



Discharge Monitoring Report 1200-Z Permit

National Pollutant Discharge Elimination System Permit
Industrial Stormwater Discharge General Permit

Instructions:

This report must be completed for each quarter and submitted by the 15th of February, May, August and November to the appropriate agent. The report must contain the results of all stormwater monitoring conducted during each quarter, and variance requests are due semi-annually, in February and August. Sample for the pollutants at monitoring location(s) specified in your SWPCP and use the monitoring location(s) number from your SWPCP. You must include the laboratory results, including minimum detection level, Quality Assurance/Quality Control and analytical methods for the parameters analyzed. You must also submit pH field notes and chain of custody.

Facility Information

Legal name:	<u>Northwest Natural Gas Company</u>	DEQ File No:	<u>62231</u>
Common name:	<u>NW Natural</u>	EPA #:	<u>ORR706061</u>
Facility address:	<u>7900 NW St. Helens Rd</u>	Reporting Quarter:	<input type="checkbox"/> 1st <input type="checkbox"/> 2nd <input checked="" type="checkbox"/> 3rd <input type="checkbox"/> 4th <small>*see table 7</small>
Facility City, Zip:	<u>Portland, OR 97210</u>	Reporting Year:	<u>2022 to 2023</u>
Geo-Region:	<u>Portland Harbor</u>	2nd Geo-Region:	<u>Select</u>
Is your receiving water impaired for pH?	<u>No</u>	Administered by:	<input type="checkbox"/> Clean Water Services <input checked="" type="checkbox"/> City of Portland <input type="checkbox"/> City of Eugene
Primary SIC Code:	<u>4925</u>	Secondary SIC Code:	<u></u>

Monitoring Information

Number of discharge point(s):	<u>1</u>	Number of monitoring location(s):	<u>1</u>
If different, you certify that the facility has established either: 1) the area has no exposure of stormwater to industrial activities, or 2) the effluent is substantially similar to effluent(s) monitored and the same BMPs are implemented and maintained. (See permit pg 23)			

Monitoring Waiver(s) If yes list date on DEQ or Agent approval letter.

<u>1/25/2023</u>			

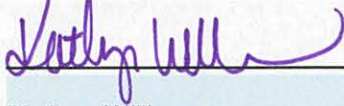
DMR Submittal Checklist

Please check all applicable documents are included with you DMR submittal:

- Original Signature Laboratory Reports Chain of Custody QA/QC form Lab pH field sheets

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations (40 CFR 122.22(d)).

Signature:		Date:	<u>4/26/2023</u>
Printed Name:	<u>Kathryn Williams</u> Legally Authorized Representative	Title:	<u>Vice President of Public Affairs</u>
		Email:	<u>kathryn.williams@nwnatural.com</u>
		Telephone :	<u>503.220.2370</u>



Updated 1/6/2022

For official use only:

Legal Name:

DEQ File No:

Instructions:

This report must be completed for each quarter and submitted by the 15th of February, May, August and November electronically through Your DEQ Online. The report must contain the results of all stormwater monitoring conducted during each quarter, and variance requests are due semi-annually, in February and August. Sample for the pollutants specified in your monitoring table provided by your DEQ at monitoring point(s) identified in your SWPCP. You must upload the laboratory results, including minimum detection level, Quality Assurance/Quality Control and analytical methods for the parameters analyzed. You must also submit pH field notes and chain of custody.

Portland Harbor

Monitoring Location(s)	Sample Date	pH	Total Copper	Total Lead	Total Zinc	Total Suspended Solids	E. coli	Total Iron
		s.u.	mg/L	mg/L	mg/L	mg/L	organisms/100 mL	mg/L
001	3.24.2023	W	W	W	W	W		1.55
Geometric Mean			W	W	W	W		2
Geometric Mean								
Geometric Mean								
Geometric Mean								
You must select if your receiving water is impaired for pH in the 'General' tab								
Benchmarks	5.5-9.0	0.015	0.24	0.24	0.24	30		
303(d) Limits	OOPS	0.015	0.017	0.04			406	10



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Thursday, April 13, 2023
Kendra Skellenger
Anchor QEA, LLC
6720 SW Macadam Ave. Suite 125
Portland, OR 97219

RE: A3C0954 - Gasco 1200Z Stormwater Sampling - 000029-02.84 T14.014E

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

Enclosed are the results of analyses for work order A3C0954, which was received by the laboratory on 3/24/2023 at 8:41:00AM.

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

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

Cooler Receipt Information

(See Cooler Receipt Form for details)

Default Cooler 1.3degC

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



Apex Laboratories

Darwin Thomas signature

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

Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

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

<u>Anchor OEA, LLC</u> 6720 SW Macadam Ave. Suite 125 Portland, OR 97219	Project: <u>Gasco 1200Z Stormwater Sampling</u> Project Number: 000029-02.84 T14.014E Project Manager: Kendra Skellenger	<u>Report ID:</u> A3C0954 - 04 13 23 1356
--	--	--

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
O107-03-032423	A3C0954-01	Water	03/24/23 07:45	03/24/23 08:41

Apex Laboratories

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--	--	--

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
O107-03-032423 (A3C0954-01)		Matrix: Water						
Batch: 23D0131								
Iron	1.55	0.0250	0.0500	mg/L	1	04/05/23 16:31	EPA 200.8	

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QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23D0131 - EPA 3015A						Water						
Blank (23D0131-BLK1)			Prepared: 04/05/23 06:50 Analyzed: 04/05/23 14:47									
<u>EPA 200.8</u>												
Iron	ND	0.0250	0.0500	mg/L	1	---	---	---	---	---	---	
LCS (23D0131-BS1)			Prepared: 04/05/23 06:50 Analyzed: 04/05/23 14:52									
<u>EPA 200.8</u>												
Iron	2.81	0.0250	0.0500	mg/L	1	2.78	---	101	85-115%	---	---	
Duplicate (23D0131-DUP1)			Prepared: 04/05/23 06:50 Analyzed: 04/05/23 15:02									
<u>QC Source Sample: Non-SDG (A3C0899-01)</u>												
Iron	0.223	0.0250	0.0500	mg/L	1	---	0.223	---	---	0.09	20%	
Matrix Spike (23D0131-MS1)			Prepared: 04/05/23 06:50 Analyzed: 04/05/23 15:17									
<u>QC Source Sample: Non-SDG (A3C0899-01)</u>												
<u>EPA 200.8</u>												
Iron	2.96	0.0250	0.0500	mg/L	1	2.78	0.223	99	70-130%	---	---	
Matrix Spike (23D0131-MS2)			Prepared: 04/05/23 06:50 Analyzed: 04/05/23 15:27									
<u>QC Source Sample: Non-SDG (A3C0899-02)</u>												
<u>EPA 200.8</u>												
Iron	3.78	0.0250	0.0500	mg/L	1	2.78	0.989	101	70-130%	---	---	

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--	--	--

SAMPLE PREPARATION INFORMATION

Total Metals by EPA 200.8 (ICPMS)

Prep: EPA 3015A			Sample	Default	RL Prep
Lab Number	Matrix	Method	Initial/Final	Initial/Final	Factor
Batch: 23D0131					
A3C0954-01	Water	EPA 200.8	03/24/23 07:45	04/05/23 06:50	45mL/50mL
					45mL/50mL 1.00

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Anchor OEA, LLC

6720 SW Macadam Ave. Suite 125
Portland, OR 97219

Project: Gasco 1200Z Stormwater Sampling

Project Number: 000029-02.84 T14.014E

Project Manager: Kendra Skellenger

Report ID:

A3C0954 - 04 13 23 1356

QUALIFIER DEFINITIONS

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

There are No Qualifiers on Sample or QC Data for this report

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

- DET Analyte DETECTED at or above the detection or reporting limit.
- ND Analyte NOT DETECTED at or above the detection or reporting limit.
- NR Result Not Reported
- RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

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

Reporting Limits: Limit of Quantitation (LOQ)

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

Reporting Conventions:

- Basis: Results for soil samples are generally reported on a 100% dry weight basis.
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.
 - "dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")
See Percent Solids section for details of dry weight analysis.
 - "wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.
 - " " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

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

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

Miscellaneous Notes:

- " --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.
- " *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to 1/2 the Reporting Limit (RL).
-For Blank hits falling between 1/2 the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.

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Project Number: 000029-02.84 T14.014E

Project Manager: Kendra Skellenger

Report ID:

A3C0954 - 04 13 23 1356

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

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

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

Apex Laboratories

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

Table with 3 columns: Client (Anchor QEA, LLC), Project (Gasco 1200Z Stormwater Sampling), and Report ID (A3C0954 - 04 13 23 1356).

LABORATORY ACCREDITATION INFORMATION

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

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

Apex Laboratories

Table with 6 columns: Matrix, Analysis, TNI_ID, Analyte, TNI_ID, Accreditation. Includes a note: All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

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

Subcontract Laboratory Accreditations

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

Field Testing Parameters

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

Apex Laboratories

Handwritten signature of Darwin Thomas

Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

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6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Anchor QEA, LLC

6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco 1200Z Stormwater Sampling

Project Number: 000029-02.84 T14.014E

Project Manager: Kendra Skellenger

Report ID:

A3C0954 - 04 13 23 1356

Lab # A3C0954 coc 1 of 1

CHAIN OF CUSTODY

APEX LABS

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

Company: ~~Anchor~~ Anchor QEA Project Mgr: Kendra Skellenger Project Name: Gasco 1200Z Stormwater Sampling PO #
 Address: 6720 S. Macadam Av. #125 Portland, OR Phone: 503-670-1108 Email: k.skellenger@anchorage.com Project #: 000029-02.84 T14.014E

Stamped by: Casey Montgomery / LST
 Site Location: Oregon
 State: Oregon
 County: Washington
 SAMPLE ID: 0107-03-052423

DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-DX	NWTPH-GS	8260 BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	8270 Semi-Volat Full List	8082 PCBs	8081 Pesticides	RCRA Metals (8)	Priority Metals (13)	Al, Sh, As, Ba, Br, Cd, Cr, Cu, Ni, Pb, Se, Zn	Hg, Mg, Mn, Mo, Ni, K, S, Ag, Na, Ti, V, Zn	TCLP Metals (9)	TCLP DISS. (OTM)	Sr, Ag, Na, Ti, V, Zn	TCPL Metals (8)	Hold Sample	Frozen Archive	
3/24/23	0745	WAF	1																						

SPECIAL INSTRUCTIONS: Analyze for Total Iron only.

Standard Turn Around Time (TAT) = 10 Business Days

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

SAMPLES ARE HELD FOR 30 DAYS

RECEIVED BY:	Signature:	Date:	Time:	Company:
RECEIVED BY:	[Signature]	3/24/23	14:43	[Company]
RECEIVED BY:	[Signature]			[Company]

Form Y-002 R-00

Apex Laboratories

Darwin Thomas (Signature)

Darwin Thomas, Business Development Director

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6720 SW Macadam Ave. Suite 125

Portland, OR 97219

Project: Gasco 1200Z Stormwater Sampling

Project Number: 000029-02.84 T14.014E

Project Manager: Kendra Skellenger

Report ID:

A3C0954 - 04 13 23 1356

APEX LABS COOLER RECEIPT FORM

Client: Anchor OEA Element WO#: A3C0954

Project/Project #: Gasco 3Q 2023 1200Z Stormwater Sampling 000029-02.84 T14.014E

Delivery Info:

Date/time received: 3/24/23 @ 8:11 By: JS

Delivered by: Apex Client ESS FedEx UPS Radio Morgan SDS Evergreen Other

Cooler Inspection Date/time inspected: 3/24/23 @ 9:40 By: JS

Chain of Custody included? Yes X No

Signed/dated by client? Yes X No

Table with 8 columns: Cooler #1 to Cooler #8. Rows include Temperature (°C), Custody seals? (Y/N), Received on ice? (Y/N), Temp. blanks? (Y/N), Ice type: (Gel/Real/Other), Condition (In/Out).

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

Green dots applied to out of temperature samples? Yes No

Out of temperature samples form initiated? Yes No

Sample Inspection: Date/time inspected: 3/27/23 @ 12:00 By: RAM

All samples intact? Yes X No Comments:

Bottle labels/COCs agree? Yes X No Comments:

COC/container discrepancies form initiated? Yes No X

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

Do VOA vials have visible headspace? Yes No NA X

Comments:

Water samples: pH checked: Yes X No NA pH appropriate? Yes X No NA

Comments:

Additional information:

Labeled by: RAM

Witness: DSS

Cooler Inspected by: KRS

Form Y-003 R-00

Apex Laboratories

Darwin Thomas signature

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FIELD SAMPLING DATA SHEET



6720 SW Macadam Ave, Suite 125, Portland, OR 97219
Office: (503) 670-1108

PROJECT NAME: 1200Z Stormwater Monitoring 000029-02.84 Location ID: Outfall 107

SITE ADDRESS: 7900 NW St Helens Rd, Portland, OR BLIND ID: O107-03-032423

Easting: 7624051.869 Northing: 705434.910

WIND FROM: N NE E SE (S) SW W NW (L) MEDIUM HEAVY
WEATHER: SUNNY PRTLY CLDY CLOUDY (RAIN) No Wind TEMPERATURE: 38 °F

YSI Calibration

Date:	3/24/23		
Probe S/N:	GASCO #2		
Calibration Solution	Initial	Final	Temperature
pH 4.01	3.99	4.00	18.7
pH 7.0	7.01	7.07	18.9

Water Quality Data

Sampling Method:	Grab
Time (24 hour):	0745
pH (SU):	7.82

§ METHODS: (A) Grab (B) Composite (C) Disposable Bailer (D) Peristaltic Pump (E) Waterra inertial pump (F) Other _____

STORMWATER SAMPLING

Date: 3/24/23 Time: 0745 Method: Grab [if used]

Bottle Type	#	Volume	Preservative [circle]	Ice	Filter	pH	[if used]
VOA Glass	3	40 ml	HCl	YES	NO	---	√
Amber Glass	5	1L	None	YES	NO	---	
Green Poly	1	125ml	NaOH	YES	NO	---	
Red Poly-total	(1)	(250ml)	(HNO ₃)	(YES)	(NO)	---	√
Red Poly-dissolved**	1	250ml	HNO ₃	YES	YES	---	
White Poly**	1	250ml	None	YES	NO	---	
Amber Glass*	2	1L	HCl	YES	NO	---	

Total Bottles (include duplicate count): 1 VOA Trip Blank (circle if collected)

BOTTLE TYPE	ANALYSIS PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA vial - Glass	VOCs by EPA 624 (3 VOAs)
AMBER - Glass (Unpreserved)	PAHs/HCB by EPA 625 (1L) Pesticides by EPA 608 (1L) PCBs by EPA 608 (1L)
AMBER - Glass (Preserved)	Oil and Grease by EPA 1664A (2L)
GREEN - Poly	Free Cyanide (ASTM D4282) and WAD Cyanide (SM 4500-CN I) (1 x 125 mL for both)
RED DISSOLVED - Poly**	Dissolved Metals (Cu, Pb) by EPA 200.8
RED TOTAL - Poly	Total Metals (Cu, (Fe), Pb, Zn) by EPA 200.8 (250 mL) Total Mercury by EPA 245.1 (250 mL)
WHITE - Poly	TSS by SM2540 D

Comments:
Turbidity = 15.78 NTUS

SAMPLER: Casey Montgomery
(PRINTED NAME)

[Signature]
(SIGNATURE)