

Tena Seeds, PE
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Northwest Region Toxics Cleanup Program
Washington State Department of Ecology
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Date: October 11, 2024
Subject: Progress Report – Third Quarter 2024
Agreed Order No. DE 18042
Facility Site Identification No. 75486194
Cleanup Site Identification No. 14604
Time Oil Bulk Terminal – BNSF Property
Seattle, WA

Dear Ms. Seeds,

On behalf of BNSF Railway Company (BNSF), Arcadis U.S., Inc. (Arcadis) is providing this quarterly progress report for the Time Oil Bulk Terminal – BNSF Property (Site) in accordance with Section VII Subsection D of Agreed Order No. DE 18042 between the Washington Department of Ecology (Ecology) and BNSF. This progress report documents activities completed between July 1 and September 30, 2024 (Third Quarter 2024 [Reporting Period]).

Activities and Deliverables from Prior Reporting Period

- Collected remedial investigation data in accordance with the Remedial Investigation Work Plan (RIWP; Arcadis 2023) on September 2 through September 6, 2024. Investigatory work included gauging of groundwater levels, collection of groundwater chemical/geochemical samples, and performing hydraulic conductivity testing on the Site.
- Removed remedial investigation-derived waste from the Site on September 16, 2024.

Deviations from Required Tasks

- None during the Reporting Period.

Deviations from Scope of Work and Schedule

- None during the Reporting Period.

Laboratory and Field Data Received

- Groundwater gauging and elevation data collected in accordance with the RIWP are included as Attachment 1.

Ms. Tena Seeds
Washington State Department of Ecology
October 11, 2024

- Laboratory analytical data collected in accordance with the RIWP are included as Attachment 2. Analytical data will be uploaded to Ecology's Environmental Information Management System post-data validation.

Planned Activities and Deliverables for the Upcoming Reporting Period

- Arcadis will prepare the Draft Remedial Investigation Report for Ecology review within 90 days of receiving the final round of validated laboratory data to summarize the data collected during the remedial investigation.

Please contact me with any questions or comments regarding this quarterly progress report.

Sincerely,
Arcadis U.S., Inc.



Kyle Haslam
Project Manager

Email: kyle.haslam@arcadis.com
Direct Line: 206-719-6991
Mobile: 206-726-4753

CC. Scott MacDonald, BNSF
Shane DeGross, BNSF
Matt Annis, Arcadis
Emily Zikmund, Arcadis

References:

Arcadis 2023. Remedial Investigation Work Plan, Time Oil Bulk Terminal – BNSF Property, Seattle, WA.
Prepared for BNSF Railway Company. June 26.

Attachments: Attachment 1 – Groundwater Elevation and LNAPL Measurements
Attachment 2 – Laboratory Analytical Report

Attachment 1
 Groundwater Elevation and LNAPL Measurements
 Progress Report - Third Quarter 2024
 Time Oil Bulk Terminal – BNSF Property
 Seattle, Washington



Well Designation	Water Bearing Zone	TOC Elevation (feet NAVD88)	Total Depth (feet btoc)	Date	Depth to LNAPL (feet btoc)	Apparent LNAPL Thickness (feet)	Depth to Water (feet btoc)	Groundwater Elevation (feet NAVD88)
01MW92	Perched	58.51	16.5	9/3/2024	--	--	16.34	42.17
01MW93	Shallow	58.99	38.7	9/3/2024	--	--	28.30	30.69
01MW94	Shallow	58.57	39.5	9/3/2024	--	--	29.86	28.71
01MW95	Shallow	59.32	36.3	9/3/2024	--	--	28.19	31.13
01MW96	Perched	59.59	15.0	9/3/2024	--	--	14.71	44.88
01MW97	Perched	58.83	14.6	9/3/2024	--	--	10.09	48.74
01MW98	Perched	57.78	14.4	9/3/2024	--	--	11.46	46.32
MW-BN-01	Perched	58.01	14.9	9/3/2024	--	--	13.58	44.43
MW-BN-02	Perched	58.60	14.9	9/3/2024	--	--	12.24	46.36
MW-BN-03	Shallow	59.45	37.7	9/3/2024	--	--	29.09	30.36
MW-BN-04	Perched	59.55	14.9	9/3/2024	--	--	14.63	44.92
MW-BN-05	Perched	59.56	14.9	9/3/2024	--	--	13.29	46.27

Acronyms and Abbreviations:

- = Not Applicable
- btoc = below top of casing
- LNAPL = light nonaqueous phase liquid
- NAVD88 = North American Vertical Datum of 1988



ARCADIS - BNSF Region 2

Sample Delivery Group: L1775338
Samples Received: 09/07/2024
Project Number: 30195976
Description: BNSF Time Oil Bulk Terminal - Seattle, WA
Site: BNSF TIME OIL
Report To: Kyle Haslam
1420 5th Avenue, Suite 2400
Seattle, WA 98101

Entire Report Reviewed By:



Andi R Jones
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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SAMPLE SUMMARY

MW-BN-05_240905 L1775338-01 GW

Collected by
Collected date/time
Received date/time

09/05/24 07:55 09/07/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2360870	1	09/18/24 23:42	09/19/24 12:42	JTM	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2362180	1	09/25/24 13:08	09/26/24 10:58	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2361156	1	09/12/24 15:49	09/12/24 15:49	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2361379	1	09/12/24 18:15	09/12/24 18:15	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2361729	1	09/13/24 16:12	09/16/24 15:33	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2360961	1	09/12/24 07:54	09/13/24 01:30	JRM	Mt. Juliet, TN



TRIP BLANKS L1775338-02 GW

Collected by
Collected date/time
Received date/time

09/05/24 00:00 09/07/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2361379	1	09/12/24 15:04	09/12/24 15:04	JHH	Mt. Juliet, TN

EB_240905 L1775338-03 GW

Collected by
Collected date/time
Received date/time

09/05/24 15:00 09/07/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2361156	1	09/12/24 11:36	09/12/24 11:36	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2361379	1	09/12/24 15:23	09/12/24 15:23	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2361729	1	09/13/24 16:12	09/16/24 15:53	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2360961	1	09/12/24 07:54	09/13/24 01:51	JRM	Mt. Juliet, TN

01MW93_240904 L1775338-04 GW

Collected by
Collected date/time
Received date/time

09/04/24 10:15 09/10/24 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 353.2	WG2359802	1	09/11/24 22:58	09/11/24 22:58	RTW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2359572	1	09/10/24 19:10	09/10/24 19:10	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2362115	1	09/14/24 05:13	09/14/24 05:13	ASH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2362183	1	09/25/24 10:35	09/25/24 14:38	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2362192	1	09/25/24 11:20	09/25/24 15:52	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2361156	1	09/12/24 16:11	09/12/24 16:11	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2362406	10	09/14/24 10:58	09/14/24 10:58	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2362238	1	09/15/24 16:53	09/16/24 11:37	DMG	Mt. Juliet, TN

01MW94_240904 L1775338-05 GW

Collected by
Collected date/time
Received date/time

09/04/24 15:20 09/10/24 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 353.2	WG2359802	1	09/11/24 23:01	09/11/24 23:01	RTW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2359572	1	09/10/24 19:23	09/10/24 19:23	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2362115	1	09/14/24 05:58	09/14/24 05:58	ASH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2362183	1	09/25/24 10:35	09/25/24 14:43	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2362197	1	09/25/24 23:08	09/26/24 11:05	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2361156	1	09/12/24 16:33	09/12/24 16:33	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2361379	1	09/12/24 18:34	09/12/24 18:34	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2362238	1	09/15/24 16:53	09/16/24 11:58	DMG	Mt. Juliet, TN

SAMPLE SUMMARY

01MW95_240904 L1775338-06 GW

Collected by
Collected date/time
Received date/time

09/04/24 16:22 09/10/24 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 353.2	WG2359802	1	09/11/24 23:04	09/11/24 23:04	RTW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2359572	1	09/10/24 19:35	09/10/24 19:35	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2362115	1	09/14/24 06:20	09/14/24 06:20	ASH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2362184	1	09/23/24 15:02	09/24/24 16:57	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2362197	1	09/25/24 23:08	09/26/24 11:03	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2361379	1	09/12/24 18:53	09/12/24 18:53	JHH	Mt. Juliet, TN



01MW98_240904 L1775338-07 GW

Collected by
Collected date/time
Received date/time

09/04/24 13:10 09/10/24 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 353.2	WG2359802	1	09/11/24 23:12	09/11/24 23:12	RTW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2359572	1	09/10/24 19:48	09/10/24 19:48	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2362115	1	09/14/24 07:31	09/14/24 07:31	ASH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2362184	1	09/23/24 15:02	09/24/24 17:10	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2362197	1	09/25/24 23:08	09/26/24 11:06	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2361156	1	09/12/24 16:54	09/12/24 16:54	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2362406	20	09/14/24 10:38	09/14/24 10:38	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2362238	1	09/15/24 16:53	09/16/24 12:18	DMG	Mt. Juliet, TN

MW-BN-01_240905 L1775338-08 GW

Collected by
Collected date/time
Received date/time

09/05/24 09:10 09/10/24 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 353.2	WG2359802	1	09/11/24 23:13	09/11/24 23:13	RTW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2359572	1	09/10/24 20:01	09/10/24 20:01	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2362115	1	09/14/24 07:54	09/14/24 07:54	ASH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2362184	1	09/23/24 15:08	09/24/24 17:14	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2362197	1	09/25/24 23:08	09/26/24 11:08	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2361156	1	09/12/24 17:16	09/12/24 17:16	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2361379	1	09/12/24 19:12	09/12/24 19:12	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2362238	1	09/15/24 16:53	09/16/24 12:38	DMG	Mt. Juliet, TN

MW-BN-02_240905 L1775338-09 GW

Collected by
Collected date/time
Received date/time

09/05/24 10:05 09/10/24 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010D	WG2362184	1	09/23/24 15:02	09/24/24 17:17	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2362197	1	09/25/24 23:08	09/26/24 11:10	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2361156	1	09/12/24 17:38	09/12/24 17:38	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2361379	1	09/12/24 19:31	09/12/24 19:31	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2362238	1	09/15/24 16:53	09/17/24 11:36	DMG	Mt. Juliet, TN

MW-BN-03_240903 L1775338-10 GW

Collected by
Collected date/time
Received date/time

09/03/24 15:00 09/10/24 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 353.2	WG2359802	1	09/11/24 23:14	09/11/24 23:14	RTW	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2359572	1	09/10/24 20:14	09/10/24 20:14	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2362984	1	09/15/24 17:34	09/15/24 17:34	TMH	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2362184	1	09/23/24 15:02	09/24/24 17:21	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2362197	1	09/25/24 23:08	09/26/24 11:11	DJS	Mt. Juliet, TN

SAMPLE SUMMARY

MW-BN-03_240903 L1775338-10 GW

Collected by:
 Collected date/time: 09/03/24 15:00
 Received date/time: 09/10/24 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2361747	50	09/13/24 14:07	09/13/24 14:07	JCP	Mt. Juliet, TN

1 Cp

2 Tc

DUP-1_240904 L1775338-11 GW

Collected by:
 Collected date/time: 09/04/24 10:15
 Received date/time: 09/10/24 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2361156	1	09/12/24 18:00	09/12/24 18:00	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2362406	1	09/14/24 03:56	09/14/24 03:56	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2364122	50	09/18/24 03:31	09/18/24 03:31	JCP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2362238	1	09/15/24 16:53	09/16/24 13:18	DMG	Mt. Juliet, TN

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Andi R Jones
Project Manager

Sample Delivery Group (SDG) Narrative

Analysis was filtered in the laboratory.

<u>Lab Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
L1775338-01	MW-BN-05_240905	6010D
L1775338-04	01MW93_240904	6010D
L1775338-05	01MW94_240904	6010D
L1775338-06	01MW95_240904	6010D
L1775338-07	01MW98_240904	6010D
L1775338-08	MW-BN-01_240905	6010D
L1775338-09	MW-BN-02_240905	6010D
L1775338-10	MW-BN-03_240903	6010D
R4123814-3		6010D
R4124370-3		6010D
R4124471-3		6010D
R4124735-1		6010D



Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	4270		18.0	100	1	09/19/2024 12:42	WG2360870
Iron,Dissolved	U		18.0	100	1	09/26/2024 10:58	WG2362180
Manganese	2320		0.934	10.0	1	09/19/2024 12:42	WG2360870
Manganese,Dissolved	2100		0.934	10.0	1	09/26/2024 10:58	WG2362180

1 Cp
2 Tc
3 Ss
4 Cn

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	1900		31.6	100	1	09/12/2024 15:49	WG2361156
(S) a,a,a-Trifluorotoluene(FID)	89.9			78.0-120		09/12/2024 15:49	WG2361156

5 Sr
6 Qc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	18.4		0.0160	0.0400	1	09/12/2024 18:15	WG2361379
1,2-Dichloroethane	U		0.0190	0.100	1	09/12/2024 18:15	WG2361379
1,1-Dichloroethene	U		0.0200	0.100	1	09/12/2024 18:15	WG2361379
cis-1,2-Dichloroethene	U		0.0276	0.100	1	09/12/2024 18:15	WG2361379
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/12/2024 18:15	WG2361379
Ethylbenzene	8.83		0.0212	0.100	1	09/12/2024 18:15	WG2361379
Tetrachloroethene	U		0.0280	0.100	1	09/12/2024 18:15	WG2361379
Toluene	0.226		0.0500	0.200	1	09/12/2024 18:15	WG2361379
Trichloroethene	U		0.0160	0.0400	1	09/12/2024 18:15	WG2361379
Vinyl chloride	U		0.0273	0.100	1	09/12/2024 18:15	WG2361379
Xylenes, Total	0.836		0.191	0.260	1	09/12/2024 18:15	WG2361379
(S) Toluene-d8	86.6			75.0-131		09/12/2024 18:15	WG2361379
(S) 4-Bromofluorobenzene	91.8			67.0-138		09/12/2024 18:15	WG2361379
(S) 1,2-Dichloroethane-d4	87.9			70.0-130		09/12/2024 18:15	WG2361379

7 Is
8 Gl
9 Al
10 Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	5210		66.7	200	1	09/16/2024 15:33	WG2361729
Residual Range Organics (RRO)	2230		83.3	250	1	09/16/2024 15:33	WG2361729
(S) o-Terphenyl	102			52.0-156		09/16/2024 15:33	WG2361729

Sample Narrative:

L1775338-01 WG2361729: Sample resembles laboratory standard for Diesel.

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Pentachlorophenol	U		0.313	1.00	1	09/13/2024 01:30	WG2360961
(S) 2-Fluorophenol	33.2			10.0-120		09/13/2024 01:30	WG2360961
(S) Phenol-d5	23.0			10.0-120		09/13/2024 01:30	WG2360961
(S) Nitrobenzene-d5	43.3			10.0-127		09/13/2024 01:30	WG2360961
(S) 2-Fluorobiphenyl	39.7			10.0-130		09/13/2024 01:30	WG2360961
(S) 2,4,6-Tribromophenol	61.0			10.0-155		09/13/2024 01:30	WG2360961
(S) p-Terphenyl-d14	79.8			10.0-128		09/13/2024 01:30	WG2360961

TRIP BLANKS

SAMPLE RESULTS - 02

Collected date/time: 09/05/24 00:00

L1775338

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0160	0.0400	1	09/12/2024 15:04	WG2361379
1,2-Dichloroethane	U		0.0190	0.100	1	09/12/2024 15:04	WG2361379
1,1-Dichloroethene	U		0.0200	0.100	1	09/12/2024 15:04	WG2361379
cis-1,2-Dichloroethene	U		0.0276	0.100	1	09/12/2024 15:04	WG2361379
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/12/2024 15:04	WG2361379
Ethylbenzene	U		0.0212	0.100	1	09/12/2024 15:04	WG2361379
Tetrachloroethene	U		0.0280	0.100	1	09/12/2024 15:04	WG2361379
Toluene	U		0.0500	0.200	1	09/12/2024 15:04	WG2361379
Trichloroethene	U		0.0160	0.0400	1	09/12/2024 15:04	WG2361379
Vinyl chloride	U		0.0273	0.100	1	09/12/2024 15:04	WG2361379
Xylenes, Total	U		0.191	0.260	1	09/12/2024 15:04	WG2361379
<i>(S) Toluene-d8</i>	98.4			75.0-131		09/12/2024 15:04	WG2361379
<i>(S) 4-Bromofluorobenzene</i>	99.2			67.0-138		09/12/2024 15:04	WG2361379
<i>(S) 1,2-Dichloroethane-d4</i>	103			70.0-130		09/12/2024 15:04	WG2361379

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	09/12/2024 11:36	WG2361156
(S) a,a,a-Trifluorotoluene(FID)	100			78.0-120		09/12/2024 11:36	WG2361156

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0160	0.0400	1	09/12/2024 15:23	WG2361379
1,2-Dichloroethane	U		0.0190	0.100	1	09/12/2024 15:23	WG2361379
1,1-Dichloroethene	U		0.0200	0.100	1	09/12/2024 15:23	WG2361379
cis-1,2-Dichloroethene	U		0.0276	0.100	1	09/12/2024 15:23	WG2361379
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/12/2024 15:23	WG2361379
Ethylbenzene	U		0.0212	0.100	1	09/12/2024 15:23	WG2361379
Tetrachloroethene	U		0.0280	0.100	1	09/12/2024 15:23	WG2361379
Toluene	U		0.0500	0.200	1	09/12/2024 15:23	WG2361379
Trichloroethene	U		0.0160	0.0400	1	09/12/2024 15:23	WG2361379
Vinyl chloride	U		0.0273	0.100	1	09/12/2024 15:23	WG2361379
Xylenes, Total	U		0.191	0.260	1	09/12/2024 15:23	WG2361379
(S) Toluene-d8	97.2			75.0-131		09/12/2024 15:23	WG2361379
(S) 4-Bromofluorobenzene	102			67.0-138		09/12/2024 15:23	WG2361379
(S) 1,2-Dichloroethane-d4	101			70.0-130		09/12/2024 15:23	WG2361379

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	151	J	66.7	200	1	09/16/2024 15:53	WG2361729
Residual Range Organics (RRO)	188	J	83.3	250	1	09/16/2024 15:53	WG2361729
(S) o-Terphenyl	100			52.0-156		09/16/2024 15:53	WG2361729

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Pentachlorophenol	U		0.313	1.00	1	09/13/2024 01:51	WG2360961
(S) 2-Fluorophenol	40.0			10.0-120		09/13/2024 01:51	WG2360961
(S) Phenol-d5	26.3			10.0-120		09/13/2024 01:51	WG2360961
(S) Nitrobenzene-d5	51.0			10.0-127		09/13/2024 01:51	WG2360961
(S) 2-Fluorobiphenyl	43.5			10.0-130		09/13/2024 01:51	WG2360961
(S) 2,4,6-Tribromophenol	37.0			10.0-155		09/13/2024 01:51	WG2360961
(S) p-Terphenyl-d14	81.8			10.0-128		09/13/2024 01:51	WG2360961

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Nitrate-Nitrite	U		50.0	100	1	09/11/2024 22:58	WG2359802

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	8580		547	1000	1	09/10/2024 19:10	WG2359572
Sulfate	36100		637	5000	1	09/10/2024 19:10	WG2359572

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
TOC (Total Organic Carbon)	7270		102	1000	1	09/14/2024 05:13	WG2362115

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Iron	236		18.0	100	1	09/25/2024 15:52	WG2362192
Iron,Dissolved	U		18.0	100	1	09/25/2024 14:38	WG2362183
Manganese	247		0.934	10.0	1	09/25/2024 15:52	WG2362192
Manganese,Dissolved	302		0.934	10.0	1	09/25/2024 14:38	WG2362183

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Gasoline Range Organics-NWTPH	552		31.6	100	1	09/12/2024 16:11	WG2361156
(S) a,a,a-Trifluorotoluene(FID)	101			78.0-120		09/12/2024 16:11	WG2361156

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
1,2-Dichloroethane	U		0.819	10.0	10	09/14/2024 10:58	WG2362406
1,1-Dichloroethene	3.24	J	1.88	10.0	10	09/14/2024 10:58	WG2362406
cis-1,2-Dichloroethene	55.5		1.26	10.0	10	09/14/2024 10:58	WG2362406
trans-1,2-Dichloroethene	6.50	J	1.49	10.0	10	09/14/2024 10:58	WG2362406
Tetrachloroethene	U		3.00	10.0	10	09/14/2024 10:58	WG2362406
Trichloroethene	987		1.90	10.0	10	09/14/2024 10:58	WG2362406
Vinyl chloride	U		2.34	10.0	10	09/14/2024 10:58	WG2362406
(S) Toluene-d8	102			80.0-120		09/14/2024 10:58	WG2362406
(S) 4-Bromofluorobenzene	95.2			77.0-126		09/14/2024 10:58	WG2362406
(S) 1,2-Dichloroethane-d4	94.6			70.0-130		09/14/2024 10:58	WG2362406

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Diesel Range Organics (DRO)	1380		66.7	200	1	09/16/2024 11:37	WG2362238
Residual Range Organics (RRO)	940		83.3	250	1	09/16/2024 11:37	WG2362238
(S) o-Terphenyl	89.5			52.0-156		09/16/2024 11:37	WG2362238

Sample Narrative:

L1775338-04 WG2362238: Sample resembles laboratory standard for Hydraulic Fluid.



Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Nitrate-Nitrite	U		50.0	100	1	09/11/2024 23:01	WG2359802

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	11400		547	1000	1	09/10/2024 19:23	WG2359572
Sulfate	16100		637	5000	1	09/10/2024 19:23	WG2359572

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
TOC (Total Organic Carbon)	5280		102	1000	1	09/14/2024 05:58	WG2362115

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Iron	2140		18.0	100	1	09/26/2024 11:05	WG2362197
Iron,Dissolved	U		18.0	100	1	09/25/2024 14:43	WG2362183
Manganese	910		0.934	10.0	1	09/26/2024 11:05	WG2362197
Manganese,Dissolved	712		0.934	10.0	1	09/25/2024 14:43	WG2362183

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	09/12/2024 16:33	WG2361156
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	99.2			78.0-120		09/12/2024 16:33	WG2361156

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
1,2-Dichloroethane	U		0.0190	0.100	1	09/12/2024 18:34	WG2361379
1,1-Dichloroethene	U		0.0200	0.100	1	09/12/2024 18:34	WG2361379
cis-1,2-Dichloroethene	U		0.0276	0.100	1	09/12/2024 18:34	WG2361379
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/12/2024 18:34	WG2361379
Tetrachloroethene	U		0.0280	0.100	1	09/12/2024 18:34	WG2361379
Trichloroethene	0.0380	J	0.0160	0.0400	1	09/12/2024 18:34	WG2361379
Vinyl chloride	U		0.0273	0.100	1	09/12/2024 18:34	WG2361379
(S) Toluene-d8	101			75.0-131		09/12/2024 18:34	WG2361379
(S) 4-Bromofluorobenzene	96.6			67.0-138		09/12/2024 18:34	WG2361379
(S) 1,2-Dichloroethane-d4	102			70.0-130		09/12/2024 18:34	WG2361379

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Diesel Range Organics (DRO)	830		66.7	200	1	09/16/2024 11:58	WG2362238
Residual Range Organics (RRO)	588		83.3	250	1	09/16/2024 11:58	WG2362238
(S) <i>o</i> -Terphenyl	88.4			52.0-156		09/16/2024 11:58	WG2362238

Sample Narrative:

L1775338-05 WG2362238: Sample resembles laboratory standard for Hydraulic Fluid.



Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		50.0	100	1	09/11/2024 23:04	WG2359802

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	8800		547	1000	1	09/10/2024 19:35	WG2359572
Sulfate	100000	J6	637	5000	1	09/10/2024 19:35	WG2359572

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	5080		102	1000	1	09/14/2024 06:20	WG2362115

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	2800		18.0	100	1	09/26/2024 11:03	WG2362197
Iron,Dissolved	U		18.0	100	1	09/24/2024 16:57	WG2362184
Manganese	1010		0.934	10.0	1	09/26/2024 11:03	WG2362197
Manganese,Dissolved	457	O1	0.934	10.0	1	09/24/2024 16:57	WG2362184

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dichloroethane	U		0.0190	0.100	1	09/12/2024 18:53	WG2361379
1,1-Dichloroethene	U		0.0200	0.100	1	09/12/2024 18:53	WG2361379
cis-1,2-Dichloroethene	U		0.0276	0.100	1	09/12/2024 18:53	WG2361379
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/12/2024 18:53	WG2361379
Tetrachloroethene	U		0.0280	0.100	1	09/12/2024 18:53	WG2361379
Trichloroethene	U		0.0160	0.0400	1	09/12/2024 18:53	WG2361379
Vinyl chloride	U		0.0273	0.100	1	09/12/2024 18:53	WG2361379
(S) Toluene-d8	98.3			75.0-131		09/12/2024 18:53	WG2361379
(S) 4-Bromofluorobenzene	97.9			67.0-138		09/12/2024 18:53	WG2361379
(S) 1,2-Dichloroethane-d4	105			70.0-130		09/12/2024 18:53	WG2361379

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Nitrate-Nitrite	U		50.0	100	1	09/11/2024 23:12	WG2359802

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	3870		547	1000	1	09/10/2024 19:48	WG2359572
Sulfate	19900		637	5000	1	09/10/2024 19:48	WG2359572

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
TOC (Total Organic Carbon)	13400		102	1000	1	09/14/2024 07:31	WG2362115

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Iron	1540		18.0	100	1	09/26/2024 11:06	WG2362197
Iron,Dissolved	30.0	J	18.0	100	1	09/24/2024 17:10	WG2362184
Manganese	400		0.934	10.0	1	09/26/2024 11:06	WG2362197
Manganese,Dissolved	337		0.934	10.0	1	09/24/2024 17:10	WG2362184

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Gasoline Range Organics-NWTPH	253		31.6	100	1	09/12/2024 16:54	WG2361156
(S) a,a,a-Trifluorotoluene(FID)	99.7			78.0-120		09/12/2024 16:54	WG2361156

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
1,2-Dichloroethane	U		1.64	20.0	20	09/14/2024 10:38	WG2362406
1,1-Dichloroethene	U		3.76	20.0	20	09/14/2024 10:38	WG2362406
cis-1,2-Dichloroethene	78.5		2.52	20.0	20	09/14/2024 10:38	WG2362406
trans-1,2-Dichloroethene	U		2.98	20.0	20	09/14/2024 10:38	WG2362406
Tetrachloroethene	U		6.00	20.0	20	09/14/2024 10:38	WG2362406
Trichloroethene	397		3.80	20.0	20	09/14/2024 10:38	WG2362406
Vinyl chloride	U		4.68	20.0	20	09/14/2024 10:38	WG2362406
(S) Toluene-d8	101			80.0-120		09/14/2024 10:38	WG2362406
(S) 4-Bromofluorobenzene	95.4			77.0-126		09/14/2024 10:38	WG2362406
(S) 1,2-Dichloroethane-d4	94.4			70.0-130		09/14/2024 10:38	WG2362406

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Diesel Range Organics (DRO)	3450		66.7	200	1	09/16/2024 12:18	WG2362238
Residual Range Organics (RRO)	2060		83.3	250	1	09/16/2024 12:18	WG2362238
(S) o-Terphenyl	96.8			52.0-156		09/16/2024 12:18	WG2362238

Sample Narrative:

L1775338-07 WG2362238: Sample resembles laboratory standard for Hydraulic Fluid.



Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Nitrate-Nitrite	U		50.0	100	1	09/11/2024 23:13	WG2359802

1 Cp

2 Tc

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	5400		547	1000	1	09/10/2024 20:01	WG2359572
Sulfate	8040		637	5000	1	09/10/2024 20:01	WG2359572

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
TOC (Total Organic Carbon)	11600		102	1000	1	09/14/2024 07:54	WG2362115

6 Qc

7 Is

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Iron	535		18.0	100	1	09/26/2024 11:08	WG2362197
Iron,Dissolved	213		18.0	100	1	09/24/2024 17:14	WG2362184
Manganese	644		0.934	10.0	1	09/26/2024 11:08	WG2362197
Manganese,Dissolved	742		0.934	10.0	1	09/24/2024 17:14	WG2362184

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	09/12/2024 17:16	WG2361156
(S) a,a,a-Trifluorotoluene(FID)	98.9			78.0-120		09/12/2024 17:16	WG2361156

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
1,2-Dichloroethane	U		0.0190	0.100	1	09/12/2024 19:12	WG2361379
1,1-Dichloroethene	U		0.0200	0.100	1	09/12/2024 19:12	WG2361379
cis-1,2-Dichloroethene	4.62		0.0276	0.100	1	09/12/2024 19:12	WG2361379
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/12/2024 19:12	WG2361379
Tetrachloroethene	U		0.0280	0.100	1	09/12/2024 19:12	WG2361379
Trichloroethene	24.5		0.0160	0.0400	1	09/12/2024 19:12	WG2361379
Vinyl chloride	U		0.0273	0.100	1	09/12/2024 19:12	WG2361379
(S) Toluene-d8	98.6			75.0-131		09/12/2024 19:12	WG2361379
(S) 4-Bromofluorobenzene	95.3			67.0-138		09/12/2024 19:12	WG2361379
(S) 1,2-Dichloroethane-d4	103			70.0-130		09/12/2024 19:12	WG2361379

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Diesel Range Organics (DRO)	2400		66.7	200	1	09/16/2024 12:38	WG2362238
Residual Range Organics (RRO)	1930		83.3	250	1	09/16/2024 12:38	WG2362238
(S) o-Terphenyl	94.7			52.0-156		09/16/2024 12:38	WG2362238

Sample Narrative:

L1775338-08 WG2362238: Sample resembles laboratory standard for Hydraulic Fluid.

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	199		18.0	100	1	09/26/2024 11:10	WG2362197
Iron,Dissolved	U		18.0	100	1	09/24/2024 17:17	WG2362184
Manganese	517		0.934	10.0	1	09/26/2024 11:10	WG2362197
Manganese,Dissolved	397		0.934	10.0	1	09/24/2024 17:17	WG2362184

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	09/12/2024 17:38	WG2361156
(S) a,a,a-Trifluorotoluene(FID)	99.2			78.0-120		09/12/2024 17:38	WG2361156

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,2-Dichloroethane	U		0.0190	0.100	1	09/12/2024 19:31	WG2361379
1,1-Dichloroethene	U		0.0200	0.100	1	09/12/2024 19:31	WG2361379
cis-1,2-Dichloroethene	U		0.0276	0.100	1	09/12/2024 19:31	WG2361379
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/12/2024 19:31	WG2361379
Tetrachloroethene	U		0.0280	0.100	1	09/12/2024 19:31	WG2361379
Trichloroethene	U		0.0160	0.0400	1	09/12/2024 19:31	WG2361379
Vinyl chloride	U		0.0273	0.100	1	09/12/2024 19:31	WG2361379
(S) Toluene-d8	98.7			75.0-131		09/12/2024 19:31	WG2361379
(S) 4-Bromofluorobenzene	105			67.0-138		09/12/2024 19:31	WG2361379
(S) 1,2-Dichloroethane-d4	103			70.0-130		09/12/2024 19:31	WG2361379

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Diesel Range Organics (DRO)	189	J	66.7	200	1	09/17/2024 11:36	WG2362238
Residual Range Organics (RRO)	292		83.3	250	1	09/17/2024 11:36	WG2362238
(S) o-Terphenyl	84.2			52.0-156		09/17/2024 11:36	WG2362238

Sample Narrative:

L1775338-09 WG2362238: Sample resembles laboratory standard for Motor Oil.

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Nitrate-Nitrite	U		50.0	100	1	09/11/2024 23:14	WG2359802

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	9180		547	1000	1	09/10/2024 20:14	WG2359572
Sulfate	58500		637	5000	1	09/10/2024 20:14	WG2359572

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
TOC (Total Organic Carbon)	5620		102	1000	1	09/15/2024 17:34	WG2362984

Metals (ICP) by Method 6010D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Iron	2640		18.0	100	1	09/26/2024 11:11	WG2362197
Iron,Dissolved	U		18.0	100	1	09/24/2024 17:21	WG2362184
Manganese	967		0.934	10.0	1	09/26/2024 11:11	WG2362197
Manganese,Dissolved	955		0.934	10.0	1	09/24/2024 17:21	WG2362184

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Benzene	U		4.71	50.0	50	09/13/2024 14:07	WG2361747
1,2-Dichloroethane	U		4.09	50.0	50	09/13/2024 14:07	WG2361747
1,1-Dichloroethene	U		9.40	50.0	50	09/13/2024 14:07	WG2361747
cis-1,2-Dichloroethene	136		6.30	50.0	50	09/13/2024 14:07	WG2361747
trans-1,2-Dichloroethene	15.8	J	7.45	50.0	50	09/13/2024 14:07	WG2361747
Ethylbenzene	U		6.85	50.0	50	09/13/2024 14:07	WG2361747
Tetrachloroethene	U		15.0	50.0	50	09/13/2024 14:07	WG2361747
Toluene	U		13.9	50.0	50	09/13/2024 14:07	WG2361747
Trichloroethene	1740	J4	9.50	50.0	50	09/13/2024 14:07	WG2361747
Vinyl chloride	U		11.7	50.0	50	09/13/2024 14:07	WG2361747
Xylenes, Total	U		8.70	150	50	09/13/2024 14:07	WG2361747
(S) Toluene-d8	109			80.0-120		09/13/2024 14:07	WG2361747
(S) 4-Bromofluorobenzene	103			77.0-126		09/13/2024 14:07	WG2361747
(S) 1,2-Dichloroethane-d4	106			70.0-130		09/13/2024 14:07	WG2361747

Sample Narrative:

L1775338-10 WG2361747: Target compound too high to run at a lower dilution.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	524		31.6	100	1	09/12/2024 18:00	WG2361156
(S) a,a,a-Trifluorotoluene(FID)	101			78.0-120		09/12/2024 18:00	WG2361156

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.0819	1.00	1	09/14/2024 03:56	WG2362406
1,1-Dichloroethene	4.41		0.188	1.00	1	09/14/2024 03:56	WG2362406
cis-1,2-Dichloroethene	72.4		0.126	1.00	1	09/14/2024 03:56	WG2362406
trans-1,2-Dichloroethene	7.86		0.149	1.00	1	09/14/2024 03:56	WG2362406
Tetrachloroethene	U		0.300	1.00	1	09/14/2024 03:56	WG2362406
Trichloroethene	1180		9.50	50.0	50	09/18/2024 03:31	WG2364122
Vinyl chloride	0.802	J	0.234	1.00	1	09/14/2024 03:56	WG2362406
(S) Toluene-d8	99.6			80.0-120		09/14/2024 03:56	WG2362406
(S) Toluene-d8	99.1			80.0-120		09/18/2024 03:31	WG2364122
(S) 4-Bromofluorobenzene	97.3			77.0-126		09/14/2024 03:56	WG2362406
(S) 4-Bromofluorobenzene	95.3			77.0-126		09/18/2024 03:31	WG2364122
(S) 1,2-Dichloroethane-d4	94.3			70.0-130		09/14/2024 03:56	WG2362406
(S) 1,2-Dichloroethane-d4	92.8			70.0-130		09/18/2024 03:31	WG2364122

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	1370		66.7	200	1	09/16/2024 13:18	WG2362238
Residual Range Organics (RRO)	1160		83.3	250	1	09/16/2024 13:18	WG2362238
(S) o-Terphenyl	98.9			52.0-156		09/16/2024 13:18	WG2362238

Sample Narrative:

L1775338-11 WG2362238: Sample resembles laboratory standard for Hydraulic Fluid. & Diesel.

Method Blank (MB)

(MB) R4118736-1 09/11/24 22:55

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Nitrate-Nitrite	U		50.0	100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1775338-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1775338-04 09/11/24 22:58 • (DUP) R4118736-3 09/11/24 22:59

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Nitrate-Nitrite	U	U	1	0.000		20

⁷Is

⁸Gl

⁹Al

¹⁰Sc

L1775338-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1775338-05 09/11/24 23:01 • (DUP) R4118736-5 09/11/24 23:03

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Nitrate-Nitrite	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4118736-2 09/11/24 22:56

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Nitrate-Nitrite	2500	2490	99.6	90.0-110	

L1775338-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1775338-04 09/11/24 22:58 • (MS) R4118736-4 09/11/24 23:00

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Nitrate-Nitrite	2500	U	2720	109	1	90.0-110	

L1775338-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775338-06 09/11/24 23:04 • (MS) R4118736-6 09/11/24 23:05 • (MSD) R4118736-7 09/11/24 23:10

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Nitrate-Nitrite	2500	U	2440	2510	97.6	100	1	90.0-110			2.83	20

Method Blank (MB)

(MB) R4118162-1 09/10/24 18:44

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		547	1000
Sulfate	U		637	5000

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

L1775882-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1775882-01 09/10/24 20:40 • (DUP) R4118162-3 09/10/24 21:19

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	5990	5910	1	1.42		15
Sulfate	5830	5660	1	2.99		15

L1775882-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1775882-10 09/11/24 00:06 • (DUP) R4118162-5 09/11/24 00:19

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	5870	5640	1	3.98		15
Sulfate	5520	5310	1	3.97		15

Laboratory Control Sample (LCS)

(LCS) R4118162-2 09/10/24 18:57

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40000	32500	81.1	80.0-120	
Sulfate	40000	35800	89.5	80.0-120	

L1775882-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775882-01 09/10/24 20:40 • (MS) R4118162-4 09/10/24 21:32 • (MSD) R4118162-8 09/11/24 01:50

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	40000	5990	42300	42800	90.8	92.0	1	80.0-120			1.07	15
Sulfate	40000	5830	45500	45700	99.1	99.6	1	80.0-120			0.426	15

L1775338-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775338-06 09/10/24 19:35 • (MS) R4118162-6 09/11/24 01:24 • (MSD) R4118162-7 09/11/24 01:37

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	8800	45300	45400	91.4	91.5	1	80.0-120			0.158	15
Sulfate	40000	100000	123000	122000	55.8	55.8	1	80.0-120	J6	J6	0.0223	15

L1775882-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775882-10 09/11/24 00:06 • (MS) R4118162-9 09/11/24 02:03 • (MSD) R4118162-10 09/11/24 02:41

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	40000	5870	43400	43400	93.9	93.8	1	80.0-120			0.118	15
Sulfate	40000	5520	46600	46400	103	102	1	80.0-120			0.399	15

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R4119981-2 09/14/24 03:54

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	U		102	1000

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1775338-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1775338-04 09/14/24 05:13 • (DUP) R4119981-3 09/14/24 05:36

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	7270	7360	1	1.26		20

⁷Is

⁸Gl

⁹Al

L1775411-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1775411-11 09/14/24 10:42 • (DUP) R4119981-8 09/14/24 11:02

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	1170	1140	1	2.43		20

¹⁰Sc

Laboratory Control Sample (LCS)

(LCS) R4119981-1 09/14/24 03:36

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	25000	26500	106	85.0-115	

L1775338-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775338-06 09/14/24 06:20 • (MS) R4119981-4 09/14/24 06:44 • (MSD) R4119981-5 09/14/24 07:08

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	25000	5080	32600	32400	110	109	1	85.0-115			0.708	20

L1775411-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775411-10 09/14/24 09:34 • (MS) R4119981-6 09/14/24 09:58 • (MSD) R4119981-7 09/14/24 10:22

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	25000	645	28600	28500	112	111	1	85.0-115			0.420	20

Method Blank (MB)

(MB) R4120094-2 09/15/24 15:13

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	U		102	1000

¹Cp

²Tc

³Ss

L1775578-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1775578-07 09/15/24 18:46 • (DUP) R4120094-5 09/15/24 19:09

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	12000	12000	1	0.584		20

⁴Cn

⁵Sr

L1775760-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1775760-01 09/16/24 00:29 • (DUP) R4120094-8 09/16/24 00:49

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	1090	1060	1	3.07		20

⁶Qc

⁷Is

⁸Gl

Laboratory Control Sample (LCS)

(LCS) R4120094-1 09/15/24 14:56

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	25000	25800	103	85.0-115	

⁹Al

¹⁰Sc

L1775338-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775338-10 09/15/24 17:34 • (MS) R4120094-3 09/15/24 17:59 • (MSD) R4120094-4 09/15/24 18:23

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	25000	5620	32600	32500	108	108	1	85.0-115			0.369	20

L1775756-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775756-01 09/15/24 23:21 • (MS) R4120094-6 09/15/24 23:46 • (MSD) R4120094-7 09/16/24 00:10

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	25000	165	24700	25000	98.2	99.2	1	85.0-115			0.966	20

Method Blank (MB)

(MB) R4121891-1 09/19/24 12:38

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		18.0	100
Manganese	U		0.934	10.0

¹Cp

²Tc

³Ss

Laboratory Control Sample (LCS)

(LCS) R4121891-2 09/19/24 12:40

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Iron	10000	10000	100	80.0-120	
Manganese	1000	1040	104	80.0-120	

⁴Cn

⁵Sr

⁶Qc

L1775338-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775338-01 09/19/24 12:42 • (MS) R4121891-4 09/19/24 12:45 • (MSD) R4121891-5 09/19/24 12:47

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron	10000	4270	14400	14300	102	100	1	75.0-125			0.837	20
Manganese	1000	2320	3260	3270	94.7	95.3	1	75.0-125			0.176	20

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R4124471-1 09/25/24 21:19

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron,Dissolved	U		18.0	100
Manganese,Dissolved	U		0.934	10.0

Laboratory Control Sample (LCS)

(LCS) R4124471-2 09/25/24 21:21

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Iron,Dissolved	10000	9350	93.5	80.0-120	
Manganese,Dissolved	1000	975	97.5	80.0-120	

L1775411-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775411-01 09/25/24 21:22 • (MS) R4124471-4 09/25/24 21:26 • (MSD) R4124471-5 09/25/24 21:28

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron,Dissolved	10000	U	8920	8950	89.2	89.5	1	75.0-125			0.339	20
Manganese,Dissolved	1000	61.3	988	987	92.6	92.5	1	75.0-125			0.0783	20

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R4124370-1 09/25/24 14:24

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron,Dissolved	U		18.0	100
Manganese,Dissolved	U		0.934	10.0

Laboratory Control Sample (LCS)

(LCS) R4124370-2 09/25/24 14:25

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Iron,Dissolved	10000	9510	95.1	80.0-120	
Manganese,Dissolved	1000	996	99.6	80.0-120	

L1775882-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775882-01 09/25/24 14:27 • (MS) R4124370-4 09/25/24 14:30 • (MSD) R4124370-5 09/25/24 14:32

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron,Dissolved	10000	U	9450	9370	94.5	93.7	1	75.0-125			0.865	20
Manganese,Dissolved	1000	U	983	969	98.3	96.9	1	75.0-125			1.41	20

L1775882-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775882-10 09/25/24 14:33 • (MS) R4124370-6 09/25/24 14:35 • (MSD) R4124370-7 09/25/24 14:37

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron,Dissolved	10000	U	9260	9430	92.6	94.3	1	75.0-125			1.78	20
Manganese,Dissolved	1000	U	964	978	96.4	97.8	1	75.0-125			1.43	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R4123814-1 09/24/24 16:50

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron,Dissolved	U		18.0	100
Manganese,Dissolved	U		0.934	10.0

Laboratory Control Sample (LCS)

(LCS) R4123814-2 09/24/24 16:53

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Iron,Dissolved	10000	9200	92.0	80.0-120	
Manganese,Dissolved	1000	1020	102	80.0-120	

L1775338-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775338-06 09/24/24 16:57 • (MS) R4123814-4 09/24/24 17:04 • (MSD) R4123814-5 09/24/24 17:07

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron,Dissolved	10000	U	9020	9120	90.2	91.2	1	75.0-125			1.13	20
Manganese,Dissolved	1000	457	1460	1470	100	101	1	75.0-125			0.793	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R4124371-1 09/25/24 15:42

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		18.0	100
Manganese	U		0.934	10.0

Laboratory Control Sample (LCS)

(LCS) R4124371-2 09/25/24 15:43

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Iron	10000	9060	90.6	80.0-120	
Manganese	1000	952	95.2	80.0-120	

L1775882-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775882-01 09/25/24 15:45 • (MS) R4124371-4 09/25/24 15:48 • (MSD) R4124371-5 09/25/24 15:50

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron	10000	1820	10800	10900	89.9	91.1	1	75.0-125			1.03	20
Manganese	1000	493	1430	1420	93.4	93.2	1	75.0-125			0.142	20



Method Blank (MB)

(MB) R4124533-1 09/26/24 02:05

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iron	U		18.0	100
Manganese	U		0.934	10.0

¹Cp

²Tc

³Ss

⁴Cn

Laboratory Control Sample (LCS)

(LCS) R4124533-2 09/26/24 02:07

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	10000	9800	98.0	80.0-120	
Manganese	1000	1000	100	80.0-120	

⁵Sr

⁶Qc

L1775338-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775338-06 09/26/24 02:09 • (MS) R4124533-4 09/26/24 02:12 • (MSD) R4124533-5 09/26/24 02:14

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Iron	10000	2780	12400	12600	96.4	97.8	1	75.0-125			1.08	20
Manganese	1000	1050	2020	2000	96.1	94.9	1	75.0-125			0.622	20

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R4119668-3 09/12/24 10:31

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	99.1			78.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4119668-1 09/12/24 09:25 • (LCSD) R4119668-2 09/12/24 09:47

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	5380	5140	97.8	93.5	70.0-124			4.56	20
(S) a,a,a-Trifluorotoluene(FID)				105	104	78.0-120				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R4120289-2 09/12/24 10:57

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0160	0.0400
1,2-Dichloroethane	U		0.0190	0.100
1,1-Dichloroethene	U		0.0200	0.100
cis-1,2-Dichloroethene	U		0.0276	0.100
trans-1,2-Dichloroethene	U		0.0572	0.200
Ethylbenzene	U		0.0212	0.100
Tetrachloroethene	U		0.0280	0.100
Toluene	U		0.0500	0.200
Trichloroethene	U		0.0160	0.0400
Vinyl chloride	U		0.0273	0.100
Xylenes, Total	U		0.191	0.260
(S) Toluene-d8	101			75.0-131
(S) 4-Bromofluorobenzene	96.7			67.0-138
(S) 1,2-Dichloroethane-d4	105			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Is

⁸ Gl

⁹ Al

¹⁰ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4120289-1 09/12/24 09:41 • (LCSD) R4120289-3 09/12/24 12:17

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	5.00	4.79	4.57	95.8	91.4	70.0-123			4.70	20
1,2-Dichloroethane	5.00	5.14	4.91	103	98.2	65.0-131			4.58	20
1,1-Dichloroethene	5.00	5.15	4.94	103	98.8	65.0-131			4.16	20
cis-1,2-Dichloroethene	5.00	4.62	4.29	92.4	85.8	73.0-125			7.41	20
trans-1,2-Dichloroethene	5.00	5.19	4.70	104	94.0	71.0-125			9.91	20
Ethylbenzene	5.00	4.83	4.54	96.6	90.8	74.0-126			6.19	20
Tetrachloroethene	5.00	5.33	5.13	107	103	70.0-136			3.82	20
Toluene	5.00	4.68	4.32	93.6	86.4	75.0-121			8.00	20
Trichloroethene	5.00	5.20	4.92	104	98.4	76.0-126			5.53	20
Vinyl chloride	5.00	4.36	3.95	87.2	79.0	63.0-134			9.87	20
Xylenes, Total	15.0	14.0	13.7	93.3	91.3	72.0-127			2.17	20
(S) Toluene-d8				96.1	94.8	75.0-131				
(S) 4-Bromofluorobenzene				98.5	102	67.0-138				
(S) 1,2-Dichloroethane-d4				108	106	70.0-130				

L1775338-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775338-06 09/12/24 18:53 • (MS) R4120289-4 09/12/24 21:07 • (MSD) R4120289-5 09/12/24 21:26

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	5.00	U	4.33	4.52	86.6	90.4	1	10.0-149			4.29	37
1,2-Dichloroethane	5.00	U	4.71	4.89	94.2	97.8	1	10.0-148			3.75	35
1,1-Dichloroethene	5.00	U	4.77	4.99	95.4	99.8	1	10.0-155			4.51	37
cis-1,2-Dichloroethene	5.00	U	4.16	4.45	83.2	89.0	1	10.0-149			6.74	37
trans-1,2-Dichloroethene	5.00	U	4.20	4.35	84.0	87.0	1	10.0-150			3.51	37
Ethylbenzene	5.00	U	4.62	4.75	92.4	95.0	1	10.0-160			2.77	38
Tetrachloroethene	5.00	U	4.77	4.84	95.4	96.8	1	10.0-156			1.46	39
Toluene	5.00	U	4.31	4.39	86.2	87.8	1	10.0-156			1.84	38
Trichloroethene	5.00	U	4.34	4.79	86.8	95.8	1	10.0-156			9.86	38
Vinyl chloride	5.00	U	3.39	3.64	67.8	72.8	1	10.0-160			7.11	37
Xylenes, Total	15.0	0.218	13.5	13.9	88.5	91.2	1	10.0-160			2.92	38
(S) Toluene-d8					97.4	94.9		75.0-131				
(S) 4-Bromofluorobenzene					98.4	98.8		67.0-138				
(S) 1,2-Dichloroethane-d4					106	103		70.0-130				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R4120415-4 09/13/24 07:00

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0941	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
Ethylbenzene	U		0.137	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
Trichloroethene	U		0.190	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	105			80.0-120
(S) 4-Bromofluorobenzene	101			77.0-126
(S) 1,2-Dichloroethane-d4	108			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4120415-1 09/13/24 05:36 • (LCSD) R4120415-2 09/13/24 05:57

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	5.00	5.44	5.42	109	108	70.0-123			0.368	20
1,2-Dichloroethane	5.00	5.32	5.21	106	104	70.0-128			2.09	20
1,1-Dichloroethene	5.00	4.76	5.37	95.2	107	71.0-124			12.0	20
cis-1,2-Dichloroethene	5.00	5.38	5.17	108	103	73.0-120			3.98	20
trans-1,2-Dichloroethene	5.00	5.01	5.23	100	105	73.0-120			4.30	20
Ethylbenzene	5.00	4.73	5.29	94.6	106	79.0-123			11.2	20
Tetrachloroethene	5.00	5.13	5.62	103	112	72.0-132			9.12	20
Toluene	5.00	4.99	5.17	99.8	103	79.0-120			3.54	20
Trichloroethene	5.00	5.76	6.25	115	125	78.0-124		J4	8.16	20
Vinyl chloride	5.00	5.40	5.77	108	115	67.0-131			6.62	20
Xylenes, Total	15.0	14.0	14.5	93.3	96.7	79.0-123			3.51	20
(S) Toluene-d8				103	103	80.0-120				
(S) 4-Bromofluorobenzene				99.4	101	77.0-126				
(S) 1,2-Dichloroethane-d4				105	106	70.0-130				

Method Blank (MB)

(MB) R4120731-2 09/14/24 03:17

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
Tetrachloroethene	U		0.300	1.00
Trichloroethene	U		0.190	1.00
Vinyl chloride	U		0.234	1.00
(S) Toluene-d8	97.4			80.0-120
(S) 4-Bromofluorobenzene	92.8			77.0-126
(S) 1,2-Dichloroethane-d4	93.3			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS)

(LCS) R4120731-1 09/14/24 02:38

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
1,2-Dichloroethane	5.00	4.47	89.4	70.0-128	
1,1-Dichloroethene	5.00	4.60	92.0	71.0-124	
cis-1,2-Dichloroethene	5.00	5.08	102	73.0-120	
trans-1,2-Dichloroethene	5.00	4.68	93.6	73.0-120	
Tetrachloroethene	5.00	5.60	112	72.0-132	
Trichloroethene	5.00	5.11	102	78.0-124	
Vinyl chloride	5.00	5.10	102	67.0-131	
(S) Toluene-d8			95.9	80.0-120	
(S) 4-Bromofluorobenzene			96.8	77.0-126	
(S) 1,2-Dichloroethane-d4			95.3	70.0-130	

7 Is

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R4121756-3 09/18/24 01:59

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Trichloroethene	U		0.190	1.00
(S) Toluene-d8	97.5			80.0-120
(S) 4-Bromofluorobenzene	94.3			77.0-126
(S) 1,2-Dichloroethane-d4	92.5			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4121756-1 09/18/24 00:57 • (LCSD) R4121756-2 09/18/24 01:17

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Trichloroethene	5.00	5.14	5.17	103	103	78.0-124			0.582	20
(S) Toluene-d8				96.8	96.2	80.0-120				
(S) 4-Bromofluorobenzene				94.1	94.6	77.0-126				
(S) 1,2-Dichloroethane-d4				95.0	96.1	70.0-130				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R4120417-1 09/16/24 12:30

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
<i>(S) o-Terphenyl</i>	84.0			52.0-156

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4120417-2 09/16/24 12:51 • (LCSD) R4120417-3 09/16/24 13:11

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1500	1510	1500	101	100	50.0-150			0.664	20
<i>(S) o-Terphenyl</i>				106	85.0	52.0-156				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R4120461-3 09/16/24 16:41

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		66.7	200
Residual Range Organics (RRO)	U		83.3	250
<i>(S) o-Terphenyl</i>	76.0			52.0-156

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4120461-1 09/16/24 10:37 • (LCSD) R4120461-2 09/16/24 10:57

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1500	1410	1440	94.0	96.0	50.0-150			2.11	20
<i>(S) o-Terphenyl</i>				90.0	92.5	52.0-156				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Is
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R4120834-2 09/12/24 23:43

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Pentachlorophenol	U		0.313	1.00
(S) 2-Fluorophenol	31.4			10.0-120
(S) Phenol-d5	21.3			10.0-120
(S) Nitrobenzene-d5	46.2			10.0-127
(S) 2-Fluorobiphenyl	39.3			10.0-130
(S) 2,4,6-Tribromophenol	32.2			10.0-155
(S) p-Terphenyl-d14	78.1			10.0-128

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R4120834-1 09/12/24 23:21

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Pentachlorophenol	50.0	28.9	57.8	23.0-120	
(S) 2-Fluorophenol			27.6	10.0-120	
(S) Phenol-d5			19.7	10.0-120	
(S) Nitrobenzene-d5			37.4	10.0-127	
(S) 2-Fluorobiphenyl			36.4	10.0-130	
(S) 2,4,6-Tribromophenol			48.5	10.0-155	
(S) p-Terphenyl-d14			70.5	10.0-128	

6 Qc

7 Is

8 Gl

9 Al

10 Sc

L1775285-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1775285-02 09/13/24 00:04 • (MS) R4120834-3 09/13/24 00:25 • (MSD) R4120834-4 09/13/24 00:47

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Pentachlorophenol	50.0	1.78	39.8	35.6	76.0	67.6	1	10.0-128			11.1	37
(S) 2-Fluorophenol					35.0	29.9		10.0-120				
(S) Phenol-d5					25.8	21.8		10.0-120				
(S) Nitrobenzene-d5					47.0	37.1		10.0-127				
(S) 2-Fluorobiphenyl					47.1	36.4		10.0-130				
(S) 2,4,6-Tribromophenol					57.5	46.2		10.0-155				
(S) p-Terphenyl-d14					77.2	69.5		10.0-128				

INTERNAL STANDARD SUMMARY

Instrument: VOCGC12 • File ID: 0912_02

09/12/24 09:25

Sample ID	File ID	FLUOROBENZENE (FID) Response	FLUOROBENZENE (PID) Response
Standard	0912_02	796423700	1163861000
Upper Limit		1592847000	2327722000
Lower Limit		398211800	581930500
LCS R4119668-1 WG2361156 1x	0912_02UA	796423700	1163861000
LCSD R4119668-2 WG2361156 1x	0912_03	803036300	824148900
BLANK R4119668-3 WG2361156 1x	0912_05	727214100	727209300
L1775338-03 WG2361156 1x	0912_08	714979800	716421600

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Is

⁸Gl

⁹Al

¹⁰Sc

Instrument: VOCGC12 • File ID: 0912_17

09/12/24 14:53

Sample ID	File ID	FLUOROBENZENE (FID) Response	FLUOROBENZENE (PID) Response
Standard	0912_17	779884700	796657300
Upper Limit		1559769000	1593315000
Lower Limit		389942300	398328600
L1775338-01 WG2361156 1x	0912_19	780274100	785247500
L1775338-04 WG2361156 1x	0912_20	698984000	698922000
L1775338-05 WG2361156 1x	0912_21	727033300	726993300
L1775338-07 WG2361156 1x	0912_22	731559400	731591500
L1775338-08 WG2361156 1x	0912_23	733301700	733274600
L1775338-09 WG2361156 1x	0912_24	731492200	731538800
L1775338-11 WG2361156 1x	0912_25	748908200	748888100

INTERNAL STANDARD SUMMARY

Instrument: VOCMS4 • File ID: 0917A_02-2

09/18/24 00:57

Sample ID	File ID	8260-FLUOROBENZENE Response	8260-CHLOROBENZENE-D5 Response	8260-1,4-DICHLOROBENZENE-D4 Response
Standard	0917A_02-2	183083	81443	69376
Upper Limit		366166	162886	138752
Lower Limit		91542	40722	34688
LCS R4121756-1 WG2364122 1x	0917A_02LCSB	183083	81443	69376
LCSD R4121756-2 WG2364122 1x	0917A_03B	187060	83571	70638
BLANK R4121756-3 WG2364122 1x	0917A_05B	184460	80279	67824
L1775338-11 WG2364122 50x	0917A_08	181254	78882	64900

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Is

⁸ Gl

⁹ Al

¹⁰ Sc

Instrument: VOCMS16 • File ID: 0916_31-4

09/16/24 23:27

Sample ID	File ID	8260-FLUOROBENZENE Response	8260-CHLOROBENZENE-D5 Response	8260-1,4-DICHLOROBENZENE-D4 Response
Standard	0916_31-4	483086	187059	138733
Upper Limit		966172	374118	277466
Lower Limit		241543	93530	69367
LCS R4120626-1 WG2363604 1x	0916_31LCSA	483086	187059	138733
LCSD R4120626-2 WG2363604 1x	0916_32A	494356	188449	143481
BLANK R4120626-3 WG2363604 1x	0916_35A	500179	193836	148975

Instrument: VOCMS23 • File ID: 0913_02-1

09/13/24 05:36

Sample ID	File ID	8260-FLUOROBENZENE Response	8260-CHLOROBENZENE-D5 Response	8260-1,4-DICHLOROBENZENE-D4 Response
Standard	0913_02-1	275238	137317	135448
Upper Limit		550476	274634	270896
Lower Limit		137619	68659	67724
LCS R4120415-1 WG2361747 1x	0913_02LCS	275238	137317	135448
LCSD R4120415-2 WG2361747 1x	0913_03	263616	128885	128196
BLANK R4120415-4 WG2361747 1x	0913_06	251652	121835	112982
L1775338-10 WG2361747 50x	0913_26	237805	112236	106646

INTERNAL STANDARD SUMMARY

Instrument: VOCMS41 • File ID: 0914_03-2

09/14/24 02:38

Sample ID	File ID	8260-FLUOROBENZENE Response	8260-CHLOROBENZENE-D5 Response	8260-1,4-DICHLOROBENZENE-D4 Response
Standard	0914_03-2	626126.80	285579.20	226773.70
Upper Limit		1252254	571158	453547
Lower Limit		313063	142790	113387
LCS R4120731-1 WG2362406 1x	0914_03LCS	626126.80	285579.20	226773.70
BLANK R4120731-2 WG2362406 1x	0914_05	586031.10	257284.10	197152.50
L1775338-11 WG2362406 1x	0914_07	599318.30	257343.50	200185.30
L1775338-07 WG2362406 20x	0914_23	541360.80	232840.10	183244.70
L1775338-04 WG2362406 10x	0914_24	552863.60	235069.30	177788.80

Instrument: VOCMS56 • File ID: 0912_02-2

09/12/24 09:41

Sample ID	File ID	8260-FLUOROBENZENE Response	8260-CHLOROBENZENE-D5 Response	8260-1,4-DICHLOROBENZENE-D4 Response
Standard	0912_02-2	481602.40	228408.30	188783.90
Upper Limit		963205	456817	377568
Lower Limit		240801	114204	94392
LCS R4120289-1 WG2361379 1x	0912_02LCS	481602.40	228408.30	188783.90
BLANK R4120289-2 WG2361379 1x	0912_06	425019.70	188061.30	147470.50
LCSD R4120289-3 WG2361379 1x	0912_09	473085.50	227119.90	212570
L1775338-02 WG2361379 1x	0912_13	402607.70	180540.30	139799.80
L1775338-03 WG2361379 1x	0912_14	412362.50	193576	173315.40
L1775338-01 WG2361379 1x	0912_23	417148.70	220408.80	186261.80
L1775338-05 WG2361379 1x	0912_24	413630.60	178009.70	140164
L1775338-06 WG2361379 1x	0912_25	397399	179034.80	144849.20
L1775338-08 WG2361379 1x	0912_26	392977.90	179642.80	138547
L1775338-09 WG2361379 1x	0912_27	379332.10	178925.20	166390.90
MS R4120289-4 WG2361379 1x	0912_32	386558.60	175960.30	146607.50
MSD R4120289-5 WG2361379 1x	0912_33	391615.50	184566.40	156401.10

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Is

⁸ Gl

⁹ Al

¹⁰ Sc

INTERNAL STANDARD SUMMARY

Instrument: BNAMS33 • File ID: 0912C_02-1

09/12/24 22:38

Sample ID	File ID	1,4-DICHLOROBENZENE-D4 Response	NAPHTHALENE-D8 Response	ACENAPHTHENE-D10 Response	PHENANTHRENE-D10 Response	CHRYSENE-D12 Response	PERYLENE-D12 Response
Standard	0912C_02-1	195129	647514	422474	748751	739487	732397
Upper Limit		390258	1295028	844948	1497502	1478974	1464794
Lower Limit		97565	323757	211237	374376	369744	366199
LCS R4120834-1 WG2360961 1x	0912C_04	191006	690441	415341	748763	723971	728902
BLANK R4120834-2 WG2360961 1x	0912C_05	186235	627722	397505	751666	703295	722419
MS R4120834-3 WG2360961 1x	0912C_07	179910	667672	401578	750012	715440	715278
MSD R4120834-4 WG2360961 1x	0912C_08	177664	663150	394794	737199	706641	720594
L1775338-01 WG2360961 1x	0912C_10	185671	646885	450994	800122	713222	721569
L1775338-03 WG2360961 1x	0912C_11	193599	642405	418237	781786	724560	757374

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Is

8 Gl

9 Al

10 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Company Name/Address: **ARCADIS - BNSF Region 2**
1420 5th Avenue, Suite 2400
Seattle, WA 98101

Billing Information:
Accounts Payable
1420 5th Avenue, Suite 2400
Seattle, WA 98101

Report to:
Kyle Haslam

Project Description:
BNSF Time Oil Bulk Terminal - Seattle, WA

City/State Collected: **SEATTLE, WA**

Client Project #: **30195976**

Lab Project #: **BNSF2ARCA-TIMEOIL**

Site/Facility ID #: **BNSF TIME OIL**

P.O. #: **30195976**

Collected by (print): **ELIZABETH SCHELLER**

Collected by (signature):

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Immediately Packed on Ice N Y

Phase: **206-726-4753**

Please Circle: **PT** MT CT ET

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

Pace
 PEOPLE ADVANCING SCIENCE

MT JULIET, TN
 12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG #: **L1775336**

1228

Acctnum: **BNSF2ARCA**

Template: **T242285**

Prelogin: **P1096393**

PM: **4089 - Andi R Jones**

PB: **8-23-24**

Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 40mlAmb-HCl	CHLORIDE, SULFATE 125mlHDPE-NoPres	CVOCs 40mlAmb-HCl	Diss Metals - FE, MN 250mlHDPE-NoPres	NO2NO3 250mlHDPE-H2SO4	NWTPHDXLVINOSGT 40mlAmb-HCl-BT	NWTPHGX 40mlAmb-HCl	SV8270PCP 1L-Amb-NoPres	TOC 250mlAmb-HCl	Total Metals - FE, MN 250mlHDPE-HNO3	Remarks	Sample # (lab only)
01MW92		GW																
01MW93 -240904	G	GW	-	9-4-24	1015	16	X	X	X	X	X	X	X		X	X		
01MW94 -240904	G	GW	-	9-4-24	1520	16	X	X	X	X	X	X	X		X	X		
01MW95 -240904	G	GW	-	9-4-24	1622	29	X	X	X	X					X	X	MS/MSD	
01MW96		GW																
01MW97		GW																
01MW98 -240904	G	GW	-	9-4-24	1310	16		X	X	X	X	X	X		X	X		
MW-BN-01 -240905	G	GW	-	9-5-24	0910	11		X	X	X	X	X	X		X	X	Limeted volume	
MW-BN-02 -240905	G	GW	-	9-5-24	1005	6			X	X		X	X			X	Limeted volume	
MW-BN-03 -240903	G	GW	-	9-3-24	1500	14	X	X	X	X	X				X	X		

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks: **V8260: Special list *Samples may be analyzed for V8260ULL pending results***
8270: PCP only

Samples returned via: UPS FedEx Courier

Tracking #: **4041 0477 8229**

pH _____ Temp _____
 Flow _____ Other _____

Relinquished by: (Signature) Date: **9-6-24** Time: **1200**

Received by: (Signature) Trip Blank Received: Yes / No No
 MeOH TBR

Temp: _____ °C Bottles Received: **3.5 + 0.3 = 3.8**

Relinquished by: (Signature) Date: _____ Time: _____

Received for lab by: (Signature) Date: **9/7/24** Time: **0900**

Hold: _____ Condition: **NCF / OK**

Sample Receipt Checklist
 COC Seal Present/Intact: NP Y N
 COC Signed/Accurate: Y N
 Bottles arrive intact: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N
 If Applicable
 VOA Zero Headspace: Y N
 Preservation Correct/Checked: Y N
 RAD Screen <0.5 mR/hr: Y N

If preservation required by Login: Date/Time

Company Name/Address: ARCADIS - BNSF Region 2 1420 5th Avenue, Suite 2400 Seattle, WA 98101		Billing Information: Accounts Payable 1420 5th Avenue, Suite 2400 Seattle, WA 98101		Pres Chk	Analysis / Container / Preservative								Chain of Custody Page <u>2</u> of <u>2</u>	
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Report to: Kyle Haslam		Email To: kyle.haslam@arcadis.com; emily.zikmund@arca		<table border="1"> <tr> <td rowspan="2">BTEX 40mlAmb-HCl</td> <td rowspan="2">CHLORIDE,SULFATE 125mlHDPE-NoPres</td> <td rowspan="2">CVOCS 40mlAmb-HCl</td> <td rowspan="2">Diss Metals - FE,MN 250mlHDPE-NoPres</td> <td rowspan="2">NO2NO3 250mlHDPE-H2SO4</td> <td rowspan="2">NWTPHDXLVINOSGT 40mlAmb-HCl-BT</td> <td rowspan="2">NWTPHGX 40mlAmb-HCl</td> <td rowspan="2">SV8270PCP 1L-Amb-NoPres</td> <td rowspan="2">TOC 250mlAmb-HCl</td> <td rowspan="2">Total Metals - FE,MN 250mlHDPE-HNO3</td> </tr> </table>								BTEX 40mlAmb-HCl	CHLORIDE,SULFATE 125mlHDPE-NoPres	CVOCS 40mlAmb-HCl	Diss Metals - FE,MN 250mlHDPE-NoPres	NO2NO3 250mlHDPE-H2SO4	NWTPHDXLVINOSGT 40mlAmb-HCl-BT	NWTPHGX 40mlAmb-HCl	SV8270PCP 1L-Amb-NoPres	TOC 250mlAmb-HCl	Total Metals - FE,MN 250mlHDPE-HNO3	 MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/pas-standard-terms.pdf	
BTEX 40mlAmb-HCl	CHLORIDE,SULFATE 125mlHDPE-NoPres	CVOCS 40mlAmb-HCl	Diss Metals - FE,MN 250mlHDPE-NoPres																			NO2NO3 250mlHDPE-H2SO4	NWTPHDXLVINOSGT 40mlAmb-HCl-BT

Project Description: BNSF Time Oil Bulk Terminal - Seattle, WA		City/State Collected: SEATTLE, WA		Please Circle: PT MT C ET		Client Project # 30195976		Lab Project # BNSF2ARCA-TIMEOIL		SDG # U1773304	
--	--	--	--	------------------------------	--	-------------------------------------	--	---	--	-----------------------	--

Collected by (print): ELIZABETH SCHEJER		Site/Facility ID # BNSF TIME OIL		P.O. # 30195976		Date Results Needed		No. of Cntrs		Table #	
Collected by (signature): 		Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day		Quote #						Acctnum: BNSF2ARCA Template: T242285	

Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>		Remarks		Sample # (lab only)		Prelogin: P1096393 PM: 4089 - Andi R Jones PB: 8-23-24		Shipped Via: FedEX Ground	
--	--	---------	--	---------------------	--	---	--	----------------------------------	--

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	BTEX 40mlAmb-HCl	CHLORIDE,SULFATE 125mlHDPE-NoPres	CVOCS 40mlAmb-HCl	Diss Metals - FE,MN 250mlHDPE-NoPres	NO2NO3 250mlHDPE-H2SO4	NWTPHDXLVINOSGT 40mlAmb-HCl-BT	NWTPHGX 40mlAmb-HCl	SV8270PCP 1L-Amb-NoPres	TOC 250mlAmb-HCl	Total Metals - FE,MN 250mlHDPE-HNO3	Remarks	Sample # (lab only)
MW-BN-04		GW															
MW-BN-05		GW															
-240905	G	GW	-	9-5-24	0755	8	X	X	X	X	X	X	X	X	X		Limetec volume -01
DUP-1 240904	G	GW	-	9-4-24	-	16	X	X	X	X	X	X	X	X	X		
TRIP BLANKS	-	GW	-	-	-	12		X				X					-02
EB 240905	G	GW	-	9-5-24	1500	13	X	X			X	X	X				-03
		GW															
		GW															
		GW															
		GW															
		GW															

* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other	Remarks: V8260: Special list *Samples may be analyzed for V8260ULL pending results* 8270: PCP only	pH _____ Temp _____ Flow _____ Other _____	Sample Receipt Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier		Tracking #	

Relinquished by: (Signature) 	Date: 9-6-24	Time: 1200	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeOH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) 	Date: 9/7/24 Time: 0900

Condition:
NCF / OK

Company Name/Address:
ARCADIS - BNSF Region 2
 1420 5th Avenue, Suite 2400
 Seattle, WA 98101

Billing Information:
Accounts Payable
 1420 5th Avenue, Suite 2400
 Seattle, WA 98101

Report to:
Kyle Haslam

Email To:
 kyle.haslam@arcadis.com;emily.zikmund@arca

Project Description:
BNSF Time Oil Bulk Terminal - Seattle, WA

City/State Collected: **SEATTLE, WA**
 Please Circle: **PT** MT CT ET

Phone: **206-726-4753**

Client Project #
30195976

Lab Project #
BNSF2ARCA-TIMEOIL

Collected by (print):
ELIZABETH SCHEUER

Site/Facility ID #
BNSF TIME OIL

P.O. #
30195976

Collected by (signature):

Rush? (Lab MUST Be Notified)
 ___ Same Day ___ Five Day
 ___ Next Day ___ 5 Day (Rad Only)
 ___ Two Day ___ 10 Day (Rad Only)
 ___ Three Day

Quote #
 Date Results Needed

Immediately Packed on Ice **N** ___ **Y** **X**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 40ml/Amb-HCl	CHLORIDE,SULFATE 125mlHDPE-NoPres	CVOCS 40ml/Amb-HCl	Diss Metals - FE,MN 250mlHDPE-NoPres	NO2NO3 250mlHDPE-H2SO4	NWTPHDXLVINOSGT 40ml/Amb-HCl-BT	NWTPHGX 40ml/Amb-HCl	SV8270PCP 1L-Amb-NoPres	TOC 250ml/Amb-HCl	Total Metals - FE,MN 250mlHDPE-HNO3
01MW92		GW														
01MW93 -240904	G	GW	-	9-4-24	1015	16	X	X	X	X	X	X	X		X	X
01MW94 -240904	G	GW	-	9-21-24	1520	16	X	X	X	X	X	X	X		X	X
01MW95 -240904	G	GW	-	9-4-24	1622	29	X	X	X	X					X	X
01MW96		GW														
01MW97		GW														
01MW98 -240904	G	GW	-	9-4-24	1310	16	X	X	X	X	X	X	X		X	X
MW-BN-01 -240905	G	GW	-	9-5-24	0910	11	X	X	X	X	X	X	X		X	X
MW-BN-02 -240905	G	GW	-	9-5-24	1005	6			X	X		X	X		X	X
MW-BN-03 -240903	G	GW	-	9-3-24	1500	14	X	X	X	X	X				X	X

Analysis / Container / Preservative

Pres Chk

2

2

Chain of Custody Page 1 of 2

Pace
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MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # **1755378**

D231

Acctnum: **BNSF2ARCA**

Template: **T242285**

Prelogin: **P1096393**

PM: **4089 - Andi R Jones**

PB: **8-23-24**

Shipped Via: **FedEX Ground**

Remarks | Sample # (lab only)

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks: **V8260: Special list *Samples may be analyzed for V8260ULL pending results***
8270: PCP only

Samples returned via: ___ UPS ___ FedEx ___ Courier
 Tracking #

Sample Receipt Checklist

COC Seal Present/Intact: ___ NP	<input checked="" type="checkbox"/>	N
COC Signed/Accurate:	<input checked="" type="checkbox"/>	N
Bottles arrive intact:	<input checked="" type="checkbox"/>	N
Correct bottles used:	<input checked="" type="checkbox"/>	N
Sufficient volume sent:	<input checked="" type="checkbox"/>	N
If Applicable		
VOA Zero Headspace:	<input checked="" type="checkbox"/>	N
Preservation Correct/Checked:	<input checked="" type="checkbox"/>	N
RAD Screen <0.5 mR/hr:	<input checked="" type="checkbox"/>	N

Relinquished by: (Signature)

Date: **9-6-24**
 Time: **1200**

Received by: (Signature)

Trip Blank Received: **9** (Yes/No)
 HCl / MeOH
 TBR

Relinquished by: (Signature)

Date: _____
 Time: _____

Received by: (Signature)

Temp: _____ °C
 Bottles Received: **151**

PH-10BDH0941 TRC-3327-032

Relinquished by: (Signature)

Date: _____
 Time: _____

Received for lab by: (Signature)

Date: **9-10-24**
 Time: **0845**

Hold: _____
 Condition: NCF / OK

Company Name/Address:
ARCADIS - BNSF Region 2
 1420 5th Avenue, Suite 2400
 Seattle, WA 98101

Billing Information:
Accounts Payable
 1420 5th Avenue, Suite 2400
 Seattle, WA 98101

Pres
 Chk

Report to:
Kyle Haslam

Email To:
 kyle.haslam@arcadis.com;emily.zikmund@arca

Project Description:
BNSF Time Oil Bulk Terminal - Seattle, WA

City/State
 Collected: **SEATTLE, WA**

Please Circle:
 PT MT CT ET

Phone: **206-726-4753**

Client Project #
30195976

Lab Project #
BNSF2ARCA-TIMEOIL

Collected by (print):
ELIZABETH SCHEUER

Site/Facility ID #
BNSF TIME OIL

P.O. #
30195976

Collected by (signature):

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Quote #
 Date Results Needed

Immediately Packed on Ice N Y

No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
MW-BN-04		GW				
MW-BN-05 -240905	G	GW	-	9-5-24	0755	87X
DUP-1 240904	G	GW	-	9-4-24	-	16
TRIP BLANKS	-	GW	-	-	-	129
EB 240905	G	GW	-	9-5-24	1500	13
		GW				
		GW				
		GW				
		GW				
		GW				
		GW				

Analysis / Container / Preservative										
BTEX 40mlAmb-HCl	CHLORIDE, SULFATE 125mlHDPE-NoPres	CVOCs 40mlAmb-HCl	Diss Metals - FE,MN 250mlHDPE-NoPres	NO2NO3 250mlHDPE-H2SO4	NWTPHDXLVINOSGT 40mlAmb-HCl-BT	NWTPHGX 40mlAmb-HCl	SV8270PCP 1L-Amb-NoPres	TOC 250mlAmb-HCl	Total Metals - FE,MN 250mlHDPE-HNO3	

Chain of Custody Page **2** of **2**

Pace
 PEOPLE ADVANCING SCIENCE

MT JULIET, TN
 12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # **L025mg**

Table #

Acctnum: **BNSF2ARCA**

Template: **T242285**

Prelogin: **P1096393**

PM: **4089 - Andi R Jones**

PB: **8-23-246m**

Shipped Via: **FedEX Ground**

Remarks | Sample # (lab only)

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks: **V8260: Special list *Samples may be analyzed for V8260ULL pending results***
8270: PCP only

pH _____ Temp _____
 Flow _____ Other _____

Samples returned via:
 UPS FedEx Courier

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact: NP Y N

COC Signed/Accurate: Y N

Bottles arrive intact: Y N

Correct bottles used: Y N

Sufficient volume sent: Y N

If Applicable

VOA Zero Headspace: Y N

Preservation Correct/Checked: Y N

RAD Screen <0.5 mR/hr: Y N

Relinquished by: (Signature)

Date: **7-6-24** Time: **1200**

Received by: (Signature)

Trip Blank Received: Yes / No
 HCL / MeOH
 TBR

Relinquished by: (Signature)

Date: Time:

Received by: (Signature)

Temp: _____ °C Bottles Received: **151**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: Time:

Received for lab by: (Signature)
Deryan

Date: **9-10-24** Time: **0845**

Hold: Condition:
 NCF / OK

Fed Ex tracking #	Gun ID	Temperature
40410477 8056	TLA9	3.9 to 3 = 4.2
40410477 8067	TLA9	2.7 to 3 = 3.0
40410477 8078	TLA9	2.4 to 3 = 2.7

Name Deryan G Date 9.10.24

8555 + 17
 LIT + 5338