i>	"	"	"	

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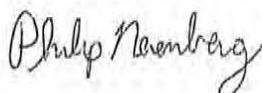
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ANALYTICAL SAMPLE RESULTS

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes	
B16_062816_0-19 (A6G0072-03)			Matrix: Soil	Batch: 6070113					
Gasoline Range Organics	ND	---	6.39	mg/kg dry	50	07/06/16 23:06	NWTPH-Gx (MS)		
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 101 %</i>	<i>Limits: 50-150 %</i>	1	"	"		
<i>1,4-Difluorobenzene (Sur)</i>			<i>112 %</i>	<i>Limits: 50-150 %</i>	"	"	"		
B16_062816_19-21 (A6G0072-04)			Matrix: Soil	Batch: 6070105					
Gasoline Range Organics	ND	---	6.80	mg/kg dry	50	07/06/16 14:53	NWTPH-Gx (MS)		
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 112 %</i>	<i>Limits: 50-150 %</i>	1	"	"		
<i>1,4-Difluorobenzene (Sur)</i>			<i>100 %</i>	<i>Limits: 50-150 %</i>	"	"	"		
B40_062816_0-1 (A6G0072-05)			Matrix: Soil	Batch: 6070113					V-15
Gasoline Range Organics	ND	---	5.62	mg/kg dry	50	07/06/16 15:17	NWTPH-Gx (MS)		
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 106 %</i>	<i>Limits: 50-150 %</i>	1	"	"		
<i>1,4-Difluorobenzene (Sur)</i>			<i>109 %</i>	<i>Limits: 50-150 %</i>	"	"	"		
B40_062816_1-3 (A6G0072-06)			Matrix: Soil	Batch: 6070105					
Gasoline Range Organics	ND	---	5.74	mg/kg dry	50	07/06/16 16:06	NWTPH-Gx (MS)		
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 111 %</i>	<i>Limits: 50-150 %</i>	1	"	"		
<i>1,4-Difluorobenzene (Sur)</i>			<i>100 %</i>	<i>Limits: 50-150 %</i>	"	"	"		
B20_062816_0-13 (A6G0072-09)			Matrix: Soil	Batch: 6070105					
Gasoline Range Organics	ND	---	5.81	mg/kg dry	50	07/06/16 16:49	NWTPH-Gx (MS)		
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 112 %</i>	<i>Limits: 50-150 %</i>	1	"	"		
<i>1,4-Difluorobenzene (Sur)</i>			<i>102 %</i>	<i>Limits: 50-150 %</i>	"	"	"		
B20_062816_13-15 (A6G0072-10)			Matrix: Soil	Batch: 6070105					
Gasoline Range Organics	ND	---	5.50	mg/kg dry	50	07/06/16 17:29	NWTPH-Gx (MS)		
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 112 %</i>	<i>Limits: 50-150 %</i>	1	"	"		
<i>1,4-Difluorobenzene (Sur)</i>			<i>101 %</i>	<i>Limits: 50-150 %</i>	"	"	"		
B37_062816_0-11 (A6G0072-13)			Matrix: Soil	Batch: 6070113					
Gasoline Range Organics	ND	---	5.71	mg/kg dry	50	07/06/16 22:42	NWTPH-Gx (MS)		
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 100 %</i>	<i>Limits: 50-150 %</i>	1	"	"		
<i>1,4-Difluorobenzene (Sur)</i>			<i>111 %</i>	<i>Limits: 50-150 %</i>	"	"	"		
B37_062816_11-13 (A6G0072-14)			Matrix: Soil	Batch: 6070113					
Gasoline Range Organics	ND	---	5.87	mg/kg dry	50	07/06/16 15:42	NWTPH-Gx (MS)		
<i>Surrogate: 4-Bromofluorobenzene (Sur)</i>			<i>Recovery: 97 %</i>	<i>Limits: 50-150 %</i>	1	"	"		
<i>1,4-Difluorobenzene (Sur)</i>			<i>110 %</i>	<i>Limits: 50-150 %</i>	"	"	"		

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 4380 SW Macadam Ave #500
 Portland, OR 97239

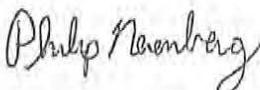
Project: **Linnton Mill**
 Project Number: 1588-001
 Project Manager: Mark Havighorst

Reported:
 08/15/16 17:27

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Cleanup

Analyte	Result	MDL	Reporting		Dilution	Date Analyzed	Method	Notes
			Limit	Units				
B46_062916_0-32 (A6G0072-37)			Matrix: Soil		Batch: 6070141			
Diesel	ND	---	29.4	mg/kg dry	1	07/06/16 23:57	NWTPH-Dx/SG	
Oil	ND	---	58.7	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 84 %</i>		<i>Limits: 50-150 %</i>		<i>"</i>	
B46_062916_32-34 (A6G0072-38)			Matrix: Soil		Batch: 6070141			
Diesel	ND	---	31.0	mg/kg dry	1	07/07/16 00:17	NWTPH-Dx/SG	
Oil	ND	---	62.0	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 84 %</i>		<i>Limits: 50-150 %</i>		<i>"</i>	
B5_062916_0-26 (A6G0072-42)			Matrix: Soil		Batch: 6070141			
Diesel	ND	---	26.9	mg/kg dry	1	07/07/16 00:37	NWTPH-Dx/SG	
Oil	1180	---	53.8	"	"	"	"	F-13
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 93 %</i>		<i>Limits: 50-150 %</i>		<i>"</i>	
B5_062916_26-28 (A6G0072-43)			Matrix: Soil		Batch: 6070141			
Diesel	ND	---	29.2	mg/kg dry	1	07/07/16 00:57	NWTPH-Dx/SG	
Oil	ND	---	58.4	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 90 %</i>		<i>Limits: 50-150 %</i>		<i>"</i>	



Farallon Consulting 4380 SW Macadam Ave #500 Portland, OR 97239	Project: Linnton Mill Project Number: 1588-001 Project Manager: Mark Havighorst	Reported: 08/15/16 17:27
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ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
			Matrix: Soil			Batch: 6070089		
Diesel	ND	---	27.1	mg/kg dry	1	07/06/16 03:13	NWTPH-Dx/SG	
Oil	ND	---	54.1	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 86 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
			Matrix: Soil			Batch: 6070089		
Diesel	ND	---	28.0	mg/kg dry	1	07/06/16 03:33	NWTPH-Dx/SG	
Oil	71.9	---	55.9	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 94 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
			Matrix: Soil			Batch: 6070089		
Diesel	ND	---	34.4	mg/kg dry	1	07/06/16 03:53	NWTPH-Dx/SG	
Oil	151	---	68.8	"	"	"	"	F-03
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 91 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
			Matrix: Soil			Batch: 6070089		
Diesel	ND	---	30.3	mg/kg dry	1	07/06/16 04:13	NWTPH-Dx/SG	
Oil	125	---	60.6	"	"	"	"	F-03
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 95 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
			Matrix: Soil			Batch: 6070089		
Diesel	ND	---	27.2	mg/kg dry	1	07/06/16 05:53	NWTPH-Dx/SG	
Oil	ND	---	54.3	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 92 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
			Matrix: Soil			Batch: 6070089		
Diesel	ND	---	34.2	mg/kg dry	1	07/06/16 06:13	NWTPH-Dx/SG	
Oil	95.5	---	68.5	"	"	"	"	F-03
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 102 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
			Matrix: Soil			Batch: 6070089		
Diesel	ND	---	26.5	mg/kg dry	1	07/06/16 06:32	NWTPH-Dx/SG	
Oil	61.3	---	53.1	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 99 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
			Matrix: Soil			Batch: 6070089		
Diesel	ND	---	26.9	mg/kg dry	1	07/06/16 06:52	NWTPH-Dx/SG	
Oil	147	---	53.9	"	"	"	"	F-03
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 86 %</i>	<i>Limits: 50-150 %</i>	"	"	"	

Apex Laboratories



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.

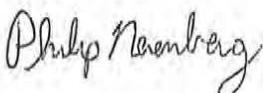
Farallon Consulting 4380 SW Macadam Ave #500 Portland, OR 97239	Project: Linnton Mill Project Number: 1588-001 Project Manager: Mark Havighorst	Reported: 08/15/16 17:27
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ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx with Silica Gel Cleanup

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Date Analyzed	Method	Notes
B16_062816_0-19 (A6G0072-03)			Matrix: Soil	Batch: 6070089				
Diesel	ND	---	27.5	mg/kg dry	1	07/05/16 23:55	NWTPH-Dx/SG	
Oil	135	---	54.9	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 89 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
B16_062816_19-21 (A6G0072-04)			Matrix: Soil	Batch: 6070089				
Diesel	ND	---	28.4	mg/kg dry	1	07/06/16 00:34	NWTPH-Dx/SG	
Oil	ND	---	56.9	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 95 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
B40_062816_0-1 (A6G0072-05)			Matrix: Soil	Batch: 6070089				
Diesel	ND	---	25.0	mg/kg dry	1	07/06/16 01:14	NWTPH-Dx/SG	
Oil	ND	---	50.0	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 94 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
B40_062816_1-3 (A6G0072-06)			Matrix: Soil	Batch: 6070089				
Diesel	ND	---	27.3	mg/kg dry	1	07/06/16 01:34	NWTPH-Dx/SG	
Oil	ND	---	54.5	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 93 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
B20_062816_0-13 (A6G0072-09)			Matrix: Soil	Batch: 6070089				
Diesel	ND	---	25.9	mg/kg dry	1	07/06/16 01:54	NWTPH-Dx/SG	
Oil	ND	---	51.9	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 97 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
B20_062816_13-15 (A6G0072-10)			Matrix: Soil	Batch: 6070089				
Diesel	ND	---	25.7	mg/kg dry	1	07/06/16 02:14	NWTPH-Dx/SG	
Oil	ND	---	51.3	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 103 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
B37_062816_0-11 (A6G0072-13)			Matrix: Soil	Batch: 6070089				
Diesel	ND	---	25.0	mg/kg dry	1	07/06/16 02:34	NWTPH-Dx/SG	
Oil	238	---	50.0	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 94 %</i>	<i>Limits: 50-150 %</i>	"	"	"	
B37_062816_11-13 (A6G0072-14)			Matrix: Soil	Batch: 6070089				
Diesel	ND	---	26.9	mg/kg dry	1	07/06/16 02:54	NWTPH-Dx/SG	
Oil	ND	---	53.7	"	"	"	"	
<i>Surrogate: o-Terphenyl (Surr)</i>			<i>Recovery: 96 %</i>	<i>Limits: 50-150 %</i>	"	"	"	

Apex Laboratories



Philip Nerenberg, Lab Director

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Farallon Consulting

4380 SW Macadam Ave #500
Portland, OR 97239

Project: **Linnton Mill**

Project Number: 1588-001

Project Manager: Mark Havighorst

Reported:

08/15/16 17:27

ANALYTICAL CASE NARRATIVE

Work Order: A6G0072

Amended Report Revision 2:

EPA Method 8081 Pesticides Additional Analytes Reported and ID change.

This report supersedes all previous reports.

All 8081 Pesticides: Originally reported data without 2,4-DDT, 2,4-DDE and 2,4-DDD. Sample extracts were re-analyzed and analytes are now included in report. Blank Spike and Matrix Spike results do not include 2,4-DDT, 2,4-DDE and 2,4-DDD. Analytes were not included in spikes used during extraction.

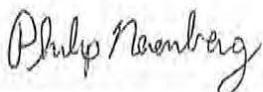
Sample A6G0072-31 was incorrectly reported as B7_062916_10-13 on previous report versions. It has been changed to the correct ID of B7_062916_0-13 on this report.

Rev 1

Mark Zehr
Organics Manager
8/5/2016

Rev 2

Philip Nerenberg
Lab Director
8/15/16



Farallon Consulting
 4380 SW Macadam Ave #500
 Portland, OR 97239

Project: **Linnton Mill**
 Project Number: 1588-001
 Project Manager: Mark Havighorst

Reported:
 08/15/16 17:27

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B16_062816_0-19	A6G0072-03	Soil	06/28/16 15:00	06/29/16 16:30
B16_062816_19-21	A6G0072-04	Soil	06/28/16 15:00	06/29/16 16:30
B40_062816_0-1	A6G0072-05	Soil	06/28/16 15:10	06/29/16 16:30
B40_062816_1-3	A6G0072-06	Soil	06/28/16 15:10	06/29/16 16:30
B20_062816_0-13	A6G0072-09	Soil	06/28/16 15:40	06/29/16 16:30
B20_062816_13-15	A6G0072-10	Soil	06/28/16 15:40	06/29/16 16:30
B37_062816_0-11	A6G0072-13	Soil	06/28/16 16:20	06/29/16 16:30
B37_062816_11-13	A6G0072-14	Soil	06/28/16 16:20	06/29/16 16:30
B50_062916_0-18	A6G0072-19	Soil	06/29/16 08:40	06/29/16 16:30
B50_062916_0-18-1	A6G0072-20	Soil	06/29/16 08:40	06/29/16 16:30
B50_062916_18-20	A6G0072-21	Soil	06/29/16 08:40	06/29/16 16:30
B50_062916_18-20-1	A6G0072-22	Soil	06/29/16 08:40	06/29/16 16:30
B15_062916_0-33	A6G0072-27	Soil	06/29/16 09:30	06/29/16 16:30
B15_062916_33-35	A6G0072-28	Soil	06/29/16 09:30	06/29/16 16:30
B7_062916_0-13	A6G0072-31	Soil	06/29/16 10:00	06/29/16 16:30
B7_062916_13-15	A6G0072-32	Soil	06/29/16 10:00	06/29/16 16:30
B46_062916_0-32	A6G0072-37	Soil	06/29/16 10:40	06/29/16 16:30
B46_062916_32-34	A6G0072-38	Soil	06/29/16 10:40	06/29/16 16:30
B5_062916_0-26	A6G0072-42	Soil	06/29/16 11:30	06/29/16 16:30
B5_062916_26-28	A6G0072-43	Soil	06/29/16 11:30	06/29/16 16:30



Monday, August 15, 2016

Mark Havighorst
Farallon Consulting
4380 SW Macadam Ave #500
Portland, OR 97239

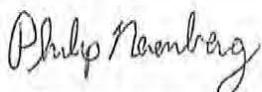
RE: Linnton Mill / 1588-001

Enclosed are the results of analyses for work order A6G0072, which was received by the laboratory on 6/29/2016 at 4:30:00PM.

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

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.

Apex Laboratories



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.

ATTACHMENT B
LABORATORY ANALYTICAL RESULT SUMMARY TABLES

**APPLICATION FOR TIER II SOLID WASTE BENEFICIAL USE
DETERMINATION**

**Linnton Mill Site
10504 Northwest Saint Helens Road, Portland, Oregon**

Farallon PN: 1588-001

G. FEES (Must accompany the application for it to be considered complete)

<input type="checkbox"/>	Tier 1 beneficial use determination	\$1,000
<input checked="" type="checkbox"/>	Tier 2 beneficial use determination	\$2,000
<input type="checkbox"/>	Tier 3 beneficial use determination	\$5,000

Make checks out to: **Oregon DEQ**

Total fees included: \$2,000.00

H. APPLICATION PROCEDURE

Step 1

Contact a DEQ staff person for assistance with the preparation of the application. DEQ staff will help with: 1) Determination of the eligibility for a beneficial use determination of a particular waste or process; and, 2) If eligible, establish the tier of beneficial use determination review required and associated fee to submit with the application.

Step 2

Mail the original signed application, all attachments, including the fee payment plus one extra copy to the appropriate regional office (see listing below.) Note that DEQ review work will not begin until a complete application packet is received. Incomplete applications may be returned. DEQ recommends the applicant keep a full copy of all application materials to guard against possible loss in transit.

Step 3

DEQ will contact the applicant, acknowledging receipt of the application, and will identify the staff person assigned to carryout the review. This staff person will contact the applicant if any additional information is needed.

Region	Counties Served	Address & Phone
Eastern Region	Baker, Crook, Deschutes, Gilliam, Grant, Harney, Hood River, Jefferson, Klamath, Lake, Malheur, Morrow, Sherman, Umatilla, Union, Wallowa, Wasco, and Wheeler	Eastern Region Department of Environmental Quality 400 E Scenic Drive, Ste 2.307 The Dalles, OR 97058 (541) 298-7255 ext. 221
Northwest Region	Clatsop, Clackamas, Columbia, Multnomah, Tillamook, and Washington	Northwest Region DEQ Solid Waste Programs 700 NE Multnomah Street, Suite 600 Portland, OR 97232 (503) 229-5353
Western Region	Benton, Coos, Curry, Douglas, Jackson, Josephine, Lane, Lincoln, Linn, Marion, Polk, and Yamhill	Western Region DEQ Solid Waste Programs 750 Front St. NE Suite 120 Salem, OR 97301 (503) 378-5047

**ATTACHMENT A
APPLICATION FOR A SOLID WASTE BENEFICIAL USE
DETERMINATION**

**APPLICATION FOR TIER II SOLID WASTE BENEFICIAL USE
DETERMINATION**

**Linnton Mill Site
10504 Northwest Saint Helens Road, Portland, Oregon**

Farallon PN: 1588-001