ANALYTICAL REPORT

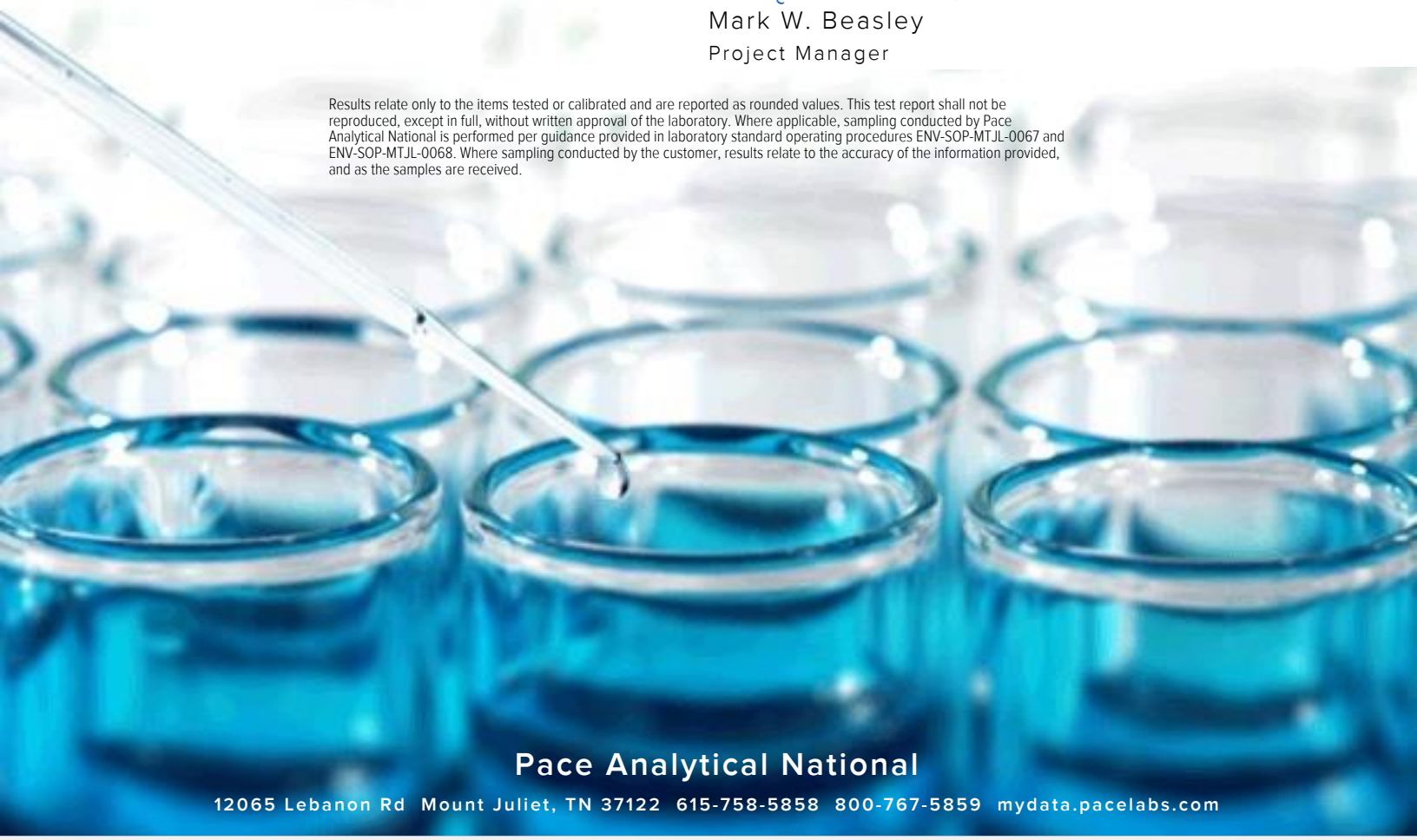
October 24, 2025

ARCADIS - BNSF Region 2

Sample Delivery Group:	L1900310
Samples Received:	09/20/2025
Project Number:	30270277.01
Description:	BNSF Time Oil
Site:	SEATTLE, WA 98199
Report To:	Kyle Haslam
	1420 5th Avenue, Suite 2400
	Seattle, WA 98101

Entire Report Reviewed By:

Mark W. Beasley
Project Manager



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

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MW-BN-02(091725) L1900310-01

	Collected by	Collected date/time	Received date/time
		09/17/25 15:00	09/20/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2605586	1	09/22/25 14:58	09/22/25 14:58	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2606984	1	09/25/25 04:53	09/25/25 04:53	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2607051	1	09/26/25 08:48	10/06/25 16:53	ENR	Mt. Juliet, TN

MW-BN-03(091725) L1900310-02

	Collected by	Collected date/time	Received date/time
		09/17/25 13:20	09/20/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 353.2	WG2607765	1	09/26/25 15:59	09/26/25 15:59	CAT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2604730	1	09/24/25 01:08	09/24/25 01:08	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2610357	1	09/30/25 17:54	09/30/25 17:54	TJP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605474	1	09/23/25 19:54	10/14/25 11:04	TMT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605483	1	09/24/25 13:23	10/16/25 15:39	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605483	5	09/24/25 13:23	10/16/25 17:10	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2605723	50	09/22/25 21:13	09/22/25 21:13	WHS	Mt. Juliet, TN

MW-BN-06(091725) L1900310-03

	Collected by	Collected date/time	Received date/time
		09/17/25 13:15	09/20/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 353.2	WG2607765	1	09/26/25 16:01	09/26/25 16:01	CAT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2604730	1	09/24/25 01:18	09/24/25 01:18	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2610357	1	09/30/25 18:15	09/30/25 18:15	TJP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605474	1	09/23/25 19:54	10/14/25 11:08	TMT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605483	1	09/24/25 13:23	10/16/25 15:49	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605483	5	09/24/25 13:23	10/16/25 17:13	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2605586	1	09/22/25 15:19	09/22/25 15:19	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2606984	1	09/25/25 05:15	09/25/25 05:15	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2607051	1	09/26/25 08:48	10/06/25 17:18	ENR	Mt. Juliet, TN

MW-BN-07(091825) L1900310-04

	Collected by	Collected date/time	Received date/time
		09/18/25 13:15	09/20/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 353.2	WG2607765	1	09/26/25 16:04	09/26/25 16:04	CAT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2604730	1	09/24/25 01:29	09/24/25 01:29	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2604730	5	09/25/25 02:31	09/25/25 02:31	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2610357	1	09/30/25 18:36	09/30/25 18:36	TJP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605474	1	09/23/25 19:54	10/14/25 10:52	TMT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605483	1	09/24/25 13:23	10/16/25 15:18	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605483	5	09/24/25 13:23	10/16/25 17:07	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2605586	1	09/22/25 17:34	09/22/25 17:34	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2606759	1	09/26/25 13:51	09/26/25 13:51	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2606557	1	09/25/25 22:41	10/04/25 11:49	CAH	Mt. Juliet, TN

01MW93(091725) L1900310-05

	Collected by	Collected date/time	Received date/time
		09/17/25 14:45	09/20/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 353.2	WG2607779	1	09/27/25 16:25	09/27/25 16:25	CAT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2604730	1	09/24/25 02:34	09/24/25 02:34	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2610357	1	09/30/25 19:42	09/30/25 19:42	TJP	Mt. Juliet, TN

01MW93(091725) L1900310-05

Collected by | Collected date/time 09/17/25 14:45 | Received date/time 09/20/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020B	WG2605474	1	09/23/25 19:54	10/14/25 11:11	TMT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605483	1	09/24/25 13:23	10/16/25 15:52	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605483	5	09/24/25 13:23	10/16/25 17:16	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2605586	1	09/22/25 17:56	09/22/25 17:56	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2605700	25	09/22/25 22:19	09/22/25 22:19	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2607051	1	09/26/25 08:48	10/06/25 17:42	ENR	Mt. Juliet, TN

01MW94(091725) L1900310-06

Collected by | Collected date/time 09/17/25 10:50 | Received date/time 09/20/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 353.2	WG2607779	1	09/27/25 16:32	09/27/25 16:32	CAT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2604730	1	09/24/25 02:45	09/24/25 02:45	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2610357	1	09/30/25 20:03	09/30/25 20:03	TJP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605474	1	09/23/25 19:54	10/14/25 11:14	TMT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605483	1	09/24/25 13:23	10/16/25 15:55	JPD	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605483	5	09/24/25 13:23	10/16/25 17:19	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2605586	1	09/22/25 18:17	09/22/25 18:17	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2609340	1	09/27/25 11:05	09/27/25 11:05	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2607051	1	09/26/25 08:48	10/06/25 05:17	ENR	Mt. Juliet, TN

01MW95(091725) L1900310-07

Collected by | Collected date/time 09/17/25 11:55 | Received date/time 09/20/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2606984	1	09/25/25 05:37	09/25/25 05:37	DWR	Mt. Juliet, TN

01MW97(091725) L1900310-08

Collected by | Collected date/time 09/17/25 15:50 | Received date/time 09/20/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2605586	1	09/22/25 18:39	09/22/25 18:39	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2606984	1	09/25/25 05:58	09/25/25 05:58	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2607051	2	09/26/25 08:48	10/06/25 18:07	ENR	Mt. Juliet, TN

01MW98(091725) L1900310-09

Collected by | Collected date/time 09/17/25 15:00 | Received date/time 09/20/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 353.2	WG2607779	1	09/27/25 16:35	09/27/25 16:35	CAT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2604730	1	09/24/25 02:56	09/24/25 02:56	GEB	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2610357	1	09/30/25 20:45	09/30/25 20:45	TJP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605474	1	09/23/25 19:54	10/14/25 11:50	TMT	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2605483	1	09/24/25 13:23	10/16/25 15:58	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2605586	1	09/22/25 19:00	09/22/25 19:00	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2608229	20	09/27/25 00:11	09/27/25 00:11	DYW	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2607051	1	09/26/25 08:48	10/06/25 18:31	ENR	Mt. Juliet, TN

MW-DUP-01(091825) L1900310-10

Collected by	Collected date/time	Received date/time
	09/18/25 00:00	09/20/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2605586	1	09/22/25 19:22	09/22/25 19:22	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2606759	1	09/26/25 14:11	09/26/25 14:11	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2606557	1	09/25/25 22:41	10/04/25 13:51	CAH	Mt. Juliet, TN

EB-01(091725) L1900310-11

Collected by	Collected date/time	Received date/time
	09/17/25 15:45	09/20/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2605586	1	09/22/25 13:10	09/22/25 13:10	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2606984	1	09/25/25 00:34	09/25/25 00:34	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2607051	1	09/26/25 08:48	10/06/25 18:56	ENR	Mt. Juliet, TN

TB-01(091925) L1900310-13

Collected by	Collected date/time	Received date/time
	09/19/25 00:00	09/20/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2606984	1	09/24/25 23:29	09/24/25 23:29	DWR	Mt. Juliet, TN

TB-02(091925) L1900310-14

Collected by	Collected date/time	Received date/time
	09/19/25 00:00	09/20/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2606984	1	09/24/25 23:51	09/24/25 23:51	DWR	Mt. Juliet, TN

TB-03(091925) L1900310-15

Collected by	Collected date/time	Received date/time
	09/19/25 00:00	09/20/25 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2606984	1	09/25/25 00:12	09/25/25 00:12	DWR	Mt. Juliet, TN

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.

Mark W. Beasley
Project Manager

Project Narrative

L1900310-10 : 8260 Vial pH ~7.

Sample Delivery Group (SDG) Narrative

Analysis was filtered in the laboratory.

Lab Sample ID	Project Sample ID	Method
L1900310-02	MW-BN-03(091725)	6020B
L1900310-03	MW-BN-06(091725)	6020B
L1900310-04	MW-BN-07(091825)	6020B
L1900310-05	01MW93(091725)	6020B
L1900310-06	01MW94(091725)	6020B
L1900310-09	01MW98(091725)	6020B
R4288164-3		6020B
R4288164-8		6020B

pH outside of method requirement.

Lab Sample ID	Project Sample ID	Method
L1900310-10	MW-DUP-01(091825)	8260D

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	570		78.6	100	1	09/22/2025 14:58	WG2605586
(S) a,a,a-Trifluorotoluene(FID)	*99.7*			*78.0-120*		*09/22/2025 14:58*	WG2605586

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	09/25/2025 04:53	WG2606984
1,1-Dichloroethene	U	J4	0.0200	0.100	1	09/25/2025 04:53	WG2606984
cis-1,2-Dichloroethene	0.154		0.0276	0.100	1	09/25/2025 04:53	WG2606984
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/25/2025 04:53	WG2606984
Tetrachloroethene	6.42		0.0280	0.100	1	09/25/2025 04:53	WG2606984
Trichloroethene	0.728		0.0160	0.0400	1	09/25/2025 04:53	WG2606984
Vinyl chloride	U		0.0273	0.100	1	09/25/2025 04:53	WG2606984
(S) Toluene-d8	*97.7*			*75.0-131*		*09/25/2025 04:53*	WG2606984
(S) 4-Bromofluorobenzene	*98.8*			*67.0-138*		*09/25/2025 04:53*	WG2606984
(S) 1,2-Dichloroethane-d4	*119*			*70.0-130*		*09/25/2025 04:53*	WG2606984

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)	1780		60.5	200	1	10/06/2025 16:53	WG2607051
Residual Range Organics (RRO)	93.0	J	77.2	250	1	10/06/2025 16:53	WG2607051
DRO/RRO (Total)	1870		60.5	200	1	10/06/2025 16:53	WG2607051
(S) o-Terphenyl	*190*	J1		*52.0-156*		*10/06/2025 16:53*	WG2607051

Sample Narrative:

L1900310-01 WG2607051: Sample does not resemble laboratory standards. Surrogate failure due to matrix interference.

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		43.5	200	1	09/26/2025 15:59	WG2607765

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	10200		547	1000	1	09/24/2025 01:08	WG2604730
Sulfate	98000		637	5000	1	09/24/2025 01:08	WG2604730

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)	3960		495	1000	1	09/30/2025 17:54	WG2610357

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	3030		22.6	100	1	10/14/2025 11:04	WG2605474
Iron,Dissolved	U		22.6	100	1	10/16/2025 15:39	WG2605483
Manganese	1020		0.700	5.00	1	10/14/2025 11:04	WG2605474
Manganese,Dissolved	995		3.50	25.0	5	10/16/2025 17:10	WG2605483

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		16.0	50.0	50	09/22/2025 21:13	WG2605723
trans-1,4-Dichloro-2-butene	U	C3	93.0	125	50	09/22/2025 21:13	WG2605723
1,2-Dichloroethane	U		19.8	50.0	50	09/22/2025 21:13	WG2605723
1,1-Dichloroethene	U		21.1	50.0	50	09/22/2025 21:13	WG2605723
cis-1,2-Dichloroethene	151		16.2	50.0	50	09/22/2025 21:13	WG2605723
trans-1,2-Dichloroethene	U		17.4	50.0	50	09/22/2025 21:13	WG2605723
Ethylbenzene	U		11.7	50.0	50	09/22/2025 21:13	WG2605723
Tetrachloroethene	U		17.9	50.0	50	09/22/2025 21:13	WG2605723
Toluene	U		13.7	50.0	50	09/22/2025 21:13	WG2605723
Trichloroethene	1070		19.2	50.0	50	09/22/2025 21:13	WG2605723
Vinyl chloride	U		22.9	50.0	50	09/22/2025 21:13	WG2605723
Xylenes, Total	U		15.9	150	50	09/22/2025 21:13	WG2605723
(S) Toluene-d8	*100*			*80.0-120*		*09/22/2025 21:13*	WG2605723
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*09/22/2025 21:13*	WG2605723
(S) 1,2-Dichloroethane-d4	*90.7*			*70.0-130*		*09/22/2025 21:13*	WG2605723

Sample Narrative:

L1900310-02 WG2605723: Target compounds too high to run at a lower dilution.

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		43.5	200	1	09/26/2025 16:01	WG2607765

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	17200		547	1000	1	09/24/2025 01:18	WG2604730
Sulfate	18800		637	5000	1	09/24/2025 01:18	WG2604730

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)	5340		495	1000	1	09/30/2025 18:15	WG2610357

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	2280		22.6	100	1	10/14/2025 11:08	WG2605474
Iron,Dissolved	U		22.6	100	1	10/16/2025 15:49	WG2605483
Manganese	958		0.700	5.00	1	10/14/2025 11:08	WG2605474
Manganese,Dissolved	934		3.50	25.0	5	10/16/2025 17:13	WG2605483

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		78.6	100	1	09/22/2025 15:19	WG2605586
(S) a,a,a-Trifluorotoluene(FID)	*98.8*			*78.0-120*		*09/22/2025 15:19*	WG2605586

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	09/25/2025 05:15	WG2606984
1,1-Dichloroethene	U	J4	0.0200	0.100	1	09/25/2025 05:15	WG2606984
cis-1,2-Dichloroethene	U		0.0276	0.100	1	09/25/2025 05:15	WG2606984
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/25/2025 05:15	WG2606984
Tetrachloroethene	U		0.0280	0.100	1	09/25/2025 05:15	WG2606984
Trichloroethene	U		0.0160	0.0400	1	09/25/2025 05:15	WG2606984
Vinyl chloride	U		0.0273	0.100	1	09/25/2025 05:15	WG2606984
(S) Toluene-d8	*101*			*75.0-131*		*09/25/2025 05:15*	WG2606984
(S) 4-Bromofluorobenzene	*99.2*			*67.0-138*		*09/25/2025 05:15*	WG2606984
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*		*09/25/2025 05:15*	WG2606984

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)	878		60.5	200	1	10/06/2025 17:18	WG2607051
Residual Range Organics (RRO)	156	J	77.2	250	1	10/06/2025 17:18	WG2607051
DRO/RRO (Total)	1030		60.5	200	1	10/06/2025 17:18	WG2607051
(S) o-Terphenyl	*95.8*			*52.0-156*		*10/06/2025 17:18*	WG2607051

Sample Narrative:

L1900310-03 WG2607051: Sample resembles laboratory standard for Diesel.

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		43.5	200	1	09/26/2025 16:04	WG2607765

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	9970		547	1000	1	09/24/2025 01:29	WG2604730
Sulfate	111000		3180	25000	5	09/25/2025 02:31	WG2604730

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)	3430		495	1000	1	09/30/2025 18:36	WG2610357

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	2540		22.6	100	1	10/14/2025 10:52	WG2605474
Iron,Dissolved	U		22.6	100	1	10/16/2025 15:18	WG2605483
Manganese	1140	V	0.700	5.00	1	10/14/2025 10:52	WG2605474
Manganese,Dissolved	1110		3.50	25.0	5	10/16/2025 17:07	WG2605483

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		78.6	100	1	09/22/2025 17:34	WG2605586
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*78.0-120*		*09/22/2025 17:34*	WG2605586

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		0.395	1.00	1	09/26/2025 13:51	WG2606759
1,1-Dichloroethene	U		0.422	1.00	1	09/26/2025 13:51	WG2606759
cis-1,2-Dichloroethene	12.1		0.323	1.00	1	09/26/2025 13:51	WG2606759
trans-1,2-Dichloroethene	4.90		0.348	1.00	1	09/26/2025 13:51	WG2606759
Tetrachloroethene	U		0.358	1.00	1	09/26/2025 13:51	WG2606759
Trichloroethene	30.8	J6	0.383	1.00	1	09/26/2025 13:51	WG2606759
Vinyl chloride	1.09	C3 J4	0.458	1.00	1	09/26/2025 13:51	WG2606759
(S) Toluene-d8	*101*			*80.0-120*		*09/26/2025 13:51*	WG2606759
(S) 4-Bromofluorobenzene	*99.2*			*77.0-126*		*09/26/2025 13:51*	WG2606759
(S) 1,2-Dichloroethane-d4	*99.8*			*70.0-130*		*09/26/2025 13:51*	WG2606759

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)	714		60.5	200	1	10/04/2025 11:49	WG2606557
Residual Range Organics (RRO)	U		77.2	250	1	10/04/2025 11:49	WG2606557
DRO/RRO (Total)	714		60.5	200	1	10/04/2025 11:49	WG2606557
(S) o-Terphenyl	*124*			*52.0-156*		*10/04/2025 11:49*	WG2606557

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		43.5	200	1	09/27/2025 16:25	WG2607779

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	9020		547	1000	1	09/24/2025 02:34	WG2604730
Sulfate	80900		637	5000	1	09/24/2025 02:34	WG2604730

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)	5410		495	1000	1	09/30/2025 19:42	WG2610357

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	1130		22.6	100	1	10/14/2025 11:11	WG2605474
Iron,Dissolved	U		22.6	100	1	10/16/2025 15:52	WG2605483
Manganese	1080		0.700	5.00	1	10/14/2025 11:11	WG2605474
Manganese,Dissolved	1130		3.50	25.0	5	10/16/2025 17:16	WG2605483

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	197		78.6	100	1	09/22/2025 17:56	WG2605586
(S) a,a,a-Trifluorotoluene(FID)	*99.2*			*78.0-120*		*09/22/2025 17:56*	WG2605586

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		9.88	25.0	25	09/22/2025 22:19	WG2605700
1,1-Dichloroethene	U		10.6	25.0	25	09/22/2025 22:19	WG2605700
cis-1,2-Dichloroethene	38.4		8.07	25.0	25	09/22/2025 22:19	WG2605700
trans-1,2-Dichloroethene	U		8.70	25.0	25	09/22/2025 22:19	WG2605700
Tetrachloroethene	U		8.95	25.0	25	09/22/2025 22:19	WG2605700
Trichloroethene	449		9.58	25.0	25	09/22/2025 22:19	WG2605700
Vinyl chloride	U	J4	11.5	25.0	25	09/22/2025 22:19	WG2605700
(S) Toluene-d8	*109*			*80.0-120*		*09/22/2025 22:19*	WG2605700
(S) 4-Bromofluorobenzene	*96.4*			*77.0-126*		*09/22/2025 22:19*	WG2605700
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*09/22/2025 22:19*	WG2605700

Sample Narrative:

L1900310-05 WG2605700: Elevated RL due to smple matrix and high PID reading.

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)	1030		60.5	200	1	10/06/2025 17:42	WG2607051
Residual Range Organics (RRO)	306		77.2	250	1	10/06/2025 17:42	WG2607051
DRO/RRO (Total)	1340		60.5	200	1	10/06/2025 17:42	WG2607051
(S) o-Terphenyl	*94.7*			*52.0-156*		*10/06/2025 17:42*	WG2607051

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	

Sample Narrative:

L1900310-05 WG2607051: Sample resembles laboratory standard for Diesel.

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		43.5	200	1	09/27/2025 16:32	WG2607779

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	12100		547	1000	1	09/24/2025 02:45	WG2604730
Sulfate	6410		637	5000	1	09/24/2025 02:45	WG2604730

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)	4370		495	1000	1	09/30/2025 20:03	WG2610357

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	1310		22.6	100	1	10/14/2025 11:14	WG2605474
Iron,Dissolved	U		22.6	100	1	10/16/2025 15:55	WG2605483
Manganese	891		0.700	5.00	1	10/14/2025 11:14	WG2605474
Manganese,Dissolved	868		3.50	25.0	5	10/16/2025 17:19	WG2605483

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		78.6	100	1	09/22/2025 18:17	WG2605586
(S) a,a,a-Trifluorotoluene(FID)	*99.1*			*78.0-120*		*09/22/2025 18:17*	WG2605586

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	09/27/2025 11:05	WG2609340
1,1-Dichloroethene	U		0.0200	0.100	1	09/27/2025 11:05	WG2609340
cis-1,2-Dichloroethene	U		0.0276	0.100	1	09/27/2025 11:05	WG2609340
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/27/2025 11:05	WG2609340
Tetrachloroethene	U		0.0280	0.100	1	09/27/2025 11:05	WG2609340
Trichloroethene	U		0.0160	0.0400	1	09/27/2025 11:05	WG2609340
Vinyl chloride	0.127		0.0273	0.100	1	09/27/2025 11:05	WG2609340
(S) Toluene-d8	*95.2*			*75.0-131*		*09/27/2025 11:05*	WG2609340
(S) 4-Bromofluorobenzene	*97.0*			*67.0-138*		*09/27/2025 11:05*	WG2609340
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*09/27/2025 11:05*	WG2609340

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)	625		60.5	200	1	10/06/2025 05:17	WG2607051
Residual Range Organics (RRO)	414		77.2	250	1	10/06/2025 05:17	WG2607051
DRO/RRO (Total)	1040		60.5	200	1	10/06/2025 05:17	WG2607051
(S) o-Terphenyl	*98.9*			*52.0-156*		*10/06/2025 05:17*	WG2607051

Sample Narrative:

L1900310-06 WG2607051: Sample resembles laboratory standards for Hydraulic Fluid and Hydraulic Oil.

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	09/25/2025 05:37	WG2606984
1,1-Dichloroethene	U	J4	0.0200	0.100	1	09/25/2025 05:37	WG2606984
cis-1,2-Dichloroethene	U		0.0276	0.100	1	09/25/2025 05:37	WG2606984
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/25/2025 05:37	WG2606984
Tetrachloroethene	U		0.0280	0.100	1	09/25/2025 05:37	WG2606984
Trichloroethene	U		0.0160	0.0400	1	09/25/2025 05:37	WG2606984
Vinyl chloride	U		0.0273	0.100	1	09/25/2025 05:37	WG2606984
(S) Toluene-d8	*102*			*75.0-131*		*09/25/2025 05:37*	WG2606984
(S) 4-Bromofluorobenzene	*98.6*			*67.0-138*		*09/25/2025 05:37*	WG2606984
(S) 1,2-Dichloroethane-d4	*118*			*70.0-130*		*09/25/2025 05:37*	WG2606984

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		78.6	100	1	09/22/2025 18:39	WG2605586
(S) a,a,a-Trifluorotoluene(FID)	*99.2*			*78.0-120*		*09/22/2025 18:39*	WG2605586

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	09/25/2025 05:58	WG2606984
1,1-Dichloroethene	0.152	C5 J4	0.0200	0.100	1	09/25/2025 05:58	WG2606984
cis-1,2-Dichloroethene	61.1		0.0276	0.100	1	09/25/2025 05:58	WG2606984
trans-1,2-Dichloroethene	0.961		0.0572	0.200	1	09/25/2025 05:58	WG2606984
Tetrachloroethene	U		0.0280	0.100	1	09/25/2025 05:58	WG2606984
Trichloroethene	39.4		0.0160	0.0400	1	09/25/2025 05:58	WG2606984
Vinyl chloride	U		0.0273	0.100	1	09/25/2025 05:58	WG2606984
(S) Toluene-d8	*99.5*			*75.0-131*		*09/25/2025 05:58*	WG2606984
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*09/25/2025 05:58*	WG2606984
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*09/25/2025 05:58*	WG2606984

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)	U		121	400	2	10/06/2025 18:07	WG2607051
Residual Range Organics (RRO)	U		154	500	2	10/06/2025 18:07	WG2607051
DRO/RRO (Total)	U		121	400	2	10/06/2025 18:07	WG2607051
(S) o-Terphenyl	*45.9*	J2		*52.0-156*		*10/06/2025 18:07*	WG2607051

Sample Narrative:

L1900310-08 WG2607051: Dilution due to matrix impact during extraction procedure. Surrogate failure due to matrix.

Wet Chemistry by Method 353.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		43.5	200	1	09/27/2025 16:35	WG2607779

Wet Chemistry by Method 9056A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	4300	B	547	1000	1	09/24/2025 02:56	WG2604730
Sulfate	18200		637	5000	1	09/24/2025 02:56	WG2604730

Wet Chemistry by Method 9060A

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	12400		495	1000	1	09/30/2025 20:45	WG2610357

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Iron	670		22.6	100	1	10/14/2025 11:50	WG2605474
Iron,Dissolved	U		22.6	100	1	10/16/2025 15:58	WG2605483
Manganese	336		0.700	5.00	1	10/14/2025 11:50	WG2605474
Manganese,Dissolved	309		0.700	5.00	1	10/16/2025 15:58	WG2605483

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	181		78.6	100	1	09/22/2025 19:00	WG2605586
(S) a,a,a-Trifluorotoluene(FID)	*99.1*			*78.0-120*		*09/22/2025 19:00*	WG2605586

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		7.90	20.0	20	09/27/2025 00:11	WG2608229
1,1-Dichloroethene	U		8.44	20.0	20	09/27/2025 00:11	WG2608229
cis-1,2-Dichloroethene	102		6.46	20.0	20	09/27/2025 00:11	WG2608229
trans-1,2-Dichloroethene	U		6.96	20.0	20	09/27/2025 00:11	WG2608229
Tetrachloroethene	U		7.16	20.0	20	09/27/2025 00:11	WG2608229
Trichloroethene	328		7.66	20.0	20	09/27/2025 00:11	WG2608229
Vinyl chloride	U	C3	9.16	20.0	20	09/27/2025 00:11	WG2608229
(S) Toluene-d8	*105*			*80.0-120*		*09/27/2025 00:11*	WG2608229
(S) 4-Bromofluorobenzene	*99.8*			*77.0-126*		*09/27/2025 00:11*	WG2608229
(S) 1,2-Dichloroethane-d4	*95.2*			*70.0-130*		*09/27/2025 00:11*	WG2608229

Sample Narrative:

L1900310-09 WG2608229: Non-target compounds too high to run at a lower dilution.

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)	3590		60.5	200	1	10/06/2025 18:31	WG2607051
Residual Range Organics (RRO)	1380		77.2	250	1	10/06/2025 18:31	WG2607051
DRO/RRO (Total)	4970		60.5	200	1	10/06/2025 18:31	WG2607051
(S) o-Terphenyl	*111*			*52.0-156*		*10/06/2025 18:31*	WG2607051

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	

Sample Narrative:

L1900310-09 WG2607051: Sample resembles laboratory standard for Diesel.

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		78.6	100	1	09/22/2025 19:22	WG2605586
(S) a,a,a-Trifluorotoluene(FID)	*99.2*			*78.0-120*		*09/22/2025 19:22*	WG2605586

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		0.395	1.00	1	09/26/2025 14:11	WG2606759
1,1-Dichloroethene	U		0.422	1.00	1	09/26/2025 14:11	WG2606759
cis-1,2-Dichloroethene	11.6		0.323	1.00	1	09/26/2025 14:11	WG2606759
trans-1,2-Dichloroethene	4.90		0.348	1.00	1	09/26/2025 14:11	WG2606759
Tetrachloroethene	U		0.358	1.00	1	09/26/2025 14:11	WG2606759
Trichloroethene	27.2		0.383	1.00	1	09/26/2025 14:11	WG2606759
Vinyl chloride	1.05	C3 J4	0.458	1.00	1	09/26/2025 14:11	WG2606759
(S) Toluene-d8	*105*			*80.0-120*		*09/26/2025 14:11*	WG2606759
(S) 4-Bromofluorobenzene	*99.0*			*77.0-126*		*09/26/2025 14:11*	WG2606759
(S) 1,2-Dichloroethane-d4	*97.1*			*70.0-130*		*09/26/2025 14:11*	WG2606759

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)	692		60.5	200	1	10/04/2025 13:51	WG2606557
Residual Range Organics (RRO)	229	J	77.2	250	1	10/04/2025 13:51	WG2606557
DRO/RRO (Total)	921		60.5	200	1	10/04/2025 13:51	WG2606557
(S) o-Terphenyl	*117*			*52.0-156*		*10/04/2025 13:51*	WG2606557

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		78.6	100	1	09/22/2025 13:10	WG2605586
(S) a,a,a-Trifluorotoluene(FID)	*98.7*			*78.0-120*		*09/22/2025 13:10*	WG2605586

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	09/25/2025 00:34	WG2606984
1,2-Dichloroethane	U		0.0190	0.100	1	09/25/2025 00:34	WG2606984
1,1-Dichloroethene	U	J4	0.0200	0.100	1	09/25/2025 00:34	WG2606984
cis-1,2-Dichloroethene	U		0.0276	0.100	1	09/25/2025 00:34	WG2606984
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/25/2025 00:34	WG2606984
Ethylbenzene	U		0.0212	0.100	1	09/25/2025 00:34	WG2606984
Tetrachloroethene	U		0.0280	0.100	1	09/25/2025 00:34	WG2606984
Toluene	U		0.0500	0.200	1	09/25/2025 00:34	WG2606984
Trichloroethene	U		0.0160	0.0400	1	09/25/2025 00:34	WG2606984
Vinyl chloride	U		0.0273	0.100	1	09/25/2025 00:34	WG2606984
Xylenes, Total	U		0.191	0.260	1	09/25/2025 00:34	WG2606984
(S) Toluene-d8	*95.8*			*75.0-131*		*09/25/2025 00:34*	WG2606984
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*09/25/2025 00:34*	WG2606984
(S) 1,2-Dichloroethane-d4	*119*			*70.0-130*		*09/25/2025 00:34*	WG2606984

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)	U		60.5	200	1	10/06/2025 18:56	WG2607051
Residual Range Organics (RRO)	136	J	77.2	250	1	10/06/2025 18:56	WG2607051
DRO/RRO (Total)	136	J	60.5	200	1	10/06/2025 18:56	WG2607051
(S) o-Terphenyl	*88.9*			*52.0-156*		*10/06/2025 18:56*	WG2607051

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	09/24/2025 23:29	WG2606984
1,2-Dichloroethane	U		0.0190	0.100	1	09/24/2025 23:29	WG2606984
1,1-Dichloroethene	U	J4	0.0200	0.100	1	09/24/2025 23:29	WG2606984
cis-1,2-Dichloroethene	U		0.0276	0.100	1	09/24/2025 23:29	WG2606984
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/24/2025 23:29	WG2606984
Ethylbenzene	U		0.0212	0.100	1	09/24/2025 23:29	WG2606984
Tetrachloroethene	U		0.0280	0.100	1	09/24/2025 23:29	WG2606984
Toluene	U		0.0500	0.200	1	09/24/2025 23:29	WG2606984
Trichloroethene	U		0.0160	0.0400	1	09/24/2025 23:29	WG2606984
Vinyl chloride	U		0.0273	0.100	1	09/24/2025 23:29	WG2606984
Xylenes, Total	U		0.191	0.260	1	09/24/2025 23:29	WG2606984
(S) Toluene-d8	*98.1*			*75.0-131*		*09/24/2025 23:29*	WG2606984
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*09/24/2025 23:29*	WG2606984
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*		*09/24/2025 23:29*	WG2606984

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	09/24/2025 23:51	WG2606984
1,2-Dichloroethane	U		0.0190	0.100	1	09/24/2025 23:51	WG2606984
1,1-Dichloroethene	U	J4	0.0200	0.100	1	09/24/2025 23:51	WG2606984
cis-1,2-Dichloroethene	U		0.0276	0.100	1	09/24/2025 23:51	WG2606984
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/24/2025 23:51	WG2606984
Ethylbenzene	U		0.0212	0.100	1	09/24/2025 23:51	WG2606984
Tetrachloroethene	U		0.0280	0.100	1	09/24/2025 23:51	WG2606984
Toluene	U		0.0500	0.200	1	09/24/2025 23:51	WG2606984
Trichloroethene	U		0.0160	0.0400	1	09/24/2025 23:51	WG2606984
Vinyl chloride	U		0.0273	0.100	1	09/24/2025 23:51	WG2606984
Xylenes, Total	U		0.191	0.260	1	09/24/2025 23:51	WG2606984
(S) Toluene-d8	*98.9*			*75.0-131*		*09/24/2025 23:51*	WG2606984
(S) 4-Bromofluorobenzene	*112*			*67.0-138*		*09/24/2025 23:51*	WG2606984
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*09/24/2025 23:51*	WG2606984

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	09/25/2025 00:12	WG2606984
1,2-Dichloroethane	U		0.0190	0.100	1	09/25/2025 00:12	WG2606984
1,1-Dichloroethene	U	J4	0.0200	0.100	1	09/25/2025 00:12	WG2606984
cis-1,2-Dichloroethene	U		0.0276	0.100	1	09/25/2025 00:12	WG2606984
trans-1,2-Dichloroethene	U		0.0572	0.200	1	09/25/2025 00:12	WG2606984
Ethylbenzene	U		0.0212	0.100	1	09/25/2025 00:12	WG2606984
Tetrachloroethene	U		0.0280	0.100	1	09/25/2025 00:12	WG2606984
Toluene	U		0.0500	0.200	1	09/25/2025 00:12	WG2606984
Trichloroethene	U		0.0160	0.0400	1	09/25/2025 00:12	WG2606984
Vinyl chloride	U		0.0273	0.100	1	09/25/2025 00:12	WG2606984
Xylenes, Total	U		0.191	0.260	1	09/25/2025 00:12	WG2606984
(S) Toluene-d8	*98.6*			*75.0-131*		*09/25/2025 00:12*	WG2606984
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*09/25/2025 00:12*	WG2606984
(S) 1,2-Dichloroethane-d4	*117*			*70.0-130*		*09/25/2025 00:12*	WG2606984

Method Blank (MB)

(MB) R4279047-9 09/26/25 14:59

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Nitrate-Nitrite	U		43.5	200

Laboratory Control Sample (LCS)

(LCS) R4279047-10 09/26/25 15:01

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2500	2540	102	90.0-110	

L1899963-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1899963-02 09/26/25 15:08 • (MS) R4279047-11 09/26/25 15:10 • (MSD) R4279047-12 09/26/25 15:12

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 %
Nitrate-Nitrite	2500	U	2430	2420	97.1	96.6	1	90.0-110			0.496	20

L1900310-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1900310-04 09/26/25 16:04 • (MS) R4279047-13 09/26/25 16:06 • (MSD) R4279047-14 09/26/25 16:08

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 %
Nitrate-Nitrite	2500	U	2500	2410	99.8	96.3	1	90.0-110			3.59	20

Method Blank (MB)

(MB) R4279337-1 09/27/25 16:18

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Nitrate-Nitrite	U		43.5	200

Laboratory Control Sample (LCS)

(LCS) R4279337-2 09/27/25 16:21

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Nitrate-Nitrite	2500	2420	96.8	90.0-110	

L1900310-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1900310-05 09/27/25 16:25 • (MS) R4279337-3 09/27/25 16:28 • (MSD) R4279337-4 09/27/25 16:30

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	%	%		%			%	%
Nitrate-Nitrite	2500	U	2460	2430	98.2	97.0	1	90.0-110			1.27	20

L1900949-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1900949-01 09/27/25 17:07 • (MS) R4279337-5 09/27/25 17:10 • (MSD) R4279337-6 09/27/25 17:12

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	%	%		%			%	%
Nitrate-Nitrite	2500	U	2360	2430	94.6	97.2	1	90.0-110			2.79	20

Method Blank (MB)

(MB) R4277740-1 09/23/25 21:42

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Chloride	611	J	547	1000
Sulfate	U		637	5000

L1900176-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1900176-01 09/24/25 00:14 • (DUP) R4277740-3 09/24/25 00:24

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	20200	20000	1	0.601		15
Sulfate	76000	75700	1	0.410		15

L1900310-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1900310-04 09/24/25 01:29 • (DUP) R4277740-5 09/24/25 01:40

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	9970	10200	1	2.23		15

L1900310-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1900310-04 09/25/25 02:31 • (DUP) R4278258-4 09/25/25 02:44

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	111000	112000	5	0.946		15

Laboratory Control Sample (LCS)

(LCS) R4277740-2 09/23/25 21:53

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40000	38300	95.6	80.0-120	
Sulfate	40000	37400	93.6	80.0-120	

L1900176-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1900176-01 09/24/25 00:14 • (MS) R4277740-4 09/24/25 00:35

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40000	20200	57100	92.4	1	80.0-120	
Sulfate	40000	76000	102000	65.5	1	80.0-120	E J6

L1900310-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1900310-04 09/24/25 01:29 • (MS) R4277740-6 09/24/25 01:51 • (MSD) R4277740-7 09/24/25 02:23

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	9970	48100	48300	95.4	96.0	1	80.0-120			0.423	15
Sulfate	40000	106000	126000	122000	49.2	41.0	1	80.0-120	E J6	E J6	2.65	15

L1900310-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1900310-04 09/25/25 01:40 • (MS) R4278258-2 09/25/25 02:05 • (MSD) R4278258-3 09/25/25 02:18

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 %
Sulfate	40000	104000	125000	123000	51.6	47.1	1	80.0-120	E J6	E J6	1.45	15

QUALITY CONTROL SUMMARY

L1900310-02,03,04,05,06,09

Method Blank (MB)

(MB) R4280791-2 09/30/25 12:20

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
TOC (Total Organic Carbon)	U		495	1000

L1900290-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1900290-05 09/30/25 12:45 • (DUP) R4280791-3 09/30/25 13:08

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	12300	12400	1	0.162		20

L1900310-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1900310-06 09/30/25 20:03 • (DUP) R4280791-8 09/30/25 20:24

Analyte	Original Result ug/l	DUP Result ug/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	4370	4340	1	0.735		20

Laboratory Control Sample (LCS)

(LCS) R4280791-1 09/30/25 12:02

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	25000	24200	96.6	80.0-120	

L1900359-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1900359-15 09/30/25 16:05 • (MS) R4280791-4 09/30/25 16:28 • (MSD) R4280791-5 09/30/25 16:51

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 %
TOC (Total Organic Carbon)	25000	1010	25300	25000	97.2	96.0	1	75.0-125			1.19	20

L1900310-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1900310-04 09/30/25 18:36 • (MS) R4280791-6 09/30/25 18:59 • (MSD) R4280791-7 09/30/25 19:21

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 %
TOC (Total Organic Carbon)	25000	3430	27600	27700	96.8	97.1	1	75.0-125			0.325	20

Method Blank (MB)

(MB) R4286771-1 10/14/25 10:45

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iron	U		22.6	100
Manganese	U		0.700	5.00

Laboratory Control Sample (LCS)

(LCS) R4286771-2 10/14/25 10:48

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iron	1000	1020	102	80.0-120	
Manganese	50.0	51.0	102	80.0-120	

L1900310-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1900310-04 10/14/25 10:52 • (MS) R4286771-4 10/14/25 10:58 • (MSD) R4286771-5 10/14/25 11:01

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	1000	2540	3520	3510	97.6	96.6	1	75.0-125			0.277	20
Manganese	50.0	1140	1170	1170	55.9	52.9	1	75.0-125	V	V	0.126	20

Method Blank (MB)

(MB) R4288164-1 10/16/25 15:11

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Iron,Dissolved	U		22.6	100
Manganese,Dissolved	U		0.700	5.00

Laboratory Control Sample (LCS)

(LCS) R4288164-2 10/16/25 15:15

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Iron,Dissolved	1000	1050	105	80.0-120	
Manganese,Dissolved	50.0	51.5	103	80.0-120	

L1900310-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1900310-04 10/16/25 15:18 • (MS) R4288164-4 10/16/25 15:24 • (MSD) R4288164-5 10/16/25 15:27

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	%	%		%			%	%
Iron,Dissolved	1000	U	1040	1030	104	103	1	75.0-125			0.638	20
Manganese,Dissolved	50.0	1110	1150	1150	85.8	88.7	1	75.0-125			0.128	20

L1900409-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1900409-04 10/16/25 15:30 • (MS) R4288164-6 10/16/25 15:33 • (MSD) R4288164-7 10/16/25 15:36

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	%	%		%			%	%
Iron,Dissolved	1000	157	1180	1170	102	101	1	75.0-125			0.721	20
Manganese,Dissolved	50.0	164	211	210	94.6	93.1	1	75.0-125			0.355	20

Method Blank (MB)

(MB) R4278510-4 09/22/25 10:38

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		78.6	100
(S) a,a,a-Trifluorotoluene(FID)	*98.6*			*78.0-120*

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

(LCS) R4278510-2 09/22/25 09:32 • (LCSD) R4278510-3 09/22/25 09:54

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	5000	4950	4990	99.0	99.8	70.0-124			0.805	20
(S) a,a,a-Trifluorotoluene(FID)				*105*	*105*	*78.0-120*				

L1900310-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1900310-04 09/22/25 17:34 • (MS) R4278510-5 09/22/25 21:32 • (MSD) R4278510-6 09/22/25 21:54

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 %
Gasoline Range Organics-NWTPH	5000	U	6290	6030	126	121	1	10.0-155			4.22	21
(S) a,a,a-Trifluorotoluene(FID)					*103*	*102*		*78.0-120*				

Method Blank (MB)

(MB) R4278503-4 09/22/25 12:52

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,2-Dichloroethane	U		0.395	1.00
1,1-Dichloroethene	U		0.422	1.00
cis-1,2-Dichloroethene	U		0.323	1.00
trans-1,2-Dichloroethene	U		0.348	1.00
Tetrachloroethene	U		0.358	1.00
Trichloroethene	U		0.383	1.00
Vinyl chloride	U		0.458	1.00
(S) Toluene-d8	*106*			*80.0-120*
(S) 4-Bromofluorobenzene	*94.6*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*

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

(LCS) R4278503-1 09/22/25 10:32 • (LCSD) R4278503-2 09/22/25 10:55

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 %
1,2-Dichloroethane	10.0	9.79	10.9	97.9	109	70.0-128			10.7	20
1,1-Dichloroethene	10.0	8.90	9.94	89.0	99.4	71.0-124			11.0	20
cis-1,2-Dichloroethene	10.0	8.88	9.81	88.8	98.1	73.0-120			9.95	20
trans-1,2-Dichloroethene	10.0	9.01	10.1	90.1	101	73.0-120			11.4	20
Tetrachloroethene	10.0	9.60	10.9	96.0	109	72.0-132			12.7	20
Trichloroethene	10.0	9.21	9.89	92.1	98.9	78.0-124			7.12	20
Vinyl chloride	10.0	12.1	13.8	121	138	67.0-131		J4	13.1	20
(S) Toluene-d8				*104*	*105*	*80.0-120*				
(S) 4-Bromofluorobenzene				*99.5*	*103*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*104*	*105*	*70.0-130*				

Method Blank (MB)

(MB) R4277562-4 09/22/25 13:04

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.320	1.00
trans-1,4-Dichloro-2-butene	U		1.86	2.50
1,2-Dichloroethane	U		0.395	1.00
1,1-Dichloroethene	U		0.422	1.00
cis-1,2-Dichloroethene	U		0.323	1.00
trans-1,2-Dichloroethene	U		0.348	1.00
Ethylbenzene	U		0.234	1.00
Tetrachloroethene	U		0.358	1.00
Toluene	U		0.274	1.00
Trichloroethene	U		0.383	1.00
Vinyl chloride	U		0.458	1.00
Xylenes, Total	U		0.319	3.00
(S) Toluene-d8	*99.6*			*80.0-120*
(S) 4-Bromofluorobenzene	*103*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*87.2*			*70.0-130*

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

(LCS) R4277562-1 09/22/25 11:15 • (LCSD) R4277562-2 09/22/25 11:36

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	10.0	9.88	9.83	98.8	98.3	70.0-123			0.507	20
trans-1,4-Dichloro-2-butene	10.0	6.92	6.88	69.2	68.8	33.0-144			0.580	20
1,2-Dichloroethane	10.0	9.71	9.54	97.1	95.4	70.0-128			1.77	20
1,1-Dichloroethene	10.0	10.4	10.2	104	102	71.0-124			1.94	20
cis-1,2-Dichloroethene	10.0	10.5	10.7	105	107	73.0-120			1.89	20
trans-1,2-Dichloroethene	10.0	10.9	10.9	109	109	73.0-120			0.000	20
Ethylbenzene	10.0	10.0	10.0	100	100	79.0-123			0.000	20
Tetrachloroethene	10.0	10.9	11.0	109	110	72.0-132			0.913	20
Toluene	10.0	9.72	9.78	97.2	97.8	79.0-120			0.615	20
Trichloroethene	10.0	10.6	10.4	106	104	78.0-124			1.90	20
Vinyl chloride	10.0	9.15	8.92	91.5	89.2	67.0-131			2.55	20
Xylenes, Total	30.0	30.9	30.9	103	103	79.0-123			0.000	20
(S) Toluene-d8				*96.9*	*99.8*	*80.0-120*				
(S) 4-Bromofluorobenzene				*104*	*104*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*95.5*	*93.8*	*70.0-130*				

L1899502-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1899502-01 09/22/25 16:05 • (MS) R4277562-5 09/22/25 22:14 • (MSD) R4277562-6 09/22/25 22:35

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	10.0	U	8.26	9.46	82.6	94.6	1	17.0-158			13.5	27
trans-1,4-Dichloro-2-butene	10.0	U	6.97	7.55	69.7	75.5	1	10.0-157			7.99	37
1,2-Dichloroethane	10.0	U	8.27	8.80	82.7	88.0	1	29.0-151			6.21	27
1,1-Dichloroethene	10.0	U	8.61	10.6	86.1	106	1	11.0-160			20.7	29
cis-1,2-Dichloroethene	10.0	U	9.33	10.5	93.3	105	1	10.0-160			11.8	27
trans-1,2-Dichloroethene	10.0	U	9.06	10.8	90.6	108	1	17.0-153			17.5	27
Ethylbenzene	10.0	U	8.37	9.91	83.7	99.1	1	30.0-155			16.8	27
Tetrachloroethene	10.0	1.51	10.3	12.0	87.9	105	1	10.0-160			15.2	27
Toluene	10.0	U	8.09	9.42	80.9	94.2	1	26.0-154			15.2	28
Trichloroethene	10.0	U	8.58	9.91	85.8	99.1	1	10.0-160			14.4	25
Vinyl chloride	10.0	U	7.39	8.74	73.9	87.4	1	10.0-160			16.7	27
Xylenes, Total	30.0	U	26.4	30.0	88.0	100	1	29.0-154			12.8	28
(S) Toluene-d8					*97.9*	*98.1*		*80.0-120*				
(S) 4-Bromofluorobenzene					*104*	*105*		*77.0-126*				
(S) 1,2-Dichloroethane-d4					*92.8*	*91.6*		*70.0-130*				

Method Blank (MB)

(MB) R4279305-4 09/26/25 11:03

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,2-Dichloroethane	U		0.395	1.00
1,1-Dichloroethene	U		0.422	1.00
cis-1,2-Dichloroethene	U		0.323	1.00
trans-1,2-Dichloroethene	U		0.348	1.00
Tetrachloroethene	U		0.358	1.00
Trichloroethene	U		0.383	1.00
Vinyl chloride	U		0.458	1.00
(S) Toluene-d8	*105*			*80.0-120*
(S) 4-Bromofluorobenzene	*97.8*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*94.4*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4279305-1 09/26/25 09:18

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2-Dichloroethane	10.0	9.73	97.3	70.0-128	
1,1-Dichloroethene	10.0	8.78	87.8	71.0-124	
cis-1,2-Dichloroethene	10.0	9.32	93.2	73.0-120	
trans-1,2-Dichloroethene	10.0	9.40	94.0	73.0-120	
Tetrachloroethene	10.0	9.92	99.2	72.0-132	
Trichloroethene	10.0	9.02	90.2	78.0-124	
Vinyl chloride	10.0	6.66	66.6	67.0-131	J4
(S) Toluene-d8			*103*	*80.0-120*	
(S) 4-Bromofluorobenzene			*98.0*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*103*	*70.0-130*	

L1900310-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1900310-04 09/26/25 13:51 • (MS) R4279305-5 09/26/25 19:11 • (MSD) R4279305-6 09/26/25 19:31

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 %
1,2-Dichloroethane	10.0	U	8.71	8.99	87.1	89.9	1	29.0-151			3.16	27
1,1-Dichloroethene	10.0	U	7.07	7.54	70.7	75.4	1	11.0-160			6.43	29
cis-1,2-Dichloroethene	10.0	12.1	16.6	16.9	45.0	48.0	1	10.0-160			1.79	27
trans-1,2-Dichloroethene	10.0	4.90	11.1	11.2	62.0	63.0	1	17.0-153			0.897	27
Tetrachloroethene	10.0	U	8.33	8.42	83.3	84.2	1	10.0-160			1.07	27
Trichloroethene	10.0	30.8	28.3	29.5	0.000	0.000	1	10.0-160	J6	J6	4.15	25
Vinyl chloride	10.0	1.09	5.62	5.78	45.3	46.9	1	10.0-160			2.81	27

L1900310-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1900310-04 09/26/25 13:51 • (MS) R4279305-5 09/26/25 19:11 • (MSD) R4279305-6 09/26/25 19:31

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 %
(S) Toluene-d8					*106*	*107*		*80.0-120*				
(S) 4-Bromofluorobenzene					*100*	*104*		*77.0-126*				
(S) 1,2-Dichloroethane-d4					*97.9*	*96.4*		*70.0-130*				

Method Blank (MB)

(MB) R4278309-3 09/24/25 22:13

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	*98.2*			*75.0-131*
(S) 4-Bromofluorobenzene	*104*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*

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

(LCS) R4278309-1 09/24/25 20:24 • (LCSD) R4278309-2 09/24/25 20:46

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	10.0	8.12	8.63	81.2	86.3	70.0-123			6.09	20
1,2-Dichloroethane	10.0	9.82	10.5	98.2	105	65.0-131			6.69	20
1,1-Dichloroethene	10.0	12.2	13.4	122	134	65.0-131		J4	9.37	20
cis-1,2-Dichloroethene	10.0	8.28	8.25	82.8	82.5	73.0-125			0.363	20
trans-1,2-Dichloroethene	10.0	9.64	10.4	96.4	104	71.0-125			7.58	20
Ethylbenzene	10.0	8.72	9.10	87.2	91.0	74.0-126			4.26	20
Tetrachloroethene	10.0	8.60	8.64	86.0	86.4	70.0-136			0.464	20
Toluene	10.0	8.14	8.36	81.4	83.6	75.0-121			2.67	20
Trichloroethene	10.0	8.93	9.62	89.3	96.2	76.0-126			7.44	20
Vinyl chloride	10.0	11.1	11.9	111	119	63.0-134			6.96	20
Xylenes, Total	30.0	27.1	27.6	90.3	92.0	72.0-127			1.83	20
(S) Toluene-d8				*91.9*	*90.8*	*75.0-131*				
(S) 4-Bromofluorobenzene				*107*	*106*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*109*	*113*	*70.0-130*				

Method Blank (MB)

(MB) R4279308-5 09/26/25 22:10

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,2-Dichloroethane	U		0.395	1.00
1,1-Dichloroethene	U		0.422	1.00
cis-1,2-Dichloroethene	U		0.323	1.00
trans-1,2-Dichloroethene	U		0.348	1.00
Tetrachloroethene	U		0.358	1.00
Trichloroethene	U		0.383	1.00
Vinyl chloride	U		0.458	1.00
(S) Toluene-d8	*104*			*80.0-120*
(S) 4-Bromofluorobenzene	*99.1*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*90.9*			*70.0-130*

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

(LCS) R4279308-1 09/26/25 20:10 • (LCSD) R4279308-2 09/26/25 20:30

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 %
1,2-Dichloroethane	10.0	9.72	10.3	97.2	103	70.0-128			5.79	20
1,1-Dichloroethene	10.0	9.91	10.8	99.1	108	71.0-124			8.59	20
cis-1,2-Dichloroethene	10.0	10.6	11.0	106	110	73.0-120			3.70	20
trans-1,2-Dichloroethene	10.0	10.4	10.9	104	109	73.0-120			4.69	20
Tetrachloroethene	10.0	10.7	11.0	107	110	72.0-132			2.76	20
Trichloroethene	10.0	10.3	10.7	103	107	78.0-124			3.81	20
Vinyl chloride	10.0	7.47	7.79	74.7	77.9	67.0-131			4.19	20
(S) Toluene-d8				*104*	*99.4*	*80.0-120*				
(S) 4-Bromofluorobenzene				*101*	*96.1*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*99.6*	*96.8*	*70.0-130*				

Method Blank (MB)

(MB) R4279902-3 09/27/25 09:37

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
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
Tetrachloroethene	U		0.0280	0.100
Trichloroethene	U		0.0160	0.0400
Vinyl chloride	U		0.0273	0.100
(S) Toluene-d8	*93.1*			*75.0-131*
(S) 4-Bromofluorobenzene	*96.6*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*

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

(LCS) R4279902-1 09/27/25 05:41 • (LCSD) R4279902-2 09/27/25 08:58

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 %
1,2-Dichloroethane	10.0	11.9	11.2	119	112	65.0-131			6.06	20
1,1-Dichloroethene	10.0	10.6	10.5	106	105	65.0-131			0.948	20
cis-1,2-Dichloroethene	10.0	10.2	9.82	102	98.2	73.0-125			3.80	20
trans-1,2-Dichloroethene	10.0	11.0	10.8	110	108	71.0-125			1.83	20
Tetrachloroethene	10.0	9.73	9.64	97.3	96.4	70.0-136			0.929	20
Trichloroethene	10.0	9.61	9.13	96.1	91.3	76.0-126			5.12	20
Vinyl chloride	10.0	10.5	10.2	105	102	63.0-134			2.90	20
(S) Toluene-d8				*92.9*	*93.3*	*75.0-131*				
(S) 4-Bromofluorobenzene				*97.1*	*94.6*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*115*	*115*	*70.0-130*				

Method Blank (MB)

(MB) R4281351-1 10/01/25 19:25

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Diesel Range Organics (DRO)	U		60.5	200
Residual Range Organics (RRO)	U		77.2	250
DRO/RRO (Total)	U		60.5	200
(S) o-Terphenyl	*93.5*			*52.0-156*

Laboratory Control Sample (LCS)

(LCS) R4281351-2 10/01/25 19:50

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Diesel Range Organics (DRO)	1500	1700	113	50.0-150	
(S) o-Terphenyl			*108*	*52.0-156*	

L1900310-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1900310-04 10/04/25 11:49 • (MS) R4282732-1 10/04/25 12:14 • (MSD) R4282732-2 10/04/25 12:38

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	%	%		%			%	%
Diesel Range Organics (DRO)	1430	714	2470	2380	123	117	1	50.0-150			3.71	20
(S) o-Terphenyl					*115*	*107*		*52.0-156*				

Method Blank (MB)

(MB) R4283294-1 10/06/25 00:52

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		60.5	200
Residual Range Organics (RRO)	U		77.2	250
DRO/RRO (Total)	U		60.5	200
(S) o-Terphenyl	*78.5*			*52.0-156*

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

(LCS) R4283294-2 10/06/25 01:16 • (LCSD) R4283294-3 10/06/25 01:40

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	1640	1610	109	107	50.0-150			1.85	20
(S) o-Terphenyl				*109*	*98.5*	*52.0-156*				

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.
U (Radiochemistry)	Result + Error < MDA.
J (Radiochemistry)	Result < MDA; Result + Error > MDA.
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
B	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J4	The associated batch QC was outside the established quality control range for accuracy.

GLOSSARY OF TERMS

Qualifier	Description
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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	LAO000356
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:	Billing Information:	Pres Chk
ARCADIS - BNSF Region 2 1420 5th Avenue, Suite 2400 Seattle, WA 98101	Arcadis, US. Inc. 630 Plaza Drive Suite 200 Highlands Ranch, CO 80129	

Report to: Kyle Haslam 206-726-4753

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

Project Description: BNSF Time Oil

City/State Collected: Seattle WA

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #: 30270277.01

Lab Project #: BNSF2ARCA-TIMEOIL

Collected by (print): Michelle Nguyen

Site/Facility ID #: BNSF TIME OIL

P.O. #:

Collected by (signature): [signature]

Quote #:

Immediately Packed on Ice N ✓ Y ___

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

Date Results Needed

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/hubfs/pas-standard-terms.pdf

SDG # L1900310

A100

Acctnum: BNSF2ARCA
Template: T240430
Prelogin: P1177649
PM: 4089 - Andi R Jones
PB: 9/12/25 BK
Shipped Via: FedEX Priority

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	8270PCP 100ml Amb NoPres	CHLORIDE,SULFATE 125mlHDPE-NoPres	CVOCs 40mlAmb-HCl	Diss Metals-FE,MN 250mlHDPE-NoPres	NO2NO3 250mlHDPE-H2SO4	NWTPHDXLVINOSGT 40mlAmb-HCl-BT	NWTPHGX 40mlAmb HCl	TOC 250mlAmb-HCl	Total Metals-FE,MN 250mlHDPE-HNO3	BTEX	Remarks	Sample # (lab only)
MW-BN-02 (091725)	G	GW	—	9/17/25	1500	~~8~~ 9			X			X	X					-01
MW-BN-03 (091725)	G	GW	—	9/17/25	1320	8		X	X	X	X			X	X	X		-02
MW-BN-06 (091725)	G	GW	—	9/17/25	1315	~~17~~ 19		X	X	X	X	X	X	X	X			-03
MW-BN-07 (091825)	G	GW	—	9/18/25	1315	35		X	X	X	X	X	X	X	X		MS/MSD	-04
01 MW93 (091725)	G	GW	—	9/17/25	1445	13		X	X	X	X	X	X	X	X			-05
01 MW94 (091725)	G	GW	—	9/17/25	1050	~~18~~ 13		X	X	X	X	X	X	X	X			-06
01 MW95 (091725)	G	GW	—	9/17/25	1155	8			X			~~X~~	~~X~~					-07
01 MW97 (091725)	G	GW	—	9/17/25	1550	8			X			X	X					-08
01 MW98 (091725)	G	GW	—	9/17/25	1500	~~18~~ 19		X	X	X	X	X	X	X	X			-09
~~[illegible]~~ MW-DUP-01 (091825)	G	GW	—	9/18/25	—	11		D 9.19.2025	X			X	X					-10

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

Remarks: V8260: Special list-verify sample lists
*Samples may be analyzed for V8260ULL pending results

pH ______ Temp ______
Flow ______ Other ______

Samples returned via:
__ UPS X 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:	Time:	Received by: (Signature)	Trip Blank Received: (Yes) / No (HCL) / MeoH TBR 12	
[signature]	9/19/25	1100			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 159	If preservation required by Login: Date/Time PH – 10BDH07251 TRC – 5090A93
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) DeyenG	Date: 9.20.25 Time: 0930	Hold:

Condition: (NCF) / OK

Company Name/Address:
ARCADIS - BNSF Region 2

1420 5th Avenue, Suite 2400
Seattle, WA 98101

Billing Information:
Arcadis, US. Inc.
630 Plaza Drive
Suite 200
Highlands Ranch, CO 80129

Pres Chk

Report to:
Kyle Haslam 206-726-4753

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

Project Description:
BNSF Time Oil

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

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
30270277.01

Lab Project #
BNSF2ARCA-TIMEOIL

Collected by (print):
Michelle Nguyen

Site/Facility ID #
BNSF TIME OIL

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

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

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	8270PCP 100ml Amb NoPres	CHLORIDE,SULFATE 125mlHDPE-NoPres	CVOCs 40mlAmb-HCl	Diss Metals-FE,MN 250mlHDPE-NoPres	NO2NO3 250mlHDPE-H2SO4	NWTPHDXLVINOSGT 40mlAmb-HCl-BT	NWTPHGX 40mlAmb HCl	TOC 250mlAmb-HCl	Total Metals-FE,MN 250mlHDPE-HNO3	BTEX	Remarks	Sample # (lab only)
EB-01 (091725)	G	GW	—	9/17/25	1545	VOA 3			X			X	X			X		-11
DW-01 (091825)	G	GW	—	9/18/25	1455	G 2			X			X	X			X		-12
TB-01 (091925)	G	GW	—	9/19/25	—	VOA 4			X							X		-13
TB-02 (091925)	G	GW	—	9/19/25	—	VOA 4			X							X		-14
TB-03 (091925)	G	GW	—	9/19/25	—	VOA 4	DH 9.20.25		X							X		-15
~~EB-02 (091825)~~	~~G~~	GW	—	9/18/25	—	3			X							X		
		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-verify sample lists
***Samples may be analyzed for V8260ULL pending results**

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx X Courier _____

Tracking #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	9/19/25	1100	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Dewan G

Trip Blank Received: (Yes) / No
12
(HCL) / MeoH
TBR

Temp: °C Bottles Received: 159

Date: 9.20.25 Time: 0930

If preservation required by Login: Date/Time

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

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 # L1900310

Table #

Acctnum: **BNSF2ARCA**
Template:**T240430**
Prelogin: **P1177649**
PM: **4089 - Andi R Jones**
PB: 9/12/25 BK
Shipped Via: **FedEx Priority**

Multiple Parcel Form

L# L1900310

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
4668 1553 7982	TLA9	2.9	-0.1	2.8	(Yes) / No / Not Present
4668 1553 7993	TLA9	2.2	-0.1	2.1	(Yes) / No / Not Present
4668 1553 8030	TLA9	4.5	-0.1	4.4	(Yes) / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present
					Yes / No / Not Present

Dewyatt
Name

9.20.25
Date

Outlook

RE: Time Oil GWM Samples L1900310

From Zikmund, Emily <Emily.Zikmund@arcadis.com>
Date Mon 9/22/25 12:46 PM
To Andi Jones <andi.jones@pacelabs.com>
Cc Nguyen, Michelle <Michelle.Nguyen@arcadis.com>; Haslam, Kyle <Kyle.Haslam@arcadis.com>

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.
Hi Andi,

Thanks for this information. Thanks for confirming the hold time on the nitrate. Glad we moved to the other analysis to help with that.

1. Can we have the waste sample on a separate SDG? Please run this with regular CVOC analysis.
2. Please run the duplicate with regular CVOC analysis.

Let me know if you have any other questions.

Thanks,
Emily

Emily Zikmund (she/her)
Project Civil Engineer
Arcadis U.S., Inc.
1420 5th Avenue, Suite 2400| Seattle, WA | 98101 | USA
T. +1 206 413 6534
M. +1 707 260 5171

From: Andi Jones <andi.jones@pacelabs.com>
Sent: Monday, September 22, 2025 8:32 AM
To: Zikmund, Emily <Emily.Zikmund@arcadis.com>
Cc: Nguyen, Michelle <Michelle.Nguyen@arcadis.com>; Haslam, Kyle <Kyle.Haslam@arcadis.com>
Subject: Re: Time Oil GWM Samples L1900310

Hi Emily,

We did receive your samples, and login noted the following:

1 vial received with headspace for IDs: TB-01 and TB-02
3 vials received with headspace for ID: TB-03

I will make the adjustments on the samples needing the ULL VOCs as noted. I did not see the DUP or IDW samples listed below. Can you please confirm if you need ULL VOCs on those two samples.

For the Nitrates, I provided the preserved container as last time for the NO2NO3 353.2 method giving a 28 day holding time versus the 48 hours. COCL1900310.pdf

Thanks,
Andi

Committed to You…
Andi Jones
Project Manager 2, Pace National
Pace® Analytical Services
12065 Lebanon Road | Mt. Juliet, TN 37122
615.583.2006 | pacelabs.com

From: Zikmund, Emily <Emily.Zikmund@arcadis.com>
Sent: Saturday, September 20, 2025 8:16 AM
To: Andi Jones <andi.jones@pacelabs.com>
Cc: Nguyen, Michelle <Michelle.Nguyen@arcadis.com>; Haslam, Kyle <Kyle.Haslam@arcadis.com>
Subject: Time Oil GWM Samples

Hi Andi,

We sent the Time Oil GWM samples yesterday for delivery today. Please let us know if the bottles were received and in good condition.

Below please note there are COCs included with the samples, but I have clarified below which wells need to be analyzed using CVOCs ULL. We understand that there maybe some nitrite samples out of hold time. Please continue to analyze those. Please let me know if you have any questions.

Sample ID	Matrix	CVOCs	CVOCs ULL	BTEX	NWPTH-Dx NWPTH-GX	PCP	TOC	Chloride/ Sulfate	Nitrate	Total Metals	Dissolved Metals
01MW93(09172025)	GW	X			X		X	X	X	X	X
01MW94(09172025)	GW		X		X		X	X	X	X	X
01MW95(03052025)	GW		X								
01MW97(09172025)	GW		X		X						
01MW98(09172025)	GW	X			X		X	X	X	X	X
MW-BN-02(09172025)	GW		X		X						
MW-BN-03(09172025)	GW	X		X			X	X	X	X	X
MW-BN-06(09172025)	GW		X		X		X	X	X	X	X
MW-BN-07(09182025)	GW	X			X		X	X	X	X	X
EB-01(091725)	GW		X	X	X						
TB-01(09182025)	GW		X	X							
TB-02(09182025)	GW		X	X							
TB-03(09182025)	GW		X	X							

Thanks,
Emily

Emily Zikmund (she/her)
Project Civil Engineer
Arcadis U.S., Inc.
1420 5th Avenue, Suite 2400| Seattle, WA | 98101 | USA
T. +1 206 413 6534
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9/20 L1900310 BNSF2ARCA

R5

Time estimate: oh **Time spent:** oh

Members

Hailey Robertson (responsible) AJ Andi Jones TD Troy Dunlap

Due on *24 September 2025 8:00 AM* for target *Done*

- [ ] Parameter(s) past holding time
- [ ] Temperature not in range
- [ ] Improper container type
- [ ] pH not in range
- [ ] Insufficient sample volume
- [ ] Sample is biphasic
- [x] Vials received with headspace
- [ ] Broken container
- [ ] Sufficient sample remains
- [ ] If broken container: Insufficient packing material around container
- [ ] If broken container: Insufficient packing material inside cooler
- [ ] If broken container: Improper handling by carrier:_____
- [ ] If broken container: Sample was frozen
- [ ] If broken container: Container lid not intact
- [ ] Client informed by Call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [ ] Date/Time:_____
- [ ] PM initials:_____
- [ ] Client Contact:_____

Comments

Hailey Robertson *20 September 2025 2:36 PM*

1 vial received with headspace for IDs: TB-01 and TB-02
3 vials received with headspace for ID: TB-03

1900310

Andi Jones *22 September 2025 10:06 AM*

Will notify client of broken vials.

Also please make the following changes per client's request.

-01: Change V8260 to V8260ULL
-02: remove V8260BTEX, keep V8260
-03: Change V8260 to V8260ULL
-07: Change V8260 to V8260ULL
-08: Change V8260 to V8260ULL
-11: Change V8260 to V8260ULL, remove V8260BTEX
-13, -14, -15: Change V8260 to V8260ULL

Troy Dunlap *22 September 2025 10:28 AM*

Done.