



City of Portland

Permitting and Inspections Department

Business Name: SCHNITZER NORTHEAST

Classification: Scrap Metal Recycling Facilities

Business Location: 568 RIVERSIDE ST
Portland, ME 04101

Description:

Owner: PROLERIZED NEW ENGLAND CO. LLC

License Number: 5299

Issued Date: 12/22/2022

Expiration Date: 9/30/2025

A handwritten signature in cursive script that reads 'Jessica Blais Hanscombe'.

Jessica Blais Hanscombe,
Director of Permitting and Inspections

**THIS LICENSE IS NOT TRANSFERRABLE
PLEASE POST IN A CONSPICUOUS PLACE**

BILLING CONTACT

PROLERIZED NEW ENGLAND CO. LLC
10850 Gold Center Dr, Suite 350 Attn Licensing Department
Rancho Cordova, Ca 95670

Planning and Urban Development
Kevin Kraft, AICP
Deputy Director



To: Danielle West, Interim City Manager
From: Kevin Kraft, Deputy Director, Planning & Urban Development
Date: November 9, 2022
RE: Prolerized New England Company, LLC, Scrap Metal Recycling License

Prolerized New England Company, LLC seeks renewal of their scrap metal recycling facilities license. Formerly located in Bayside, Prolerized moved to a new state of the art facility at 568 Riverside Street in 2010. Chapter 31 of the City's Code of ordinances requires a relicensing of the facility on a tri-annual basis; the license was previously renewed in 2013, 2016, and 2019.

The standards for renewing a scrap metal facility license are addressed under sec. 31-9 of the ordinance (process and standards for renewal of a license) as shown below. The submitted application meets the standards.

- a. An application for a renewal of license pursuant to sec. 31-6 (c) shall identify which information, if any, required on the original application pursuant to sec. 31-7, has been changed or modified since the application was filed.

This information has been provided. No relevant information has been modified.

- b. The applicant shall submit evidence that it conducted any soil and groundwater testing required under the scrap metal recycling facilities ordinance and its prior license and that it submitted the results of such testing to the department.

The applicant has submitted the results of recent groundwater testing on the site in their renewal application. The results of the testing are acceptable. They indicate that the test results are below Maine DEP Benchmarks and are in line with what is required under the ordinance.

- c. If the results of the prior required testing resulted in the city requiring that the applicant submit and implement a remedial action plan, then the applicant must submit evidence that is implemented the remedial action plan.

Not applicable. A remedial action plan was not required.

- d. If the City Council finds that the standard of subsection [a], [b], and [c] above have been met, the City Council shall issue a renewal of the license.

The above standards have been met.

- e. Renewed licenses are subject to environmental testing requirements for the three-year renewal period.

The applicant has followed an Environmental Monitoring Plan (EMP) for the facility that consisted of surface water monitoring three time per year at a wet pond outfall on the site, as required by a MaineDEP license. The monitoring results included in the renewal application show that the facility complies with applicable stormwater requirements. Standard e. has been met.



CITY OF PORTLAND
 Permitting and Inspections Department
SCRAP METAL RECYCLING FACILITIES PERMIT APPLICATION
 CHAPTER 31, PORTLAND CITY CODE §31-1 et. seq.

Please check one: (Corporation/ LLC/ Non-profit org.) (Sole Proprietor) (Partnership)

Property Owner's Name: Prorized New England Co., LLC Phone: 207-772-8329

Property Owner's Address: 69 Rover St., Everett, MA Zip 02149
 *If the property is owned by more than one entity please supplement above information on an additional sheet of paper.

Business Name: Schnitzer Northeast Phone: 617-389-8300

Location Address: 568 Riverside Street Portland, ME Zip 04103

Mailing Address: Attn:Licensing 10860 Gold Center Dr., Suite 250 Zip 09560
Rancho Cordova, CA

Contact Person: Virginia Dye Phone: 916-8585-5809

Manager of Business Joseph Murphy Home Phone # 207-310-4070

Does the issuance of this license benefit any City employee? Yes No
 If yes, please list name(s) of employee(s) and City Department(s):

Have applicant, partners, associates, or corporate officers ever been arrested, indicted, convicted or court martialled for any violation of law? No Yes If yes, please explain: N/A

Have any of the applicants, including the corporation if applicable, ever held a business license with the City of Portland? Yes No. If yes, please list business name(s) and location(s):

This is a renewal application: 568 Riverside St
 Is any principal officer under the age of 18? Yes No

Please list items or general type of items for sale, if any: N/A

Ref:	Date: 20Sep22	SHIPPING:	15.66
Dep:	Wgt: 1.00 LBS	SPECIAL:	3.05
		HANDLING:	0.00
	DV:	0.00 TOTAL:	18.71

Svc: STANDARD OVERNIGHT
 TRK: 5832 7605 8110



CITY OF PORTLAND

Permitting and Inspections Department

SOLE PROPRIETOR / PARTNERSHIP INFORMATION: (if corporation, leave blank)

Name of Owner(s): _____ Date of Birth _____
Residence Zip Code _____

Name of Owner(s): _____ Date of Birth _____
Residence Zip Code _____

Name of Owner(s): _____ Date of Birth _____
Residence Zip Code _____

CORPORATE / LLC / NON-PROFIT ORGANIZATION APPLICANTS: (if sole proprietor, leave blank)

Corporation Name: _____

Corporation Mailing Address: _____ ZIP _____

Contact Person: _____ Phone Number: _____

PRINCIPAL OFFICERS: (if more space is needed, please attach a separate page)

Name Michael Henderson Title President Date of Birth _____
Residence Zip Code 97201

Name _____ Title _____ Date of Birth _____
Residence Zip Code _____

Name _____ Title _____ Date of Birth _____
Residence Zip Code _____

Name _____ Title _____ Date of Birth _____
Residence Zip Code _____

Name _____ Title _____ Date of Birth _____
Residence Zip Code _____

Name _____ Title _____ Date of Birth _____
Residence Zip Code _____

This is renewal and information is already provided in our packet



CITY OF PORTLAND
Permitting and Inspections Department

Please provide the following information and check all items for which information has been submitted. **20 COPIES MUST BE SUBMITTED WITH THIS APPLICATION FOR DISTRIBUTION TO CITY DEPARTMENTS. Incomplete packets will not be accepted.**

- ___ The maximum storage height of any piles of metal or other material.
- ___ A map of the location of any areas on the site used for processing, preparing or storage of materials.
- ___ A map of the location of any sand and/or gravel aquifer and/or any sand and gravel aquifer recharge area as described on the Maine Geological Survey significant aquifer map for the Portland West Quadrangle (GSM Map No. 99-11) or as mapped by a State of Maine certified geologist or other competent professional.
- ___ A map of the location of any residences, schools, public parks, public playgrounds, public bathing beaches, churches, or cemeteries within 500 feet of the area where metal and/or materials will be stored or processed.
- ___ A map of the boundaries of the 100-year floodplain.
- ___ A map of any sand or gravel aquifer on or adjacent to the site as mapped by the Maine Geological Survey or by a licensed geologist.
- ___ A map of any waterbody, watercourse or wetland on or within 300 feet of the site.
- ___ A site plan that complies with chapter 14, section 525(b) as files for approval by the Portland Planning Department/Board.
**Please note date of site plan submission at Planning Office, 4th floor, City Hall: _____, 200__
- ___ Results and data from on-site and off-site soil sampling and testing, which testing complies with the Rules attached hereto.
- ___ Results and data from on-site and off-site groundwater sampling and testing, which testing complies with the Rules attached hereto.
- ___ A depiction of any and all screening of the site.
- ___ *Other information.*
 - ___ 1. The types of metal processed on the site.
 - ___ 2. The types of waste handled and the average volume per year per material.

389 Congress Street, Room 307 • Portland, Maine 04101 • 207-874-8557
bl@portlandmaine.gov • www.portlandmaine.gov

This is renewal and information is already provided in our packet



CITY OF PORTLAND
Permitting and Inspections Department

- 3. A description of the protocol for handling waste and the destination to which that waste is sent.
4. An operations manual as described in chapter 402 of the Maine Department of Environmental Protection regulations.
5. Operational records as described in chapter 402 of the Maine Department of Environmental Protection regulations.
6. An annual report as described in chapter 402 of the Maine Department of Environmental Protection regulations.

[Empty rectangular box]

Renewal Application

X If this is a renewal application, please provide evidence of annual testing completed according to the Rules attached to this application.

[Empty rectangular box]

Applicant, by signature below, agrees to abide by all laws, orders, ordinances, rules and regulations governing the above license and further agrees that any misstatement of material fact may result in refusal of license or revocation if one has been granted. Applicant agrees that all taxes and accounts pertaining to the premises, or otherwise owed to the City by the Applicant, will be paid prior to issuance of the license. It is understood that this and any application(s) shall become public record and the applicant(s) hereby waive(s) any rights to privacy with respect thereto. I/We, hereby waive any rights to privacy with respect thereto.

Signature [Signature] Title President Date 9.10.22
License fee \$541 plus costs
Application fee \$45 new \$35 renewal
Total Due
License Expires 9/30/



A C O R N

ENGINEERING, INC.

Prepared: March 2022
Submitted: July 29, 2022

Mr. Gary Raddatz
Regional Environmental Manager
Schnitzer Steel Industries, Inc.
25 Sandquist Street
Concord, NH 03301

**Subject: 2021 Annual Solid Waste Permit Stormwater Monitoring Report
Prolerized New England Company LLC, Portland, Maine**

Dear Mr. Raddatz:

This letter report summarizes stormwater monitoring activities performed between Q1 2021 (January 1, 2021) and Q4 2021 (December 31, 2021) at the Prolerized New England Company LLC (PNE) Portland facility, located at 568 Riverside Street in Portland, Maine (the Site). Stormwater monitoring at the Site is performed in accordance with the requirements of PNE solid waste processing facility license S-022289-WK-A-N, and the existing Site Operations Manual, including the facility Stormwater Pollution Prevention Plan (SWPPP).

Background/Overview

Stormwater Monitoring Locations

At the PNE Portland facility, stormwater outfalls associated with industrial activity include Outfall SW-1 (wet pond) and Outfall SW-3 (loading dock). Sample locations are shown on the attached Site Plan (**Attachment A**).

Runoff at stormwater outfall SW-2 is associated with the employee/visitor parking lot and the entrance driveway in the southeastern corner of the Site. While this area is impacted by vehicular traffic and parking, scrap metal recycling operations (e.g., industrial activity) are not conducted in this area of the Site.

Solid Waste Facility License Requirements

Monitoring at the Site under the solid waste license for the facility (S-022289-WK-A-N), issued for the Site by the Maine Department of Environmental Protection (MEDEP), requires triannual collection and analysis of surface water samples (after a 0.5" or greater storm event) from the wet pond outlet (Outfall SW-1) for petroleum hydrocarbons. Outfall SW-1 is shown on Figure C2C - Site Map with Sample Locations.



A C O R N Engineering, Inc. • www.acorn-engineering.com
207-775-2655 • PO Box 3372 • Portland • Maine • 04104

Stormwater Monitoring

Stormwater monitoring samples collected by Acorn Engineering, Inc. (Acorn) during the 2021 monitoring period were obtained from outfall SW-1 on January 2, March 18, and July 9, 2021. Historical weather data for the three monitoring events is summarized below:

Date	Runoff type	Rainfall Amount (in)	Previous Rainfall Event (with runoff)
01/02/2021	Rain	0.90	12/25/2020
03/18/2021	Rain	0.20 ¹	03/01/2021
07/09/2021	Rain	3.10	07/04/2021

Note: historical weather data for the Portland International Jetport weather station obtained from Weather Underground - <https://www.wunderground.com/history/daily/us/me/portland/KPWM>.

1. Inspector personally observed enough precipitation to create an adequate discharge from the facility outfalls.

Sample Collection and Analysis

Stormwater samples were collected in accordance with the procedures outlined in the PNE Operations Manual. These procedures specify collection of a sample within the first 60 minutes, but not more than 2.25 hours, from the time stormwater begins to discharge from the outfall.

Stormwater samples submitted for laboratory analysis from outfall SW-1 were collected by Acorn on January 2, March 18 and, July 9, 2021. To avoid cross-contamination, samples were collected directly into the laboratory-provided containers. The stormwater samples collected during the monitoring events were placed on ice and transported under separate chain of custody procedures to Alpha Analytical in Westborough, MA, for analysis of the following parameter:

- Total petroleum hydrocarbons (TPH) by United States Environmental Protection Agency (USEPA) Analytical Method 8015D(M) and Extraction Method 3510C

Findings

Monitoring Results

Based on the requirements of the solid waste license for the facility (S-022289-WK-A-N), three analytical monitoring events were completed at SW-1 for the 2021 monitoring period. Analytical data for samples collected from SW-1 during the 2021 monitoring period report the following:

- TPH levels in samples collected at SW-1 during the 2021 monitoring period were reported between 0.45 mg/L and 1.52 mg/L, with an average concentration of 1.01 mg/L, well below the 100 mg/L benchmark.

Analytical results from samples collected at the Wet Pond outfall (SW-1) during the monitoring periods between 2016 to 2021 are summarized in Table 1 and included as **Attachment B**. A copy of the laboratory analysis reports for samples collected during the 2021 monitoring period is included as **Attachments C, D, and E**. No samples exceeded their respective criteria.

Conclusions

Stormwater monitoring was performed during the 2021 monitoring period to meet the requirements of the PNE solid waste license (S-022289-WK-A-N). Findings reported from samples collected during the 2021 monitoring period are in compliance with the facility-specific solid waste requirements and are consistent with historic results from previous stormwater monitoring events at the facility.

Recommendations

Acorn has no recommendations related to the solid waste facility license requirements at this time. Please do not hesitate to contact me with comments or questions on this report.

Sincerely,



Aubrey L. Strause, PE
Municipal Services Coordinator

cc: William H. Savage, PE, Acorn Engineering, Inc.

Attachments

Attachment A: Site Plan
Attachment B: Stormwater Monitoring Results 2016-2021
Attachment C: Laboratory Data Package L2100031 (1/2/21)
Attachment D: Laboratory Data Package L2114380 (3/18/21)
Attachment E: Laboratory Data Package L2137207 (7/9/21)



Attachment A: Site Plan

ISSUED FOR	DATE	BY
SWPPP	8/25/18	MJA
2020 MON RPT	1/25/20	JDS
	2/22/21	

REVISION	REV	DATE

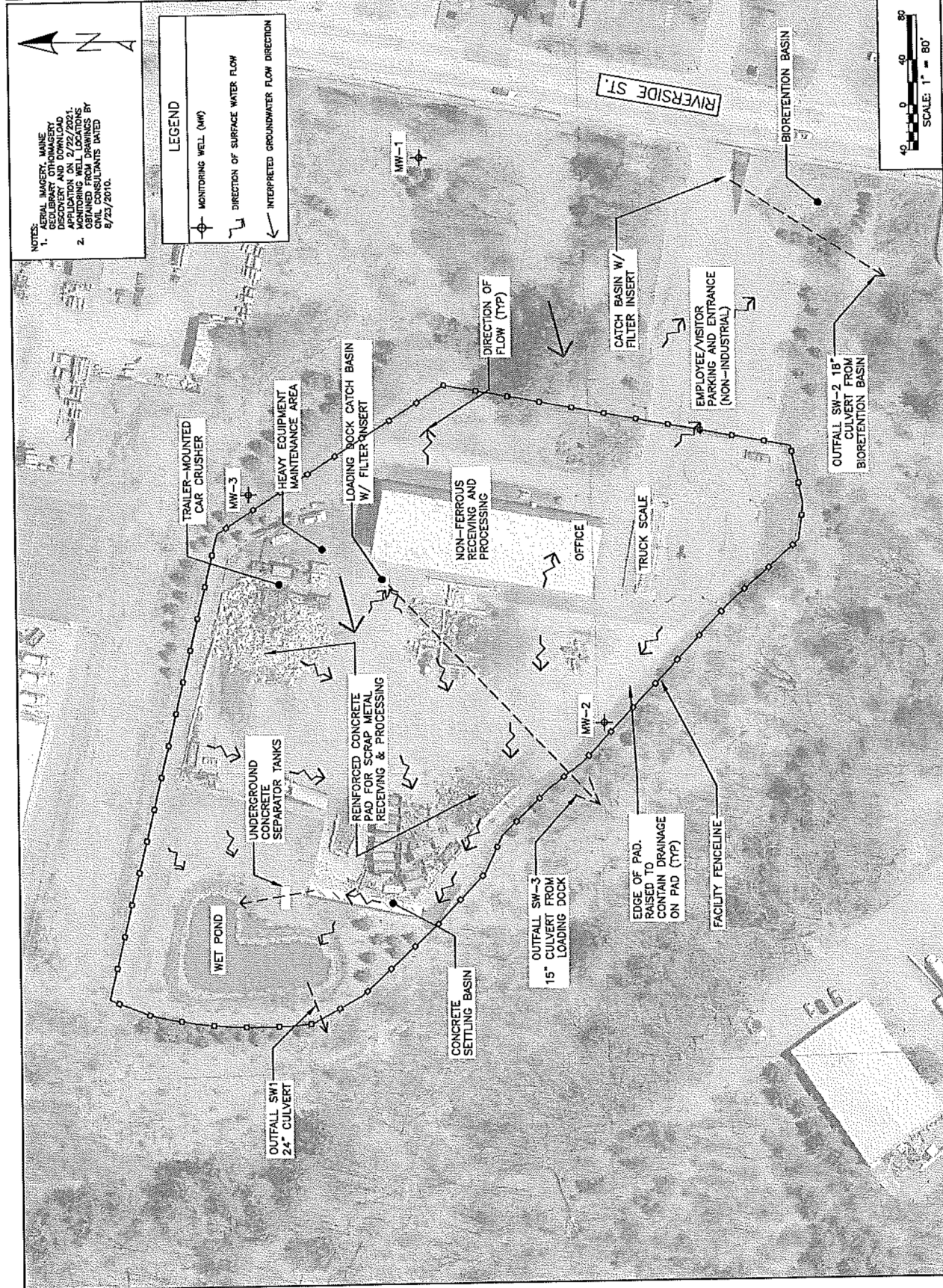
DRAWING NAME: SITE PLAN W/ SAMPLE LOCATIONS
 PROJECT NAME: 2020 ANNUAL STORMWATER MONITORING REPORT
 CLIENT: SCHNITZER STEEL
 568 RIVERSIDE ST. PORTLAND, MAINE

ACORN ENGINEERING, INC.
 65 HANOVER STREET
 PORTLAND, MAINE 04101
 (207) 775-2655

FILE: 5000.1_CIVIL
 JN: 5000.1
 SCALE: 1"=60'
 DESIGN BY: ZMS
 DRAWN BY: ZMS
 LAB: ZMS
 LAB: ZMS

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM ACORN ENGINEERING, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO ACORN ENGINEERING, INC.

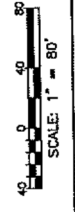
DRAWING NO. **C-2C**



NOTES:
 1. AERIAL IMAGERY, MAINE GEOGRAPHIC INFORMATION SYSTEM, PORTLAND, MAINE, APPLICATION ON 2/22/2021.
 2. MONITORING WELL LOCATIONS OBTAINED FROM DRAWINGS BY CIVIL CONSULTANTS DATED 6/25/2016.

LEGEND

- MONITORING WELL (MW)
- DIRECTION OF SURFACE WATER FLOW
- INTERPRETED GROUNDWATER FLOW DIRECTION



Attachment B: Stormwater Monitoring Results 2016-2021

2021 Annual Stormwater Monitoring Report
Prolerized New England Company LLC
Portland, Maine

Stormwater Analytical Results Summary
2016 to 2021

Sample ID	Sample Date	Quarter	Lab Package	Benchmark Value ¹	6.0 - 9.0	100	100
				Parameter Units	pH SU	TSS mg/L	TPH* mg/L
	<i>2021 Average</i>				-	-	1.01
SW-1	7/9/2021	Q3 2021	L2137207		NA	NA	1.06
SW-1	3/18/2021	Q1 2021	L2114380		NA	NA	0.45
SW-1	1/2/2021	Q4 2020	L2100031		NA	NA	1.52
SW- 1	<i>2020 Average</i>				-	-	0.65
	9/30/2020	Q3 2020	L2041796		NA	NA	0.276
	6/29/2020	Q2 2020	L2027410		NA	NA	0.684
	3/13/2020	Q1 2020	L2011939		NA	NA	1.0
	<i>2019 Average</i>				-	-	1.04
	10/23/2019	Q4 2019	L1950105		NA	NA	0.62
	5/28/2019	Q2 2019	L1923163		NA	NA	1.41
	9/18/2018	Q3 2018	SL9172		NA	NA	1.6
	6/4/2018	Q2 2018	L1821133		NA	NA	0.537
SW- 1	3/26/2018	Q1 2018			NA	NA	ND
SW- 3					8.9	ND	ND
SW- 1	12/13/2017	Q4 2017			8.4	4.2	0.108
SW- 1	10/25/2017	Q4 2017			8.4	9.7	ND
SW- 2					8.5	ND	0.146
SW- 3					8.3	8.6	0.28
SW- 1	5/31/2017	Q2 2017			NM	17	0.19
SW- 2					NM	86	ND
SW- 3					NM	ND	ND
SW- 1	3/8/2017				7.2	10	0.13
SW- 2					7.5	82	0.81
SW- 3					7.3	99	10.66
SW- 1	11/3/2016				NA	NA	1.16
SW- 1	9/27/2016				NA	NA	ND
SW- 1	6/6/2016				NA	NA	5.3

Notes:

1 = Maine December 2016 Maine Multi-Sector General Permit (MSGP) Sector N Monitoring Benchmarks. Benchmark levels listed in milligrams per liter (mg/L).

TSS = Total Suspended Solids

* = EPH analyses performed prior to June 2018.

SU = Standard units

mg/L = Milligrams per liter

SW = Storm water Sample Location

SW-1 = Wet Pond Outlet

SW-2 = Culvert discharge from bioretention basin

SW-3 = Culvert discharge from loading dock drain

NA = Not analyzed; Results from 4 consecutive quarterly events reported below benchmarks. Visual monitoring performed.

+ = Sample represents runoff flowing over impervious surfaces last used for industrial purposes on 12/31/20. Facility closed between 1/1/2021 and 1/2/2021.

NM = Not Measured

ND = Not detected above laboratory reporting limit

Attachment C: Laboratory Data Package L2100031 (1/2/21)



ANALYTICAL REPORT

Lab Number:	L2100031
Client:	Acorn Engineering Inc. 65 Hanover St. Portland, ME 04104
ATTN:	Lucas Benedict
Phone:	(207) 775-2655
Project Name:	SCHNITZER PORTLAND
Project Number:	5000.1
Report Date:	01/08/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: SCHNITZER PORTLAND
Project Number: 5000.1

Lab Number: L2100031
Report Date: 01/08/21

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time	Receive Date
L2100031-01	SW-1	PORTLAND, ME	01/02/21 09:25	01/04/21

Matrix
WATER



Project Name: SCHNITZER PORTLAND
Project Number: 5000.1

Lab Number: L2100031
Report Date: 01/08/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Jennifer L. Clements

Title: Technical Director/Representative

Date: 01/08/21



ORGANICS

PETROLEUM HYDROCARBONS

Serial_No:01082116:41

Project Name: SCHNITZER PORTLAND
Project Number: 5000.1

Lab Number: L2100031
Report Date: 01/08/21

SAMPLE RESULTS

Lab ID: L2100031-01
Client ID: SW-1
Sample Location: PORTLAND, ME

Date Collected: 01/02/21 09:25
Date Received: 01/04/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8015D(M)
Analytical Date: 01/05/21 19:23
Analyst: SC

Extraction Method: EPA 3510C
Extraction Date: 01/05/21 11:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH (C10-C36)	1520		ug/l	200	--	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
o-Terphenyl			68		40-140	



Serial_No:01082116:41

Project Name: SCHNITZER PORTLAND
Project Number: 5000.1

Lab Number: L2100031
Report Date: 01/08/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 01/05/21 17:39
Analyst: SC

Extraction Method: EPA 3510C
Extraction Date: 01/05/21 11:36

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01 Batch: WG1451704-1					
TPH (C10-C36)	ND		ug/l	200	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	81		40-140



Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHNITZER PORTLAND
Project Number: 5000.1

Lab Number: L2100031
Report Date: 01/08/21

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01 Batch: WG1451704-2								
TPH (C10-C36)	68		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria
o-Terphenyl	64				40-140



Serial_No:01082116:41
 Lab Number: L2100031
 Report Date: 01/08/21

Project Name: SCHNITZER PORTLAND
 Project Number: 5000.1

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information
 Cooler Custody Seal
 A Absent

Container Information		Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
Container ID	Container Type							
L2100031-01A	Amber 500ml unpreserved	7	7	2.5	Y	Absent		TPH-DRO-D(7)
L2100031-01B	Amber 500ml unpreserved	7	7	2.5	Y	Absent		TPH-DRO-D(7)

*Values in parentheses indicate holding time in days



Project Name: SCHNITZER PORTLAND
Project Number: 5000.1

Lab Number: L2100031
Report Date: 01/08/21

GLOSSARY

Acronyms

- DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
- EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
- EPA - Environmental Protection Agency.
- LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD - Laboratory Control Sample Duplicate: Refer to LCS.
- LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
- MSD - Matrix Spike Sample Duplicate: Refer to MS.
- NA - Not Applicable.
- NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detected at the parameter's reporting unit.
- NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.
- NI - Not Ignitable.
- NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
- NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
- RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
- SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
- STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
- TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
- TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
- TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: SCHNITZER PORTLAND
Project Number: 5000.1

Lab Number: L2100031
Report Date: 01/08/21

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.
Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.) If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report



Project Name: SCHNITZER PORTLAND
Project Number: 5000.1

Lab Number: L2100031
Report Date: 01/08/21

Data Qualifiers

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Project Name: SCHNITZER PORTLAND
Project Number: 5000.1

Lab Number: L2100031
Report Date: 01/08/21

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at its own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.
 Facility: Company-wide
 Department: Quality Assurance
 Title: Certificate/Approval Program Summary

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

EPA TO-12 Non-methane organics

EPA 3C Fixed gases

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1:

Ammonia-N, LCHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg.

EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Attachment D: Laboratory Data Package L2114380 (3/18/21)



ANALYTICAL REPORT

Lab Number:	L2114380
Client:	Acorn Engineering Inc. 65 Hanover St. Portland, ME 04104
ATTN:	Lucas Benedict
Phone:	(207) 775-2655
Project Name:	SCHNITZER STEEL
Project Number:	5000.1
Report Date:	03/30/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: SCHNITZER STEEL
Project Number: 5000.1

Lab Number: L2114380
Report Date: 03/30/21

**Alpha
Sample ID**
L2114380-01

Client ID
SW-1

**Sample
Location**
PORTLAND, ME

Matrix
WATER

**Collection
Date/Time**
03/18/21 16:55

Receive Date
03/23/21



Project Name: SCHNITZER STEEL
Project Number: 5000.1

Lab Number: L2114380
Report Date: 03/30/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative

Date: 03/30/21

ORGANICS



PETROLEUM HYDROCARBONS

Serial_No:03302112:15

Project Name: SCHNITZER STEEL
Project Number: 5000.1

Lab Number: L2114380
Report Date: 03/30/21

SAMPLE RESULTS

Lab ID: L2114380-01
Client ID: SW-1
Sample Location: PORTLAND, ME

Date Collected: 03/18/21 16:55
Date Received: 03/23/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8015D(M)
Analytical Date: 03/25/21 18:05
Analyst: JB

Extraction Method: EPA 3510C
Extraction Date: 03/25/21 03:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH (C10-C36)	450		ug/l	200	--	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
o-Terphenyl			83		40-140	



Serial_No:03302112:15

Project Name: SCHNITZER STEEL
Project Number: 5000.1

Lab Number: L2114380
Report Date: 03/30/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 03/25/21 16:20
Analyst: JB

Extraction Method: EPA 3510C
Extraction Date: 03/25/21 03:27

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01 Batch: WG1478494-1					
TPH (C10-C36)	ND		ug/l	200	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	85		40-140



Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHNITZER STEEL
 Project Number: 5000.1

Lab Number: L2114380
 Report Date: 03/30/21

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01 Batch: WG1478494-2								
TPH (C10-C36)	102	-	-	-	40-140	-	-	40

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria
o-Terphenyl	91	-	-	-	40-140



Serial_No:03302112:15
Lab Number: L2114380
Report Date: 03/30/21

Project Name: SCHNITZER STEEL
Project Number: 5000.1

Sample Receipt and Container Information

YES

Were project specific reporting limits specified?

Cooler Information
Cooler A Custody Seal Absent

Container Information
Container ID L2114380-01A Container Type Amber 1000ml unpreserved

Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
A	7	7	3.7	Y	Absent		TPH-DRO-D(7)



Project Name: SCHNITZER STEEL
Project Number: 5000.1

Lab Number: L2114380
Report Date: 03/30/21

GLOSSARY

Acronyms

- DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
- EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
- EPA - Environmental Protection Agency.
- LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCS D - Laboratory Control Sample Duplicate: Refer to LCS.
- LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
- MSD - Matrix Spike Sample Duplicate: Refer to MS.
- NA - Not Applicable.
- NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.
- NI - Not Ignitable.
- NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
- NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
- RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
- SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
- STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
- TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
- TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
- TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: SCHNITZER STEEL
Project Number: 5000.1

Lab Number: L2114380
Report Date: 03/30/21

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report



Project Name: SCHNITZER STEEL
Project Number: 5000.1

Lab Number: L2114380
Report Date: 03/30/21

Data Qualifiers

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Project Name: SCHNITZER STEEL
Project Number: 5000.1

Lab Number: L2114380
Report Date: 03/30/21

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.
 Facility: **Company-wide**
 Department: **Quality Assurance**
 Title: **Certificate/Approval Program Summary**

ID No.:17873
 Revision 18
 Published Date: 2/16/2021 5:32:02 PM
 Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
 EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
 EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
 SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS
 EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
 EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
 Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B
 EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.
 Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LCHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.
 EPA 624.1: Volatile Halocarbons & Aromatics,
 EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
 EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.
 Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
 EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
 EPA 245.1 Hg.
 SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA Job #: **L2114380**

Date Rec'd in Lab: **3/23/21**

Report Information - Data Deliverables

Project Information

Project Name: **SEALED STEEL**

Project Location: **PORTLAND, ME**

Project #: **5000.1**

Project Manager: **L. BENEDETTO**

ALPHA Quote #: **-**

Turn-Around Time

Standard

RUSH (only available for pre-approved work)

Date Due:

Additional Project Information:

Client: **ACOM ENGINEERING, INC**

Address: **65 HANOVER STREET**

Site: **1 PORTLAND ME 04101**

Phone: **207-775-2655**

Email: **headoffice@acomeng.com**

Regulatory Requirements & Project Information Requirements

- Yes No MA MCP Analytical Methods
- Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
- Yes No GW1 Standards (Info Required for Metals & EPH with Targets)
- Yes No NPDES RGP
- Other State/Fed Program: **MA STATE SWQS** Criteria **SEALED STEEL WATER**

Report Information - Data Deliverables

- ADEX
- EMAIL

Billing Information

- Same as Client info
- PO #:

ANALYSIS	VOC: <input type="checkbox"/> 8260 <input type="checkbox"/> 824 <input type="checkbox"/> 5242	SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH	METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15	METALS: <input type="checkbox"/> RCRAS <input type="checkbox"/> RCRAB <input type="checkbox"/> RCP 13	EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	VPH: <input type="checkbox"/> PCB <input type="checkbox"/> PEST	TPH: <input checked="" type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint	SAMPLE INFO
									<input type="checkbox"/> Filtration <input type="checkbox"/> Field <input type="checkbox"/> Lab to do <input type="checkbox"/> Preservation <input type="checkbox"/> Lab to do
									Sample Comments

TOTAL BOTTLES

- Container Type
- P= Plastic
 - A= Amber glass
 - V= Vial
 - G= Glass
 - B= Bacteria cup
 - C= Cube
 - O= Other
 - E= Embore
 - D= BOD Bottle
- Preservative
- A= None
 - B= HCl
 - C= HNO3
 - D= H2SO4
 - E= NaOH
 - F= NaOH
 - G= NaHSO4
 - H= Na2S2O8
 - I= Ascorbic Acid
 - J= NH4Cl
 - K= Zn Acetate
 - Q= Other

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	3/23/21 11:40	<i>[Signature]</i>	3/23/21 11:40
<i>[Signature]</i>	3/23/21 17:15	<i>[Signature]</i>	3/23/21 17:15

Container Type	Preservative
A	A
A	A

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side. FORM NO: 01-01 (rev. 12-Mar-2012)

Attachment E: Laboratory Data Package L2137207 (7/9/21)



ANALYTICAL REPORT

Lab Number:	L2137207
Client:	Acorn Engineering Inc. 65 Hanover St. Portland, ME 04101
ATTN:	Lucas Benedict
Phone:	(207) 775-2655
Project Name:	SCHNITZER PORTLAND
Project Number:	5000.1
Report Date:	07/19/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: SCHNITZER PORTLAND
Project Number: 5000.1

Lab Number: L2137207
Report Date: 07/19/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2137207-01	SW-1	WATER	PORTLAND, ME	07/09/21 13:05	07/12/21



Project Name: SCHNITZER PORTLAND
Project Number: 5000.1

Lab Number: L2137207
Report Date: 07/19/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

Caitlin Walukevich Caitlin Walukevich

Title: Technical Director/Representative

Date: 07/19/21

ORGANICS

PETROLEUM HYDROCARBONS

Serial_No:07192115:28

Project Name: SCHNITZER PORTLAND
Project Number: 5000.1

Lab Number: L2137207
Report Date: 07/19/21

SAMPLE RESULTS

Lab ID: L2137207-01
Client ID: SW-1
Sample Location: PORTLAND, ME

Date Collected: 07/09/21 13:05
Date Received: 07/12/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8015D(M)
Analytical Date: 07/15/21 07:05
Analyst: AG

Extraction Method: EPA 3510C
Extraction Date: 07/14/21 08:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH (C10-C36)	1060		ug/l	200	--	1
Surrogate			% Recovery	Qualifier	Acceptance Criteria	
o-Terphenyl			70		40-140	



Serial_No:07192115:28

Project Name: SCHNITZER PORTLAND
Project Number: 5000.1

Lab Number: L2137207
Report Date: 07/19/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 07/15/21 07:30
Analyst: AG

Extraction Method: EPA 3510C
Extraction Date: 07/14/21 08:47

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01 Batch: WG1523651-1					
TPH (C10-C36)	ND		ug/l	200	--

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	82		40-140



Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHNITZER PORTLAND
 Project Number: 5000.1

Lab Number: L2137207
 Report Date: 07/19/21

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01 Batch: WG1523651-2								
TPH (C10-C36)	98		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria
o-Terphenyl	88				40-140



Serial_No:07192115:28
 Lab Number: L2137207
 Report Date: 07/19/21

Project Name: SCHNITZER PORTLAND
 Project Number: 5000.1

Sample Receipt and Container Information

YES

Were project specific reporting limits specified?

Cooler Information
 Cooler A Custody Seal Absent

Container Information
 Container ID L2137207-01A Container Type Amber 1000ml unpreserved

Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
A	7	7	2.6	Y	Absent		TPH-DRO-D(7)



Project Name: SCHNITZER PORTLAND
Project Number: 5000.1

Lab Number: L2137207
Report Date: 07/19/21

GLOSSARY

Acronyms

- DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
- EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
- EPA - Environmental Protection Agency.
- LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD - Laboratory Control Sample Duplicate: Refer to LCS.
- LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
- MSD - Matrix Spike Sample Duplicate: Refer to MS.
- NA - Not Applicable.
- NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.
- NI - Not Ignitable.
- NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
- NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
- RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
- SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
- STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
- TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
- TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
- TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: SCHNITZER PORTLAND
Project Number: 5000.1

Lab Number: L2137207
Report Date: 07/19/21

Footnotes

- I** - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report



Project Name: SCHNITZER PORTLAND

Lab Number: L2137207

Project Number: 5000.1

Report Date: 07/19/21

Data Qualifiers

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Project Name: SCHNITZER PORTLAND
Project Number: 5000.1

Lab Number: L2137207
Report Date: 07/19/21

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.
 Facility: **Company-wide**
 Department: **Quality Assurance**
 Title: **Certificate/Approval Program Summary**

ID No.: **17873**
 Revision 19
 Published Date: 4/2/2021 1:14:23 PM
 Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
 EPA 625/625.1: alpha-Terpineol
 EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
 EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.
 SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility

SM 2540D: TSS
 EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.
 EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
 Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B
 EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.
 Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LCHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.
 EPA 624.1: Volatile Halocarbons & Aromatics,
 EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
 EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.
 Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg.
 EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
 EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
 EPA 245.1 Hg.
 SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 1



320 Forbes Blvd
Methuen, MA 02846
Tel: 508-898-9220

5 Walnut Drive
Westboro, MA 01581
Tel: 508-898-9220

Project Information

Project Name: SHUTTER FOOTING

Project Location: FOOTING, ME

Project #: 5000.1

Project Manager: L. BEHRENS

ALPHA Quote #:

Turn-Around Time:

Standard RUSH (only available if pre-approved)

Date Due:

Report Information - Data Deliverables

ADSEX EMAIL

Regulatory Requirements & Project Information Requirements

- Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods
- Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
- Yes No GW1 Standards (Info Required for Metals & EPH with Targets)
- Yes No NPDES RCP
- Other State / Fed. Program MAINE Criteria ME SWAC

Billing Information

Same as Client info. PO # 5000.1

Date Rec'd in Lab: 7/12/21

ALPHA Job #: L2137207

Additional Project Information:

Email: lbehrens@alphaeng.com

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials
<u>51207-01</u>	<u>Sw-1</u>	<u>7/12/21</u>	<u>1300</u>	<u>Water</u>	<u>LB</u>

ANALYSIS		SAMPLE INFO	
VOC: <input type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 5242	<input type="checkbox"/> PAH	Filtration	<input type="checkbox"/> Lab to do
METALS: <input type="checkbox"/> ABN <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 16	<input type="checkbox"/> PEST	Field	<input type="checkbox"/> Lab to do
METALS: <input type="checkbox"/> RCRAS <input type="checkbox"/> RCRAB <input type="checkbox"/> PPI3	<input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	Preservation	<input type="checkbox"/> Lab to do
EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	<input type="checkbox"/> PCB <input type="checkbox"/> PEST	Sample Comments	
VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	<input type="checkbox"/> TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint		

- Container Type**
- A= Plastic
 - B= Amber glass
 - C= Vial
 - D= Glass
 - E= Beakers cup
 - F= Other
 - G= Encore
 - H= BOD Bottle
- Preservative**
- A= None
 - B= HCl
 - C= HNO3
 - D= H2SO4
 - E= NaOH
 - F= MeOH
 - G= NaH2SO4
 - H= Na2S2O8
 - I= Ascorbic Acid
 - J= NH4Cl
 - K= Zn Acetate
 - L= Other

Container Type	<u>A</u>
Preservative	<u>A</u>

Relinquished By: J. L. Behrens Date/Time: 7/12/21 1300 Sample Matrix: Water Sampler Initials: LB

Received By: J. L. Behrens Date/Time: 7/12/21 1335 Sample Matrix: Water Sampler Initials: LB

Alpha Job #: L2137207

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO. 81-01 (rev. 12-16-2012)

INVOICE

CITY OF PORTLAND
LICENSING & REGISTRATION
389 Congress Street
Portland, Maine 04101
(207) 756-8131



INVOICE NUMBER	INVOICE DATE	INVOICE DUE DATE	INVOICE STATUS	INVOICE DESCRIPTION
INV-00069751	07/29/2022	08/28/2022	Invoiced, Past Due	NONE

REFERENCE NUMBER	FEE NAME	TOTAL
5299	Renewal Application Fee	\$35.00
	Scrap Metal Recycling Facilities Renewal	\$541.00
Schnitzer Northeast - 568 Riverside St Portland, ME 04101		SUB TOTAL
		\$576.00

*Paid online w/ credit card
on 10/12/2022*

TOTAL **\$576.00**

BILLING CONTACT

PROLIERIZED NEW ENGLAND CO. LLC
10860 Gold Center Dr, Suite 250 Attn Licensing Department
Rancho Cordova, Ca 95670

Make checks payable to the City of Portland, ATTN: Licensing & Registration, 389 Congress Street, Portland, ME 04101

