

Oregon Dept. of Env. Quality - ODEQ

Sample Delivery Group: L1701988
Samples Received: 02/03/2024
Project Number: 2060.012.006
Description: Former City Texaco Station

Report To: Ellen Woods
700 NE Multnomah St. #600
Portland, OR 97124

Entire Report Reviewed By:



Brian Ford
Project Manager

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

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

SAMPLE SUMMARY

P1 L1701988-01 GW

Collected by
Collected date/time
Received date/time

01/31/24 12:10 02/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020B	WG2219792	1	02/07/24 09:41	02/07/24 16:57	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2222678	1	02/08/24 17:17	02/08/24 17:17	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2220512	1	02/05/24 22:17	02/05/24 22:17	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2220594	1	02/06/24 07:49	02/07/24 08:42	TGB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2219641	1	02/05/24 14:49	02/05/24 22:42	AGW	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

P2 L1701988-02 GW

Collected by
Collected date/time
Received date/time

01/31/24 14:05 02/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020B	WG2219792	1	02/07/24 09:41	02/07/24 17:00	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2222678	1	02/08/24 17:39	02/08/24 17:39	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2220512	1	02/05/24 22:36	02/05/24 22:36	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2224397	1.04	02/12/24 21:10	02/14/24 05:15	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2219641	1	02/05/24 14:49	02/05/24 23:01	AGW	Mt. Juliet, TN

⁵Sr

⁶Qc

⁷Gl

⁸Al

P3 L1701988-03 GW

Collected by
Collected date/time
Received date/time

01/31/24 15:30 02/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020B	WG2219792	1	02/07/24 09:41	02/07/24 17:03	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2222678	1	02/08/24 18:01	02/08/24 18:01	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2220512	1	02/05/24 22:55	02/05/24 22:55	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2224397	1.04	02/12/24 21:10	02/14/24 12:17	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2219641	2	02/05/24 14:49	02/06/24 01:38	AGW	Mt. Juliet, TN

⁹Sc

P4 L1701988-04 GW

Collected by
Collected date/time
Received date/time

01/31/24 16:45 02/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020B	WG2219792	1	02/07/24 09:41	02/07/24 17:07	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2222678	1	02/08/24 18:22	02/08/24 18:22	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2220512	1	02/05/24 23:14	02/05/24 23:14	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2220594	1	02/06/24 07:49	02/07/24 09:50	TGB	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2219641	1	02/05/24 14:49	02/05/24 23:21	AGW	Mt. Juliet, TN

Collected by
Collected date/time
Received date/time

01/31/24 12:25 02/03/24 09:00

P1-S3 L1701988-08 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2220756	1	02/07/24 08:30	02/07/24 08:37	CMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2221650	25	01/31/24 12:25	02/07/24 21:00	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2223745	1	01/31/24 12:25	02/10/24 06:53	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2221313	1	02/07/24 08:05	02/07/24 15:03	JSS	Mt. Juliet, TN

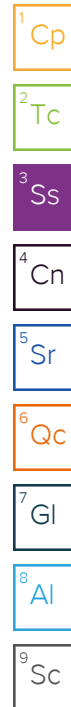
SAMPLE SUMMARY

P1-S4 L1701988-09 Solid

Collected by
Collected date/time
Received date/time

01/31/24 12:30 02/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2220758	1	02/07/24 08:10	02/07/24 08:18	CMB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2220616	5	02/06/24 09:17	02/06/24 19:17	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2221650	25	01/31/24 12:30	02/07/24 21:23	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2223659	1	01/31/24 12:30	02/10/24 00:45	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2221313	1	02/07/24 08:05	02/07/24 15:03	JSS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2220596	1	02/07/24 04:43	02/08/24 03:52	AGW	Mt. Juliet, TN



P2-S1 L1701988-13 Solid

Collected by
Collected date/time
Received date/time

01/31/24 13:35 02/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2220758	1	02/07/24 08:10	02/07/24 08:18	CMB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2220616	5	02/06/24 09:17	02/06/24 19:38	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2221650	25	01/31/24 13:35	02/07/24 21:46	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2221313	5	02/07/24 08:05	02/07/24 16:41	JSS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2220596	1	02/07/24 04:43	02/08/24 06:10	AGW	Mt. Juliet, TN

P2-S3 L1701988-15 Solid

Collected by
Collected date/time
Received date/time

01/31/24 13:45 02/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2220758	1	02/07/24 08:10	02/07/24 08:18	CMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2221650	25	01/31/24 13:45	02/07/24 22:09	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2223659	1	01/31/24 13:45	02/10/24 01:06	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2221313	100	02/07/24 08:05	02/07/24 16:55	JSS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2220596	1	02/07/24 04:43	02/09/24 01:36	AGW	Mt. Juliet, TN

P3-S2 L1701988-19 Solid

Collected by
Collected date/time
Received date/time

01/31/24 15:30 02/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2220758	1	02/07/24 08:10	02/07/24 08:18	CMB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2220616	5	02/06/24 09:17	02/06/24 19:41	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2222586	250	01/31/24 15:30	02/08/24 21:39	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2223659	1	01/31/24 15:30	02/10/24 01:28	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2221313	5	02/07/24 08:05	02/07/24 16:41	JSS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2220596	1	02/07/24 04:43	02/08/24 04:12	AGW	Mt. Juliet, TN

P3-S3 L1701988-20 Solid

Collected by
Collected date/time
Received date/time

01/31/24 15:35 02/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2220758	1	02/07/24 08:10	02/07/24 08:18	CMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2222586	28.2	01/31/24 15:35	02/08/24 20:40	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2223659	1.13	01/31/24 15:35	02/10/24 01:49	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2221313	10	02/07/24 08:05	02/07/24 16:55	JSS	Mt. Juliet, TN

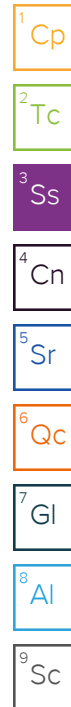
SAMPLE SUMMARY

P3-S2-D L1701988-22 Solid

Collected by
Collected date/time
Received date/time

01/31/24 15:51
02/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2220758	1	02/07/24 08:10	02/07/24 08:18	CMB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2220616	5	02/06/24 09:17	02/06/24 19:44	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2222190	100	01/31/24 15:51	02/08/24 09:18	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2223659	8	01/31/24 15:51	02/10/24 07:12	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2221313	1	02/07/24 08:05	02/07/24 16:13	JSS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2220596	1	02/07/24 04:43	02/08/24 04:32	AGW	Mt. Juliet, TN



P4-S3 L1701988-25 Solid

Collected by
Collected date/time
Received date/time

01/31/24 16:35
02/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2220759	1	02/06/24 17:00	02/06/24 17:08	CMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2222741	25.8	01/31/24 16:35	02/08/24 21:00	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2223659	1.03	01/31/24 16:35	02/10/24 02:10	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2221313	1	02/07/24 08:05	02/07/24 15:59	JSS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2220596	1	02/07/24 04:43	02/08/24 05:31	AGW	Mt. Juliet, TN

P5-S2 L1701988-30 Solid

Collected by
Collected date/time
Received date/time

02/01/24 12:05
02/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2220759	1	02/06/24 17:00	02/06/24 17:08	CMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2222741	28.2	02/01/24 12:05	02/08/24 21:19	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2223659	1.13	02/01/24 12:05	02/10/24 02:31	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2221313	1	02/07/24 08:05	02/07/24 15:45	JSS	Mt. Juliet, TN

P5-S3 L1701988-31 Solid

Collected by
Collected date/time
Received date/time

02/01/24 12:10
02/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2220759	1	02/06/24 17:00	02/06/24 17:08	CMB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2220616	5	02/06/24 09:17	02/06/24 19:48	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2222381	100	02/01/24 12:10	02/09/24 08:29	WHS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2223659	8	02/01/24 12:10	02/10/24 07:34	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2221313	1	02/07/24 08:05	02/07/24 15:45	JSS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2221456	1	02/07/24 14:37	02/08/24 15:21	LS	Mt. Juliet, TN

P5-S4 L1701988-32 Solid

Collected by
Collected date/time
Received date/time

02/01/24 12:15
02/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2220759	1	02/06/24 17:00	02/06/24 17:08	CMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2222381	25	02/01/24 12:15	02/09/24 04:00	WHS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2223659	1	02/01/24 12:15	02/10/24 02:53	JHH	Mt. Juliet, TN

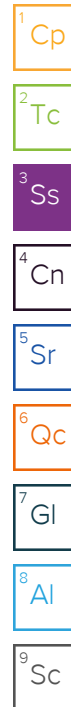
SAMPLE SUMMARY

P6-S1 L1701988-34 Solid

Collected by
Collected date/time
Received date/time

02/01/24 11:55 02/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2220759	1	02/06/24 17:00	02/06/24 17:08	CMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2222381	25	02/01/24 11:55	02/09/24 04:25	WHS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2223659	1	02/01/24 11:55	02/10/24 03:15	JHH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2221364	1	02/07/24 07:02	02/07/24 20:34	MBE	Mt. Juliet, TN



P6-S3 L1701988-36 Solid

Collected by
Collected date/time
Received date/time

02/01/24 12:05 02/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2220759	1	02/06/24 17:00	02/06/24 17:08	CMB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2222381	25	02/01/24 12:05	02/09/24 04:49	WHS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2223659	1	02/01/24 12:05	02/10/24 03:36	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2221315	1	02/07/24 16:03	02/08/24 00:51	KAP	Mt. Juliet, TN

SV1 L1701988-37 Air

Collected by
Collected date/time
Received date/time

02/01/24 08:31 02/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2220187	1	02/05/24 17:25	02/05/24 17:25	JAP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2220829	20	02/06/24 19:23	02/06/24 19:23	GH	Mt. Juliet, TN

SV2 L1701988-38 Air

Collected by
Collected date/time
Received date/time

02/01/24 09:32 02/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2220187	1	02/05/24 17:50	02/05/24 17:50	JAP	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method TO-15	WG2220829	20	02/06/24 19:52	02/06/24 19:52	GH	Mt. Juliet, TN

P5 L1701988-39 GW

Collected by
Collected date/time
Received date/time

02/01/24 12:10 02/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020B	WG2219792	1	02/07/24 09:41	02/07/24 17:25	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2222678	1	02/08/24 18:44	02/08/24 18:44	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2220512	1	02/05/24 23:33	02/05/24 23:33	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2224397	1.03	02/12/24 21:10	02/14/24 12:37	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2219646	1	02/05/24 07:36	02/05/24 15:42	JRM	Mt. Juliet, TN

P6 L1701988-40 GW

Collected by
Collected date/time
Received date/time

02/01/24 13:10 02/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020B	WG2219792	1	02/07/24 09:41	02/07/24 16:03	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2222678	1	02/08/24 19:05	02/08/24 19:05	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2220512	1	02/05/24 23:52	02/05/24 23:52	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2224397	1.02	02/12/24 21:10	02/14/24 05:35	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2219646	1	02/05/24 07:36	02/05/24 18:35	JRM	Mt. Juliet, TN

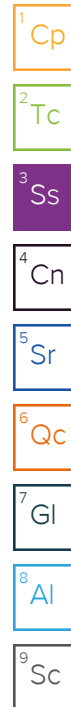
SAMPLE SUMMARY

IDW-S L1701988-41 Solid

Collected by
Collected date/time
Received date/time

02/01/24 13:15 02/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2220759	1	02/06/24 17:00	02/06/24 17:08	CMB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2220616	5	02/06/24 09:17	02/06/24 19:51	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2222381	25	02/01/24 13:15	02/09/24 05:14	WHS	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2223659	1	02/01/24 13:15	02/10/24 03:57	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2221315	25	02/07/24 16:03	02/08/24 13:10	KAP	Mt. Juliet, TN



IDW-W L1701988-42 GW

Collected by
Collected date/time
Received date/time

02/01/24 13:25 02/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICPMS) by Method 6020B	WG2219792	1	02/07/24 09:41	02/07/24 17:28	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2222678	1	02/08/24 19:27	02/08/24 19:27	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2220512	1	02/06/24 00:11	02/06/24 00:11	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2224397	1	02/12/24 21:10	02/14/24 05:55	MAA	Mt. Juliet, TN

RINSE L1701988-43 GW

Collected by
Collected date/time
Received date/time

02/01/24 13:35 02/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2222678	1	02/08/24 19:49	02/08/24 19:49	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2220512	1	02/06/24 00:30	02/06/24 00:30	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2220594	1.11	02/06/24 07:49	02/07/24 15:06	KAP	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-NO SGT	WG2229012	1	02/19/24 20:31	02/20/24 09:58	KAP	Mt. Juliet, TN

TRIP L1701988-44 GW

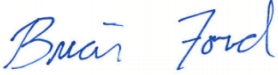
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Collected date/time
Received date/time

02/01/24 00:00 02/03/24 09:00

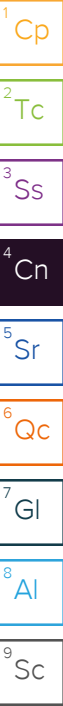
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2233119	1	02/24/24 11:30	02/24/24 11:30	JHH	Mt. Juliet, TN

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.



Brian Ford
Project Manager



Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Lead,Dissolved	U		0.849	2.00	1	02/07/2024 16:57	WG2219792

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	47.3	J	31.6	100	1	02/08/2024 17:17	WG2222678
(S) a,a,a-Trifluorotoluene(FID)	105			78.0-120		02/08/2024 17:17	WG2222678

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	02/05/2024 22:17	WG2220512
Acrolein	U	C3	2.54	50.0	1	02/05/2024 22:17	WG2220512
Acrylonitrile	U		0.671	10.0	1	02/05/2024 22:17	WG2220512
Benzene	U		0.0941	1.00	1	02/05/2024 22:17	WG2220512
Bromobenzene	U		0.118	1.00	1	02/05/2024 22:17	WG2220512
Bromodichloromethane	U		0.136	1.00	1	02/05/2024 22:17	WG2220512
Bromoform	U		0.129	1.00	1	02/05/2024 22:17	WG2220512
Bromomethane	U		0.605	5.00	1	02/05/2024 22:17	WG2220512
n-Butylbenzene	U		0.157	1.00	1	02/05/2024 22:17	WG2220512
sec-Butylbenzene	U		0.125	1.00	1	02/05/2024 22:17	WG2220512
tert-Butylbenzene	U		0.127	1.00	1	02/05/2024 22:17	WG2220512
Carbon disulfide	U		0.0962	1.00	1	02/05/2024 22:17	WG2220512
Carbon tetrachloride	U	J4	0.128	1.00	1	02/05/2024 22:17	WG2220512
Chlorobenzene	U		0.116	1.00	1	02/05/2024 22:17	WG2220512
Chlorodibromomethane	U		0.140	1.00	1	02/05/2024 22:17	WG2220512
Chloroethane	U		0.192	5.00	1	02/05/2024 22:17	WG2220512
Chloroform	U		0.111	5.00	1	02/05/2024 22:17	WG2220512
Chloromethane	U		0.960	2.50	1	02/05/2024 22:17	WG2220512
2-Chlorotoluene	U		0.106	1.00	1	02/05/2024 22:17	WG2220512
4-Chlorotoluene	U		0.114	1.00	1	02/05/2024 22:17	WG2220512
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/05/2024 22:17	WG2220512
1,2-Dibromoethane	U		0.126	1.00	1	02/05/2024 22:17	WG2220512
Dibromomethane	U		0.122	1.00	1	02/05/2024 22:17	WG2220512
1,2-Dichlorobenzene	U		0.107	1.00	1	02/05/2024 22:17	WG2220512
1,3-Dichlorobenzene	U		0.110	1.00	1	02/05/2024 22:17	WG2220512
1,4-Dichlorobenzene	U		0.120	1.00	1	02/05/2024 22:17	WG2220512
Dichlorodifluoromethane	U		0.374	5.00	1	02/05/2024 22:17	WG2220512
1,1-Dichloroethane	U		0.100	1.00	1	02/05/2024 22:17	WG2220512
1,2-Dichloroethane	0.675	J	0.0819	1.00	1	02/05/2024 22:17	WG2220512
1,1-Dichloroethene	U		0.188	1.00	1	02/05/2024 22:17	WG2220512
cis-1,2-Dichloroethene	U		0.126	1.00	1	02/05/2024 22:17	WG2220512
trans-1,2-Dichloroethene	U		0.149	1.00	1	02/05/2024 22:17	WG2220512
1,2-Dichloropropane	U		0.149	1.00	1	02/05/2024 22:17	WG2220512
1,1-Dichloropropene	U		0.142	1.00	1	02/05/2024 22:17	WG2220512
1,3-Dichloropropane	U		0.110	1.00	1	02/05/2024 22:17	WG2220512
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/05/2024 22:17	WG2220512
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/05/2024 22:17	WG2220512
2,2-Dichloropropane	U		0.161	1.00	1	02/05/2024 22:17	WG2220512
Di-isopropyl ether	0.141	J	0.105	1.00	1	02/05/2024 22:17	WG2220512
Ethylbenzene	0.423	J	0.137	1.00	1	02/05/2024 22:17	WG2220512
Hexachloro-1,3-butadiene	U		0.337	1.00	1	02/05/2024 22:17	WG2220512
Isopropylbenzene	U		0.105	1.00	1	02/05/2024 22:17	WG2220512
p-Isopropyltoluene	U		0.120	1.00	1	02/05/2024 22:17	WG2220512

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
2-Butanone (MEK)	U		1.19	10.0	1	02/05/2024 22:17	WG2220512
Methylene Chloride	U		0.430	5.00	1	02/05/2024 22:17	WG2220512
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/05/2024 22:17	WG2220512
Methyl tert-butyl ether	U		0.101	1.00	1	02/05/2024 22:17	WG2220512
Naphthalene	U		1.00	5.00	1	02/05/2024 22:17	WG2220512
n-Propylbenzene	U		0.0993	1.00	1	02/05/2024 22:17	WG2220512
Styrene	U		0.118	1.00	1	02/05/2024 22:17	WG2220512
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	02/05/2024 22:17	WG2220512
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/05/2024 22:17	WG2220512
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/05/2024 22:17	WG2220512
Tetrachloroethene	U		0.300	1.00	1	02/05/2024 22:17	WG2220512
Toluene	U		0.278	1.00	1	02/05/2024 22:17	WG2220512
1,2,3-Trichlorobenzene	U		0.230	1.00	1	02/05/2024 22:17	WG2220512
1,2,4-Trichlorobenzene	U		0.481	1.00	1	02/05/2024 22:17	WG2220512
1,1,1-Trichloroethane	U		0.149	1.00	1	02/05/2024 22:17	WG2220512
1,1,2-Trichloroethane	U		0.158	1.00	1	02/05/2024 22:17	WG2220512
Trichloroethene	U		0.190	1.00	1	02/05/2024 22:17	WG2220512
Trichlorofluoromethane	U		0.160	5.00	1	02/05/2024 22:17	WG2220512
1,2,3-Trichloropropane	U		0.237	2.50	1	02/05/2024 22:17	WG2220512
1,2,4-Trimethylbenzene	U		0.322	1.00	1	02/05/2024 22:17	WG2220512
1,2,3-Trimethylbenzene	U		0.104	1.00	1	02/05/2024 22:17	WG2220512
1,3,5-Trimethylbenzene	U		0.104	1.00	1	02/05/2024 22:17	WG2220512
Vinyl chloride	U		0.234	1.00	1	02/05/2024 22:17	WG2220512
Xylenes, Total	3.11		0.174	3.00	1	02/05/2024 22:17	WG2220512
(S) Toluene-d8	101			80.0-120		02/05/2024 22:17	WG2220512
(S) 4-Bromofluorobenzene	99.2			77.0-126		02/05/2024 22:17	WG2220512
(S) 1,2-Dichloroethane-d4	99.6			70.0-130		02/05/2024 22:17	WG2220512

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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)	82.3	BJ	33.3	100	1	02/07/2024 08:42	WG2220594
Residual Range Organics (RRO)	212	J	83.3	250	1	02/07/2024 08:42	WG2220594
(S) o-Terphenyl	30.3	J2		31.0-160		02/07/2024 08:42	WG2220594

Sample Narrative:

L1701988-01 WG2220594: Sample produced emulsion during Extraction process, low surr/spike recoveries due to matrix.

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0190	0.0500	1	02/05/2024 22:42	WG2219641
Acenaphthene	U		0.0190	0.0500	1	02/05/2024 22:42	WG2219641
Acenaphthylene	U		0.0171	0.0500	1	02/05/2024 22:42	WG2219641
Benzo(a)anthracene	U		0.0203	0.0500	1	02/05/2024 22:42	WG2219641
Benzo(a)pyrene	U		0.0184	0.0500	1	02/05/2024 22:42	WG2219641
Benzo(b)fluoranthene	U		0.0168	0.0500	1	02/05/2024 22:42	WG2219641
Benzo(g,h,i)perylene	U		0.0184	0.0500	1	02/05/2024 22:42	WG2219641
Benzo(k)fluoranthene	U		0.0202	0.0500	1	02/05/2024 22:42	WG2219641
Chrysene	U		0.0179	0.0500	1	02/05/2024 22:42	WG2219641
Dibenz(a,h)anthracene	U		0.0160	0.0500	1	02/05/2024 22:42	WG2219641
Fluoranthene	U		0.0270	0.100	1	02/05/2024 22:42	WG2219641
Fluorene	U		0.0169	0.0500	1	02/05/2024 22:42	WG2219641
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500	1	02/05/2024 22:42	WG2219641
Naphthalene	U		0.0917	0.250	1	02/05/2024 22:42	WG2219641

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Phenanthrene	U		0.0180	0.0500	1	02/05/2024 22:42	WG2219641
Pyrene	U		0.0169	0.0500	1	02/05/2024 22:42	WG2219641
1-Methylnaphthalene	U		0.0687	0.250	1	02/05/2024 22:42	WG2219641
2-Methylnaphthalene	U	J4	0.0674	0.250	1	02/05/2024 22:42	WG2219641
2-Chloronaphthalene	U		0.0682	0.250	1	02/05/2024 22:42	WG2219641
(S) Nitrobenzene-d5	107			31.0-160		02/05/2024 22:42	WG2219641
(S) 2-Fluorobiphenyl	114			48.0-148		02/05/2024 22:42	WG2219641
(S) p-Terphenyl-d14	105			37.0-146		02/05/2024 22:42	WG2219641

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Lead,Dissolved	U		0.849	2.00	1	02/07/2024 17:00	WG2219792

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	123		31.6	100	1	02/08/2024 17:39	WG2222678
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		02/08/2024 17:39	WG2222678

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	02/05/2024 22:36	WG2220512
Acrolein	U	C3	2.54	50.0	1	02/05/2024 22:36	WG2220512
Acrylonitrile	U		0.671	10.0	1	02/05/2024 22:36	WG2220512
Benzene	U		0.0941	1.00	1	02/05/2024 22:36	WG2220512
Bromobenzene	U		0.118	1.00	1	02/05/2024 22:36	WG2220512
Bromodichloromethane	U		0.136	1.00	1	02/05/2024 22:36	WG2220512
Bromoform	U		0.129	1.00	1	02/05/2024 22:36	WG2220512
Bromomethane	U		0.605	5.00	1	02/05/2024 22:36	WG2220512
n-Butylbenzene	U		0.157	1.00	1	02/05/2024 22:36	WG2220512
sec-Butylbenzene	0.268	J	0.125	1.00	1	02/05/2024 22:36	WG2220512
tert-Butylbenzene	U		0.127	1.00	1	02/05/2024 22:36	WG2220512
Carbon disulfide	0.102	J	0.0962	1.00	1	02/05/2024 22:36	WG2220512
Carbon tetrachloride	U	J4	0.128	1.00	1	02/05/2024 22:36	WG2220512
Chlorobenzene	U		0.116	1.00	1	02/05/2024 22:36	WG2220512
Chlorodibromomethane	U		0.140	1.00	1	02/05/2024 22:36	WG2220512
Chloroethane	U		0.192	5.00	1	02/05/2024 22:36	WG2220512
Chloroform	U		0.111	5.00	1	02/05/2024 22:36	WG2220512
Chloromethane	U		0.960	2.50	1	02/05/2024 22:36	WG2220512
2-Chlorotoluene	U		0.106	1.00	1	02/05/2024 22:36	WG2220512
4-Chlorotoluene	U		0.114	1.00	1	02/05/2024 22:36	WG2220512
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/05/2024 22:36	WG2220512
1,2-Dibromoethane	U		0.126	1.00	1	02/05/2024 22:36	WG2220512
Dibromomethane	U		0.122	1.00	1	02/05/2024 22:36	WG2220512
1,2-Dichlorobenzene	U		0.107	1.00	1	02/05/2024 22:36	WG2220512
1,3-Dichlorobenzene	U		0.110	1.00	1	02/05/2024 22:36	WG2220512
1,4-Dichlorobenzene	U		0.120	1.00	1	02/05/2024 22:36	WG2220512
Dichlorodifluoromethane	U		0.374	5.00	1	02/05/2024 22:36	WG2220512
1,1-Dichloroethane	U		0.100	1.00	1	02/05/2024 22:36	WG2220512
1,2-Dichloroethane	U		0.0819	1.00	1	02/05/2024 22:36	WG2220512
1,1-Dichloroethene	U		0.188	1.00	1	02/05/2024 22:36	WG2220512
cis-1,2-Dichloroethene	U		0.126	1.00	1	02/05/2024 22:36	WG2220512
trans-1,2-Dichloroethene	U		0.149	1.00	1	02/05/2024 22:36	WG2220512
1,2-Dichloropropane	U		0.149	1.00	1	02/05/2024 22:36	WG2220512
1,1-Dichloropropene	U		0.142	1.00	1	02/05/2024 22:36	WG2220512
1,3-Dichloropropane	U		0.110	1.00	1	02/05/2024 22:36	WG2220512
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/05/2024 22:36	WG2220512
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/05/2024 22:36	WG2220512
2,2-Dichloropropane	U		0.161	1.00	1	02/05/2024 22:36	WG2220512
Di-isopropyl ether	U		0.105	1.00	1	02/05/2024 22:36	WG2220512
Ethylbenzene	0.469	J	0.137	1.00	1	02/05/2024 22:36	WG2220512
Hexachloro-1,3-butadiene	U		0.337	1.00	1	02/05/2024 22:36	WG2220512
Isopropylbenzene	0.131	J	0.105	1.00	1	02/05/2024 22:36	WG2220512
p-Isopropyltoluene	U		0.120	1.00	1	02/05/2024 22:36	WG2220512

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

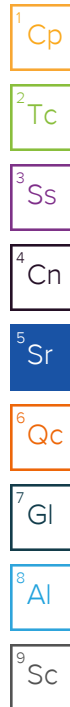
7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
2-Butanone (MEK)	U		1.19	10.0	1	02/05/2024 22:36	WG2220512
Methylene Chloride	U		0.430	5.00	1	02/05/2024 22:36	WG2220512
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/05/2024 22:36	WG2220512
Methyl tert-butyl ether	U		0.101	1.00	1	02/05/2024 22:36	WG2220512
Naphthalene	U		1.00	5.00	1	02/05/2024 22:36	WG2220512
n-Propylbenzene	0.288	J	0.0993	1.00	1	02/05/2024 22:36	WG2220512
Styrene	U		0.118	1.00	1	02/05/2024 22:36	WG2220512
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	02/05/2024 22:36	WG2220512
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/05/2024 22:36	WG2220512
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/05/2024 22:36	WG2220512
Tetrachloroethene	U		0.300	1.00	1	02/05/2024 22:36	WG2220512
Toluene	U		0.278	1.00	1	02/05/2024 22:36	WG2220512
1,2,3-Trichlorobenzene	U		0.230	1.00	1	02/05/2024 22:36	WG2220512
1,2,4-Trichlorobenzene	U		0.481	1.00	1	02/05/2024 22:36	WG2220512
1,1,1-Trichloroethane	U		0.149	1.00	1	02/05/2024 22:36	WG2220512
1,1,2-Trichloroethane	U		0.158	1.00	1	02/05/2024 22:36	WG2220512
Trichloroethene	U		0.190	1.00	1	02/05/2024 22:36	WG2220512
Trichlorofluoromethane	U		0.160	5.00	1	02/05/2024 22:36	WG2220512
1,2,3-Trichloropropane	U		0.237	2.50	1	02/05/2024 22:36	WG2220512
1,2,4-Trimethylbenzene	U		0.322	1.00	1	02/05/2024 22:36	WG2220512
1,2,3-Trimethylbenzene	U		0.104	1.00	1	02/05/2024 22:36	WG2220512
1,3,5-Trimethylbenzene	U		0.104	1.00	1	02/05/2024 22:36	WG2220512
Vinyl chloride	U		0.234	1.00	1	02/05/2024 22:36	WG2220512
Xylenes, Total	3.40		0.174	3.00	1	02/05/2024 22:36	WG2220512
(S) Toluene-d8	102			80.0-120		02/05/2024 22:36	WG2220512
(S) 4-Bromofluorobenzene	100			77.0-126		02/05/2024 22:36	WG2220512
(S) 1,2-Dichloroethane-d4	100			70.0-130		02/05/2024 22:36	WG2220512



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)	250		34.6	104	1.04	02/14/2024 05:15	WG2224397
Residual Range Organics (RRO)	257	J	86.6	260	1.04	02/14/2024 05:15	WG2224397
(S) o-Terphenyl	52.9			31.0-160		02/14/2024 05:15	WG2224397

Sample Narrative:

L1701988-02 WG2224397: Dilution due to sample volume.

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0190	0.0500	1	02/05/2024 23:01	WG2219641
Acenaphthene	0.0968		0.0190	0.0500	1	02/05/2024 23:01	WG2219641
Acenaphthylene	0.0262	J	0.0171	0.0500	1	02/05/2024 23:01	WG2219641
Benzo(a)anthracene	U		0.0203	0.0500	1	02/05/2024 23:01	WG2219641
Benzo(a)pyrene	U		0.0184	0.0500	1	02/05/2024 23:01	WG2219641
Benzo(b)fluoranthene	U		0.0168	0.0500	1	02/05/2024 23:01	WG2219641
Benzo(g,h,i)perylene	U		0.0184	0.0500	1	02/05/2024 23:01	WG2219641
Benzo(k)fluoranthene	U		0.0202	0.0500	1	02/05/2024 23:01	WG2219641
Chrysene	U		0.0179	0.0500	1	02/05/2024 23:01	WG2219641
Dibenz(a,h)anthracene	U		0.0160	0.0500	1	02/05/2024 23:01	WG2219641
Fluoranthene	U		0.0270	0.100	1	02/05/2024 23:01	WG2219641
Fluorene	0.0726		0.0169	0.0500	1	02/05/2024 23:01	WG2219641
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500	1	02/05/2024 23:01	WG2219641
Naphthalene	0.270		0.0917	0.250	1	02/05/2024 23:01	WG2219641

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Phenanthrene	0.0371	J	0.0180	0.0500	1	02/05/2024 23:01	WG2219641
Pyrene	U		0.0169	0.0500	1	02/05/2024 23:01	WG2219641
1-Methylnaphthalene	0.404		0.0687	0.250	1	02/05/2024 23:01	WG2219641
2-Methylnaphthalene	U	J4	0.0674	0.250	1	02/05/2024 23:01	WG2219641
2-Chloronaphthalene	U		0.0682	0.250	1	02/05/2024 23:01	WG2219641
(S) Nitrobenzene-d5	105			31.0-160		02/05/2024 23:01	WG2219641
(S) 2-Fluorobiphenyl	115			48.0-148		02/05/2024 23:01	WG2219641
(S) p-Terphenyl-d14	103			37.0-146		02/05/2024 23:01	WG2219641

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Lead,Dissolved	U		0.849	2.00	1	02/07/2024 17:03	WG2219792

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

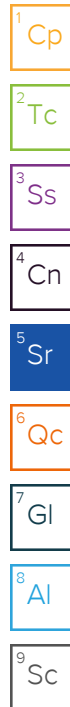
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	79.0	J	31.6	100	1	02/08/2024 18:01	WG2222678
(S) a,a,a-Trifluorotoluene(FID)	106			78.0-120		02/08/2024 18:01	WG2222678

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	28.2	J	11.3	50.0	1	02/05/2024 22:55	WG2220512
Acrolein	U	C3	2.54	50.0	1	02/05/2024 22:55	WG2220512
Acrylonitrile	U		0.671	10.0	1	02/05/2024 22:55	WG2220512
Benzene	U		0.0941	1.00	1	02/05/2024 22:55	WG2220512
Bromobenzene	U		0.118	1.00	1	02/05/2024 22:55	WG2220512
Bromodichloromethane	U		0.136	1.00	1	02/05/2024 22:55	WG2220512
Bromoform	U		0.129	1.00	1	02/05/2024 22:55	WG2220512
Bromomethane	U		0.605	5.00	1	02/05/2024 22:55	WG2220512
n-Butylbenzene	U		0.157	1.00	1	02/05/2024 22:55	WG2220512
sec-Butylbenzene	0.154	J	0.125	1.00	1	02/05/2024 22:55	WG2220512
tert-Butylbenzene	U		0.127	1.00	1	02/05/2024 22:55	WG2220512
Carbon disulfide	0.119	J	0.0962	1.00	1	02/05/2024 22:55	WG2220512
Carbon tetrachloride	U	J4	0.128	1.00	1	02/05/2024 22:55	WG2220512
Chlorobenzene	U		0.116	1.00	1	02/05/2024 22:55	WG2220512
Chlorodibromomethane	U		0.140	1.00	1	02/05/2024 22:55	WG2220512
Chloroethane	U		0.192	5.00	1	02/05/2024 22:55	WG2220512
Chloroform	U		0.111	5.00	1	02/05/2024 22:55	WG2220512
Chloromethane	U		0.960	2.50	1	02/05/2024 22:55	WG2220512
2-Chlorotoluene	U		0.106	1.00	1	02/05/2024 22:55	WG2220512
4-Chlorotoluene	U		0.114	1.00	1	02/05/2024 22:55	WG2220512
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/05/2024 22:55	WG2220512
1,2-Dibromoethane	U		0.126	1.00	1	02/05/2024 22:55	WG2220512
Dibromomethane	U		0.122	1.00	1	02/05/2024 22:55	WG2220512
1,2-Dichlorobenzene	U		0.107	1.00	1	02/05/2024 22:55	WG2220512
1,3-Dichlorobenzene	U		0.110	1.00	1	02/05/2024 22:55	WG2220512
1,4-Dichlorobenzene	U		0.120	1.00	1	02/05/2024 22:55	WG2220512
Dichlorodifluoromethane	U		0.374	5.00	1	02/05/2024 22:55	WG2220512
1,1-Dichloroethane	U		0.100	1.00	1	02/05/2024 22:55	WG2220512
1,2-Dichloroethane	U		0.0819	1.00	1	02/05/2024 22:55	WG2220512
1,1-Dichloroethene	U		0.188	1.00	1	02/05/2024 22:55	WG2220512
cis-1,2-Dichloroethene	U		0.126	1.00	1	02/05/2024 22:55	WG2220512
trans-1,2-Dichloroethene	U		0.149	1.00	1	02/05/2024 22:55	WG2220512
1,2-Dichloropropane	U		0.149	1.00	1	02/05/2024 22:55	WG2220512
1,1-Dichloropropene	U		0.142	1.00	1	02/05/2024 22:55	WG2220512
1,3-Dichloropropane	U		0.110	1.00	1	02/05/2024 22:55	WG2220512
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/05/2024 22:55	WG2220512
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/05/2024 22:55	WG2220512
2,2-Dichloropropane	U		0.161	1.00	1	02/05/2024 22:55	WG2220512
Di-isopropyl ether	U		0.105	1.00	1	02/05/2024 22:55	WG2220512
Ethylbenzene	0.195	J	0.137	1.00	1	02/05/2024 22:55	WG2220512
Hexachloro-1,3-butadiene	U		0.337	1.00	1	02/05/2024 22:55	WG2220512
Isopropylbenzene	U		0.105	1.00	1	02/05/2024 22:55	WG2220512
p-Isopropyltoluene	0.128	J	0.120	1.00	1	02/05/2024 22:55	WG2220512

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
2-Butanone (MEK)	U		1.19	10.0	1	02/05/2024 22:55	WG2220512
Methylene Chloride	U		0.430	5.00	1	02/05/2024 22:55	WG2220512
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/05/2024 22:55	WG2220512
Methyl tert-butyl ether	U		0.101	1.00	1	02/05/2024 22:55	WG2220512
Naphthalene	U		1.00	5.00	1	02/05/2024 22:55	WG2220512
n-Propylbenzene	U		0.0993	1.00	1	02/05/2024 22:55	WG2220512
Styrene	U		0.118	1.00	1	02/05/2024 22:55	WG2220512
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	02/05/2024 22:55	WG2220512
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/05/2024 22:55	WG2220512
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/05/2024 22:55	WG2220512
Tetrachloroethene	U		0.300	1.00	1	02/05/2024 22:55	WG2220512
Toluene	U		0.278	1.00	1	02/05/2024 22:55	WG2220512
1,2,3-Trichlorobenzene	U		0.230	1.00	1	02/05/2024 22:55	WG2220512
1,2,4-Trichlorobenzene	U		0.481	1.00	1	02/05/2024 22:55	WG2220512
1,1,1-Trichloroethane	U		0.149	1.00	1	02/05/2024 22:55	WG2220512
1,1,2-Trichloroethane	U		0.158	1.00	1	02/05/2024 22:55	WG2220512
Trichloroethene	U		0.190	1.00	1	02/05/2024 22:55	WG2220512
Trichlorofluoromethane	U		0.160	5.00	1	02/05/2024 22:55	WG2220512
1,2,3-Trichloropropane	U		0.237	2.50	1	02/05/2024 22:55	WG2220512
1,2,4-Trimethylbenzene	U		0.322	1.00	1	02/05/2024 22:55	WG2220512
1,2,3-Trimethylbenzene	U		0.104	1.00	1	02/05/2024 22:55	WG2220512
1,3,5-Trimethylbenzene	U		0.104	1.00	1	02/05/2024 22:55	WG2220512
Vinyl chloride	U		0.234	1.00	1	02/05/2024 22:55	WG2220512
Xylenes, Total	1.47	<u>J</u>	0.174	3.00	1	02/05/2024 22:55	WG2220512
(S) Toluene-d8	102			80.0-120		02/05/2024 22:55	WG2220512
(S) 4-Bromofluorobenzene	104			77.0-126		02/05/2024 22:55	WG2220512
(S) 1,2-Dichloroethane-d4	99.9			70.0-130		02/05/2024 22:55	WG2220512



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)	298		34.6	104	1.04	02/14/2024 12:17	WG2224397
Residual Range Organics (RRO)	294		86.6	260	1.04	02/14/2024 12:17	WG2224397
(S) o-Terphenyl	14.8	<u>J2</u>		31.0-160		02/14/2024 12:17	WG2224397

Sample Narrative:

L1701988-03 WG2224397: Sample produced emulsion during Extraction, low surr/ due to matrix.resembles laboratory std for Gas

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0380	0.100	2	02/06/2024 01:38	WG2219641
Acenaphthene	U		0.0380	0.100	2	02/06/2024 01:38	WG2219641
Acenaphthylene	U		0.0342	0.100	2	02/06/2024 01:38	WG2219641
Benzo(a)anthracene	U		0.0406	0.100	2	02/06/2024 01:38	WG2219641
Benzo(a)pyrene	U		0.0368	0.100	2	02/06/2024 01:38	WG2219641
Benzo(b)fluoranthene	U		0.0336	0.100	2	02/06/2024 01:38	WG2219641
Benzo(g,h,i)perylene	U		0.0368	0.100	2	02/06/2024 01:38	WG2219641
Benzo(k)fluoranthene	U		0.0404	0.100	2	02/06/2024 01:38	WG2219641
Chrysene	U		0.0358	0.100	2	02/06/2024 01:38	WG2219641
Dibenz(a,h)anthracene	U		0.0320	0.100	2	02/06/2024 01:38	WG2219641
Fluoranthene	U		0.0540	0.200	2	02/06/2024 01:38	WG2219641
Fluorene	U		0.0338	0.100	2	02/06/2024 01:38	WG2219641
Indeno(1,2,3-cd)pyrene	U		0.0316	0.100	2	02/06/2024 01:38	WG2219641
Naphthalene	U		0.183	0.500	2	02/06/2024 01:38	WG2219641

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Phenanthrene	U		0.0360	0.100	2	02/06/2024 01:38	WG2219641
Pyrene	U		0.0338	0.100	2	02/06/2024 01:38	WG2219641
1-Methylnaphthalene	U		0.137	0.500	2	02/06/2024 01:38	WG2219641
2-Methylnaphthalene	U	J4	0.135	0.500	2	02/06/2024 01:38	WG2219641
2-Chloronaphthalene	U		0.136	0.500	2	02/06/2024 01:38	WG2219641
(S) Nitrobenzene-d5	89.0			31.0-160		02/06/2024 01:38	WG2219641
(S) 2-Fluorobiphenyl	56.5			48.0-148		02/06/2024 01:38	WG2219641
(S) p-Terphenyl-d14	27.5	J2		37.0-146		02/06/2024 01:38	WG2219641

Sample Narrative:

L1701988-03 WG2219641: Dilution due to matrix impact during extraction procedure

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Cadmium,Dissolved	U		0.150	1.00	1	02/07/2024 17:07	WG2219792
Chromium,Dissolved	U		1.24	2.00	1	02/07/2024 17:07	WG2219792
Lead,Dissolved	U		0.849	2.00	1	02/07/2024 17:07	WG2219792

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	02/08/2024 18:22	WG2222678
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		02/08/2024 18:22	WG2222678

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	02/05/2024 23:14	WG2220512
Acrolein	U	C3	2.54	50.0	1	02/05/2024 23:14	WG2220512
Acrylonitrile	U		0.671	10.0	1	02/05/2024 23:14	WG2220512
Benzene	U		0.0941	1.00	1	02/05/2024 23:14	WG2220512
Bromobenzene	U		0.118	1.00	1	02/05/2024 23:14	WG2220512
Bromodichloromethane	U		0.136	1.00	1	02/05/2024 23:14	WG2220512
Bromoform	U		0.129	1.00	1	02/05/2024 23:14	WG2220512
Bromomethane	U		0.605	5.00	1	02/05/2024 23:14	WG2220512
n-Butylbenzene	U		0.157	1.00	1	02/05/2024 23:14	WG2220512
sec-Butylbenzene	U		0.125	1.00	1	02/05/2024 23:14	WG2220512
tert-Butylbenzene	U		0.127	1.00	1	02/05/2024 23:14	WG2220512
Carbon disulfide	U		0.0962	1.00	1	02/05/2024 23:14	WG2220512
Carbon tetrachloride	U	J4	0.128	1.00	1	02/05/2024 23:14	WG2220512
Chlorobenzene	U		0.116	1.00	1	02/05/2024 23:14	WG2220512
Chlorodibromomethane	U		0.140	1.00	1	02/05/2024 23:14	WG2220512
Chloroethane	U		0.192	5.00	1	02/05/2024 23:14	WG2220512
Chloroform	U		0.111	5.00	1	02/05/2024 23:14	WG2220512
Chloromethane	U		0.960	2.50	1	02/05/2024 23:14	WG2220512
2-Chlorotoluene	U		0.106	1.00	1	02/05/2024 23:14	WG2220512
4-Chlorotoluene	U		0.114	1.00	1	02/05/2024 23:14	WG2220512
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/05/2024 23:14	WG2220512
1,2-Dibromoethane	U		0.126	1.00	1	02/05/2024 23:14	WG2220512
Dibromomethane	U		0.122	1.00	1	02/05/2024 23:14	WG2220512
1,2-Dichlorobenzene	U		0.107	1.00	1	02/05/2024 23:14	WG2220512
1,3-Dichlorobenzene	U		0.110	1.00	1	02/05/2024 23:14	WG2220512
1,4-Dichlorobenzene	U		0.120	1.00	1	02/05/2024 23:14	WG2220512
Dichlorodifluoromethane	U		0.374	5.00	1	02/05/2024 23:14	WG2220512
1,1-Dichloroethane	U		0.100	1.00	1	02/05/2024 23:14	WG2220512
1,2-Dichloroethane	U		0.0819	1.00	1	02/05/2024 23:14	WG2220512
1,1-Dichloroethene	U		0.188	1.00	1	02/05/2024 23:14	WG2220512
cis-1,2-Dichloroethene	U		0.126	1.00	1	02/05/2024 23:14	WG2220512
trans-1,2-Dichloroethene	U		0.149	1.00	1	02/05/2024 23:14	WG2220512
1,2-Dichloropropane	U		0.149	1.00	1	02/05/2024 23:14	WG2220512
1,1-Dichloropropene	U		0.142	1.00	1	02/05/2024 23:14	WG2220512
1,3-Dichloropropane	U		0.110	1.00	1	02/05/2024 23:14	WG2220512
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/05/2024 23:14	WG2220512
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/05/2024 23:14	WG2220512
2,2-Dichloropropane	U		0.161	1.00	1	02/05/2024 23:14	WG2220512
Di-isopropyl ether	U		0.105	1.00	1	02/05/2024 23:14	WG2220512
Ethylbenzene	0.828	J	0.137	1.00	1	02/05/2024 23:14	WG2220512
Hexachloro-1,3-butadiene	U		0.337	1.00	1	02/05/2024 23:14	WG2220512

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 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
Isopropylbenzene	U		0.105	1.00	1	02/05/2024 23:14	WG2220512
p-Isopropyltoluene	U		0.120	1.00	1	02/05/2024 23:14	WG2220512
2-Butanone (MEK)	U		1.19	10.0	1	02/05/2024 23:14	WG2220512
Methylene Chloride	U		0.430	5.00	1	02/05/2024 23:14	WG2220512
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/05/2024 23:14	WG2220512
Methyl tert-butyl ether	U		0.101	1.00	1	02/05/2024 23:14	WG2220512
Naphthalene	U		1.00	5.00	1	02/05/2024 23:14	WG2220512
n-Propylbenzene	U		0.0993	1.00	1	02/05/2024 23:14	WG2220512
Styrene	U		0.118	1.00	1	02/05/2024 23:14	WG2220512
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	02/05/2024 23:14	WG2220512
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/05/2024 23:14	WG2220512
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/05/2024 23:14	WG2220512
Tetrachloroethene	U		0.300	1.00	1	02/05/2024 23:14	WG2220512
Toluene	U		0.278	1.00	1	02/05/2024 23:14	WG2220512
1,2,3-Trichlorobenzene	U		0.230	1.00	1	02/05/2024 23:14	WG2220512
1,2,4-Trichlorobenzene	U		0.481	1.00	1	02/05/2024 23:14	WG2220512
1,1,1-Trichloroethane	U		0.149	1.00	1	02/05/2024 23:14	WG2220512
1,1,2-Trichloroethane	U		0.158	1.00	1	02/05/2024 23:14	WG2220512
Trichloroethene	U		0.190	1.00	1	02/05/2024 23:14	WG2220512
Trichlorofluoromethane	U		0.160	5.00	1	02/05/2024 23:14	WG2220512
1,2,3-Trichloropropane	U		0.237	2.50	1	02/05/2024 23:14	WG2220512
1,2,4-Trimethylbenzene	U		0.322	1.00	1	02/05/2024 23:14	WG2220512
1,2,3-Trimethylbenzene	U		0.104	1.00	1	02/05/2024 23:14	WG2220512
1,3,5-Trimethylbenzene	U		0.104	1.00	1	02/05/2024 23:14	WG2220512
Vinyl chloride	U		0.234	1.00	1	02/05/2024 23:14	WG2220512
Xylenes, Total	5.58		0.174	3.00	1	02/05/2024 23:14	WG2220512
(S) Toluene-d8	103			80.0-120		02/05/2024 23:14	WG2220512
(S) 4-Bromofluorobenzene	102			77.0-126		02/05/2024 23:14	WG2220512
(S) 1,2-Dichloroethane-d4	98.8			70.0-130		02/05/2024 23:14	WG2220512

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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)	70.9	B J	33.3	100	1	02/07/2024 09:50	WG2220594
Residual Range Organics (RRO)	U		83.3	250	1	02/07/2024 09:50	WG2220594
(S) o-Terphenyl	52.0			31.0-160		02/07/2024 09:50	WG2220594

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0190	0.0500	1	02/05/2024 23:21	WG2219641
Acenaphthene	U		0.0190	0.0500	1	02/05/2024 23:21	WG2219641
Acenaphthylene	U		0.0171	0.0500	1	02/05/2024 23:21	WG2219641
Benzo(a)anthracene	U		0.0203	0.0500	1	02/05/2024 23:21	WG2219641
Benzo(a)pyrene	U		0.0184	0.0500	1	02/05/2024 23:21	WG2219641
Benzo(b)fluoranthene	U		0.0168	0.0500	1	02/05/2024 23:21	WG2219641
Benzo(g,h,i)perylene	U		0.0184	0.0500	1	02/05/2024 23:21	WG2219641
Benzo(k)fluoranthene	U		0.0202	0.0500	1	02/05/2024 23:21	WG2219641
Chrysene	U		0.0179	0.0500	1	02/05/2024 23:21	WG2219641
Dibenz(a,h)anthracene	U		0.0160	0.0500	1	02/05/2024 23:21	WG2219641
Fluoranthene	U		0.0270	0.100	1	02/05/2024 23:21	WG2219641
Fluorene	U		0.0169	0.0500	1	02/05/2024 23:21	WG2219641
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500	1	02/05/2024 23:21	WG2219641
Naphthalene	U		0.0917	0.250	1	02/05/2024 23:21	WG2219641
Phenanthrene	U		0.0180	0.0500	1	02/05/2024 23:21	WG2219641

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Pyrene	U		0.0169	0.0500	1	02/05/2024 23:21	WG2219641
1-Methylnaphthalene	U		0.0687	0.250	1	02/05/2024 23:21	WG2219641
2-Methylnaphthalene	U	J4	0.0674	0.250	1	02/05/2024 23:21	WG2219641
2-Chloronaphthalene	U		0.0682	0.250	1	02/05/2024 23:21	WG2219641
(S) Nitrobenzene-d5	109			31.0-160		02/05/2024 23:21	WG2219641
(S) 2-Fluorobiphenyl	121			48.0-148		02/05/2024 23:21	WG2219641
(S) p-Terphenyl-d14	111			37.0-146		02/05/2024 23:21	WG2219641

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	69.0		1	02/07/2024 08:37	WG2220756

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	6.13	B	1.67	4.91	25	02/07/2024 21:00	WG2221650
(S) a,a,a-Trifluorotoluene(FID)	94.2			77.0-120		02/07/2024 21:00	WG2221650

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	C3	0.0717	0.0982	1	02/10/2024 06:53	WG2223745
Acrylonitrile	U		0.00709	0.0246	1	02/10/2024 06:53	WG2223745
Benzene	U		0.000917	0.00196	1	02/10/2024 06:53	WG2223745
Bromobenzene	U		0.00177	0.0246	1	02/10/2024 06:53	WG2223745
Bromodichloromethane	U		0.00142	0.00491	1	02/10/2024 06:53	WG2223745
Bromoform	U		0.00230	0.0491	1	02/10/2024 06:53	WG2223745
Bromomethane	U		0.00387	0.0246	1	02/10/2024 06:53	WG2223745
n-Butylbenzene	U		0.0103	0.0246	1	02/10/2024 06:53	WG2223745
sec-Butylbenzene	U		0.00566	0.0246	1	02/10/2024 06:53	WG2223745
tert-Butylbenzene	U		0.00383	0.00982	1	02/10/2024 06:53	WG2223745
Carbon disulfide	U		0.00138	0.0246	1	02/10/2024 06:53	WG2223745
Carbon tetrachloride	U		0.00176	0.00982	1	02/10/2024 06:53	WG2223745
Chlorobenzene	U		0.000413	0.00491	1	02/10/2024 06:53	WG2223745
Chlorodibromomethane	U		0.00120	0.00491	1	02/10/2024 06:53	WG2223745
Chloroethane	U		0.00334	0.00982	1	02/10/2024 06:53	WG2223745
Chloroform	U		0.00202	0.00491	1	02/10/2024 06:53	WG2223745
Chloromethane	U		0.00855	0.0246	1	02/10/2024 06:53	WG2223745
2-Chlorotoluene	U		0.00170	0.00491	1	02/10/2024 06:53	WG2223745
4-Chlorotoluene	U		0.000884	0.00982	1	02/10/2024 06:53	WG2223745
1,2-Dibromo-3-Chloropropane	U		0.00766	0.0491	1	02/10/2024 06:53	WG2223745
1,2-Dibromoethane	U		0.00127	0.00491	1	02/10/2024 06:53	WG2223745
Dibromomethane	U		0.00147	0.00982	1	02/10/2024 06:53	WG2223745
1,2-Dichlorobenzene	U		0.000835	0.00982	1	02/10/2024 06:53	WG2223745
1,3-Dichlorobenzene	U		0.00118	0.00982	1	02/10/2024 06:53	WG2223745
1,4-Dichlorobenzene	U		0.00138	0.00982	1	02/10/2024 06:53	WG2223745
Dichlorodifluoromethane	U		0.00316	0.00982	1	02/10/2024 06:53	WG2223745
1,1-Dichloroethane	U		0.000965	0.00491	1	02/10/2024 06:53	WG2223745
1,2-Dichloroethane	U		0.00127	0.00491	1	02/10/2024 06:53	WG2223745
1,1-Dichloroethene	U		0.00119	0.00491	1	02/10/2024 06:53	WG2223745
cis-1,2-Dichloroethene	U		0.00144	0.00491	1	02/10/2024 06:53	WG2223745
trans-1,2-Dichloroethene	U		0.00204	0.00982	1	02/10/2024 06:53	WG2223745
1,2-Dichloropropane	U		0.00279	0.00982	1	02/10/2024 06:53	WG2223745
1,1-Dichloropropene	U		0.00159	0.00491	1	02/10/2024 06:53	WG2223745
1,3-Dichloropropane	U		0.000984	0.00982	1	02/10/2024 06:53	WG2223745
cis-1,3-Dichloropropene	U		0.00149	0.00491	1	02/10/2024 06:53	WG2223745
trans-1,3-Dichloropropene	U		0.00224	0.00982	1	02/10/2024 06:53	WG2223745
2,2-Dichloropropane	U		0.00271	0.00491	1	02/10/2024 06:53	WG2223745
Di-isopropyl ether	U		0.000805	0.00196	1	02/10/2024 06:53	WG2223745
Ethylbenzene	0.0635		0.00145	0.00491	1	02/10/2024 06:53	WG2223745
Hexachloro-1,3-butadiene	U		0.0118	0.0491	1	02/10/2024 06:53	WG2223745
Isopropylbenzene	0.00210	J	0.000835	0.00491	1	02/10/2024 06:53	WG2223745
p-Isopropyltoluene	U		0.00501	0.00982	1	02/10/2024 06:53	WG2223745
2-Butanone (MEK)	U		0.125	0.196	1	02/10/2024 06:53	WG2223745
Methylene Chloride	U		0.0130	0.0491	1	02/10/2024 06:53	WG2223745

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Methyl-2-pentanone (MIBK)	U		0.00448	0.0491	1	02/10/2024 06:53	WG2223745
Methyl tert-butyl ether	U		0.000688	0.00196	1	02/10/2024 06:53	WG2223745
Naphthalene	U		0.00959	0.0246	1	02/10/2024 06:53	WG2223745
n-Propylbenzene	U		0.00187	0.00982	1	02/10/2024 06:53	WG2223745
Styrene	U		0.000450	0.0246	1	02/10/2024 06:53	WG2223745
1,1,1,2-Tetrachloroethane	U		0.00186	0.00491	1	02/10/2024 06:53	WG2223745
1,1,2,2-Tetrachloroethane	U		0.00137	0.00491	1	02/10/2024 06:53	WG2223745
1,1,2-Trichlorotrifluoroethane	U		0.00148	0.00491	1	02/10/2024 06:53	WG2223745
Tetrachloroethene	U		0.00176	0.00491	1	02/10/2024 06:53	WG2223745
Toluene	0.00385	J	0.00255	0.00982	1	02/10/2024 06:53	WG2223745
1,2,3-Trichlorobenzene	U		0.0144	0.0246	1	02/10/2024 06:53	WG2223745
1,2,4-Trichlorobenzene	U		0.00864	0.0246	1	02/10/2024 06:53	WG2223745
1,1,1-Trichloroethane	U		0.00181	0.00491	1	02/10/2024 06:53	WG2223745
1,1,2-Trichloroethane	U		0.00117	0.00491	1	02/10/2024 06:53	WG2223745
Trichloroethene	U		0.00115	0.00196	1	02/10/2024 06:53	WG2223745
Trichlorofluoromethane	U		0.00162	0.00491	1	02/10/2024 06:53	WG2223745
1,2,3-Trichloropropane	U		0.00318	0.0246	1	02/10/2024 06:53	WG2223745
1,2,4-Trimethylbenzene	U		0.00310	0.00982	1	02/10/2024 06:53	WG2223745
1,2,3-Trimethylbenzene	U		0.00310	0.00982	1	02/10/2024 06:53	WG2223745
1,3,5-Trimethylbenzene	U		0.00393	0.00982	1	02/10/2024 06:53	WG2223745
Vinyl chloride	U		0.00228	0.00491	1	02/10/2024 06:53	WG2223745
Xylenes, Total	0.483		0.00173	0.0128	1	02/10/2024 06:53	WG2223745
(S) Toluene-d8	103			75.0-131		02/10/2024 06:53	WG2223745
(S) 4-Bromofluorobenzene	108			67.0-138		02/10/2024 06:53	WG2223745
(S) 1,2-Dichloroethane-d4	105			70.0-130		02/10/2024 06:53	WG2223745

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	6.19		1.93	5.80	1	02/07/2024 15:03	WG2221313
Residual Range Organics (RRO)	U		4.82	14.5	1	02/07/2024 15:03	WG2221313
(S) o-Terphenyl	44.4			18.0-148		02/07/2024 15:03	WG2221313

Sample Narrative:

L1701988-08 WG2221313: Sample does not resemble laboratory standards.

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.8		1	02/07/2024 08:18	WG2220758

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Cadmium	U		0.119	1.39	5	02/06/2024 19:17	WG2220616
Chromium	50.5		0.412	6.97	5	02/06/2024 19:17	WG2220616
Lead	13.6		0.138	2.79	5	02/06/2024 19:17	WG2220616

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	26.2		1.52	4.49	25	02/07/2024 21:23	WG2221650
(S) a,a,a-Trifluorotoluene(FID)	94.5			77.0-120		02/07/2024 21:23	WG2221650

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0655	0.0898	1	02/10/2024 00:45	WG2223659
Acrylonitrile	U		0.00648	0.0224	1	02/10/2024 00:45	WG2223659
Benzene	U		0.000839	0.00180	1	02/10/2024 00:45	WG2223659
Bromobenzene	U		0.00162	0.0224	1	02/10/2024 00:45	WG2223659
Bromodichloromethane	U		0.00130	0.00449	1	02/10/2024 00:45	WG2223659
Bromoform	U		0.00210	0.0449	1	02/10/2024 00:45	WG2223659
Bromomethane	U		0.00354	0.0224	1	02/10/2024 00:45	WG2223659
n-Butylbenzene	U		0.00943	0.0224	1	02/10/2024 00:45	WG2223659
sec-Butylbenzene	U		0.00517	0.0224	1	02/10/2024 00:45	WG2223659
tert-Butylbenzene	U	C3	0.00350	0.00898	1	02/10/2024 00:45	WG2223659
Carbon disulfide	U	C3	0.00126	0.0224	1	02/10/2024 00:45	WG2223659
Carbon tetrachloride	U		0.00161	0.00898	1	02/10/2024 00:45	WG2223659
Chlorobenzene	U		0.000377	0.00449	1	02/10/2024 00:45	WG2223659
Chlorodibromomethane	U		0.00110	0.00449	1	02/10/2024 00:45	WG2223659
Chloroethane	U		0.00305	0.00898	1	02/10/2024 00:45	WG2223659
Chloroform	U		0.00185	0.00449	1	02/10/2024 00:45	WG2223659
Chloromethane	U		0.00781	0.0224	1	02/10/2024 00:45	WG2223659
2-Chlorotoluene	U		0.00155	0.00449	1	02/10/2024 00:45	WG2223659
4-Chlorotoluene	U		0.000808	0.00898	1	02/10/2024 00:45	WG2223659
1,2-Dibromo-3-Chloropropane	U		0.00700	0.0449	1	02/10/2024 00:45	WG2223659
1,2-Dibromoethane	U		0.00116	0.00449	1	02/10/2024 00:45	WG2223659
Dibromomethane	U		0.00135	0.00898	1	02/10/2024 00:45	WG2223659
1,2-Dichlorobenzene	U		0.000763	0.00898	1	02/10/2024 00:45	WG2223659
1,3-Dichlorobenzene	U		0.00108	0.00898	1	02/10/2024 00:45	WG2223659
1,4-Dichlorobenzene	U		0.00126	0.00898	1	02/10/2024 00:45	WG2223659
Dichlorodifluoromethane	U		0.00289	0.00898	1	02/10/2024 00:45	WG2223659
1,1-Dichloroethane	U		0.000882	0.00449	1	02/10/2024 00:45	WG2223659
1,2-Dichloroethane	U		0.00117	0.00449	1	02/10/2024 00:45	WG2223659
1,1-Dichloroethene	U		0.00109	0.00449	1	02/10/2024 00:45	WG2223659
cis-1,2-Dichloroethene	U		0.00132	0.00449	1	02/10/2024 00:45	WG2223659
trans-1,2-Dichloroethene	U		0.00187	0.00898	1	02/10/2024 00:45	WG2223659
1,2-Dichloropropane	U		0.00255	0.00898	1	02/10/2024 00:45	WG2223659
1,1-Dichloropropene	U		0.00145	0.00449	1	02/10/2024 00:45	WG2223659
1,3-Dichloropropane	U		0.000900	0.00898	1	02/10/2024 00:45	WG2223659
cis-1,3-Dichloropropene	U		0.00136	0.00449	1	02/10/2024 00:45	WG2223659
trans-1,3-Dichloropropene	U		0.00205	0.00898	1	02/10/2024 00:45	WG2223659

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

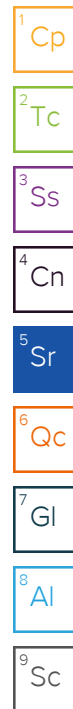
7 Gl

8 Al

9 Sc

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,2-Dichloropropane	U		0.00248	0.00449	1	02/10/2024 00:45	WG2223659
Di-isopropyl ether	U		0.000736	0.00180	1	02/10/2024 00:45	WG2223659
Ethylbenzene	U		0.00132	0.00449	1	02/10/2024 00:45	WG2223659
Hexachloro-1,3-butadiene	U		0.0108	0.0449	1	02/10/2024 00:45	WG2223659
Isopropylbenzene	U		0.000763	0.00449	1	02/10/2024 00:45	WG2223659
p-Isopropyltoluene	U		0.00458	0.00898	1	02/10/2024 00:45	WG2223659
2-Butanone (MEK)	U	J3	0.114	0.180	1	02/10/2024 00:45	WG2223659
Methylene Chloride	U		0.0119	0.0449	1	02/10/2024 00:45	WG2223659
4-Methyl-2-pentanone (MIBK)	U		0.00409	0.0449	1	02/10/2024 00:45	WG2223659
Methyl tert-butyl ether	U		0.000628	0.00180	1	02/10/2024 00:45	WG2223659
Naphthalene	U		0.00876	0.0224	1	02/10/2024 00:45	WG2223659
n-Propylbenzene	U		0.00171	0.00898	1	02/10/2024 00:45	WG2223659
Styrene	U		0.000411	0.0224	1	02/10/2024 00:45	WG2223659
1,1,1,2-Tetrachloroethane	U		0.00170	0.00449	1	02/10/2024 00:45	WG2223659
1,1,2,2-Tetrachloroethane	U		0.00125	0.00449	1	02/10/2024 00:45	WG2223659
1,1,2-Trichlorotrifluoroethane	U		0.00135	0.00449	1	02/10/2024 00:45	WG2223659
Tetrachloroethene	U		0.00161	0.00449	1	02/10/2024 00:45	WG2223659
Toluene	0.00440	J	0.00233	0.00898	1	02/10/2024 00:45	WG2223659
1,2,3-Trichlorobenzene	U		0.0132	0.0224	1	02/10/2024 00:45	WG2223659
1,2,4-Trichlorobenzene	U		0.00790	0.0224	1	02/10/2024 00:45	WG2223659
1,1,1-Trichloroethane	U		0.00166	0.00449	1	02/10/2024 00:45	WG2223659
1,1,2-Trichloroethane	U		0.00107	0.00449	1	02/10/2024 00:45	WG2223659
Trichloroethene	U		0.00105	0.00180	1	02/10/2024 00:45	WG2223659
Trichlorofluoromethane	U		0.00148	0.00449	1	02/10/2024 00:45	WG2223659
1,2,3-Trichloropropane	U		0.00291	0.0224	1	02/10/2024 00:45	WG2223659
1,2,4-Trimethylbenzene	U		0.00284	0.00898	1	02/10/2024 00:45	WG2223659
1,2,3-Trimethylbenzene	U		0.00284	0.00898	1	02/10/2024 00:45	WG2223659
1,3,5-Trimethylbenzene	U		0.00359	0.00898	1	02/10/2024 00:45	WG2223659
Vinyl chloride	U	C3 J3	0.00208	0.00449	1	02/10/2024 00:45	WG2223659
Xylenes, Total	U		0.00158	0.0117	1	02/10/2024 00:45	WG2223659
(S) Toluene-d8	95.9			75.0-131		02/10/2024 00:45	WG2223659
(S) 4-Bromofluorobenzene	95.3			67.0-138		02/10/2024 00:45	WG2223659
(S) 1,2-Dichloroethane-d4	91.6			70.0-130		02/10/2024 00:45	WG2223659



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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	2.49	J	1.85	5.57	1	02/07/2024 15:03	WG2221313
Residual Range Organics (RRO)	U		4.64	13.9	1	02/07/2024 15:03	WG2221313
(S) o-Terphenyl	47.6			18.0-148		02/07/2024 15:03	WG2221313

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00320	0.00836	1	02/08/2024 03:52	WG2220596
Acenaphthene	U		0.00291	0.00836	1	02/08/2024 03:52	WG2220596
Acenaphthylene	U		0.00301	0.00836	1	02/08/2024 03:52	WG2220596
Benzo(a)anthracene	U		0.00241	0.00836	1	02/08/2024 03:52	WG2220596
Benzo(a)pyrene	U		0.00249	0.00836	1	02/08/2024 03:52	WG2220596
Benzo(b)fluoranthene	U		0.00213	0.00836	1	02/08/2024 03:52	WG2220596
Benzo(g,h,i)perylene	U		0.00247	0.00836	1	02/08/2024 03:52	WG2220596
Benzo(k)fluoranthene	U		0.00300	0.00836	1	02/08/2024 03:52	WG2220596
Chrysene	U		0.00323	0.00836	1	02/08/2024 03:52	WG2220596
Dibenz(a,h)anthracene	U		0.00240	0.00836	1	02/08/2024 03:52	WG2220596
Fluoranthene	U		0.00316	0.00836	1	02/08/2024 03:52	WG2220596

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluorene	U		0.00286	0.00836	1	02/08/2024 03:52	WG2220596
Indeno(1,2,3-cd)pyrene	U		0.00252	0.00836	1	02/08/2024 03:52	WG2220596
Naphthalene	U		0.00569	0.0279	1	02/08/2024 03:52	WG2220596
Phenanthrene	U		0.00322	0.00836	1	02/08/2024 03:52	WG2220596
Pyrene	U		0.00279	0.00836	1	02/08/2024 03:52	WG2220596
1-Methylnaphthalene	U		0.00626	0.0279	1	02/08/2024 03:52	WG2220596
2-Methylnaphthalene	U		0.00595	0.0279	1	02/08/2024 03:52	WG2220596
2-Chloronaphthalene	U		0.00649	0.0279	1	02/08/2024 03:52	WG2220596
(S) p-Terphenyl-d14	92.4			23.0-120		02/08/2024 03:52	WG2220596
(S) Nitrobenzene-d5	93.8			14.0-149		02/08/2024 03:52	WG2220596
(S) 2-Fluorobiphenyl	78.0			34.0-125		02/08/2024 03:52	WG2220596

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.4		1	02/07/2024 08:18	WG2220758

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Cadmium	0.273	J	0.112	1.31	5	02/06/2024 19:38	WG2220616
Chromium	45.8		0.388	6.55	5	02/06/2024 19:38	WG2220616
Lead	44.9		0.130	2.62	5	02/06/2024 19:38	WG2220616

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	6.77	B	1.42	4.19	25	02/07/2024 21:46	WG2221650
(S) a,a,a-Trifluorotoluene(FID)	93.5			77.0-120		02/07/2024 21:46	WG2221650

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	38.6		8.71	26.2	5	02/07/2024 16:41	WG2221313
Residual Range Organics (RRO)	207		21.7	65.5	5	02/07/2024 16:41	WG2221313
(S) o-Terphenyl	48.0			18.0-148		02/07/2024 16:41	WG2221313

Sample Narrative:

L1701988-13 WG2221313: Sample resembles laboratory standard for Hydraulic Oil.

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	0.0223		0.00301	0.00786	1	02/08/2024 06:10	WG2220596
Acenaphthene	0.00475	J	0.00274	0.00786	1	02/08/2024 06:10	WG2220596
Acenaphthylene	0.0261		0.00283	0.00786	1	02/08/2024 06:10	WG2220596
Benzo(a)anthracene	0.129		0.00227	0.00786	1	02/08/2024 06:10	WG2220596
Benzo(a)pyrene	0.306		0.00234	0.00786	1	02/08/2024 06:10	WG2220596
Benzo(b)fluoranthene	0.189		0.00200	0.00786	1	02/08/2024 06:10	WG2220596
Benzo(g,h,i)perylene	0.302		0.00232	0.00786	1	02/08/2024 06:10	WG2220596
Benzo(k)fluoranthene	0.0551		0.00282	0.00786	1	02/08/2024 06:10	WG2220596
Chrysene	0.120		0.00304	0.00786	1	02/08/2024 06:10	WG2220596
Dibenz(a,h)anthracene	0.0267		0.00225	0.00786	1	02/08/2024 06:10	WG2220596
Fluoranthene	0.182		0.00297	0.00786	1	02/08/2024 06:10	WG2220596
Fluorene	0.00657	J	0.00268	0.00786	1	02/08/2024 06:10	WG2220596
Indeno(1,2,3-cd)pyrene	0.301		0.00237	0.00786	1	02/08/2024 06:10	WG2220596
Naphthalene	0.0481		0.00534	0.0262	1	02/08/2024 06:10	WG2220596
Phenanthrene	0.0612		0.00302	0.00786	1	02/08/2024 06:10	WG2220596
Pyrene	0.242		0.00262	0.00786	1	02/08/2024 06:10	WG2220596
1-Methylnaphthalene	0.0115	J	0.00588	0.0262	1	02/08/2024 06:10	WG2220596
2-Methylnaphthalene	0.0212	J	0.00559	0.0262	1	02/08/2024 06:10	WG2220596
2-Chloronaphthalene	U		0.00610	0.0262	1	02/08/2024 06:10	WG2220596
(S) p-Terphenyl-d14	71.3			23.0-120		02/08/2024 06:10	WG2220596
(S) Nitrobenzene-d5	83.7			14.0-149		02/08/2024 06:10	WG2220596
(S) 2-Fluorobiphenyl	70.5			34.0-125		02/08/2024 06:10	WG2220596

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	68.3		1	02/07/2024 08:18	WG2220758

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	68.6		1.70	5.01	25	02/07/2024 22:09	WG2221650
(S) a,a,a-Trifluorotoluene(FID)	91.6			77.0-120		02/07/2024 22:09	WG2221650

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0732	0.100	1	02/10/2024 01:06	WG2223659
Acrylonitrile	U		0.00724	0.0251	1	02/10/2024 01:06	WG2223659
Benzene	U		0.000937	0.00201	1	02/10/2024 01:06	WG2223659
Bromobenzene	U		0.00181	0.0251	1	02/10/2024 01:06	WG2223659
Bromodichloromethane	U		0.00145	0.00501	1	02/10/2024 01:06	WG2223659
Bromoform	U		0.00235	0.0501	1	02/10/2024 01:06	WG2223659
Bromomethane	U		0.00395	0.0251	1	02/10/2024 01:06	WG2223659
n-Butylbenzene	0.0211	J	0.0105	0.0251	1	02/10/2024 01:06	WG2223659
sec-Butylbenzene	0.0750		0.00578	0.0251	1	02/10/2024 01:06	WG2223659
tert-Butylbenzene	U	C3	0.00391	0.0100	1	02/10/2024 01:06	WG2223659
Carbon disulfide	U	C3	0.00140	0.0251	1	02/10/2024 01:06	WG2223659
Carbon tetrachloride	U		0.00180	0.0100	1	02/10/2024 01:06	WG2223659
Chlorobenzene	U		0.000421	0.00501	1	02/10/2024 01:06	WG2223659
Chlorodibromomethane	U		0.00123	0.00501	1	02/10/2024 01:06	WG2223659
Chloroethane	U		0.00341	0.0100	1	02/10/2024 01:06	WG2223659
Chloroform	U		0.00207	0.00501	1	02/10/2024 01:06	WG2223659
Chloromethane	U		0.00873	0.0251	1	02/10/2024 01:06	WG2223659
2-Chlorotoluene	U		0.00174	0.00501	1	02/10/2024 01:06	WG2223659
4-Chlorotoluene	U		0.000903	0.0100	1	02/10/2024 01:06	WG2223659
1,2-Dibromo-3-Chloropropane	U		0.00782	0.0501	1	02/10/2024 01:06	WG2223659
1,2-Dibromoethane	U		0.00130	0.00501	1	02/10/2024 01:06	WG2223659
Dibromomethane	U		0.00150	0.0100	1	02/10/2024 01:06	WG2223659
1,2-Dichlorobenzene	U		0.000852	0.0100	1	02/10/2024 01:06	WG2223659
1,3-Dichlorobenzene	U		0.00120	0.0100	1	02/10/2024 01:06	WG2223659
1,4-Dichlorobenzene	U		0.00140	0.0100	1	02/10/2024 01:06	WG2223659
Dichlorodifluoromethane	U		0.00323	0.0100	1	02/10/2024 01:06	WG2223659
1,1-Dichloroethane	U		0.000985	0.00501	1	02/10/2024 01:06	WG2223659
1,2-Dichloroethane	U		0.00130	0.00501	1	02/10/2024 01:06	WG2223659
1,1-Dichloroethene	U		0.00122	0.00501	1	02/10/2024 01:06	WG2223659
cis-1,2-Dichloroethene	U		0.00147	0.00501	1	02/10/2024 01:06	WG2223659
trans-1,2-Dichloroethene	U		0.00209	0.0100	1	02/10/2024 01:06	WG2223659
1,2-Dichloropropane	U		0.00285	0.0100	1	02/10/2024 01:06	WG2223659
1,1-Dichloropropene	U		0.00162	0.00501	1	02/10/2024 01:06	WG2223659
1,3-Dichloropropane	U		0.00100	0.0100	1	02/10/2024 01:06	WG2223659
cis-1,3-Dichloropropene	U		0.00152	0.00501	1	02/10/2024 01:06	WG2223659
trans-1,3-Dichloropropene	U		0.00229	0.0100	1	02/10/2024 01:06	WG2223659
2,2-Dichloropropane	U		0.00277	0.00501	1	02/10/2024 01:06	WG2223659
Di-isopropyl ether	U		0.000822	0.00201	1	02/10/2024 01:06	WG2223659
Ethylbenzene	U		0.00148	0.00501	1	02/10/2024 01:06	WG2223659
Hexachloro-1,3-butadiene	U		0.0120	0.0501	1	02/10/2024 01:06	WG2223659
Isopropylbenzene	0.0113		0.000852	0.00501	1	02/10/2024 01:06	WG2223659
p-Isopropyltoluene	0.00734	J	0.00511	0.0100	1	02/10/2024 01:06	WG2223659
2-Butanone (MEK)	U	J3	0.127	0.201	1	02/10/2024 01:06	WG2223659
Methylene Chloride	U		0.0133	0.0501	1	02/10/2024 01:06	WG2223659

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Methyl-2-pentanone (MIBK)	U		0.00457	0.0501	1	02/10/2024 01:06	WG2223659
Methyl tert-butyl ether	U		0.000702	0.00201	1	02/10/2024 01:06	WG2223659
Naphthalene	U		0.00979	0.0251	1	02/10/2024 01:06	WG2223659
n-Propylbenzene	0.0423		0.00191	0.0100	1	02/10/2024 01:06	WG2223659
Styrene	U		0.000459	0.0251	1	02/10/2024 01:06	WG2223659
1,1,1,2-Tetrachloroethane	U		0.00190	0.00501	1	02/10/2024 01:06	WG2223659
1,1,2,2-Tetrachloroethane	U		0.00139	0.00501	1	02/10/2024 01:06	WG2223659
1,1,2-Trichlorotrifluoroethane	U		0.00151	0.00501	1	02/10/2024 01:06	WG2223659
Tetrachloroethene	U		0.00180	0.00501	1	02/10/2024 01:06	WG2223659
Toluene	0.00457	U	0.00261	0.0100	1	02/10/2024 01:06	WG2223659
1,2,3-Trichlorobenzene	U		0.0147	0.0251	1	02/10/2024 01:06	WG2223659
1,2,4-Trichlorobenzene	U		0.00883	0.0251	1	02/10/2024 01:06	WG2223659
1,1,1-Trichloroethane	U		0.00185	0.00501	1	02/10/2024 01:06	WG2223659
1,1,2-Trichloroethane	U		0.00120	0.00501	1	02/10/2024 01:06	WG2223659
Trichloroethene	U		0.00117	0.00201	1	02/10/2024 01:06	WG2223659
Trichlorofluoromethane	U		0.00166	0.00501	1	02/10/2024 01:06	WG2223659
1,2,3-Trichloropropane	U		0.00325	0.0251	1	02/10/2024 01:06	WG2223659
1,2,4-Trimethylbenzene	0.00375	U	0.00317	0.0100	1	02/10/2024 01:06	WG2223659
1,2,3-Trimethylbenzene	U		0.00317	0.0100	1	02/10/2024 01:06	WG2223659
1,3,5-Trimethylbenzene	0.00405	U	0.00401	0.0100	1	02/10/2024 01:06	WG2223659
Vinyl chloride	U	C3 J3	0.00233	0.00501	1	02/10/2024 01:06	WG2223659
Xylenes, Total	0.00540	U	0.00177	0.0130	1	02/10/2024 01:06	WG2223659
(S) Toluene-d8	100			75.0-131		02/10/2024 01:06	WG2223659
(S) 4-Bromofluorobenzene	94.2			67.0-138		02/10/2024 01:06	WG2223659
(S) 1,2-Dichloroethane-d4	81.8			70.0-130		02/10/2024 01:06	WG2223659

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	253	U	195	586	100	02/07/2024 16:55	WG2221313
Residual Range Organics (RRO)	3940		488	1470	100	02/07/2024 16:55	WG2221313
(S) o-Terphenyl	62.5	J7		18.0-148		02/07/2024 16:55	WG2221313

Sample Narrative:

L1701988-15 WG2221313: Sample resembles laboratory standard for Hydraulic Oil.

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.0302		0.00337	0.00879	1	02/09/2024 01:36	WG2220596
Acenaphthene	0.0174		0.00306	0.00879	1	02/09/2024 01:36	WG2220596
Acenaphthylene	0.0133		0.00316	0.00879	1	02/09/2024 01:36	WG2220596
Benzo(a)anthracene	0.146		0.00253	0.00879	1	02/09/2024 01:36	WG2220596
Benzo(a)pyrene	0.131		0.00262	0.00879	1	02/09/2024 01:36	WG2220596
Benzo(b)fluoranthene	0.135		0.00224	0.00879	1	02/09/2024 01:36	WG2220596
Benzo(g,h,i)perylene	0.133		0.00259	0.00879	1	02/09/2024 01:36	WG2220596
Benzo(k)fluoranthene	0.0312		0.00315	0.00879	1	02/09/2024 01:36	WG2220596
Chrysene	0.160		0.00340	0.00879	1	02/09/2024 01:36	WG2220596
Dibenz(a,h)anthracene	0.0520		0.00252	0.00879	1	02/09/2024 01:36	WG2220596
Fluoranthene	0.202		0.00333	0.00879	1	02/09/2024 01:36	WG2220596
Fluorene	0.0223		0.00300	0.00879	1	02/09/2024 01:36	WG2220596
Indeno(1,2,3-cd)pyrene	0.0713		0.00265	0.00879	1	02/09/2024 01:36	WG2220596
Naphthalene	0.0268	U	0.00598	0.0293	1	02/09/2024 01:36	WG2220596
Phenanthrene	0.144		0.00338	0.00879	1	02/09/2024 01:36	WG2220596
Pyrene	0.218		0.00293	0.00879	1	02/09/2024 01:36	WG2220596

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1-Methylnaphthalene	0.0398		0.00658	0.0293	1	02/09/2024 01:36	WG2220596
2-Methylnaphthalene	0.0226	J	0.00626	0.0293	1	02/09/2024 01:36	WG2220596
2-Chloronaphthalene	U		0.00683	0.0293	1	02/09/2024 01:36	WG2220596
(S) p-Terphenyl-d14	80.0			23.0-120		02/09/2024 01:36	WG2220596
(S) Nitrobenzene-d5	98.4			14.0-149		02/09/2024 01:36	WG2220596
(S) 2-Fluorobiphenyl	91.7			34.0-125		02/09/2024 01:36	WG2220596

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.0		1	02/07/2024 08:18	WG2220758

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Cadmium	U		0.120	1.41	5	02/06/2024 19:41	WG2220616
Chromium	55.2		0.417	7.04	5	02/06/2024 19:41	WG2220616
Lead	14.7		0.139	2.82	5	02/06/2024 19:41	WG2220616

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	448		15.7	46.3	250	02/08/2024 21:39	WG2222586
(S) a,a,a-Trifluorotoluene(FID)	94.3			77.0-120		02/08/2024 21:39	WG2222586

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0676	0.0926	1	02/10/2024 01:28	WG2223659
Acrylonitrile	U		0.00669	0.0232	1	02/10/2024 01:28	WG2223659
Benzene	U		0.000865	0.00185	1	02/10/2024 01:28	WG2223659
Bromobenzene	U		0.00167	0.0232	1	02/10/2024 01:28	WG2223659
Bromodichloromethane	U		0.00134	0.00463	1	02/10/2024 01:28	WG2223659
Bromoform	U		0.00217	0.0463	1	02/10/2024 01:28	WG2223659
Bromomethane	U		0.00365	0.0232	1	02/10/2024 01:28	WG2223659
n-Butylbenzene	U		0.00972	0.0232	1	02/10/2024 01:28	WG2223659
sec-Butylbenzene	0.0522		0.00533	0.0232	1	02/10/2024 01:28	WG2223659
tert-Butylbenzene	U	C3	0.00361	0.00926	1	02/10/2024 01:28	WG2223659
Carbon disulfide	U	C3	0.00130	0.0232	1	02/10/2024 01:28	WG2223659
Carbon tetrachloride	U		0.00166	0.00926	1	02/10/2024 01:28	WG2223659
Chlorobenzene	U		0.000389	0.00463	1	02/10/2024 01:28	WG2223659
Chlorodibromomethane	U		0.00113	0.00463	1	02/10/2024 01:28	WG2223659
Chloroethane	U		0.00315	0.00926	1	02/10/2024 01:28	WG2223659
Chloroform	U		0.00191	0.00463	1	02/10/2024 01:28	WG2223659
Chloromethane	U		0.00806	0.0232	1	02/10/2024 01:28	WG2223659
2-Chlorotoluene	U		0.00160	0.00463	1	02/10/2024 01:28	WG2223659
4-Chlorotoluene	U		0.000833	0.00926	1	02/10/2024 01:28	WG2223659
1,2-Dibromo-3-Chloropropane	U		0.00722	0.0463	1	02/10/2024 01:28	WG2223659
1,2-Dibromoethane	U		0.00120	0.00463	1	02/10/2024 01:28	WG2223659
Dibromomethane	U		0.00139	0.00926	1	02/10/2024 01:28	WG2223659
1,2-Dichlorobenzene	U		0.000787	0.00926	1	02/10/2024 01:28	WG2223659
1,3-Dichlorobenzene	U		0.00111	0.00926	1	02/10/2024 01:28	WG2223659
1,4-Dichlorobenzene	U		0.00130	0.00926	1	02/10/2024 01:28	WG2223659
Dichlorodifluoromethane	U		0.00298	0.00926	1	02/10/2024 01:28	WG2223659
1,1-Dichloroethane	U		0.000909	0.00463	1	02/10/2024 01:28	WG2223659
1,2-Dichloroethane	U		0.00120	0.00463	1	02/10/2024 01:28	WG2223659
1,1-Dichloroethene	U		0.00112	0.00463	1	02/10/2024 01:28	WG2223659
cis-1,2-Dichloroethene	U		0.00136	0.00463	1	02/10/2024 01:28	WG2223659
trans-1,2-Dichloroethene	U		0.00193	0.00926	1	02/10/2024 01:28	WG2223659
1,2-Dichloropropane	U		0.00263	0.00926	1	02/10/2024 01:28	WG2223659
1,1-Dichloropropene	U		0.00150	0.00463	1	02/10/2024 01:28	WG2223659
1,3-Dichloropropane	U		0.000928	0.00926	1	02/10/2024 01:28	WG2223659
cis-1,3-Dichloropropene	U		0.00140	0.00463	1	02/10/2024 01:28	WG2223659
trans-1,3-Dichloropropene	U		0.00211	0.00926	1	02/10/2024 01:28	WG2223659

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,2-Dichloropropane	U		0.00256	0.00463	1	02/10/2024 01:28	WG2223659
Di-isopropyl ether	U		0.000759	0.00185	1	02/10/2024 01:28	WG2223659
Ethylbenzene	0.00320	J	0.00137	0.00463	1	02/10/2024 01:28	WG2223659
Hexachloro-1,3-butadiene	U		0.0111	0.0463	1	02/10/2024 01:28	WG2223659
Isopropylbenzene	U		0.000787	0.00463	1	02/10/2024 01:28	WG2223659
p-Isopropyltoluene	U		0.00472	0.00926	1	02/10/2024 01:28	WG2223659
2-Butanone (MEK)	U	J3	0.118	0.185	1	02/10/2024 01:28	WG2223659
Methylene Chloride	U		0.0123	0.0463	1	02/10/2024 01:28	WG2223659
4-Methyl-2-pentanone (MIBK)	U		0.00422	0.0463	1	02/10/2024 01:28	WG2223659
Methyl tert-butyl ether	U		0.000648	0.00185	1	02/10/2024 01:28	WG2223659
Naphthalene	U		0.00904	0.0232	1	02/10/2024 01:28	WG2223659
n-Propylbenzene	U		0.00176	0.00926	1	02/10/2024 01:28	WG2223659
Styrene	U		0.000424	0.0232	1	02/10/2024 01:28	WG2223659
1,1,1,2-Tetrachloroethane	U		0.00176	0.00463	1	02/10/2024 01:28	WG2223659
1,1,2,2-Tetrachloroethane	U		0.00129	0.00463	1	02/10/2024 01:28	WG2223659
1,1,2-Trichlorotrifluoroethane	U		0.00140	0.00463	1	02/10/2024 01:28	WG2223659
Tetrachloroethene	U		0.00166	0.00463	1	02/10/2024 01:28	WG2223659
Toluene	0.00387	J	0.00241	0.00926	1	02/10/2024 01:28	WG2223659
1,2,3-Trichlorobenzene	U		0.0136	0.0232	1	02/10/2024 01:28	WG2223659
1,2,4-Trichlorobenzene	U		0.00815	0.0232	1	02/10/2024 01:28	WG2223659
1,1,1-Trichloroethane	U		0.00171	0.00463	1	02/10/2024 01:28	WG2223659
1,1,2-Trichloroethane	U		0.00111	0.00463	1	02/10/2024 01:28	WG2223659
Trichloroethene	U		0.00108	0.00185	1	02/10/2024 01:28	WG2223659
Trichlorofluoromethane	U		0.00153	0.00463	1	02/10/2024 01:28	WG2223659
1,2,3-Trichloropropane	U		0.00300	0.0232	1	02/10/2024 01:28	WG2223659
1,2,4-Trimethylbenzene	U		0.00293	0.00926	1	02/10/2024 01:28	WG2223659
1,2,3-Trimethylbenzene	U		0.00293	0.00926	1	02/10/2024 01:28	WG2223659
1,3,5-Trimethylbenzene	U		0.00370	0.00926	1	02/10/2024 01:28	WG2223659
Vinyl chloride	U	C3 J3	0.00215	0.00463	1	02/10/2024 01:28	WG2223659
Xylenes, Total	U		0.00163	0.0120	1	02/10/2024 01:28	WG2223659
(S) Toluene-d8	132	J1		75.0-131		02/10/2024 01:28	WG2223659
(S) 4-Bromofluorobenzene	866	J1		67.0-138		02/10/2024 01:28	WG2223659
(S) 1,2-Dichloroethane-d4	78.8			70.0-130		02/10/2024 01:28	WG2223659

Sample Narrative:
L1701988-19 WG2223659: Surrogate failure due to matrix interference.

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	40.7		9.36	28.2	5	02/07/2024 16:41	WG2221313
Residual Range Organics (RRO)	78.3		23.4	70.4	5	02/07/2024 16:41	WG2221313
(S) o-Terphenyl	33.8			18.0-148		02/07/2024 16:41	WG2221313

Sample Narrative:
L1701988-19 WG2221313: Sample resembles laboratory standard for Fuel Oil #6.

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00324	0.00845	1	02/08/2024 04:12	WG2220596
Acenaphthene	U		0.00294	0.00845	1	02/08/2024 04:12	WG2220596
Acenaphthylene	U		0.00304	0.00845	1	02/08/2024 04:12	WG2220596
Benzo(a)anthracene	U		0.00244	0.00845	1	02/08/2024 04:12	WG2220596
Benzo(a)pyrene	U		0.00252	0.00845	1	02/08/2024 04:12	WG2220596

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(b)fluoranthene	U		0.00215	0.00845	1	02/08/2024 04:12	WG2220596
Benzo(g,h,i)perylene	U		0.00249	0.00845	1	02/08/2024 04:12	WG2220596
Benzo(k)fluoranthene	U		0.00303	0.00845	1	02/08/2024 04:12	WG2220596
Chrysene	U		0.00327	0.00845	1	02/08/2024 04:12	WG2220596
Dibenz(a,h)anthracene	U		0.00242	0.00845	1	02/08/2024 04:12	WG2220596
Fluoranthene	U		0.00320	0.00845	1	02/08/2024 04:12	WG2220596
Fluorene	0.00367	U	0.00289	0.00845	1	02/08/2024 04:12	WG2220596
Indeno(1,2,3-cd)pyrene	U		0.00255	0.00845	1	02/08/2024 04:12	WG2220596
Naphthalene	U		0.00574	0.0282	1	02/08/2024 04:12	WG2220596
Phenanthrene	U		0.00325	0.00845	1	02/08/2024 04:12	WG2220596
Pyrene	0.00383	U	0.00282	0.00845	1	02/08/2024 04:12	WG2220596
1-Methylnaphthalene	U		0.00632	0.0282	1	02/08/2024 04:12	WG2220596
2-Methylnaphthalene	U		0.00601	0.0282	1	02/08/2024 04:12	WG2220596
2-Chloronaphthalene	U		0.00656	0.0282	1	02/08/2024 04:12	WG2220596
(S) p-Terphenyl-d14	86.9			23.0-120		02/08/2024 04:12	WG2220596
(S) Nitrobenzene-d5	197	U1		14.0-149		02/08/2024 04:12	WG2220596
(S) 2-Fluorobiphenyl	75.8			34.0-125		02/08/2024 04:12	WG2220596

Sample Narrative:

L1701988-19 WG2220596: Surrogate failure due to matrix interference

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	72.7		1	02/07/2024 08:18	WG2220758

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	16.9		1.63	4.82	28.2	02/08/2024 20:40	WG2222586
(S) a,a,a-Trifluorotoluene(FID)	95.5			77.0-120		02/08/2024 20:40	WG2222586

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0704	0.0965	1.13	02/10/2024 01:49	WG2223659
Acrylonitrile	U		0.00697	0.0241	1.13	02/10/2024 01:49	WG2223659
Benzene	U		0.000902	0.00193	1.13	02/10/2024 01:49	WG2223659
Bromobenzene	U		0.00174	0.0241	1.13	02/10/2024 01:49	WG2223659
Bromodichloromethane	U		0.00140	0.00483	1.13	02/10/2024 01:49	WG2223659
Bromoform	U		0.00225	0.0483	1.13	02/10/2024 01:49	WG2223659
Bromomethane	U		0.00381	0.0241	1.13	02/10/2024 01:49	WG2223659
n-Butylbenzene	U		0.0101	0.0241	1.13	02/10/2024 01:49	WG2223659
sec-Butylbenzene	U		0.00555	0.0241	1.13	02/10/2024 01:49	WG2223659
tert-Butylbenzene	U	C3	0.00376	0.00965	1.13	02/10/2024 01:49	WG2223659
Carbon disulfide	U	C3	0.00135	0.0241	1.13	02/10/2024 01:49	WG2223659
Carbon tetrachloride	U		0.00172	0.00965	1.13	02/10/2024 01:49	WG2223659
Chlorobenzene	U		0.000405	0.00483	1.13	02/10/2024 01:49	WG2223659
Chlorodibromomethane	U		0.00118	0.00483	1.13	02/10/2024 01:49	WG2223659
Chloroethane	U		0.00328	0.00965	1.13	02/10/2024 01:49	WG2223659
Chloroform	U		0.00198	0.00483	1.13	02/10/2024 01:49	WG2223659
Chloromethane	U		0.00840	0.0241	1.13	02/10/2024 01:49	WG2223659
2-Chlorotoluene	U		0.00167	0.00483	1.13	02/10/2024 01:49	WG2223659
4-Chlorotoluene	U		0.000869	0.00965	1.13	02/10/2024 01:49	WG2223659
1,2-Dibromo-3-Chloropropane	U		0.00753	0.0483	1.13	02/10/2024 01:49	WG2223659
1,2-Dibromoethane	U		0.00125	0.00483	1.13	02/10/2024 01:49	WG2223659
Dibromomethane	U		0.00145	0.00965	1.13	02/10/2024 01:49	WG2223659
1,2-Dichlorobenzene	U		0.000820	0.00965	1.13	02/10/2024 01:49	WG2223659
1,3-Dichlorobenzene	U		0.00116	0.00965	1.13	02/10/2024 01:49	WG2223659
1,4-Dichlorobenzene	U		0.00135	0.00965	1.13	02/10/2024 01:49	WG2223659
Dichlorodifluoromethane	U		0.00311	0.00965	1.13	02/10/2024 01:49	WG2223659
1,1-Dichloroethane	U		0.000948	0.00483	1.13	02/10/2024 01:49	WG2223659
1,2-Dichloroethane	U		0.00125	0.00483	1.13	02/10/2024 01:49	WG2223659
1,1-Dichloroethene	U		0.00117	0.00483	1.13	02/10/2024 01:49	WG2223659
cis-1,2-Dichloroethene	U		0.00142	0.00483	1.13	02/10/2024 01:49	WG2223659
trans-1,2-Dichloroethene	U		0.00202	0.00965	1.13	02/10/2024 01:49	WG2223659
1,2-Dichloropropane	U		0.00273	0.00965	1.13	02/10/2024 01:49	WG2223659
1,1-Dichloropropene	U		0.00156	0.00483	1.13	02/10/2024 01:49	WG2223659
1,3-Dichloropropane	U		0.000967	0.00965	1.13	02/10/2024 01:49	WG2223659
cis-1,3-Dichloropropene	U		0.00146	0.00483	1.13	02/10/2024 01:49	WG2223659
trans-1,3-Dichloropropene	U		0.00220	0.00965	1.13	02/10/2024 01:49	WG2223659
2,2-Dichloropropane	U		0.00266	0.00483	1.13	02/10/2024 01:49	WG2223659
Di-isopropyl ether	U		0.000791	0.00193	1.13	02/10/2024 01:49	WG2223659
Ethylbenzene	U		0.00142	0.00483	1.13	02/10/2024 01:49	WG2223659
Hexachloro-1,3-butadiene	U		0.0116	0.0483	1.13	02/10/2024 01:49	WG2223659
Isopropylbenzene	U		0.000820	0.00483	1.13	02/10/2024 01:49	WG2223659
p-Isopropyltoluene	U		0.00492	0.00965	1.13	02/10/2024 01:49	WG2223659
2-Butanone (MEK)	U	J3	0.123	0.193	1.13	02/10/2024 01:49	WG2223659
Methylene Chloride	0.0139	J	0.0128	0.0483	1.13	02/10/2024 01:49	WG2223659

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Methyl-2-pentanone (MIBK)	U		0.00441	0.0483	1.13	02/10/2024 01:49	WG2223659
Methyl tert-butyl ether	U		0.000676	0.00193	1.13	02/10/2024 01:49	WG2223659
Naphthalene	U		0.00941	0.0241	1.13	02/10/2024 01:49	WG2223659
n-Propylbenzene	U		0.00183	0.00965	1.13	02/10/2024 01:49	WG2223659
Styrene	U		0.000442	0.0241	1.13	02/10/2024 01:49	WG2223659
1,1,1,2-Tetrachloroethane	U		0.00183	0.00483	1.13	02/10/2024 01:49	WG2223659
1,1,2,2-Tetrachloroethane	U		0.00134	0.00483	1.13	02/10/2024 01:49	WG2223659
1,1,2-Trichlorotrifluoroethane	U		0.00146	0.00483	1.13	02/10/2024 01:49	WG2223659
Tetrachloroethene	U		0.00172	0.00483	1.13	02/10/2024 01:49	WG2223659
Toluene	0.00372	J	0.00251	0.00965	1.13	02/10/2024 01:49	WG2223659
1,2,3-Trichlorobenzene	U		0.0141	0.0241	1.13	02/10/2024 01:49	WG2223659
1,2,4-Trichlorobenzene	U		0.00849	0.0241	1.13	02/10/2024 01:49	WG2223659
1,1,1-Trichloroethane	U		0.00178	0.00483	1.13	02/10/2024 01:49	WG2223659
1,1,2-Trichloroethane	U		0.00115	0.00483	1.13	02/10/2024 01:49	WG2223659
Trichloroethene	U		0.00113	0.00193	1.13	02/10/2024 01:49	WG2223659
Trichlorofluoromethane	U		0.00160	0.00483	1.13	02/10/2024 01:49	WG2223659
1,2,3-Trichloropropane	U		0.00313	0.0241	1.13	02/10/2024 01:49	WG2223659
1,2,4-Trimethylbenzene	U		0.00306	0.00965	1.13	02/10/2024 01:49	WG2223659
1,2,3-Trimethylbenzene	U		0.00306	0.00965	1.13	02/10/2024 01:49	WG2223659
1,3,5-Trimethylbenzene	U		0.00386	0.00965	1.13	02/10/2024 01:49	WG2223659
Vinyl chloride	U	C3 J3	0.00224	0.00483	1.13	02/10/2024 01:49	WG2223659
Xylenes, Total	0.00362	J	0.00170	0.0126	1.13	02/10/2024 01:49	WG2223659
(S) Toluene-d8	101			75.0-131		02/10/2024 01:49	WG2223659
(S) 4-Bromofluorobenzene	111			67.0-138		02/10/2024 01:49	WG2223659
(S) 1,2-Dichloroethane-d4	85.8			70.0-130		02/10/2024 01:49	WG2223659

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	38.8	J	18.3	55.0	10	02/07/2024 16:55	WG2221313
Residual Range Organics (RRO)	415		45.8	138	10	02/07/2024 16:55	WG2221313
(S) o-Terphenyl	24.8			18.0-148		02/07/2024 16:55	WG2221313

Sample Narrative:

L1701988-20 WG2221313: Sample resembles laboratory standard for Hydraulic Oil.

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.3		1	02/07/2024 08:18	WG2220758

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Cadmium	U		0.114	1.33	5	02/06/2024 19:44	WG2220616
Chromium	56.1		0.393	6.64	5	02/06/2024 19:44	WG2220616
Lead	13.4		0.132	2.66	5	02/06/2024 19:44	WG2220616

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	689		5.71	16.8	100	02/08/2024 09:18	WG2222190
(S) a,a,a-Trifluorotoluene(FID)	94.8			77.0-120		02/08/2024 09:18	WG2222190

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.492	0.674	8	02/10/2024 07:12	WG2223659
Acrylonitrile	U		0.0487	0.168	8	02/10/2024 07:12	WG2223659
Benzene	U		0.00630	0.0135	8	02/10/2024 07:12	WG2223659
Bromobenzene	U		0.0121	0.168	8	02/10/2024 07:12	WG2223659
Bromodichloromethane	U		0.00977	0.0337	8	02/10/2024 07:12	WG2223659
Bromoform	U		0.0158	0.337	8	02/10/2024 07:12	WG2223659
Bromomethane	U		0.0266	0.168	8	02/10/2024 07:12	WG2223659
n-Butylbenzene	U		0.0707	0.168	8	02/10/2024 07:12	WG2223659
sec-Butylbenzene	0.0413		0.0387	0.168	8	02/10/2024 07:12	WG2223659
tert-Butylbenzene	U		0.0263	0.0674	8	02/10/2024 07:12	WG2223659
Carbon disulfide	U		0.00943	0.168	8	02/10/2024 07:12	WG2223659
Carbon tetrachloride	U		0.0121	0.0674	8	02/10/2024 07:12	WG2223659
Chlorobenzene	U		0.00283	0.0337	8	02/10/2024 07:12	WG2223659
Chlorodibromomethane	U		0.00825	0.0337	8	02/10/2024 07:12	WG2223659
Chloroethane	U		0.0229	0.0674	8	02/10/2024 07:12	WG2223659
Chloroform	U		0.0139	0.0337	8	02/10/2024 07:12	WG2223659
Chloromethane	U		0.0586	0.168	8	02/10/2024 07:12	WG2223659
2-Chlorotoluene	U		0.0117	0.0337	8	02/10/2024 07:12	WG2223659
4-Chlorotoluene	U		0.00606	0.0674	8	02/10/2024 07:12	WG2223659
1,2-Dibromo-3-Chloropropane	U		0.0526	0.337	8	02/10/2024 07:12	WG2223659
1,2-Dibromoethane	U		0.00872	0.0337	8	02/10/2024 07:12	WG2223659
Dibromomethane	U		0.0101	0.0674	8	02/10/2024 07:12	WG2223659
1,2-Dichlorobenzene	U		0.00573	0.0674	8	02/10/2024 07:12	WG2223659
1,3-Dichlorobenzene	U		0.00808	0.0674	8	02/10/2024 07:12	WG2223659
1,4-Dichlorobenzene	U		0.00943	0.0674	8	02/10/2024 07:12	WG2223659
Dichlorodifluoromethane	U		0.0217	0.0674	8	02/10/2024 07:12	WG2223659
1,1-Dichloroethane	U		0.00662	0.0337	8	02/10/2024 07:12	WG2223659
1,2-Dichloroethane	U		0.00874	0.0337	8	02/10/2024 07:12	WG2223659
1,1-Dichloroethene	U		0.00817	0.0337	8	02/10/2024 07:12	WG2223659
cis-1,2-Dichloroethene	U		0.00989	0.0337	8	02/10/2024 07:12	WG2223659
trans-1,2-Dichloroethene	U		0.0140	0.0674	8	02/10/2024 07:12	WG2223659
1,2-Dichloropropane	U		0.0192	0.0674	8	02/10/2024 07:12	WG2223659
1,1-Dichloropropene	U		0.0109	0.0337	8	02/10/2024 07:12	WG2223659
1,3-Dichloropropane	U		0.00675	0.0674	8	02/10/2024 07:12	WG2223659
cis-1,3-Dichloropropene	U		0.0102	0.0337	8	02/10/2024 07:12	WG2223659
trans-1,3-Dichloropropene	U		0.0154	0.0674	8	02/10/2024 07:12	WG2223659

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,2-Dichloropropane	U		0.0185	0.0337	8	02/10/2024 07:12	WG2223659
Di-isopropyl ether	U		0.00552	0.0135	8	02/10/2024 07:12	WG2223659
Ethylbenzene	U		0.00994	0.0337	8	02/10/2024 07:12	WG2223659
Hexachloro-1,3-butadiene	U		0.0808	0.337	8	02/10/2024 07:12	WG2223659
Isopropylbenzene	U		0.00573	0.0337	8	02/10/2024 07:12	WG2223659
p-Isopropyltoluene	U		0.0344	0.0674	8	02/10/2024 07:12	WG2223659
2-Butanone (MEK)	U	J3	0.856	1.35	8	02/10/2024 07:12	WG2223659
Methylene Chloride	U		0.0894	0.337	8	02/10/2024 07:12	WG2223659
4-Methyl-2-pentanone (MIBK)	U		0.0307	0.337	8	02/10/2024 07:12	WG2223659
Methyl tert-butyl ether	U		0.00472	0.0135	8	02/10/2024 07:12	WG2223659
Naphthalene	0.0846	J	0.0657	0.168	8	02/10/2024 07:12	WG2223659
n-Propylbenzene	U		0.0128	0.0674	8	02/10/2024 07:12	WG2223659
Styrene	U		0.00308	0.168	8	02/10/2024 07:12	WG2223659
1,1,1,2-Tetrachloroethane	U		0.0128	0.0337	8	02/10/2024 07:12	WG2223659
1,1,2,2-Tetrachloroethane	U		0.00936	0.0337	8	02/10/2024 07:12	WG2223659
1,1,2-Trichlorotrifluoroethane	U		0.0102	0.0337	8	02/10/2024 07:12	WG2223659
Tetrachloroethene	U		0.0121	0.0337	8	02/10/2024 07:12	WG2223659
Toluene	U		0.0175	0.0674	8	02/10/2024 07:12	WG2223659
1,2,3-Trichlorobenzene	U		0.0987	0.168	8	02/10/2024 07:12	WG2223659
1,2,4-Trichlorobenzene	U		0.0593	0.168	8	02/10/2024 07:12	WG2223659
1,1,1-Trichloroethane	U		0.0124	0.0337	8	02/10/2024 07:12	WG2223659
1,1,2-Trichloroethane	U		0.00805	0.0337	8	02/10/2024 07:12	WG2223659
Trichloroethene	U		0.00787	0.0135	8	02/10/2024 07:12	WG2223659
Trichlorofluoromethane	U		0.0112	0.0337	8	02/10/2024 07:12	WG2223659
1,2,3-Trichloropropane	U		0.0219	0.168	8	02/10/2024 07:12	WG2223659
1,2,4-Trimethylbenzene	U		0.0212	0.0674	8	02/10/2024 07:12	WG2223659
1,2,3-Trimethylbenzene	U		0.0212	0.0674	8	02/10/2024 07:12	WG2223659
1,3,5-Trimethylbenzene	U		0.0269	0.0674	8	02/10/2024 07:12	WG2223659
Vinyl chloride	U	C3 J3	0.0156	0.0337	8	02/10/2024 07:12	WG2223659
Xylenes, Total	U		0.0119	0.0876	8	02/10/2024 07:12	WG2223659
(S) Toluene-d8	95.6			75.0-131		02/10/2024 07:12	WG2223659
(S) 4-Bromofluorobenzene	179	J1		67.0-138		02/10/2024 07:12	WG2223659
(S) 1,2-Dichloroethane-d4	89.8			70.0-130		02/10/2024 07:12	WG2223659

Sample Narrative:

L1701988-22 WG2223659: Non-target compounds too high to run at a lower dilution.

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	35.1		1.77	5.31	1	02/07/2024 16:13	WG2221313
Residual Range Organics (RRO)	58.7		4.42	13.3	1	02/07/2024 16:13	WG2221313
(S) o-Terphenyl	35.0			18.0-148		02/07/2024 16:13	WG2221313

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00306	0.00797	1	02/08/2024 04:32	WG2220596
Acenaphthene	U		0.00278	0.00797	1	02/08/2024 04:32	WG2220596
Acenaphthylene	U		0.00287	0.00797	1	02/08/2024 04:32	WG2220596
Benzo(a)anthracene	U		0.00230	0.00797	1	02/08/2024 04:32	WG2220596
Benzo(a)pyrene	U		0.00238	0.00797	1	02/08/2024 04:32	WG2220596
Benzo(b)fluoranthene	U		0.00203	0.00797	1	02/08/2024 04:32	WG2220596
Benzo(g,h,i)perylene	U		0.00235	0.00797	1	02/08/2024 04:32	WG2220596
Benzo(k)fluoranthene	U		0.00286	0.00797	1	02/08/2024 04:32	WG2220596

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chrysene	U		0.00308	0.00797	1	02/08/2024 04:32	WG2220596
Dibenz(a,h)anthracene	U		0.00229	0.00797	1	02/08/2024 04:32	WG2220596
Fluoranthene	U		0.00302	0.00797	1	02/08/2024 04:32	WG2220596
Fluorene	U		0.00272	0.00797	1	02/08/2024 04:32	WG2220596
Indeno(1,2,3-cd)pyrene	U		0.00240	0.00797	1	02/08/2024 04:32	WG2220596
Naphthalene	U		0.00542	0.0266	1	02/08/2024 04:32	WG2220596
Phenanthrene	U		0.00307	0.00797	1	02/08/2024 04:32	WG2220596
Pyrene	U		0.00266	0.00797	1	02/08/2024 04:32	WG2220596
1-Methylnaphthalene	U		0.00597	0.0266	1	02/08/2024 04:32	WG2220596
2-Methylnaphthalene	U		0.00567	0.0266	1	02/08/2024 04:32	WG2220596
2-Chloronaphthalene	U		0.00619	0.0266	1	02/08/2024 04:32	WG2220596
(S) p-Terphenyl-d14	83.4			23.0-120		02/08/2024 04:32	WG2220596
(S) Nitrobenzene-d5	137			14.0-149		02/08/2024 04:32	WG2220596
(S) 2-Fluorobiphenyl	74.7			34.0-125		02/08/2024 04:32	WG2220596

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	74.5		1	02/06/2024 17:08	WG2220759

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	2.00	<u>J</u>	1.47	4.33	25.8	02/08/2024 21:00	WG2222741
(S) a,a,a-Trifluorotoluene(FID)	95.9			77.0-120		02/08/2024 21:00	WG2222741

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0631	0.0864	1.03	02/10/2024 02:10	WG2223659
Acrylonitrile	U		0.00624	0.0216	1.03	02/10/2024 02:10	WG2223659
Benzene	U		0.000807	0.00173	1.03	02/10/2024 02:10	WG2223659
Bromobenzene	U		0.00156	0.0216	1.03	02/10/2024 02:10	WG2223659
Bromodichloromethane	U		0.00125	0.00433	1.03	02/10/2024 02:10	WG2223659
Bromoform	U		0.00203	0.0433	1.03	02/10/2024 02:10	WG2223659
Bromomethane	U		0.00341	0.0216	1.03	02/10/2024 02:10	WG2223659
n-Butylbenzene	U		0.00908	0.0216	1.03	02/10/2024 02:10	WG2223659
sec-Butylbenzene	U		0.00498	0.0216	1.03	02/10/2024 02:10	WG2223659
tert-Butylbenzene	U	<u>C3</u>	0.00337	0.00864	1.03	02/10/2024 02:10	WG2223659
Carbon disulfide	U	<u>C3</u>	0.00121	0.0216	1.03	02/10/2024 02:10	WG2223659
Carbon tetrachloride	U		0.00155	0.00864	1.03	02/10/2024 02:10	WG2223659
Chlorobenzene	U		0.000362	0.00433	1.03	02/10/2024 02:10	WG2223659
Chlorodibromomethane	U		0.00106	0.00433	1.03	02/10/2024 02:10	WG2223659
Chloroethane	U		0.00294	0.00864	1.03	02/10/2024 02:10	WG2223659
Chloroform	U		0.00178	0.00433	1.03	02/10/2024 02:10	WG2223659
Chloromethane	U		0.00752	0.0216	1.03	02/10/2024 02:10	WG2223659
2-Chlorotoluene	U		0.00149	0.00433	1.03	02/10/2024 02:10	WG2223659
4-Chlorotoluene	U		0.000778	0.00864	1.03	02/10/2024 02:10	WG2223659
1,2-Dibromo-3-Chloropropane	U		0.00674	0.0433	1.03	02/10/2024 02:10	WG2223659
1,2-Dibromoethane	U		0.00112	0.00433	1.03	02/10/2024 02:10	WG2223659
Dibromomethane	U		0.00130	0.00864	1.03	02/10/2024 02:10	WG2223659
1,2-Dichlorobenzene	U		0.000735	0.00864	1.03	02/10/2024 02:10	WG2223659
1,3-Dichlorobenzene	U		0.00104	0.00864	1.03	02/10/2024 02:10	WG2223659
1,4-Dichlorobenzene	U		0.00121	0.00864	1.03	02/10/2024 02:10	WG2223659
Dichlorodifluoromethane	U		0.00278	0.00864	1.03	02/10/2024 02:10	WG2223659
1,1-Dichloroethane	U		0.000849	0.00433	1.03	02/10/2024 02:10	WG2223659
1,2-Dichloroethane	U		0.00112	0.00433	1.03	02/10/2024 02:10	WG2223659
1,1-Dichloroethene	U		0.00105	0.00433	1.03	02/10/2024 02:10	WG2223659
cis-1,2-Dichloroethene	U		0.00127	0.00433	1.03	02/10/2024 02:10	WG2223659
trans-1,2-Dichloroethene	U		0.00180	0.00864	1.03	02/10/2024 02:10	WG2223659
1,2-Dichloropropane	U		0.00245	0.00864	1.03	02/10/2024 02:10	WG2223659
1,1-Dichloropropene	U		0.00140	0.00433	1.03	02/10/2024 02:10	WG2223659
1,3-Dichloropropane	U		0.000866	0.00864	1.03	02/10/2024 02:10	WG2223659
cis-1,3-Dichloropropene	U		0.00131	0.00433	1.03	02/10/2024 02:10	WG2223659
trans-1,3-Dichloropropene	U		0.00196	0.00864	1.03	02/10/2024 02:10	WG2223659
2,2-Dichloropropane	U		0.00238	0.00433	1.03	02/10/2024 02:10	WG2223659
Di-isopropyl ether	U		0.000708	0.00173	1.03	02/10/2024 02:10	WG2223659
Ethylbenzene	0.0125		0.00127	0.00433	1.03	02/10/2024 02:10	WG2223659
Hexachloro-1,3-butadiene	U		0.0104	0.0433	1.03	02/10/2024 02:10	WG2223659
Isopropylbenzene	U		0.000735	0.00433	1.03	02/10/2024 02:10	WG2223659
p-Isopropyltoluene	U		0.00441	0.00864	1.03	02/10/2024 02:10	WG2223659
2-Butanone (MEK)	U	<u>J3</u>	0.110	0.173	1.03	02/10/2024 02:10	WG2223659
Methylene Chloride	0.0125	<u>J</u>	0.0115	0.0433	1.03	02/10/2024 02:10	WG2223659

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Methyl-2-pentanone (MIBK)	U		0.00394	0.0433	1.03	02/10/2024 02:10	WG2223659
Methyl tert-butyl ether	U		0.000606	0.00173	1.03	02/10/2024 02:10	WG2223659
Naphthalene	U		0.00844	0.0216	1.03	02/10/2024 02:10	WG2223659
n-Propylbenzene	U		0.00164	0.00864	1.03	02/10/2024 02:10	WG2223659
Styrene	U		0.000396	0.0216	1.03	02/10/2024 02:10	WG2223659
1,1,1,2-Tetrachloroethane	U		0.00164	0.00433	1.03	02/10/2024 02:10	WG2223659
1,1,2,2-Tetrachloroethane	U		0.00120	0.00433	1.03	02/10/2024 02:10	WG2223659
1,1,2-Trichlorotrifluoroethane	U		0.00130	0.00433	1.03	02/10/2024 02:10	WG2223659
Tetrachloroethene	U		0.00155	0.00433	1.03	02/10/2024 02:10	WG2223659
Toluene	0.00502	U	0.00225	0.00864	1.03	02/10/2024 02:10	WG2223659
1,2,3-Trichlorobenzene	U		0.0127	0.0216	1.03	02/10/2024 02:10	WG2223659
1,2,4-Trichlorobenzene	U		0.00760	0.0216	1.03	02/10/2024 02:10	WG2223659
1,1,1-Trichloroethane	U		0.00160	0.00433	1.03	02/10/2024 02:10	WG2223659
1,1,2-Trichloroethane	U		0.00103	0.00433	1.03	02/10/2024 02:10	WG2223659
Trichloroethene	U		0.00101	0.00173	1.03	02/10/2024 02:10	WG2223659
Trichlorofluoromethane	U		0.00143	0.00433	1.03	02/10/2024 02:10	WG2223659
1,2,3-Trichloropropane	U		0.00280	0.0216	1.03	02/10/2024 02:10	WG2223659
1,2,4-Trimethylbenzene	U		0.00273	0.00864	1.03	02/10/2024 02:10	WG2223659
1,2,3-Trimethylbenzene	U		0.00273	0.00864	1.03	02/10/2024 02:10	WG2223659
1,3,5-Trimethylbenzene	U		0.00346	0.00864	1.03	02/10/2024 02:10	WG2223659
Vinyl chloride	U	C3 J3	0.00200	0.00433	1.03	02/10/2024 02:10	WG2223659
Xylenes, Total	0.0810		0.00152	0.0112	1.03	02/10/2024 02:10	WG2223659
(S) Toluene-d8	99.4			75.0-131		02/10/2024 02:10	WG2223659
(S) 4-Bromofluorobenzene	94.9			67.0-138		02/10/2024 02:10	WG2223659
(S) 1,2-Dichloroethane-d4	81.4			70.0-130		02/10/2024 02:10	WG2223659

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	6.46		1.79	5.37	1	02/07/2024 15:59	WG2221313
Residual Range Organics (RRO)	111		4.47	13.4	1	02/07/2024 15:59	WG2221313
(S) o-Terphenyl	33.7			18.0-148		02/07/2024 15:59	WG2221313

Sample Narrative:
L1701988-25 WG2221313: Sample resembles laboratory standard for Hydraulic Oil.

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00309	0.00806	1	02/08/2024 05:31	WG2220596
Acenaphthene	U		0.00281	0.00806	1	02/08/2024 05:31	WG2220596
Acenaphthylene	U		0.00290	0.00806	1	02/08/2024 05:31	WG2220596
Benzo(a)anthracene	0.00334	U	0.00232	0.00806	1	02/08/2024 05:31	WG2220596
Benzo(a)pyrene	0.00318	U	0.00240	0.00806	1	02/08/2024 05:31	WG2220596
Benzo(b)fluoranthene	0.00247	U	0.00205	0.00806	1	02/08/2024 05:31	WG2220596
Benzo(g,h,i)perylene	0.00384	U	0.00238	0.00806	1	02/08/2024 05:31	WG2220596
Benzo(k)fluoranthene	U		0.00289	0.00806	1	02/08/2024 05:31	WG2220596
Chrysene	0.00369	U	0.00312	0.00806	1	02/08/2024 05:31	WG2220596
Dibenz(a,h)anthracene	U		0.00231	0.00806	1	02/08/2024 05:31	WG2220596
Fluoranthene	U		0.00305	0.00806	1	02/08/2024 05:31	WG2220596
Fluorene	U		0.00275	0.00806	1	02/08/2024 05:31	WG2220596
Indeno(1,2,3-cd)pyrene	U		0.00243	0.00806	1	02/08/2024 05:31	WG2220596
Naphthalene	U		0.00548	0.0269	1	02/08/2024 05:31	WG2220596
Phenanthrene	U		0.00310	0.00806	1	02/08/2024 05:31	WG2220596
Pyrene	0.00328	U	0.00269	0.00806	1	02/08/2024 05:31	WG2220596

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1-Methylnaphthalene	U		0.00603	0.0269	1	02/08/2024 05:31	WG2220596
2-Methylnaphthalene	U		0.00574	0.0269	1	02/08/2024 05:31	WG2220596
2-Chloronaphthalene	U		0.00626	0.0269	1	02/08/2024 05:31	WG2220596
(S) p-Terphenyl-d14	80.7			23.0-120		02/08/2024 05:31	WG2220596
(S) Nitrobenzene-d5	88.4			14.0-149		02/08/2024 05:31	WG2220596
(S) 2-Fluorobiphenyl	73.4			34.0-125		02/08/2024 05:31	WG2220596

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.2		1	02/06/2024 17:08	WG2220759

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	7.63		1.58	4.67	28.2	02/08/2024 21:19	WG2222741
(S) a,a,a-Trifluorotoluene(FID)	97.1			77.0-120		02/08/2024 21:19	WG2222741

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0682	0.0936	1.13	02/10/2024 02:31	WG2223659
Acrylonitrile	U		0.00676	0.0233	1.13	02/10/2024 02:31	WG2223659
Benzene	U		0.000874	0.00187	1.13	02/10/2024 02:31	WG2223659
Bromobenzene	U		0.00169	0.0233	1.13	02/10/2024 02:31	WG2223659
Bromodichloromethane	U		0.00136	0.00469	1.13	02/10/2024 02:31	WG2223659
Bromoform	U		0.00219	0.0469	1.13	02/10/2024 02:31	WG2223659
Bromomethane	U		0.00369	0.0233	1.13	02/10/2024 02:31	WG2223659
n-Butylbenzene	U		0.00982	0.0233	1.13	02/10/2024 02:31	WG2223659
sec-Butylbenzene	U		0.00538	0.0233	1.13	02/10/2024 02:31	WG2223659
tert-Butylbenzene	U	C3	0.00364	0.00936	1.13	02/10/2024 02:31	WG2223659
Carbon disulfide	U	C3	0.00131	0.0233	1.13	02/10/2024 02:31	WG2223659
Carbon tetrachloride	U		0.00167	0.00936	1.13	02/10/2024 02:31	WG2223659
Chlorobenzene	U		0.000392	0.00469	1.13	02/10/2024 02:31	WG2223659
Chlorodibromomethane	U		0.00115	0.00469	1.13	02/10/2024 02:31	WG2223659
Chloroethane	U		0.00318	0.00936	1.13	02/10/2024 02:31	WG2223659
Chloroform	U		0.00192	0.00469	1.13	02/10/2024 02:31	WG2223659
Chloromethane	U		0.00815	0.0233	1.13	02/10/2024 02:31	WG2223659
2-Chlorotoluene	U		0.00162	0.00469	1.13	02/10/2024 02:31	WG2223659
4-Chlorotoluene	U		0.000843	0.00936	1.13	02/10/2024 02:31	WG2223659
1,2-Dibromo-3-Chloropropane	U		0.00730	0.0469	1.13	02/10/2024 02:31	WG2223659
1,2-Dibromoethane	U		0.00121	0.00469	1.13	02/10/2024 02:31	WG2223659
Dibromomethane	U		0.00140	0.00936	1.13	02/10/2024 02:31	WG2223659
1,2-Dichlorobenzene	U		0.000795	0.00936	1.13	02/10/2024 02:31	WG2223659
1,3-Dichlorobenzene	U		0.00112	0.00936	1.13	02/10/2024 02:31	WG2223659
1,4-Dichlorobenzene	U		0.00131	0.00936	1.13	02/10/2024 02:31	WG2223659
Dichlorodifluoromethane	U		0.00301	0.00936	1.13	02/10/2024 02:31	WG2223659
1,1-Dichloroethane	U		0.000919	0.00469	1.13	02/10/2024 02:31	WG2223659
1,2-Dichloroethane	U		0.00121	0.00469	1.13	02/10/2024 02:31	WG2223659
1,1-Dichloroethene	U		0.00113	0.00469	1.13	02/10/2024 02:31	WG2223659
cis-1,2-Dichloroethene	U		0.00137	0.00469	1.13	02/10/2024 02:31	WG2223659
trans-1,2-Dichloroethene	U		0.00195	0.00936	1.13	02/10/2024 02:31	WG2223659
1,2-Dichloropropane	U		0.00265	0.00936	1.13	02/10/2024 02:31	WG2223659
1,1-Dichloropropene	U		0.00151	0.00469	1.13	02/10/2024 02:31	WG2223659
1,3-Dichloropropane	U		0.000937	0.00936	1.13	02/10/2024 02:31	WG2223659
cis-1,3-Dichloropropene	U		0.00142	0.00469	1.13	02/10/2024 02:31	WG2223659
trans-1,3-Dichloropropene	U		0.00214	0.00936	1.13	02/10/2024 02:31	WG2223659
2,2-Dichloropropane	U		0.00258	0.00469	1.13	02/10/2024 02:31	WG2223659
Di-isopropyl ether	U		0.000767	0.00187	1.13	02/10/2024 02:31	WG2223659
Ethylbenzene	U		0.00138	0.00469	1.13	02/10/2024 02:31	WG2223659
Hexachloro-1,3-butadiene	U		0.0112	0.0469	1.13	02/10/2024 02:31	WG2223659
Isopropylbenzene	U		0.000795	0.00469	1.13	02/10/2024 02:31	WG2223659
p-Isopropyltoluene	U		0.00477	0.00936	1.13	02/10/2024 02:31	WG2223659
2-Butanone (MEK)	U	J3	0.119	0.187	1.13	02/10/2024 02:31	WG2223659
Methylene Chloride	0.0130	J	0.0124	0.0469	1.13	02/10/2024 02:31	WG2223659

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Methyl-2-pentanone (MIBK)	U		0.00427	0.0469	1.13	02/10/2024 02:31	WG2223659
Methyl tert-butyl ether	U		0.000656	0.00187	1.13	02/10/2024 02:31	WG2223659
Naphthalene	U		0.00912	0.0233	1.13	02/10/2024 02:31	WG2223659
n-Propylbenzene	U		0.00177	0.00936	1.13	02/10/2024 02:31	WG2223659
Styrene	U		0.000429	0.0233	1.13	02/10/2024 02:31	WG2223659
1,1,1,2-Tetrachloroethane	U		0.00177	0.00469	1.13	02/10/2024 02:31	WG2223659
1,1,2,2-Tetrachloroethane	U		0.00130	0.00469	1.13	02/10/2024 02:31	WG2223659
1,1,2-Trichlorotrifluoroethane	U		0.00141	0.00469	1.13	02/10/2024 02:31	WG2223659
Tetrachloroethene	U		0.00167	0.00469	1.13	02/10/2024 02:31	WG2223659
Toluene	0.00874	J	0.00243	0.00936	1.13	02/10/2024 02:31	WG2223659
1,2,3-Trichlorobenzene	U		0.0137	0.0233	1.13	02/10/2024 02:31	WG2223659
1,2,4-Trichlorobenzene	U		0.00823	0.0233	1.13	02/10/2024 02:31	WG2223659
1,1,1-Trichloroethane	U		0.00172	0.00469	1.13	02/10/2024 02:31	WG2223659
1,1,2-Trichloroethane	U		0.00112	0.00469	1.13	02/10/2024 02:31	WG2223659
Trichloroethene	U		0.00109	0.00187	1.13	02/10/2024 02:31	WG2223659
Trichlorofluoromethane	U		0.00155	0.00469	1.13	02/10/2024 02:31	WG2223659
1,2,3-Trichloropropane	U		0.00303	0.0233	1.13	02/10/2024 02:31	WG2223659
1,2,4-Trimethylbenzene	U		0.00296	0.00936	1.13	02/10/2024 02:31	WG2223659
1,2,3-Trimethylbenzene	U		0.00296	0.00936	1.13	02/10/2024 02:31	WG2223659
1,3,5-Trimethylbenzene	U		0.00374	0.00936	1.13	02/10/2024 02:31	WG2223659
Vinyl chloride	U	C3 J3	0.00217	0.00469	1.13	02/10/2024 02:31	WG2223659
Xylenes, Total	U		0.00165	0.0122	1.13	02/10/2024 02:31	WG2223659
(S) Toluene-d8	101			75.0-131		02/10/2024 02:31	WG2223659
(S) 4-Bromofluorobenzene	94.8			67.0-138		02/10/2024 02:31	WG2223659
(S) 1,2-Dichloroethane-d4	86.1			70.0-130		02/10/2024 02:31	WG2223659

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	8.50		1.79	5.39	1	02/07/2024 15:45	WG2221313
Residual Range Organics (RRO)	8.11	J	4.49	13.5	1	02/07/2024 15:45	WG2221313
(S) o-Terphenyl	38.5			18.0-148		02/07/2024 15:45	WG2221313

Sample Narrative:

L1701988-30 WG2221313: Sample does not resemble laboratory standards.

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.0		1	02/06/2024 17:08	WG2220759

Metals (ICPMS) by Method 6020B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Cadmium	0.109	J	0.108	1.27	5	02/06/2024 19:48	WG2220616
Chromium	50.7		0.375	6.33	5	02/06/2024 19:48	WG2220616
Lead	15.3		0.125	2.53	5	02/06/2024 19:48	WG2220616

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	565		5.42	16.0	100	02/09/2024 08:29	WG2222381
(S) a,a,a-Trifluorotoluene(FID)	90.1			77.0-120		02/09/2024 08:29	WG2222381

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.467	0.640	8	02/10/2024 07:34	WG2223659
Acrylonitrile	U		0.0462	0.160	8	02/10/2024 07:34	WG2223659
Benzene	U		0.00598	0.0128	8	02/10/2024 07:34	WG2223659
Bromobenzene	U		0.0115	0.160	8	02/10/2024 07:34	WG2223659
Bromodichloromethane	U		0.00928	0.0320	8	02/10/2024 07:34	WG2223659
Bromoform	U		0.0150	0.320	8	02/10/2024 07:34	WG2223659
Bromomethane	U		0.0253	0.160	8	02/10/2024 07:34	WG2223659
n-Butylbenzene	0.200		0.0672	0.160	8	02/10/2024 07:34	WG2223659
sec-Butylbenzene	0.270		0.0368	0.160	8	02/10/2024 07:34	WG2223659
tert-Butylbenzene	U	C3	0.0250	0.0640	8	02/10/2024 07:34	WG2223659
Carbon disulfide	U	C3	0.00896	0.160	8	02/10/2024 07:34	WG2223659
Carbon tetrachloride	U		0.0115	0.0640	8	02/10/2024 07:34	WG2223659
Chlorobenzene	U		0.00269	0.0320	8	02/10/2024 07:34	WG2223659
Chlorodibromomethane	U		0.00784	0.0320	8	02/10/2024 07:34	WG2223659
Chloroethane	U		0.0218	0.0640	8	02/10/2024 07:34	WG2223659
Chloroform	U		0.0132	0.0320	8	02/10/2024 07:34	WG2223659
Chloromethane	U		0.0557	0.160	8	02/10/2024 07:34	WG2223659
2-Chlorotoluene	U		0.0111	0.0320	8	02/10/2024 07:34	WG2223659
4-Chlorotoluene	U		0.00576	0.0640	8	02/10/2024 07:34	WG2223659
1,2-Dibromo-3-Chloropropane	U		0.0499	0.320	8	02/10/2024 07:34	WG2223659
1,2-Dibromoethane	U		0.00829	0.0320	8	02/10/2024 07:34	WG2223659
Dibromomethane	U		0.00960	0.0640	8	02/10/2024 07:34	WG2223659
1,2-Dichlorobenzene	U		0.00544	0.0640	8	02/10/2024 07:34	WG2223659
1,3-Dichlorobenzene	U		0.00768	0.0640	8	02/10/2024 07:34	WG2223659
1,4-Dichlorobenzene	U		0.00896	0.0640	8	02/10/2024 07:34	WG2223659
Dichlorodifluoromethane	U		0.0206	0.0640	8	02/10/2024 07:34	WG2223659
1,1-Dichloroethane	U		0.00629	0.0320	8	02/10/2024 07:34	WG2223659
1,2-Dichloroethane	U		0.00830	0.0320	8	02/10/2024 07:34	WG2223659
1,1-Dichloroethene	U		0.00776	0.0320	8	02/10/2024 07:34	WG2223659
cis-1,2-Dichloroethene	U		0.00939	0.0320	8	02/10/2024 07:34	WG2223659
trans-1,2-Dichloroethene	U		0.0133	0.0640	8	02/10/2024 07:34	WG2223659
1,2-Dichloropropane	U		0.0182	0.0640	8	02/10/2024 07:34	WG2223659
1,1-Dichloropropene	U		0.0103	0.0320	8	02/10/2024 07:34	WG2223659
1,3-Dichloropropane	U		0.00641	0.0640	8	02/10/2024 07:34	WG2223659
cis-1,3-Dichloropropene	U		0.00969	0.0320	8	02/10/2024 07:34	WG2223659
trans-1,3-Dichloropropene	U		0.0146	0.0640	8	02/10/2024 07:34	WG2223659

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,2-Dichloropropane	U		0.0176	0.0320	8	02/10/2024 07:34	WG2223659
Di-isopropyl ether	U		0.00525	0.0128	8	02/10/2024 07:34	WG2223659
Ethylbenzene	U		0.00944	0.0320	8	02/10/2024 07:34	WG2223659
Hexachloro-1,3-butadiene	U		0.0768	0.320	8	02/10/2024 07:34	WG2223659
Isopropylbenzene	U		0.00544	0.0320	8	02/10/2024 07:34	WG2223659
p-Isopropyltoluene	U		0.0326	0.0640	8	02/10/2024 07:34	WG2223659
2-Butanone (MEK)	U	J3	0.813	1.28	8	02/10/2024 07:34	WG2223659
Methylene Chloride	0.0867	J	0.0849	0.320	8	02/10/2024 07:34	WG2223659
4-Methyl-2-pentanone (MIBK)	U		0.0291	0.320	8	02/10/2024 07:34	WG2223659
Methyl tert-butyl ether	U		0.00448	0.0128	8	02/10/2024 07:34	WG2223659
Naphthalene	U		0.0624	0.160	8	02/10/2024 07:34	WG2223659
n-Propylbenzene	U		0.0122	0.0640	8	02/10/2024 07:34	WG2223659
Styrene	U		0.00293	0.160	8	02/10/2024 07:34	WG2223659
1,1,1,2-Tetrachloroethane	U		0.0121	0.0320	8	02/10/2024 07:34	WG2223659
1,1,2,2-Tetrachloroethane	U		0.00889	0.0320	8	02/10/2024 07:34	WG2223659
1,1,2-Trichlorotrifluoroethane	U		0.00964	0.0320	8	02/10/2024 07:34	WG2223659
Tetrachloroethene	U		0.0115	0.0320	8	02/10/2024 07:34	WG2223659
Toluene	U		0.0166	0.0640	8	02/10/2024 07:34	WG2223659
1,2,3-Trichlorobenzene	U		0.0937	0.160	8	02/10/2024 07:34	WG2223659
1,2,4-Trichlorobenzene	U		0.0563	0.160	8	02/10/2024 07:34	WG2223659
1,1,1-Trichloroethane	U		0.0118	0.0320	8	02/10/2024 07:34	WG2223659
1,1,2-Trichloroethane	U		0.00765	0.0320	8	02/10/2024 07:34	WG2223659
Trichloroethene	U		0.00747	0.0128	8	02/10/2024 07:34	WG2223659
Trichlorofluoromethane	U		0.0106	0.0320	8	02/10/2024 07:34	WG2223659
1,2,3-Trichloropropane	U		0.0208	0.160	8	02/10/2024 07:34	WG2223659
1,2,4-Trimethylbenzene	U		0.0202	0.0640	8	02/10/2024 07:34	WG2223659
1,2,3-Trimethylbenzene	U		0.0202	0.0640	8	02/10/2024 07:34	WG2223659
1,3,5-Trimethylbenzene	U		0.0256	0.0640	8	02/10/2024 07:34	WG2223659
Vinyl chloride	U	C3 J3	0.0148	0.0320	8	02/10/2024 07:34	WG2223659
Xylenes, Total	U		0.0113	0.0832	8	02/10/2024 07:34	WG2223659
(S) Toluene-d8	102			75.0-131		02/10/2024 07:34	WG2223659
(S) 4-Bromofluorobenzene	109			67.0-138		02/10/2024 07:34	WG2223659
(S) 1,2-Dichloroethane-d4	92.0			70.0-130		02/10/2024 07:34	WG2223659

Sample Narrative:

L1701988-31 WG2223659: Non-target compounds too high to run at a lower dilution.

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	43.1		1.68	5.06	1	02/07/2024 15:45	WG2221313
Residual Range Organics (RRO)	6.10	J	4.22	12.7	1	02/07/2024 15:45	WG2221313
(S) o-Terphenyl	43.2			18.0-148		02/07/2024 15:45	WG2221313

Sample Narrative:

L1701988-31 WG2221313: Sample resembles laboratory standard for Kerosene.

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00291	0.00760	1	02/08/2024 15:21	WG2221456
Acenaphthene	0.00379	J J3	0.00265	0.00760	1	02/08/2024 15:21	WG2221456
Acenaphthylene	U		0.00273	0.00760	1	02/08/2024 15:21	WG2221456
Benzo(a)anthracene	U		0.00219	0.00760	1	02/08/2024 15:21	WG2221456
Benzo(a)pyrene	U		0.00227	0.00760	1	02/08/2024 15:21	WG2221456

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzo(b)fluoranthene	U		0.00194	0.00760	1	02/08/2024 15:21	WG2221456
Benzo(g,h,i)perylene	U		0.00224	0.00760	1	02/08/2024 15:21	WG2221456
Benzo(k)fluoranthene	U		0.00272	0.00760	1	02/08/2024 15:21	WG2221456
Chrysene	U		0.00294	0.00760	1	02/08/2024 15:21	WG2221456
Dibenz(a,h)anthracene	U		0.00218	0.00760	1	02/08/2024 15:21	WG2221456
Fluoranthene	U		0.00287	0.00760	1	02/08/2024 15:21	WG2221456
Fluorene	0.00708	U	0.00260	0.00760	1	02/08/2024 15:21	WG2221456
Indeno(1,2,3-cd)pyrene	U		0.00229	0.00760	1	02/08/2024 15:21	WG2221456
Naphthalene	0.00539	U	0.00517	0.0253	1	02/08/2024 15:21	WG2221456
Phenanthrene	U		0.00292	0.00760	1	02/08/2024 15:21	WG2221456
Pyrene	U		0.00253	0.00760	1	02/08/2024 15:21	WG2221456
1-Methylnaphthalene	U	J3	0.00569	0.0253	1	02/08/2024 15:21	WG2221456
2-Methylnaphthalene	U	J3	0.00541	0.0253	1	02/08/2024 15:21	WG2221456
2-Chloronaphthalene	U		0.00590	0.0253	1	02/08/2024 15:21	WG2221456
(S) p-Terphenyl-d14	49.1			23.0-120		02/08/2024 15:21	WG2221456
(S) Nitrobenzene-d5	64.5			14.0-149		02/08/2024 15:21	WG2221456
(S) 2-Fluorobiphenyl	47.9			34.0-125		02/08/2024 15:21	WG2221456

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	72.0		1	02/06/2024 17:08	WG2220759

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	86.8		1.56	4.61	25	02/09/2024 04:00	WG222381
(S) a,a,a-Trifluorotoluene(FID)	88.7			77.0-120		02/09/2024 04:00	WG222381

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0673	0.0922	1	02/10/2024 02:53	WG2223659
Acrylonitrile	U		0.00666	0.0230	1	02/10/2024 02:53	WG2223659
Benzene	U		0.000861	0.00184	1	02/10/2024 02:53	WG2223659
Bromobenzene	U		0.00166	0.0230	1	02/10/2024 02:53	WG2223659
Bromodichloromethane	U		0.00134	0.00461	1	02/10/2024 02:53	WG2223659
Bromoform	U		0.00216	0.0461	1	02/10/2024 02:53	WG2223659
Bromomethane	U		0.00363	0.0230	1	02/10/2024 02:53	WG2223659
n-Butylbenzene	U		0.00968	0.0230	1	02/10/2024 02:53	WG2223659
sec-Butylbenzene	0.0134	1J	0.00531	0.0230	1	02/10/2024 02:53	WG2223659
tert-Butylbenzene	U	C3	0.00360	0.00922	1	02/10/2024 02:53	WG2223659
Carbon disulfide	U	C3	0.00129	0.0230	1	02/10/2024 02:53	WG2223659
Carbon tetrachloride	U		0.00166	0.00922	1	02/10/2024 02:53	WG2223659
Chlorobenzene	U		0.000387	0.00461	1	02/10/2024 02:53	WG2223659
Chlorodibromomethane	U		0.00113	0.00461	1	02/10/2024 02:53	WG2223659
Chloroethane	U		0.00313	0.00922	1	02/10/2024 02:53	WG2223659
Chloroform	U		0.00190	0.00461	1	02/10/2024 02:53	WG2223659
Chloromethane	U		0.00802	0.0230	1	02/10/2024 02:53	WG2223659
2-Chlorotoluene	U		0.00159	0.00461	1	02/10/2024 02:53	WG2223659
4-Chlorotoluene	U		0.000830	0.00922	1	02/10/2024 02:53	WG2223659
1,2-Dibromo-3-Chloropropane	U		0.00719	0.0461	1	02/10/2024 02:53	WG2223659
1,2-Dibromoethane	U		0.00119	0.00461	1	02/10/2024 02:53	WG2223659
Dibromomethane	U		0.00138	0.00922	1	02/10/2024 02:53	WG2223659
1,2-Dichlorobenzene	U		0.000784	0.00922	1	02/10/2024 02:53	WG2223659
1,3-Dichlorobenzene	U		0.00111	0.00922	1	02/10/2024 02:53	WG2223659
1,4-Dichlorobenzene	U		0.00129	0.00922	1	02/10/2024 02:53	WG2223659
Dichlorodifluoromethane	U		0.00297	0.00922	1	02/10/2024 02:53	WG2223659
1,1-Dichloroethane	U		0.000905	0.00461	1	02/10/2024 02:53	WG2223659
1,2-Dichloroethane	U		0.00120	0.00461	1	02/10/2024 02:53	WG2223659
1,1-Dichloroethene	U		0.00112	0.00461	1	02/10/2024 02:53	WG2223659
cis-1,2-Dichloroethene	U		0.00135	0.00461	1	02/10/2024 02:53	WG2223659
trans-1,2-Dichloroethene	U		0.00192	0.00922	1	02/10/2024 02:53	WG2223659
1,2-Dichloropropane	U		0.00262	0.00922	1	02/10/2024 02:53	WG2223659
1,1-Dichloropropene	U		0.00149	0.00461	1	02/10/2024 02:53	WG2223659
1,3-Dichloropropane	U		0.000924	0.00922	1	02/10/2024 02:53	WG2223659
cis-1,3-Dichloropropene	U		0.00140	0.00461	1	02/10/2024 02:53	WG2223659
trans-1,3-Dichloropropene	U		0.00210	0.00922	1	02/10/2024 02:53	WG2223659
2,2-Dichloropropane	U		0.00254	0.00461	1	02/10/2024 02:53	WG2223659
Di-isopropyl ether	U		0.000756	0.00184	1	02/10/2024 02:53	WG2223659
Ethylbenzene	U		0.00136	0.00461	1	02/10/2024 02:53	WG2223659
Hexachloro-1,3-butadiene	U		0.0111	0.0461	1	02/10/2024 02:53	WG2223659
Isopropylbenzene	U		0.000784	0.00461	1	02/10/2024 02:53	WG2223659
p-Isopropyltoluene	U		0.00470	0.00922	1	02/10/2024 02:53	WG2223659
2-Butanone (MEK)	U	J3	0.117	0.184	1	02/10/2024 02:53	WG2223659
Methylene Chloride	U		0.0122	0.0461	1	02/10/2024 02:53	WG2223659

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Methyl-2-pentanone (MIBK)	U		0.00420	0.0461	1	02/10/2024 02:53	WG2223659
Methyl tert-butyl ether	U		0.000645	0.00184	1	02/10/2024 02:53	WG2223659
Naphthalene	U		0.00900	0.0230	1	02/10/2024 02:53	WG2223659
n-Propylbenzene	U		0.00175	0.00922	1	02/10/2024 02:53	WG2223659
Styrene	U		0.000422	0.0230	1	02/10/2024 02:53	WG2223659
1,1,1,2-Tetrachloroethane	U		0.00175	0.00461	1	02/10/2024 02:53	WG2223659
1,1,2,2-Tetrachloroethane	U		0.00128	0.00461	1	02/10/2024 02:53	WG2223659
1,1,2-Trichlorotrifluoroethane	U		0.00139	0.00461	1	02/10/2024 02:53	WG2223659
Tetrachloroethene	U		0.00165	0.00461	1	02/10/2024 02:53	WG2223659
Toluene	U		0.00240	0.00922	1	02/10/2024 02:53	WG2223659
1,2,3-Trichlorobenzene	U		0.0135	0.0230	1	02/10/2024 02:53	WG2223659
1,2,4-Trichlorobenzene	U		0.00811	0.0230	1	02/10/2024 02:53	WG2223659
1,1,1-Trichloroethane	U		0.00170	0.00461	1	02/10/2024 02:53	WG2223659
1,1,2-Trichloroethane	U		0.00110	0.00461	1	02/10/2024 02:53	WG2223659
Trichloroethene	U		0.00108	0.00184	1	02/10/2024 02:53	WG2223659
Trichlorofluoromethane	U		0.00152	0.00461	1	02/10/2024 02:53	WG2223659
1,2,3-Trichloropropane	U		0.00299	0.0230	1	02/10/2024 02:53	WG2223659
1,2,4-Trimethylbenzene	U		0.00291	0.00922	1	02/10/2024 02:53	WG2223659
1,2,3-Trimethylbenzene	U		0.00291	0.00922	1	02/10/2024 02:53	WG2223659
1,3,5-Trimethylbenzene	U		0.00369	0.00922	1	02/10/2024 02:53	WG2223659
Vinyl chloride	U	C3 J3	0.00214	0.00461	1	02/10/2024 02:53	WG2223659
Xylenes, Total	U		0.00162	0.0120	1	02/10/2024 02:53	WG2223659
(S) Toluene-d8	98.6			75.0-131		02/10/2024 02:53	WG2223659
(S) 4-Bromofluorobenzene	96.7			67.0-138		02/10/2024 02:53	WG2223659
(S) 1,2-Dichloroethane-d4	84.2			70.0-130		02/10/2024 02:53	WG2223659

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	67.8		1	02/06/2024 17:08	WG2220759

Volatile Organic Compounds (GC) by Method NWTPHGX

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	4.57	B J	1.69	4.97	25	02/09/2024 04:25	WG2222381
(S) a,a,a-Trifluorotoluene(FID)	90.0			77.0-120		02/09/2024 04:25	WG2222381

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0726	0.0994	1	02/10/2024 03:15	WG2223659
Acrylonitrile	U		0.00718	0.0249	1	02/10/2024 03:15	WG2223659
Benzene	U		0.000929	0.00199	1	02/10/2024 03:15	WG2223659
Bromobenzene	U		0.00179	0.0249	1	02/10/2024 03:15	WG2223659
Bromodichloromethane	U		0.00144	0.00497	1	02/10/2024 03:15	WG2223659
Bromoform	U		0.00233	0.0497	1	02/10/2024 03:15	WG2223659
Bromomethane	U		0.00392	0.0249	1	02/10/2024 03:15	WG2223659
n-Butylbenzene	U		0.0104	0.0249	1	02/10/2024 03:15	WG2223659
sec-Butylbenzene	U		0.00573	0.0249	1	02/10/2024 03:15	WG2223659
tert-Butylbenzene	U	C3	0.00388	0.00994	1	02/10/2024 03:15	WG2223659
Carbon disulfide	U	C3	0.00139	0.0249	1	02/10/2024 03:15	WG2223659
Carbon tetrachloride	U		0.00179	0.00994	1	02/10/2024 03:15	WG2223659
Chlorobenzene	U		0.000418	0.00497	1	02/10/2024 03:15	WG2223659
Chlorodibromomethane	U		0.00122	0.00497	1	02/10/2024 03:15	WG2223659
Chloroethane	U		0.00338	0.00994	1	02/10/2024 03:15	WG2223659
Chloroform	U		0.00205	0.00497	1	02/10/2024 03:15	WG2223659
Chloromethane	U		0.00865	0.0249	1	02/10/2024 03:15	WG2223659
2-Chlorotoluene	U		0.00172	0.00497	1	02/10/2024 03:15	WG2223659
4-Chlorotoluene	U		0.000895	0.00994	1	02/10/2024 03:15	WG2223659
1,2-Dibromo-3-Chloropropane	U		0.00776	0.0497	1	02/10/2024 03:15	WG2223659
1,2-Dibromoethane	U		0.00129	0.00497	1	02/10/2024 03:15	WG2223659
Dibromomethane	U		0.00149	0.00994	1	02/10/2024 03:15	WG2223659
1,2-Dichlorobenzene	U		0.000845	0.00994	1	02/10/2024 03:15	WG2223659
1,3-Dichlorobenzene	U		0.00119	0.00994	1	02/10/2024 03:15	WG2223659
1,4-Dichlorobenzene	U		0.00139	0.00994	1	02/10/2024 03:15	WG2223659
Dichlorodifluoromethane	U		0.00320	0.00994	1	02/10/2024 03:15	WG2223659
1,1-Dichloroethane	U		0.000977	0.00497	1	02/10/2024 03:15	WG2223659
1,2-Dichloroethane	U		0.00129	0.00497	1	02/10/2024 03:15	WG2223659
1,1-Dichloroethene	U		0.00121	0.00497	1	02/10/2024 03:15	WG2223659
cis-1,2-Dichloroethene	U		0.00146	0.00497	1	02/10/2024 03:15	WG2223659
trans-1,2-Dichloroethene	U		0.00207	0.00994	1	02/10/2024 03:15	WG2223659
1,2-Dichloropropane	U		0.00282	0.00994	1	02/10/2024 03:15	WG2223659
1,1-Dichloropropene	U		0.00161	0.00497	1	02/10/2024 03:15	WG2223659
1,3-Dichloropropane	U		0.000996	0.00994	1	02/10/2024 03:15	WG2223659
cis-1,3-Dichloropropene	U		0.00151	0.00497	1	02/10/2024 03:15	WG2223659
trans-1,3-Dichloropropene	U		0.00227	0.00994	1	02/10/2024 03:15	WG2223659
2,2-Dichloropropane	U		0.00274	0.00497	1	02/10/2024 03:15	WG2223659
Di-isopropyl ether	U		0.000815	0.00199	1	02/10/2024 03:15	WG2223659
Ethylbenzene	U		0.00147	0.00497	1	02/10/2024 03:15	WG2223659
Hexachloro-1,3-butadiene	U		0.0119	0.0497	1	02/10/2024 03:15	WG2223659
Isopropylbenzene	U		0.000845	0.00497	1	02/10/2024 03:15	WG2223659
p-Isopropyltoluene	U		0.00507	0.00994	1	02/10/2024 03:15	WG2223659
2-Butanone (MEK)	U	J3	0.126	0.199	1	02/10/2024 03:15	WG2223659
Methylene Chloride	0.0145	J	0.0132	0.0497	1	02/10/2024 03:15	WG2223659

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

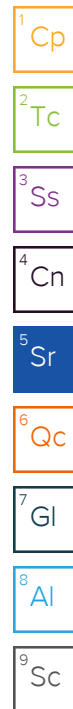
7Gl

8Al

9Sc

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Methyl-2-pentanone (MIBK)	U		0.00453	0.0497	1	02/10/2024 03:15	WG2223659
Methyl tert-butyl ether	U		0.000696	0.00199	1	02/10/2024 03:15	WG2223659
Naphthalene	U		0.00971	0.0249	1	02/10/2024 03:15	WG2223659
n-Propylbenzene	U		0.00189	0.00994	1	02/10/2024 03:15	WG2223659
Styrene	U		0.000455	0.0249	1	02/10/2024 03:15	WG2223659
1,1,1,2-Tetrachloroethane	U		0.00189	0.00497	1	02/10/2024 03:15	WG2223659
1,1,2,2-Tetrachloroethane	U		0.00138	0.00497	1	02/10/2024 03:15	WG2223659
1,1,2-Trichlorotrifluoroethane	U		0.00150	0.00497	1	02/10/2024 03:15	WG2223659
Tetrachloroethene	U		0.00178	0.00497	1	02/10/2024 03:15	WG2223659
Toluene	U		0.00259	0.00994	1	02/10/2024 03:15	WG2223659
1,2,3-Trichlorobenzene	U		0.0146	0.0249	1	02/10/2024 03:15	WG2223659
1,2,4-Trichlorobenzene	U		0.00875	0.0249	1	02/10/2024 03:15	WG2223659
1,1,1-Trichloroethane	U		0.00184	0.00497	1	02/10/2024 03:15	WG2223659
1,1,2-Trichloroethane	U		0.00119	0.00497	1	02/10/2024 03:15	WG2223659
Trichloroethene	U		0.00116	0.00199	1	02/10/2024 03:15	WG2223659
Trichlorofluoromethane	U		0.00164	0.00497	1	02/10/2024 03:15	WG2223659
1,2,3-Trichloropropane	U		0.00322	0.0249	1	02/10/2024 03:15	WG2223659
1,2,4-Trimethylbenzene	U		0.00314	0.00994	1	02/10/2024 03:15	WG2223659
1,2,3-Trimethylbenzene	U		0.00314	0.00994	1	02/10/2024 03:15	WG2223659
1,3,5-Trimethylbenzene	U		0.00398	0.00994	1	02/10/2024 03:15	WG2223659
Vinyl chloride	U	C3 J3	0.00231	0.00497	1	02/10/2024 03:15	WG2223659
Xylenes, Total	U		0.00175	0.0129	1	02/10/2024 03:15	WG2223659
(S) Toluene-d8	96.8			75.0-131		02/10/2024 03:15	WG2223659
(S) 4-Bromofluorobenzene	96.1			67.0-138		02/10/2024 03:15	WG2223659
(S) 1,2-Dichloroethane-d4	80.4			70.0-130		02/10/2024 03:15	WG2223659



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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00339	0.00885	1	02/07/2024 20:34	WG2221364
Acenaphthene	U		0.00308	0.00885	1	02/07/2024 20:34	WG2221364
Acenaphthylene	0.00392	1C	0.00319	0.00885	1	02/07/2024 20:34	WG2221364
Benzo(a)anthracene	0.00864	1C	0.00255	0.00885	1	02/07/2024 20:34	WG2221364
Benzo(a)pyrene	0.0149		0.00264	0.00885	1	02/07/2024 20:34	WG2221364
Benzo(b)fluoranthene	0.0152		0.00226	0.00885	1	02/07/2024 20:34	WG2221364
Benzo(g,h,i)perylene	0.0189		0.00261	0.00885	1	02/07/2024 20:34	WG2221364
Benzo(k)fluoranthene	0.00416	1C	0.00317	0.00885	1	02/07/2024 20:34	WG2221364
Chrysene	0.0102		0.00342	0.00885	1	02/07/2024 20:34	WG2221364
Dibenz(a,h)anthracene	0.00280	1C	0.00254	0.00885	1	02/07/2024 20:34	WG2221364
Fluoranthene	0.0116		0.00335	0.00885	1	02/07/2024 20:34	WG2221364
Fluorene	U		0.00302	0.00885	1	02/07/2024 20:34	WG2221364
Indeno(1,2,3-cd)pyrene	0.0132		0.00267	0.00885	1	02/07/2024 20:34	WG2221364
Naphthalene	U		0.00602	0.0295	1	02/07/2024 20:34	WG2221364
Phenanthrene	0.00417	1C	0.00341	0.00885	1	02/07/2024 20:34	WG2221364
Pyrene	0.0173		0.00295	0.00885	1	02/07/2024 20:34	WG2221364
1-Methylnaphthalene	U		0.00662	0.0295	1	02/07/2024 20:34	WG2221364
2-Methylnaphthalene	U		0.00630	0.0295	1	02/07/2024 20:34	WG2221364
2-Chloronaphthalene	U		0.00687	0.0295	1	02/07/2024 20:34	WG2221364
(S) p-Terphenyl-d14	64.3			23.0-120		02/07/2024 20:34	WG2221364
(S) Nitrobenzene-d5	87.1			14.0-149		02/07/2024 20:34	WG2221364
(S) 2-Fluorobiphenyl	66.8			34.0-125		02/07/2024 20:34	WG2221364

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.1		1	02/06/2024 17:08	WG2220759

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	23.4	B	1.48	4.36	25	02/09/2024 04:49	WG2222381
(S) a,a,a-Trifluorotoluene(FID)	89.3			77.0-120		02/09/2024 04:49	WG2222381

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0637	0.0872	1	02/10/2024 03:36	WG2223659
Acrylonitrile	U		0.00630	0.0218	1	02/10/2024 03:36	WG2223659
Benzene	U		0.000815	0.00174	1	02/10/2024 03:36	WG2223659
Bromobenzene	U		0.00157	0.0218	1	02/10/2024 03:36	WG2223659
Bromodichloromethane	U		0.00127	0.00436	1	02/10/2024 03:36	WG2223659
Bromoform	U		0.00204	0.0436	1	02/10/2024 03:36	WG2223659
Bromomethane	U		0.00344	0.0218	1	02/10/2024 03:36	WG2223659
n-Butylbenzene	U		0.00916	0.0218	1	02/10/2024 03:36	WG2223659
sec-Butylbenzene	0.0389		0.00503	0.0218	1	02/10/2024 03:36	WG2223659
tert-Butylbenzene	U	C3	0.00340	0.00872	1	02/10/2024 03:36	WG2223659
Carbon disulfide	U	C3	0.00122	0.0218	1	02/10/2024 03:36	WG2223659
Carbon tetrachloride	U		0.00157	0.00872	1	02/10/2024 03:36	WG2223659
Chlorobenzene	U		0.000366	0.00436	1	02/10/2024 03:36	WG2223659
Chlorodibromomethane	U		0.00107	0.00436	1	02/10/2024 03:36	WG2223659
Chloroethane	U		0.00297	0.00872	1	02/10/2024 03:36	WG2223659
Chloroform	U		0.00180	0.00436	1	02/10/2024 03:36	WG2223659
Chloromethane	U		0.00759	0.0218	1	02/10/2024 03:36	WG2223659
2-Chlorotoluene	U		0.00151	0.00436	1	02/10/2024 03:36	WG2223659
4-Chlorotoluene	U		0.000785	0.00872	1	02/10/2024 03:36	WG2223659
1,2-Dibromo-3-Chloropropane	U		0.00680	0.0436	1	02/10/2024 03:36	WG2223659
1,2-Dibromoethane	U		0.00113	0.00436	1	02/10/2024 03:36	WG2223659
Dibromomethane	U		0.00131	0.00872	1	02/10/2024 03:36	WG2223659
1,2-Dichlorobenzene	U		0.000742	0.00872	1	02/10/2024 03:36	WG2223659
1,3-Dichlorobenzene	U		0.00105	0.00872	1	02/10/2024 03:36	WG2223659
1,4-Dichlorobenzene	U		0.00122	0.00872	1	02/10/2024 03:36	WG2223659
Dichlorodifluoromethane	U		0.00281	0.00872	1	02/10/2024 03:36	WG2223659
1,1-Dichloroethane	U		0.000857	0.00436	1	02/10/2024 03:36	WG2223659
1,2-Dichloroethane	U		0.00113	0.00436	1	02/10/2024 03:36	WG2223659
1,1-Dichloroethene	U		0.00106	0.00436	1	02/10/2024 03:36	WG2223659
cis-1,2-Dichloroethene	U		0.00128	0.00436	1	02/10/2024 03:36	WG2223659
trans-1,2-Dichloroethene	U		0.00181	0.00872	1	02/10/2024 03:36	WG2223659
1,2-Dichloropropane	U		0.00248	0.00872	1	02/10/2024 03:36	WG2223659
1,1-Dichloropropene	U		0.00141	0.00436	1	02/10/2024 03:36	WG2223659
1,3-Dichloropropane	U		0.000874	0.00872	1	02/10/2024 03:36	WG2223659
cis-1,3-Dichloropropene	U		0.00132	0.00436	1	02/10/2024 03:36	WG2223659
trans-1,3-Dichloropropene	U		0.00199	0.00872	1	02/10/2024 03:36	WG2223659
2,2-Dichloropropane	U		0.00241	0.00436	1	02/10/2024 03:36	WG2223659
Di-isopropyl ether	U		0.000715	0.00174	1	02/10/2024 03:36	WG2223659
Ethylbenzene	U		0.00129	0.00436	1	02/10/2024 03:36	WG2223659
Hexachloro-1,3-butadiene	U		0.0105	0.0436	1	02/10/2024 03:36	WG2223659
Isopropylbenzene	0.00368	J	0.000742	0.00436	1	02/10/2024 03:36	WG2223659
p-Isopropyltoluene	U		0.00445	0.00872	1	02/10/2024 03:36	WG2223659
2-Butanone (MEK)	U	J3	0.111	0.174	1	02/10/2024 03:36	WG2223659
Methylene Chloride	U		0.0116	0.0436	1	02/10/2024 03:36	WG2223659

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Methyl-2-pentanone (MIBK)	U		0.00398	0.0436	1	02/10/2024 03:36	WG2223659
Methyl tert-butyl ether	U		0.000611	0.00174	1	02/10/2024 03:36	WG2223659
Naphthalene	U		0.00851	0.0218	1	02/10/2024 03:36	WG2223659
n-Propylbenzene	0.0114		0.00166	0.00872	1	02/10/2024 03:36	WG2223659
Styrene	U		0.000400	0.0218	1	02/10/2024 03:36	WG2223659
1,1,1,2-Tetrachloroethane	U		0.00165	0.00436	1	02/10/2024 03:36	WG2223659
1,1,2,2-Tetrachloroethane	U		0.00121	0.00436	1	02/10/2024 03:36	WG2223659
1,1,2-Trichlorotrifluoroethane	U		0.00132	0.00436	1	02/10/2024 03:36	WG2223659
Tetrachloroethene	U		0.00156	0.00436	1	02/10/2024 03:36	WG2223659
Toluene	0.00319	J	0.00227	0.00872	1	02/10/2024 03:36	WG2223659
1,2,3-Trichlorobenzene	U		0.0128	0.0218	1	02/10/2024 03:36	WG2223659
1,2,4-Trichlorobenzene	U		0.00768	0.0218	1	02/10/2024 03:36	WG2223659
1,1,1-Trichloroethane	U		0.00161	0.00436	1	02/10/2024 03:36	WG2223659
1,1,2-Trichloroethane	U		0.00104	0.00436	1	02/10/2024 03:36	WG2223659
Trichloroethene	U		0.00102	0.00174	1	02/10/2024 03:36	WG2223659
Trichlorofluoromethane	U		0.00144	0.00436	1	02/10/2024 03:36	WG2223659
1,2,3-Trichloropropane	U		0.00283	0.0218	1	02/10/2024 03:36	WG2223659
1,2,4-Trimethylbenzene	U		0.00276	0.00872	1	02/10/2024 03:36	WG2223659
1,2,3-Trimethylbenzene	U		0.00276	0.00872	1	02/10/2024 03:36	WG2223659
1,3,5-Trimethylbenzene	U		0.00349	0.00872	1	02/10/2024 03:36	WG2223659
Vinyl chloride	U	C3 J3	0.00202	0.00436	1	02/10/2024 03:36	WG2223659
Xylenes, Total	U		0.00154	0.0113	1	02/10/2024 03:36	WG2223659
(S) Toluene-d8	98.0			75.0-131		02/10/2024 03:36	WG2223659
(S) 4-Bromofluorobenzene	92.7			67.0-138		02/10/2024 03:36	WG2223659
(S) 1,2-Dichloroethane-d4	82.4			70.0-130		02/10/2024 03:36	WG2223659

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	3.44	J	1.79	5.40	1	02/08/2024 00:51	WG2221315
Residual Range Organics (RRO)	U		4.49	13.5	1	02/08/2024 00:51	WG2221315
(S) o-Terphenyl	53.4			18.0-148		02/08/2024 00:51	WG2221315

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	26.3	62.5		1	WG2220187
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2220187
Benzene	71-43-2	78.10	0.200	0.639	3.80	12.1		1	WG2220187
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2220187
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2220187
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2220187
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2220187
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2220187
Carbon disulfide	75-15-0	76.10	0.200	0.622	5.25	16.3		1	WG2220187
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2220187
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2220187
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2220187
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2220187
Chloromethane	74-87-3	50.50	0.200	0.413	1.16	2.40		1	WG2220187
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2220187
Cyclohexane	110-82-7	84.20	0.200	0.689	1.87	6.44		1	WG2220187
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2220187
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2220187
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2220187
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2220187
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2220187
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2220187
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2220187
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	1.99	7.89		1	WG2220187
cis-1,2-Dichloroethene	156-59-2	96.90	4.00	15.9	109	432		20	WG2220829
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	39.5	157		1	WG2220187
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2220187
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2220187
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2220187
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2220187
Ethanol	64-17-5	46.10	2.50	4.71	30.8	58.1		1	WG2220187
Ethylbenzene	100-41-4	106	4.00	17.3	96.5	418		20	WG2220829
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.617	3.03		1	WG2220187
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG2220187
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.495	2.45	J3 J4	1	WG2220187
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2220187
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2220187
Heptane	142-82-5	100	0.200	0.818	4.09	16.7		1	WG2220187
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2220187
n-Hexane	110-54-3	86.20	0.630	2.22	7.36	25.9		1	WG2220187
Isopropylbenzene	98-82-8	120.20	0.200	0.983	2.09	10.3		1	WG2220187
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.568	1.97		1	WG2220187
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2220187
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	3.93	11.6		1	WG2220187
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2220187
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2220187
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2220187
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG2220187
2-Propanol	67-63-0	60.10	1.25	3.07	4.19	10.3		1	WG2220187
Propene	115-07-1	42.10	25.0	43.0	156	269		20	WG2220829
n-Propylbenzene	103-65-1	120	0.200	0.982	0.700	3.44		1	WG2220187
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2220187
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2220187
Tetrachloroethylene	127-18-4	166	0.200	1.36	0.319	2.17		1	WG2220187
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2220187
Toluene	108-88-3	92.10	0.500	1.88	10.3	38.8		1	WG2220187

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2220187
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2220187
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2220187
Trichloroethylene	79-01-6	131	4.00	21.4	336	1800		20	WG2220829
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	2.26	11.1		1	WG2220187
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.521	2.56		1	WG2220187
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	1.66	7.75		1	WG2220187
Vinyl chloride	75-01-4	62.50	0.200	0.511	5.97	15.3		1	WG2220187
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2220187
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2220187
m&p-Xylene	179601-23-1	106	8.00	34.7	392	1700		20	WG2220829
o-Xylene	95-47-6	106	4.00	17.3	144	624		20	WG2220829
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	6200	25600	B	20	WG2220829
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		250		J1		WG2220187
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				WG2220829

Sample Narrative:

L1701988-37 WG2220187: Surrogate failure due to matrix interference

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

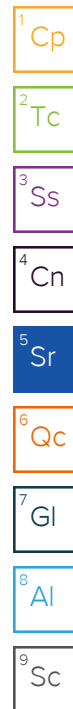
7Gl

8Al

9Sc

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	ND	ND		1	WG2220187
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG2220187
Benzene	71-43-2	78.10	0.200	0.639	5.83	18.6		1	WG2220187
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG2220187
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG2220187
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG2220187
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG2220187
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG2220187
Carbon disulfide	75-15-0	76.10	0.200	0.622	2.49	7.75		1	WG2220187
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG2220187
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG2220187
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG2220187
Chloroform	67-66-3	119	0.200	0.973	ND	ND		1	WG2220187
Chloromethane	74-87-3	50.50	0.200	0.413	0.596	1.23		1	WG2220187
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG2220187
Cyclohexane	110-82-7	84.20	0.200	0.689	9.06	31.2		1	WG2220187
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG2220187
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG2220187
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG2220187
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG2220187
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG2220187
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG2220187
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG2220187
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG2220187
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	0.286	1.13		1	WG2220187
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	ND	ND		1	WG2220187
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG2220187
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG2220187
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG2220187
1,4-Dioxane	123-91-1	88.10	0.630	2.27	ND	ND		1	WG2220187
Ethanol	64-17-5	46.10	2.50	4.71	16.1	30.4		1	WG2220187
Ethylbenzene	100-41-4	106	4.00	17.3	190	824		20	WG2220829
4-Ethyltoluene	622-96-8	120	0.200	0.982	0.663	3.25		1	WG2220187
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.232	1.30		1	WG2220187
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.448	2.22	J3 J4	1	WG2220187
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	ND	ND		1	WG2220187
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG2220187
Heptane	142-82-5	100	0.200	0.818	11.0	45.0		1	WG2220187
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG2220187
n-Hexane	110-54-3	86.20	12.6	44.4	122	430		20	WG2220829
Isopropylbenzene	98-82-8	120.20	0.200	0.983	6.73	33.1		1	WG2220187
Methylene Chloride	75-09-2	84.90	0.200	0.694	0.306	1.06		1	WG2220187
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG2220187
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	1.47	4.33		1	WG2220187
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG2220187
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG2220187
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG2220187
Naphthalene	91-20-3	128	0.630	3.30	1.14	5.97		1	WG2220187
2-Propanol	67-63-0	60.10	1.25	3.07	1.65	4.06		1	WG2220187
Propene	115-07-1	42.10	25.0	43.0	157	270		20	WG2220829
n-Propylbenzene	103-65-1	120	0.200	0.982	1.61	7.90		1	WG2220187
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG2220187
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG2220187
Tetrachloroethylene	127-18-4	166	0.200	1.36	ND	ND		1	WG2220187
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG2220187
Toluene	108-88-3	92.10	0.500	1.88	19.7	74.2		1	WG2220187



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG2220187
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	ND	ND		1	WG2220187
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG2220187
Trichloroethylene	79-01-6	131	0.200	1.07	1.33	7.13		1	WG2220187
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.94	9.52		1	WG2220187
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.729	3.58		1	WG2220187
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	7.40	34.6		1	WG2220187
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG2220187
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG2220187
Vinyl acetate	108-05-4	86.10	0.630	2.22	ND	ND		1	WG2220187
m&p-Xylene	179601-23-1	106	8.00	34.7	752	3260		20	WG2220829
o-Xylene	95-47-6	106	4.00	17.3	295	1280		20	WG2220829
TPH (GC/MS) Low Fraction	8006-61-9	101	4000	16500	21500	88800		20	WG2220829
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		719		J1		WG2220187
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		112				WG2220829

Sample Narrative:

L1701988-38 WG2220187: Surrogate failure due to matrix interference

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Lead,Dissolved	U		0.849	2.00	1	02/07/2024 17:25	WG2219792

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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	1590		31.6	100	1	02/08/2024 18:44	WG2222678
(S) a,a,a-Trifluorotoluene(FID)	102			78.0-120		02/08/2024 18:44	WG2222678

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	02/05/2024 23:33	WG2220512
Acrolein	U	C3	2.54	50.0	1	02/05/2024 23:33	WG2220512
Acrylonitrile	U		0.671	10.0	1	02/05/2024 23:33	WG2220512
Benzene	U		0.0941	1.00	1	02/05/2024 23:33	WG2220512
Bromobenzene	U		0.118	1.00	1	02/05/2024 23:33	WG2220512
Bromodichloromethane	U		0.136	1.00	1	02/05/2024 23:33	WG2220512
Bromoform	U		0.129	1.00	1	02/05/2024 23:33	WG2220512
Bromomethane	U		0.605	5.00	1	02/05/2024 23:33	WG2220512
n-Butylbenzene	U		0.157	1.00	1	02/05/2024 23:33	WG2220512
sec-Butylbenzene	5.16		0.125	1.00	1	02/05/2024 23:33	WG2220512
tert-Butylbenzene	U		0.127	1.00	1	02/05/2024 23:33	WG2220512
Carbon disulfide	U		0.0962	1.00	1	02/05/2024 23:33	WG2220512
Carbon tetrachloride	U	J4	0.128	1.00	1	02/05/2024 23:33	WG2220512
Chlorobenzene	U		0.116	1.00	1	02/05/2024 23:33	WG2220512
Chlorodibromomethane	U		0.140	1.00	1	02/05/2024 23:33	WG2220512
Chloroethane	U		0.192	5.00	1	02/05/2024 23:33	WG2220512
Chloroform	U		0.111	5.00	1	02/05/2024 23:33	WG2220512
Chloromethane	U		0.960	2.50	1	02/05/2024 23:33	WG2220512
2-Chlorotoluene	U		0.106	1.00	1	02/05/2024 23:33	WG2220512
4-Chlorotoluene	U		0.114	1.00	1	02/05/2024 23:33	WG2220512
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/05/2024 23:33	WG2220512
1,2-Dibromoethane	U		0.126	1.00	1	02/05/2024 23:33	WG2220512
Dibromomethane	U		0.122	1.00	1	02/05/2024 23:33	WG2220512
1,2-Dichlorobenzene	U		0.107	1.00	1	02/05/2024 23:33	WG2220512
1,3-Dichlorobenzene	U		0.110	1.00	1	02/05/2024 23:33	WG2220512
1,4-Dichlorobenzene	U		0.120	1.00	1	02/05/2024 23:33	WG2220512
Dichlorodifluoromethane	U		0.374	5.00	1	02/05/2024 23:33	WG2220512
1,1-Dichloroethane	U		0.100	1.00	1	02/05/2024 23:33	WG2220512
1,2-Dichloroethane	U		0.0819	1.00	1	02/05/2024 23:33	WG2220512
1,1-Dichloroethene	U		0.188	1.00	1	02/05/2024 23:33	WG2220512
cis-1,2-Dichloroethene	U		0.126	1.00	1	02/05/2024 23:33	WG2220512
trans-1,2-Dichloroethene	U		0.149	1.00	1	02/05/2024 23:33	WG2220512
1,2-Dichloropropane	U		0.149	1.00	1	02/05/2024 23:33	WG2220512
1,1-Dichloropropene	U		0.142	1.00	1	02/05/2024 23:33	WG2220512
1,3-Dichloropropane	U		0.110	1.00	1	02/05/2024 23:33	WG2220512
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/05/2024 23:33	WG2220512
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/05/2024 23:33	WG2220512
2,2-Dichloropropane	U		0.161	1.00	1	02/05/2024 23:33	WG2220512
Di-isopropyl ether	U		0.105	1.00	1	02/05/2024 23:33	WG2220512
Ethylbenzene	U		0.137	1.00	1	02/05/2024 23:33	WG2220512
Hexachloro-1,3-butadiene	U		0.337	1.00	1	02/05/2024 23:33	WG2220512
Isopropylbenzene	1.08		0.105	1.00	1	02/05/2024 23:33	WG2220512
p-Isopropyltoluene	U		0.120	1.00	1	02/05/2024 23:33	WG2220512

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
2-Butanone (MEK)	U		1.19	10.0	1	02/05/2024 23:33	WG2220512
Methylene Chloride	U		0.430	5.00	1	02/05/2024 23:33	WG2220512
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/05/2024 23:33	WG2220512
Methyl tert-butyl ether	U		0.101	1.00	1	02/05/2024 23:33	WG2220512
Naphthalene	U		1.00	5.00	1	02/05/2024 23:33	WG2220512
n-Propylbenzene	1.13		0.0993	1.00	1	02/05/2024 23:33	WG2220512
Styrene	U		0.118	1.00	1	02/05/2024 23:33	WG2220512
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	02/05/2024 23:33	WG2220512
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/05/2024 23:33	WG2220512
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/05/2024 23:33	WG2220512
Tetrachloroethene	U		0.300	1.00	1	02/05/2024 23:33	WG2220512
Toluene	U		0.278	1.00	1	02/05/2024 23:33	WG2220512
1,2,3-Trichlorobenzene	U		0.230	1.00	1	02/05/2024 23:33	WG2220512
1,2,4-Trichlorobenzene	U		0.481	1.00	1	02/05/2024 23:33	WG2220512
1,1,1-Trichloroethane	U		0.149	1.00	1	02/05/2024 23:33	WG2220512
1,1,2-Trichloroethane	U		0.158	1.00	1	02/05/2024 23:33	WG2220512
Trichloroethene	U		0.190	1.00	1	02/05/2024 23:33	WG2220512
Trichlorofluoromethane	U		0.160	5.00	1	02/05/2024 23:33	WG2220512
1,2,3-Trichloropropane	U		0.237	2.50	1	02/05/2024 23:33	WG2220512
1,2,4-Trimethylbenzene	U		0.322	1.00	1	02/05/2024 23:33	WG2220512
1,2,3-Trimethylbenzene	U		0.104	1.00	1	02/05/2024 23:33	WG2220512
1,3,5-Trimethylbenzene	U		0.104	1.00	1	02/05/2024 23:33	WG2220512
Vinyl chloride	U		0.234	1.00	1	02/05/2024 23:33	WG2220512
Xylenes, Total	0.201	U	0.174	3.00	1	02/05/2024 23:33	WG2220512
(S) Toluene-d8	97.2			80.0-120		02/05/2024 23:33	WG2220512
(S) 4-Bromofluorobenzene	90.9			77.0-126		02/05/2024 23:33	WG2220512
(S) 1,2-Dichloroethane-d4	99.6			70.0-130		02/05/2024 23:33	WG2220512

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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)	667		34.3	103	1.03	02/14/2024 12:37	WG2224397
Residual Range Organics (RRO)	U		85.8	258	1.03	02/14/2024 12:37	WG2224397
(S) o-Terphenyl	39.7			31.0-160		02/14/2024 12:37	WG2224397

Sample Narrative:
L1701988-39 WG2224397: Dilution due to sample volume.

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	0.0673		0.0190	0.0500	1	02/05/2024 15:42	WG2219646
Acenaphthene	1.74		0.0190	0.0500	1	02/05/2024 15:42	WG2219646
Acenaphthylene	U		0.0171	0.0500	1	02/05/2024 15:42	WG2219646
Benzo(a)anthracene	U		0.0203	0.0500	1	02/05/2024 15:42	WG2219646
Benzo(a)pyrene	U		0.0184	0.0500	1	02/05/2024 15:42	WG2219646
Benzo(b)fluoranthene	U		0.0168	0.0500	1	02/05/2024 15:42	WG2219646
Benzo(g,h,i)perylene	U		0.0184	0.0500	1	02/05/2024 15:42	WG2219646
Benzo(k)fluoranthene	U		0.0202	0.0500	1	02/05/2024 15:42	WG2219646
Chrysene	U		0.0179	0.0500	1	02/05/2024 15:42	WG2219646
Dibenz(a,h)anthracene	U		0.0160	0.0500	1	02/05/2024 15:42	WG2219646
Fluoranthene	0.0314	U	0.0270	0.100	1	02/05/2024 15:42	WG2219646
Fluorene	1.63		0.0169	0.0500	1	02/05/2024 15:42	WG2219646
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500	1	02/05/2024 15:42	WG2219646
Naphthalene	1.35		0.0917	0.250	1	02/05/2024 15:42	WG2219646

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Phenanthrene	0.0774		0.0180	0.0500	1	02/05/2024 15:42	WG2219646
Pyrene	0.0364	J	0.0169	0.0500	1	02/05/2024 15:42	WG2219646
1-Methylnaphthalene	0.827		0.0687	0.250	1	02/05/2024 15:42	WG2219646
2-Methylnaphthalene	U		0.0674	0.250	1	02/05/2024 15:42	WG2219646
2-Chloronaphthalene	U		0.0682	0.250	1	02/05/2024 15:42	WG2219646
(S) Nitrobenzene-d5	168	J1		31.0-160		02/05/2024 15:42	WG2219646
(S) 2-Fluorobiphenyl	105			48.0-148		02/05/2024 15:42	WG2219646
(S) p-Terphenyl-d14	95.5			37.0-146		02/05/2024 15:42	WG2219646

Sample Narrative:

L1701988-39 WG2219646: Surrogate failure due to matrix interference

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Lead,Dissolved	U		0.849	2.00	1	02/07/2024 16:03	WG2219792

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	512		31.6	100	1	02/08/2024 19:05	WG2222678
(S) a,a,a-Trifluorotoluene(FID)	97.1			78.0-120		02/08/2024 19:05	WG2222678

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	02/05/2024 23:52	WG2220512
Acrolein	U	C3	2.54	50.0	1	02/05/2024 23:52	WG2220512
Acrylonitrile	U		0.671	10.0	1	02/05/2024 23:52	WG2220512
Benzene	U		0.0941	1.00	1	02/05/2024 23:52	WG2220512
Bromobenzene	U		0.118	1.00	1	02/05/2024 23:52	WG2220512
Bromodichloromethane	U		0.136	1.00	1	02/05/2024 23:52	WG2220512
Bromoform	U		0.129	1.00	1	02/05/2024 23:52	WG2220512
Bromomethane	U		0.605	5.00	1	02/05/2024 23:52	WG2220512
n-Butylbenzene	U		0.157	1.00	1	02/05/2024 23:52	WG2220512
sec-Butylbenzene	1.58		0.125	1.00	1	02/05/2024 23:52	WG2220512
tert-Butylbenzene	U		0.127	1.00	1	02/05/2024 23:52	WG2220512
Carbon disulfide	U		0.0962	1.00	1	02/05/2024 23:52	WG2220512
Carbon tetrachloride	U	J4	0.128	1.00	1	02/05/2024 23:52	WG2220512
Chlorobenzene	U		0.116	1.00	1	02/05/2024 23:52	WG2220512
Chlorodibromomethane	U		0.140	1.00	1	02/05/2024 23:52	WG2220512
Chloroethane	U		0.192	5.00	1	02/05/2024 23:52	WG2220512
Chloroform	U		0.111	5.00	1	02/05/2024 23:52	WG2220512
Chloromethane	U		0.960	2.50	1	02/05/2024 23:52	WG2220512
2-Chlorotoluene	U		0.106	1.00	1	02/05/2024 23:52	WG2220512
4-Chlorotoluene	U		0.114	1.00	1	02/05/2024 23:52	WG2220512
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/05/2024 23:52	WG2220512
1,2-Dibromoethane	U		0.126	1.00	1	02/05/2024 23:52	WG2220512
Dibromomethane	U		0.122	1.00	1	02/05/2024 23:52	WG2220512
1,2-Dichlorobenzene	U		0.107	1.00	1	02/05/2024 23:52	WG2220512
1,3-Dichlorobenzene	U		0.110	1.00	1	02/05/2024 23:52	WG2220512
1,4-Dichlorobenzene	U		0.120	1.00	1	02/05/2024 23:52	WG2220512
Dichlorodifluoromethane	U		0.374	5.00	1	02/05/2024 23:52	WG2220512
1,1-Dichloroethane	U		0.100	1.00	1	02/05/2024 23:52	WG2220512
1,2-Dichloroethane	U		0.0819	1.00	1	02/05/2024 23:52	WG2220512
1,1-Dichloroethene	U		0.188	1.00	1	02/05/2024 23:52	WG2220512
cis-1,2-Dichloroethene	U		0.126	1.00	1	02/05/2024 23:52	WG2220512
trans-1,2-Dichloroethene	U		0.149	1.00	1	02/05/2024 23:52	WG2220512
1,2-Dichloropropane	U		0.149	1.00	1	02/05/2024 23:52	WG2220512
1,1-Dichloropropene	U		0.142	1.00	1	02/05/2024 23:52	WG2220512
1,3-Dichloropropane	U		0.110	1.00	1	02/05/2024 23:52	WG2220512
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/05/2024 23:52	WG2220512
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/05/2024 23:52	WG2220512
2,2-Dichloropropane	U		0.161	1.00	1	02/05/2024 23:52	WG2220512
Di-isopropyl ether	U		0.105	1.00	1	02/05/2024 23:52	WG2220512
Ethylbenzene	U		0.137	1.00	1	02/05/2024 23:52	WG2220512
Hexachloro-1,3-butadiene	U		0.337	1.00	1	02/05/2024 23:52	WG2220512
Isopropylbenzene	0.196	J	0.105	1.00	1	02/05/2024 23:52	WG2220512
p-Isopropyltoluene	U		0.120	1.00	1	02/05/2024 23:52	WG2220512

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

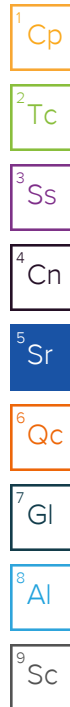
Al

9

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
2-Butanone (MEK)	U		1.19	10.0	1	02/05/2024 23:52	WG2220512
Methylene Chloride	U		0.430	5.00	1	02/05/2024 23:52	WG2220512
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/05/2024 23:52	WG2220512
Methyl tert-butyl ether	U		0.101	1.00	1	02/05/2024 23:52	WG2220512
Naphthalene	U		1.00	5.00	1	02/05/2024 23:52	WG2220512
n-Propylbenzene	1.33		0.0993	1.00	1	02/05/2024 23:52	WG2220512
Styrene	U		0.118	1.00	1	02/05/2024 23:52	WG2220512
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	02/05/2024 23:52	WG2220512
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/05/2024 23:52	WG2220512
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/05/2024 23:52	WG2220512
Tetrachloroethene	U		0.300	1.00	1	02/05/2024 23:52	WG2220512
Toluene	U		0.278	1.00	1	02/05/2024 23:52	WG2220512
1,2,3-Trichlorobenzene	U		0.230	1.00	1	02/05/2024 23:52	WG2220512
1,2,4-Trichlorobenzene	U		0.481	1.00	1	02/05/2024 23:52	WG2220512
1,1,1-Trichloroethane	U		0.149	1.00	1	02/05/2024 23:52	WG2220512
1,1,2-Trichloroethane	U		0.158	1.00	1	02/05/2024 23:52	WG2220512
Trichloroethene	U		0.190	1.00	1	02/05/2024 23:52	WG2220512
Trichlorofluoromethane	U		0.160	5.00	1	02/05/2024 23:52	WG2220512
1,2,3-Trichloropropane	U		0.237	2.50	1	02/05/2024 23:52	WG2220512
1,2,4-Trimethylbenzene	U		0.322	1.00	1	02/05/2024 23:52	WG2220512
1,2,3-Trimethylbenzene	U		0.104	1.00	1	02/05/2024 23:52	WG2220512
1,3,5-Trimethylbenzene	U		0.104	1.00	1	02/05/2024 23:52	WG2220512
Vinyl chloride	U		0.234	1.00	1	02/05/2024 23:52	WG2220512
Xylenes, Total	U		0.174	3.00	1	02/05/2024 23:52	WG2220512
(S) Toluene-d8	102			80.0-120		02/05/2024 23:52	WG2220512
(S) 4-Bromofluorobenzene	104			77.0-126		02/05/2024 23:52	WG2220512
(S) 1,2-Dichloroethane-d4	101			70.0-130		02/05/2024 23:52	WG2220512



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)	843		34.0	102	1.02	02/14/2024 05:35	WG2224397
Residual Range Organics (RRO)	253	J	85.0	255	1.02	02/14/2024 05:35	WG2224397
(S) o-Terphenyl	35.4			31.0-160		02/14/2024 05:35	WG2224397

Sample Narrative:

L1701988-40 WG2224397: Dilution due to sample volume.

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0190	0.0500	1	02/05/2024 18:35	WG2219646
Acenaphthene	0.339		0.0190	0.0500	1	02/05/2024 18:35	WG2219646
Acenaphthylene	U		0.0171	0.0500	1	02/05/2024 18:35	WG2219646
Benzo(a)anthracene	U		0.0203	0.0500	1	02/05/2024 18:35	WG2219646
Benzo(a)pyrene	U		0.0184	0.0500	1	02/05/2024 18:35	WG2219646
Benzo(b)fluoranthene	U		0.0168	0.0500	1	02/05/2024 18:35	WG2219646
Benzo(g,h,i)perylene	U		0.0184	0.0500	1	02/05/2024 18:35	WG2219646
Benzo(k)fluoranthene	U		0.0202	0.0500	1	02/05/2024 18:35	WG2219646
Chrysene	U		0.0179	0.0500	1	02/05/2024 18:35	WG2219646
Dibenz(a,h)anthracene	U		0.0160	0.0500	1	02/05/2024 18:35	WG2219646
Fluoranthene	0.0455	J	0.0270	0.100	1	02/05/2024 18:35	WG2219646
Fluorene	0.562		0.0169	0.0500	1	02/05/2024 18:35	WG2219646
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500	1	02/05/2024 18:35	WG2219646
Naphthalene	U		0.0917	0.250	1	02/05/2024 18:35	WG2219646

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Phenanthrene	0.153		0.0180	0.0500	1	02/05/2024 18:35	WG2219646
Pyrene	U		0.0169	0.0500	1	02/05/2024 18:35	WG2219646
1-Methylnaphthalene	U		0.0687	0.250	1	02/05/2024 18:35	WG2219646
2-Methylnaphthalene	U		0.0674	0.250	1	02/05/2024 18:35	WG2219646
2-Chloronaphthalene	U		0.0682	0.250	1	02/05/2024 18:35	WG2219646
(S) Nitrobenzene-d5	99.0			31.0-160		02/05/2024 18:35	WG2219646
(S) 2-Fluorobiphenyl	62.5			48.0-148		02/05/2024 18:35	WG2219646
(S) p-Terphenyl-d14	45.8			37.0-146		02/05/2024 18:35	WG2219646

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.8		1	02/06/2024 17:08	WG2220759

Metals (ICPMS) by Method 6020B

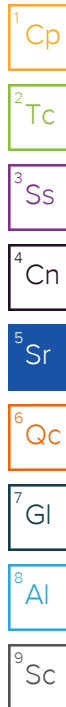
Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Cadmium	U		0.116	1.35	5	02/06/2024 19:51	WG2220616
Chromium	50.2		0.401	6.77	5	02/06/2024 19:51	WG2220616
Lead	14.7		0.134	2.71	5	02/06/2024 19:51	WG2220616

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	38.6		1.46	4.29	25	02/09/2024 05:14	WG2222381
(S) a,a,a-Trifluorotoluene(FID)	90.8			77.0-120		02/09/2024 05:14	WG2222381

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0626	0.0858	1	02/10/2024 03:57	WG2223659
Acrylonitrile	U		0.00619	0.0214	1	02/10/2024 03:57	WG2223659
Benzene	U		0.000801	0.00172	1	02/10/2024 03:57	WG2223659
Bromobenzene	U		0.00154	0.0214	1	02/10/2024 03:57	WG2223659
Bromodichloromethane	U		0.00124	0.00429	1	02/10/2024 03:57	WG2223659
Bromoform	U		0.00201	0.0429	1	02/10/2024 03:57	WG2223659
Bromomethane	U		0.00338	0.0214	1	02/10/2024 03:57	WG2223659
n-Butylbenzene	U		0.00901	0.0214	1	02/10/2024 03:57	WG2223659
sec-Butylbenzene	0.00606	U	0.00494	0.0214	1	02/10/2024 03:57	WG2223659
tert-Butylbenzene	U	U	0.00335	0.00858	1	02/10/2024 03:57	WG2223659
Carbon disulfide	U	U	0.00120	0.0214	1	02/10/2024 03:57	WG2223659
Carbon tetrachloride	U		0.00154	0.00858	1	02/10/2024 03:57	WG2223659
Chlorobenzene	U		0.000360	0.00429	1	02/10/2024 03:57	WG2223659
Chlorodibromomethane	U		0.00105	0.00429	1	02/10/2024 03:57	WG2223659
Chloroethane	U		0.00292	0.00858	1	02/10/2024 03:57	WG2223659
Chloroform	U		0.00177	0.00429	1	02/10/2024 03:57	WG2223659
Chloromethane	U		0.00746	0.0214	1	02/10/2024 03:57	WG2223659
2-Chlorotoluene	U		0.00148	0.00429	1	02/10/2024 03:57	WG2223659
4-Chlorotoluene	U		0.000772	0.00858	1	02/10/2024 03:57	WG2223659
1,2-Dibromo-3-Chloropropane	U		0.00669	0.0429	1	02/10/2024 03:57	WG2223659
1,2-Dibromoethane	U		0.00111	0.00429	1	02/10/2024 03:57	WG2223659
Dibromomethane	U		0.00129	0.00858	1	02/10/2024 03:57	WG2223659
1,2-Dichlorobenzene	U		0.000729	0.00858	1	02/10/2024 03:57	WG2223659
1,3-Dichlorobenzene	U		0.00103	0.00858	1	02/10/2024 03:57	WG2223659
1,4-Dichlorobenzene	U		0.00120	0.00858	1	02/10/2024 03:57	WG2223659
Dichlorodifluoromethane	U		0.00276	0.00858	1	02/10/2024 03:57	WG2223659
1,1-Dichloroethane	U		0.000843	0.00429	1	02/10/2024 03:57	WG2223659
1,2-Dichloroethane	U		0.00111	0.00429	1	02/10/2024 03:57	WG2223659
1,1-Dichloroethene	U		0.00104	0.00429	1	02/10/2024 03:57	WG2223659
cis-1,2-Dichloroethene	U		0.00126	0.00429	1	02/10/2024 03:57	WG2223659
trans-1,2-Dichloroethene	U		0.00178	0.00858	1	02/10/2024 03:57	WG2223659
1,2-Dichloropropane	U		0.00244	0.00858	1	02/10/2024 03:57	WG2223659
1,1-Dichloropropene	U		0.00139	0.00429	1	02/10/2024 03:57	WG2223659
1,3-Dichloropropane	U		0.000860	0.00858	1	02/10/2024 03:57	WG2223659
cis-1,3-Dichloropropene	U		0.00130	0.00429	1	02/10/2024 03:57	WG2223659
trans-1,3-Dichloropropene	U		0.00196	0.00858	1	02/10/2024 03:57	WG2223659



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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2,2-Dichloropropane	U		0.00237	0.00429	1	02/10/2024 03:57	WG2223659
Di-isopropyl ether	U		0.000704	0.00172	1	02/10/2024 03:57	WG2223659
Ethylbenzene	U		0.00126	0.00429	1	02/10/2024 03:57	WG2223659
Hexachloro-1,3-butadiene	U		0.0103	0.0429	1	02/10/2024 03:57	WG2223659
Isopropylbenzene	U		0.000729	0.00429	1	02/10/2024 03:57	WG2223659
p-Isopropyltoluene	U		0.00438	0.00858	1	02/10/2024 03:57	WG2223659
2-Butanone (MEK)	U	J3	0.109	0.172	1	02/10/2024 03:57	WG2223659
Methylene Chloride	U		0.0114	0.0429	1	02/10/2024 03:57	WG2223659
4-Methyl-2-pentanone (MIBK)	U		0.00391	0.0429	1	02/10/2024 03:57	WG2223659
Methyl tert-butyl ether	U		0.000601	0.00172	1	02/10/2024 03:57	WG2223659
Naphthalene	U		0.00837	0.0214	1	02/10/2024 03:57	WG2223659
n-Propylbenzene	U		0.00163	0.00858	1	02/10/2024 03:57	WG2223659
Styrene	U		0.000393	0.0214	1	02/10/2024 03:57	WG2223659
1,1,1,2-Tetrachloroethane	U		0.00163	0.00429	1	02/10/2024 03:57	WG2223659
1,1,2,2-Tetrachloroethane	U		0.00119	0.00429	1	02/10/2024 03:57	WG2223659
1,1,2-Trichlorotrifluoroethane	U		0.00129	0.00429	1	02/10/2024 03:57	WG2223659
Tetrachloroethene	U		0.00154	0.00429	1	02/10/2024 03:57	WG2223659
Toluene	0.00470	J	0.00223	0.00858	1	02/10/2024 03:57	WG2223659
1,2,3-Trichlorobenzene	U		0.0126	0.0214	1	02/10/2024 03:57	WG2223659
1,2,4-Trichlorobenzene	U		0.00755	0.0214	1	02/10/2024 03:57	WG2223659
1,1,1-Trichloroethane	U		0.00158	0.00429	1	02/10/2024 03:57	WG2223659
1,1,2-Trichloroethane	U		0.00102	0.00429	1	02/10/2024 03:57	WG2223659
Trichloroethene	U		0.00100	0.00172	1	02/10/2024 03:57	WG2223659
Trichlorofluoromethane	U		0.00142	0.00429	1	02/10/2024 03:57	WG2223659
1,2,3-Trichloropropane	U		0.00278	0.0214	1	02/10/2024 03:57	WG2223659
1,2,4-Trimethylbenzene	U		0.00271	0.00858	1	02/10/2024 03:57	WG2223659
1,2,3-Trimethylbenzene	U		0.00271	0.00858	1	02/10/2024 03:57	WG2223659
1,3,5-Trimethylbenzene	U		0.00343	0.00858	1	02/10/2024 03:57	WG2223659
Vinyl chloride	U	C3 J3	0.00199	0.00429	1	02/10/2024 03:57	WG2223659
Xylenes, Total	0.00261	J	0.00151	0.0112	1	02/10/2024 03:57	WG2223659
(S) Toluene-d8	98.2			75.0-131		02/10/2024 03:57	WG2223659
(S) 4-Bromofluorobenzene	97.1			67.0-138		02/10/2024 03:57	WG2223659
(S) 1,2-Dichloroethane-d4	84.1			70.0-130		02/10/2024 03:57	WG2223659

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	U		45.1	135	25	02/08/2024 13:10	WG2221315
Residual Range Organics (RRO)	404		113	339	25	02/08/2024 13:10	WG2221315
(S) o-Terphenyl	65.0	J7		18.0-148		02/08/2024 13:10	WG2221315

Sample Narrative:

L1701988-41 WG2221315: Cannot run at lower dilution due to viscosity of extract

Metals (ICPMS) by Method 6020B

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Cadmium,Dissolved	0.490	J	0.150	1.00	1	02/07/2024 17:28	WG2219792
Chromium,Dissolved	22.1		1.24	2.00	1	02/07/2024 17:28	WG2219792
Lead,Dissolved	32.1		0.849	2.00	1	02/07/2024 17:28	WG2219792

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	222		31.6	100	1	02/08/2024 19:27	WG2222678
(S) a,a,a-Trifluorotoluene(FID)	105			78.0-120		02/08/2024 19:27	WG2222678

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	02/06/2024 00:11	WG2220512
Acrolein	U	C3	2.54	50.0	1	02/06/2024 00:11	WG2220512
Acrylonitrile	U		0.671	10.0	1	02/06/2024 00:11	WG2220512
Benzene	U		0.0941	1.00	1	02/06/2024 00:11	WG2220512
Bromobenzene	U		0.118	1.00	1	02/06/2024 00:11	WG2220512
Bromodichloromethane	U		0.136	1.00	1	02/06/2024 00:11	WG2220512
Bromoform	U		0.129	1.00	1	02/06/2024 00:11	WG2220512
Bromomethane	U		0.605	5.00	1	02/06/2024 00:11	WG2220512
n-Butylbenzene	U		0.157	1.00	1	02/06/2024 00:11	WG2220512
sec-Butylbenzene	0.745	J	0.125	1.00	1	02/06/2024 00:11	WG2220512
tert-Butylbenzene	U		0.127	1.00	1	02/06/2024 00:11	WG2220512
Carbon disulfide	U		0.0962	1.00	1	02/06/2024 00:11	WG2220512
Carbon tetrachloride	U	J4	0.128	1.00	1	02/06/2024 00:11	WG2220512
Chlorobenzene	U		0.116	1.00	1	02/06/2024 00:11	WG2220512
Chlorodibromomethane	U		0.140	1.00	1	02/06/2024 00:11	WG2220512
Chloroethane	U		0.192	5.00	1	02/06/2024 00:11	WG2220512
Chloroform	U		0.111	5.00	1	02/06/2024 00:11	WG2220512
Chloromethane	U		0.960	2.50	1	02/06/2024 00:11	WG2220512
2-Chlorotoluene	U		0.106	1.00	1	02/06/2024 00:11	WG2220512
4-Chlorotoluene	U		0.114	1.00	1	02/06/2024 00:11	WG2220512
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/06/2024 00:11	WG2220512
1,2-Dibromoethane	U		0.126	1.00	1	02/06/2024 00:11	WG2220512
Dibromomethane	U		0.122	1.00	1	02/06/2024 00:11	WG2220512
1,2-Dichlorobenzene	U		0.107	1.00	1	02/06/2024 00:11	WG2220512
1,3-Dichlorobenzene	U		0.110	1.00	1	02/06/2024 00:11	WG2220512
1,4-Dichlorobenzene	U		0.120	1.00	1	02/06/2024 00:11	WG2220512
Dichlorodifluoromethane	U		0.374	5.00	1	02/06/2024 00:11	WG2220512
1,1-Dichloroethane	U		0.100	1.00	1	02/06/2024 00:11	WG2220512
1,2-Dichloroethane	U		0.0819	1.00	1	02/06/2024 00:11	WG2220512
1,1-Dichloroethene	U		0.188	1.00	1	02/06/2024 00:11	WG2220512
cis-1,2-Dichloroethene	U		0.126	1.00	1	02/06/2024 00:11	WG2220512
trans-1,2-Dichloroethene	U		0.149	1.00	1	02/06/2024 00:11	WG2220512
1,2-Dichloropropane	U		0.149	1.00	1	02/06/2024 00:11	WG2220512
1,1-Dichloropropene	U		0.142	1.00	1	02/06/2024 00:11	WG2220512
1,3-Dichloropropane	U		0.110	1.00	1	02/06/2024 00:11	WG2220512
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/06/2024 00:11	WG2220512
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/06/2024 00:11	WG2220512
2,2-Dichloropropane	U		0.161	1.00	1	02/06/2024 00:11	WG2220512
Di-isopropyl ether	U		0.105	1.00	1	02/06/2024 00:11	WG2220512
Ethylbenzene	U		0.137	1.00	1	02/06/2024 00:11	WG2220512
Hexachloro-1,3-butadiene	U		0.337	1.00	1	02/06/2024 00:11	WG2220512

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Isopropylbenzene	0.140	J	0.105	1.00	1	02/06/2024 00:11	WG2220512
p-Isopropyltoluene	U		0.120	1.00	1	02/06/2024 00:11	WG2220512
2-Butanone (MEK)	U		1.19	10.0	1	02/06/2024 00:11	WG2220512
Methylene Chloride	U		0.430	5.00	1	02/06/2024 00:11	WG2220512
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/06/2024 00:11	WG2220512
Methyl tert-butyl ether	U		0.101	1.00	1	02/06/2024 00:11	WG2220512
Naphthalene	U		1.00	5.00	1	02/06/2024 00:11	WG2220512
n-Propylbenzene	0.409	J	0.0993	1.00	1	02/06/2024 00:11	WG2220512
Styrene	U		0.118	1.00	1	02/06/2024 00:11	WG2220512
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	02/06/2024 00:11	WG2220512
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/06/2024 00:11	WG2220512
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/06/2024 00:11	WG2220512
Tetrachloroethene	U		0.300	1.00	1	02/06/2024 00:11	WG2220512
Toluene	U		0.278	1.00	1	02/06/2024 00:11	WG2220512
1,2,3-Trichlorobenzene	U		0.230	1.00	1	02/06/2024 00:11	WG2220512
1,2,4-Trichlorobenzene	U		0.481	1.00	1	02/06/2024 00:11	WG2220512
1,1,1-Trichloroethane	U		0.149	1.00	1	02/06/2024 00:11	WG2220512
1,1,2-Trichloroethane	U		0.158	1.00	1	02/06/2024 00:11	WG2220512
Trichloroethene	U		0.190	1.00	1	02/06/2024 00:11	WG2220512
Trichlorofluoromethane	U		0.160	5.00	1	02/06/2024 00:11	WG2220512
1,2,3-Trichloropropane	U		0.237	2.50	1	02/06/2024 00:11	WG2220512
1,2,4-Trimethylbenzene	U		0.322	1.00	1	02/06/2024 00:11	WG2220512
1,2,3-Trimethylbenzene	U		0.104	1.00	1	02/06/2024 00:11	WG2220512
1,3,5-Trimethylbenzene	U		0.104	1.00	1	02/06/2024 00:11	WG2220512
Vinyl chloride	U		0.234	1.00	1	02/06/2024 00:11	WG2220512
Xylenes, Total	0.339	J	0.174	3.00	1	02/06/2024 00:11	WG2220512
(S) Toluene-d8	103			80.0-120		02/06/2024 00:11	WG2220512
(S) 4-Bromofluorobenzene	103			77.0-126		02/06/2024 00:11	WG2220512
(S) 1,2-Dichloroethane-d4	101			70.0-130		02/06/2024 00:11	WG2220512

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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)	444		33.3	100	1	02/14/2024 05:55	WG2224397
Residual Range Organics (RRO)	320		83.3	250	1	02/14/2024 05:55	WG2224397
(S) o-Terphenyl	20.3	J2		31.0-160		02/14/2024 05:55	WG2224397

Sample Narrative:
L1701988-42 WG2224397: Sample produced emulsion during Extraction process, low surr/spike recoveries due to matrix.

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	02/08/2024 19:49	WG2222678
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		02/08/2024 19:49	WG2222678

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	50.0	1	02/06/2024 00:30	WG2220512
Acrolein	U	C3	2.54	50.0	1	02/06/2024 00:30	WG2220512
Acrylonitrile	U		0.671	10.0	1	02/06/2024 00:30	WG2220512
Benzene	U		0.0941	1.00	1	02/06/2024 00:30	WG2220512
Bromobenzene	U		0.118	1.00	1	02/06/2024 00:30	WG2220512
Bromodichloromethane	U		0.136	1.00	1	02/06/2024 00:30	WG2220512
Bromoform	U		0.129	1.00	1	02/06/2024 00:30	WG2220512
Bromomethane	U		0.605	5.00	1	02/06/2024 00:30	WG2220512
n-Butylbenzene	U		0.157	1.00	1	02/06/2024 00:30	WG2220512
sec-Butylbenzene	U		0.125	1.00	1	02/06/2024 00:30	WG2220512
tert-Butylbenzene	U		0.127	1.00	1	02/06/2024 00:30	WG2220512
Carbon disulfide	U		0.0962	1.00	1	02/06/2024 00:30	WG2220512
Carbon tetrachloride	U	J4	0.128	1.00	1	02/06/2024 00:30	WG2220512
Chlorobenzene	U		0.116	1.00	1	02/06/2024 00:30	WG2220512
Chlorodibromomethane	U		0.140	1.00	1	02/06/2024 00:30	WG2220512
Chloroethane	U		0.192	5.00	1	02/06/2024 00:30	WG2220512
Chloroform	U		0.111	5.00	1	02/06/2024 00:30	WG2220512
Chloromethane	U		0.960	2.50	1	02/06/2024 00:30	WG2220512
2-Chlorotoluene	U		0.106	1.00	1	02/06/2024 00:30	WG2220512
4-Chlorotoluene	U		0.114	1.00	1	02/06/2024 00:30	WG2220512
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/06/2024 00:30	WG2220512
1,2-Dibromoethane	U		0.126	1.00	1	02/06/2024 00:30	WG2220512
Dibromomethane	U		0.122	1.00	1	02/06/2024 00:30	WG2220512
1,2-Dichlorobenzene	U		0.107	1.00	1	02/06/2024 00:30	WG2220512
1,3-Dichlorobenzene	U		0.110	1.00	1	02/06/2024 00:30	WG2220512
1,4-Dichlorobenzene	U		0.120	1.00	1	02/06/2024 00:30	WG2220512
Dichlorodifluoromethane	U		0.374	5.00	1	02/06/2024 00:30	WG2220512
1,1-Dichloroethane	U		0.100	1.00	1	02/06/2024 00:30	WG2220512
1,2-Dichloroethane	U		0.0819	1.00	1	02/06/2024 00:30	WG2220512
1,1-Dichloroethene	U		0.188	1.00	1	02/06/2024 00:30	WG2220512
cis-1,2-Dichloroethene	U		0.126	1.00	1	02/06/2024 00:30	WG2220512
trans-1,2-Dichloroethene	U		0.149	1.00	1	02/06/2024 00:30	WG2220512
1,2-Dichloropropane	U		0.149	1.00	1	02/06/2024 00:30	WG2220512
1,1-Dichloropropene	U		0.142	1.00	1	02/06/2024 00:30	WG2220512
1,3-Dichloropropane	U		0.110	1.00	1	02/06/2024 00:30	WG2220512
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/06/2024 00:30	WG2220512
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/06/2024 00:30	WG2220512
2,2-Dichloropropane	U		0.161	1.00	1	02/06/2024 00:30	WG2220512
Di-isopropyl ether	U		0.105	1.00	1	02/06/2024 00:30	WG2220512
Ethylbenzene	U		0.137	1.00	1	02/06/2024 00:30	WG2220512
Hexachloro-1,3-butadiene	U		0.337	1.00	1	02/06/2024 00:30	WG2220512
Isopropylbenzene	U		0.105	1.00	1	02/06/2024 00:30	WG2220512
p-Isopropyltoluene	U		0.120	1.00	1	02/06/2024 00:30	WG2220512
2-Butanone (MEK)	U		1.19	10.0	1	02/06/2024 00:30	WG2220512
Methylene Chloride	U		0.430	5.00	1	02/06/2024 00:30	WG2220512
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/06/2024 00:30	WG2220512
Methyl tert-butyl ether	U		0.101	1.00	1	02/06/2024 00:30	WG2220512
Naphthalene	U		1.00	5.00	1	02/06/2024 00:30	WG2220512

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
n-Propylbenzene	U		0.0993	1.00	1	02/06/2024 00:30	WG2220512
Styrene	U		0.118	1.00	1	02/06/2024 00:30	WG2220512
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	02/06/2024 00:30	WG2220512
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	02/06/2024 00:30	WG2220512
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/06/2024 00:30	WG2220512
Tetrachloroethene	U		0.300	1.00	1	02/06/2024 00:30	WG2220512
Toluene	U		0.278	1.00	1	02/06/2024 00:30	WG2220512
1,2,3-Trichlorobenzene	U		0.230	1.00	1	02/06/2024 00:30	WG2220512
1,2,4-Trichlorobenzene	U		0.481	1.00	1	02/06/2024 00:30	WG2220512
1,1,1-Trichloroethane	U		0.149	1.00	1	02/06/2024 00:30	WG2220512
1,1,2-Trichloroethane	U		0.158	1.00	1	02/06/2024 00:30	WG2220512
Trichloroethene	U		0.190	1.00	1	02/06/2024 00:30	WG2220512
Trichlorofluoromethane	U		0.160	5.00	1	02/06/2024 00:30	WG2220512
1,2,3-Trichloropropane	U		0.237	2.50	1	02/06/2024 00:30	WG2220512
1,2,4-Trimethylbenzene	U		0.322	1.00	1	02/06/2024 00:30	WG2220512
1,2,3-Trimethylbenzene	U		0.104	1.00	1	02/06/2024 00:30	WG2220512
1,3,5-Trimethylbenzene	U		0.104	1.00	1	02/06/2024 00:30	WG2220512
Vinyl chloride	U		0.234	1.00	1	02/06/2024 00:30	WG2220512
Xylenes, Total	U		0.174	3.00	1	02/06/2024 00:30	WG2220512
(S) Toluene-d8	103			80.0-120		02/06/2024 00:30	WG2220512
(S) 4-Bromofluorobenzene	101			77.0-126		02/06/2024 00:30	WG2220512
(S) 1,2-Dichloroethane-d4	99.1			70.0-130		02/06/2024 00:30	WG2220512

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

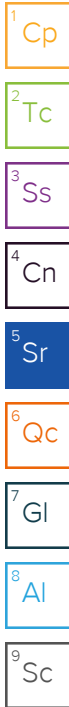
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	172	B	37.0	111	1.11	02/07/2024 15:06	WG2220594
Diesel Range Organics (DRO)	62.3	B J Q	33.3	100	1	02/20/2024 09:58	WG2229012
Residual Range Organics (RRO)	143	B J	92.5	278	1.11	02/07/2024 15:06	WG2220594
Residual Range Organics (RRO)	U	Q	83.3	250	1	02/20/2024 09:58	WG2229012
(S) o-Terphenyl	77.0			31.0-160		02/07/2024 15:06	WG2220594
(S) o-Terphenyl	76.0			31.0-160		02/20/2024 09:58	WG2229012

Sample Narrative:

L1701988-43 WG2220594, WG2229012: Duplicate Analysis performed due to Blank contamination. Results don't confirm; both analyses report

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	11.3	50.0	1	02/24/2024 11:30	WG2233119
Acrolein	U		2.54	50.0	1	02/24/2024 11:30	WG2233119
Acrylonitrile	U		0.671	10.0	1	02/24/2024 11:30	WG2233119
Benzene	U		0.0941	1.00	1	02/24/2024 11:30	WG2233119
Bromobenzene	U	C3	0.118	1.00	1	02/24/2024 11:30	WG2233119
Bromodichloromethane	U		0.136	1.00	1	02/24/2024 11:30	WG2233119
Bromoform	U		0.129	1.00	1	02/24/2024 11:30	WG2233119
Bromomethane	U		0.605	5.00	1	02/24/2024 11:30	WG2233119
n-Butylbenzene	U		0.157	1.00	1	02/24/2024 11:30	WG2233119
sec-Butylbenzene	U		0.125	1.00	1	02/24/2024 11:30	WG2233119
tert-Butylbenzene	U		0.127	1.00	1	02/24/2024 11:30	WG2233119
Carbon disulfide	U		0.0962	1.00	1	02/24/2024 11:30	WG2233119
Carbon tetrachloride	U	J4	0.128	1.00	1	02/24/2024 11:30	WG2233119
Chlorobenzene	U		0.116	1.00	1	02/24/2024 11:30	WG2233119
Chlorodibromomethane	U		0.140	1.00	1	02/24/2024 11:30	WG2233119
Chloroethane	U		0.192	5.00	1	02/24/2024 11:30	WG2233119
Chloroform	U		0.111	5.00	1	02/24/2024 11:30	WG2233119
Chloromethane	U		0.960	2.50	1	02/24/2024 11:30	WG2233119
2-Chlorotoluene	U		0.106	1.00	1	02/24/2024 11:30	WG2233119
4-Chlorotoluene	U		0.114	1.00	1	02/24/2024 11:30	WG2233119
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	02/24/2024 11:30	WG2233119
1,2-Dibromoethane	U		0.126	1.00	1	02/24/2024 11:30	WG2233119
Dibromomethane	U		0.122	1.00	1	02/24/2024 11:30	WG2233119
1,2-Dichlorobenzene	U		0.107	1.00	1	02/24/2024 11:30	WG2233119
1,3-Dichlorobenzene	U		0.110	1.00	1	02/24/2024 11:30	WG2233119
1,4-Dichlorobenzene	U		0.120	1.00	1	02/24/2024 11:30	WG2233119
Dichlorodifluoromethane	U		0.374	5.00	1	02/24/2024 11:30	WG2233119
1,1-Dichloroethane	U		0.100	1.00	1	02/24/2024 11:30	WG2233119
1,2-Dichloroethane	U		0.0819	1.00	1	02/24/2024 11:30	WG2233119
1,1-Dichloroethene	U		0.188	1.00	1	02/24/2024 11:30	WG2233119
cis-1,2-Dichloroethene	U		0.126	1.00	1	02/24/2024 11:30	WG2233119
trans-1,2-Dichloroethene	U		0.149	1.00	1	02/24/2024 11:30	WG2233119
1,2-Dichloropropane	U		0.149	1.00	1	02/24/2024 11:30	WG2233119
1,1-Dichloropropene	U		0.142	1.00	1	02/24/2024 11:30	WG2233119
1,3-Dichloropropane	U		0.110	1.00	1	02/24/2024 11:30	WG2233119
cis-1,3-Dichloropropene	U		0.111	1.00	1	02/24/2024 11:30	WG2233119
trans-1,3-Dichloropropene	U		0.118	1.00	1	02/24/2024 11:30	WG2233119
2,2-Dichloropropane	U		0.161	1.00	1	02/24/2024 11:30	WG2233119
Di-isopropyl ether	U	C3	0.105	1.00	1	02/24/2024 11:30	WG2233119
Ethylbenzene	U		0.137	1.00	1	02/24/2024 11:30	WG2233119
Hexachloro-1,3-butadiene	U		0.337	1.00	1	02/24/2024 11:30	WG2233119
Isopropylbenzene	U		0.105	1.00	1	02/24/2024 11:30	WG2233119
p-Isopropyltoluene	U		0.120	1.00	1	02/24/2024 11:30	WG2233119
2-Butanone (MEK)	U		1.19	10.0	1	02/24/2024 11:30	WG2233119
Methylene Chloride	U		0.430	5.00	1	02/24/2024 11:30	WG2233119
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	02/24/2024 11:30	WG2233119
Methyl tert-butyl ether	U		0.101	1.00	1	02/24/2024 11:30	WG2233119
Naphthalene	U	C3	1.00	5.00	1	02/24/2024 11:30	WG2233119
n-Propylbenzene	U		0.0993	1.00	1	02/24/2024 11:30	WG2233119
Styrene	U		0.118	1.00	1	02/24/2024 11:30	WG2233119
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	02/24/2024 11:30	WG2233119
1,1,2,2-Tetrachloroethane	U	C3	0.133	1.00	1	02/24/2024 11:30	WG2233119
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	02/24/2024 11:30	WG2233119
Tetrachloroethene	U	J4	0.300	1.00	1	02/24/2024 11:30	WG2233119
Toluene	U		0.278	1.00	1	02/24/2024 11:30	WG2233119
1,2,3-Trichlorobenzene	U		0.230	1.00	1	02/24/2024 11:30	WG2233119



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.481	1.00	1	02/24/2024 11:30	WG2233119
1,1,1-Trichloroethane	U		0.149	1.00	1	02/24/2024 11:30	WG2233119
1,1,2-Trichloroethane	U		0.158	1.00	1	02/24/2024 11:30	WG2233119
Trichloroethene	U	J4	0.190	1.00	1	02/24/2024 11:30	WG2233119
Trichlorofluoromethane	U		0.160	5.00	1	02/24/2024 11:30	WG2233119
1,2,3-Trichloropropane	U		0.237	2.50	1	02/24/2024 11:30	WG2233119
1,2,4-Trimethylbenzene	U		0.322	1.00	1	02/24/2024 11:30	WG2233119
1,2,3-Trimethylbenzene	U		0.104	1.00	1	02/24/2024 11:30	WG2233119
1,3,5-Trimethylbenzene	U		0.104	1.00	1	02/24/2024 11:30	WG2233119
Vinyl chloride	U		0.234	1.00	1	02/24/2024 11:30	WG2233119
Xylenes, Total	U		0.174	3.00	1	02/24/2024 11:30	WG2233119
(S) Toluene-d8	105			80.0-120		02/24/2024 11:30	WG2233119
(S) 4-Bromofluorobenzene	103			77.0-126		02/24/2024 11:30	WG2233119
(S) 1,2-Dichloroethane-d4	113			70.0-130		02/24/2024 11:30	WG2233119

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4030926-1 02/07/24 08:37

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00300			

L1702049-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1702049-01 02/07/24 08:37 • (DUP) R4030926-3 02/07/24 08:37

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	79.9	79.0	1	1.11		10

Laboratory Control Sample (LCS)

(LCS) R4030926-2 02/07/24 08:37

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	90.0-110	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4030923-1 02/07/24 08:18

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00300			

L1701325-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1701325-01 02/07/24 08:18 • (DUP) R4030923-3 02/07/24 08:18

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	79.4	79.9	1	0.588		10

Laboratory Control Sample (LCS)

(LCS) R4030923-2 02/07/24 08:18

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	90.0-110	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4030833-1 02/06/24 17:08

Analyte	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
	%		%	%
Total Solids	0.00300			

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1701988-25 Original Sample (OS) • Duplicate (DUP)

(OS) L1701988-25 02/06/24 17:08 • (DUP) R4030833-3 02/06/24 17:08

Analyte	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
	%	%		%		%
Total Solids	74.5	75.4	1	1.29		10

Laboratory Control Sample (LCS)

(LCS) R4030833-2 02/06/24 17:08

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
	%	%	%	%	
Total Solids	50.0	50.0	99.9	90.0-110	

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4031067-1 02/07/24 15:57

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Cadmium,Dissolved	U		0.150	1.00
Chromium,Dissolved	U		1.24	2.00
Lead,Dissolved	U		0.849	2.00

Laboratory Control Sample (LCS)

(LCS) R4031067-6 02/07/24 17:22

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cadmium,Dissolved	50.0	55.5	111	80.0-120	
Chromium,Dissolved	50.0	59.6	119	80.0-120	
Lead,Dissolved	50.0	58.0	116	80.0-120	

L1701988-40 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1701988-40 02/07/24 16:03 • (MS) R4031067-4 02/07/24 16:10 • (MSD) R4031067-5 02/07/24 16:13

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 %
Cadmium,Dissolved	50.0	U	54.8	53.8	110	108	1	75.0-125			1.97	20
Chromium,Dissolved	50.0	U	54.8	53.7	110	107	1	75.0-125			1.93	20
Lead,Dissolved	50.0	U	50.3	49.9	101	99.9	1	75.0-125			0.684	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4030545-1 02/06/24 18:54

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Cadmium	U		0.0855	1.00
Chromium	U		0.297	5.00
Lead	U		0.0990	2.00

Laboratory Control Sample (LCS)

(LCS) R4030545-2 02/06/24 18:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cadmium	100	98.6	98.6	80.0-120	
Chromium	100	98.0	98.0	80.0-120	
Lead	100	88.0	88.0	80.0-120	

L1702045-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1702045-12 02/06/24 19:01 • (MS) R4030545-5 02/06/24 19:11 • (MSD) R4030545-6 02/06/24 19:14

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Cadmium	100	0.436	105	93.7	105	93.2	5	75.0-125			11.8	20
Chromium	100	13.1	112	101	98.6	88.2	5	75.0-125			9.82	20
Lead	100	30.7	143	136	112	106	5	75.0-125			4.42	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4029941-2 02/05/24 09:48

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.200
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.630
Ethanol	0.381	U	0.265	2.50
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
n-Hexane	U		0.206	0.630
Isopropylbenzene	U		0.0777	0.200

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4029941-2 02/05/24 09:48

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
n-Propylbenzene	U		0.0773	0.200
Styrene	U		0.0788	0.200
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.630
(S) 1,4-Bromofluorobenzene	97.5			60.0-140

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4029941-1 02/05/24 09:24 • (LCSD) R4029941-3 02/05/24 11:16

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	3.82	3.79	102	101	70.0-130			0.788	25
Allyl chloride	3.75	4.00	4.06	107	108	70.0-130			1.49	25
Benzene	3.75	4.01	4.02	107	107	70.0-130			0.249	25
Benzyl Chloride	3.75	4.25	4.12	113	110	70.0-152			3.11	25
Bromodichloromethane	3.75	3.99	4.02	106	107	70.0-130			0.749	25
Bromoform	3.75	3.85	3.87	103	103	70.0-130			0.518	25
Bromomethane	3.75	3.86	3.89	103	104	70.0-130			0.774	25
1,3-Butadiene	3.75	4.24	4.21	113	112	70.0-130			0.710	25

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

(LCS) R4029941-1 02/05/24 09:24 • (LCSD) R4029941-3 02/05/24 11:16

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Carbon disulfide	3.75	3.96	4.00	106	107	70.0-130			1.01	25
Carbon tetrachloride	3.75	3.99	3.98	106	106	70.0-130			0.251	25
Chlorobenzene	3.75	4.00	3.99	107	106	70.0-130			0.250	25
Chloroethane	3.75	3.83	3.96	102	106	70.0-130			3.34	25
Chloroform	3.75	4.03	4.06	107	108	70.0-130			0.742	25
Chloromethane	3.75	3.93	3.87	105	103	70.0-130			1.54	25
2-Chlorotoluene	3.75	4.09	4.05	109	108	70.0-130			0.983	25
Cyclohexane	3.75	4.03	3.96	107	106	70.0-130			1.75	25
Dibromochloromethane	3.75	3.98	4.07	106	109	70.0-130			2.24	25
1,2-Dibromoethane	3.75	4.09	4.13	109	110	70.0-130			0.973	25
1,2-Dichlorobenzene	3.75	4.04	4.04	108	108	70.0-130			0.000	25
1,3-Dichlorobenzene	3.75	4.14	4.08	110	109	70.0-130			1.46	25
1,4-Dichlorobenzene	3.75	4.10	4.15	109	111	70.0-130			1.21	25
1,2-Dichloroethane	3.75	3.99	4.04	106	108	70.0-130			1.25	25
1,1-Dichloroethane	3.75	4.00	3.99	107	106	70.0-130			0.250	25
1,1-Dichloroethene	3.75	3.96	3.99	106	106	70.0-130			0.755	25
cis-1,2-Dichloroethene	3.75	4.01	3.94	107	105	70.0-130			1.76	25
trans-1,2-Dichloroethene	3.75	4.05	4.02	108	107	70.0-130			0.743	25
1,2-Dichloropropane	3.75	4.01	4.02	107	107	70.0-130			0.249	25
cis-1,3-Dichloropropene	3.75	4.26	4.38	114	117	70.0-130			2.78	25
trans-1,3-Dichloropropene	3.75	3.93	3.95	105	105	70.0-130			0.508	25
1,4-Dioxane	3.75	4.06	4.06	108	108	70.0-140			0.000	25
Ethanol	3.75	3.80	3.40	101	90.7	55.0-148			11.1	25
4-Ethyltoluene	3.75	4.21	4.11	112	110	70.0-130			2.40	25
Trichlorofluoromethane	3.75	3.99	3.95	106	105	70.0-130			1.01	25
Dichlorodifluoromethane	3.75	4.04	1.94	108	51.7	64.0-139		J3 J4	70.2	25
1,1,2-Trichlorotrifluoroethane	3.75	3.91	3.95	104	105	70.0-130			1.02	25
1,2-Dichlorotetrafluoroethane	3.75	4.08	3.49	109	93.1	70.0-130			15.6	25
Heptane	3.75	4.11	4.05	110	108	70.0-130			1.47	25
Hexachloro-1,3-butadiene	3.75	4.02	4.00	107	107	70.0-151			0.499	25
n-Hexane	3.75	4.03	4.00	107	107	70.0-130			0.747	25
Isopropylbenzene	3.75	4.17	4.10	111	109	70.0-130			1.69	25
Methylene Chloride	3.75	3.98	3.97	106	106	70.0-130			0.252	25
Methyl Butyl Ketone	3.75	4.91	4.84	131	129	70.0-149			1.44	25
2-Butanone (MEK)	3.75	4.07	3.87	109	103	70.0-130			5.04	25
4-Methyl-2-pentanone (MIBK)	3.75	4.27	4.19	114	112	70.0-139			1.89	25
Methyl methacrylate	3.75	4.00	4.07	107	109	70.0-130			1.73	25
MTBE	3.75	4.10	4.07	109	109	70.0-130			0.734	25
Naphthalene	3.75	4.30	4.31	115	115	70.0-159			0.232	25
2-Propanol	3.75	4.32	4.31	115	115	70.0-139			0.232	25

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4029941-1 02/05/24 09:24 • (LCSD) R4029941-3 02/05/24 11:16

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
n-Propylbenzene	3.75	4.19	4.14	112	110	70.0-130			1.20	25
Styrene	3.75	4.22	4.13	113	110	70.0-130			2.16	25
1,1,2,2-Tetrachloroethane	3.75	4.10	4.02	109	107	70.0-130			1.97	25
Tetrachloroethylene	3.75	3.98	3.99	106	106	70.0-130			0.251	25
Tetrahydrofuran	3.75	4.18	4.11	111	110	70.0-137			1.69	25
Toluene	3.75	4.07	4.01	109	107	70.0-130			1.49	25
1,2,4-Trichlorobenzene	3.75	4.14	4.19	110	112	70.0-160			1.20	25
1,1,1-Trichloroethane	3.75	3.97	3.97	106	106	70.0-130			0.000	25
1,1,2-Trichloroethane	3.75	3.97	4.00	106	107	70.0-130			0.753	25
Trichloroethylene	3.75	3.96	3.99	106	106	70.0-130			0.755	25
1,2,4-Trimethylbenzene	3.75	4.19	4.17	112	111	70.0-130			0.478	25
1,3,5-Trimethylbenzene	3.75	4.23	4.10	113	109	70.0-130			3.12	25
2,2,4-Trimethylpentane	3.75	4.04	4.01	108	107	70.0-130			0.745	25
Vinyl chloride	3.75	3.98	3.97	106	106	70.0-130			0.252	25
Vinyl Bromide	3.75	3.91	4.03	104	107	70.0-130			3.02	25
Vinyl acetate	3.75	4.01	4.02	107	107	70.0-130			0.249	25
(S) 1,4-Bromofluorobenzene				100	100	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4030551-2 02/06/24 11:20

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
cis-1,2-Dichloroethene	U		0.0784	0.200
Ethylbenzene	U		0.0835	0.200
n-Hexane	U		0.206	0.630
Propene	0.0934	U	0.0932	1.25
Trichloroethylene	U		0.0680	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
TPH (GC/MS) Low Fraction	41.2	U	39.7	200
(S) 1,4-Bromofluorobenzene	96.7			60.0-140

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

(LCS) R4030551-1 02/06/24 10:50 • (LCSD) R4030551-3 02/06/24 11:51

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
cis-1,2-Dichloroethene	3.75	3.80	3.70	101	98.7	70.0-130			2.67	25
Ethylbenzene	3.75	3.92	3.76	105	100	70.0-130			4.17	25
n-Hexane	3.75	3.87	3.76	103	100	70.0-130			2.88	25
Propene	3.75	3.62	3.43	96.5	91.5	64.0-144			5.39	25
Trichloroethylene	3.75	3.89	3.77	104	101	70.0-130			3.13	25
m&p-Xylene	7.50	7.80	7.80	104	104	70.0-130			0.000	25
o-Xylene	3.75	4.11	3.88	110	103	70.0-130			5.76	25
TPH (GC/MS) Low Fraction	188	179	177	95.2	94.1	70.0-130			1.12	25
(S) 1,4-Bromofluorobenzene				100	101	60.0-140				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4031329-3 02/07/24 12:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Gasoline Range Organics-NWTPH	0.862	J	0.848	2.50
(S) a,a,a-Trifluorotoluene(FID)	93.4			77.0-120

Laboratory Control Sample (LCS)

(LCS) R4031329-2 02/07/24 11:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5.50	6.33	115	71.0-124	
(S) a,a,a-Trifluorotoluene(FID)			105	77.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4031414-4 02/08/24 03:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Gasoline Range Organics-NWTPH	0.874	J	0.848	2.50
(S) a,a,a-Trifluorotoluene(FID)	93.9			77.0-120

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

(LCS) R4031414-2 02/08/24 01:38 • (LCSD) R4031414-3 02/08/24 02:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5.50	5.79	5.45	105	99.1	71.0-124			6.05	20
(S) a,a,a-Trifluorotoluene(FID)				104	103	77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4031830-2 02/09/24 00:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Gasoline Range Organics-NWTPH	1.44	J	0.848	2.50
(S) a,a,a-Trifluorotoluene(FID)	90.6			77.0-120

Laboratory Control Sample (LCS)

(LCS) R4031830-1 02/08/24 23:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5.50	6.47	118	71.0-124	
(S) a,a,a-Trifluorotoluene(FID)			103	77.0-120	

L1702036-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1702036-04 02/09/24 05:38 • (MS) R4031830-3 02/09/24 08:54 • (MSD) R4031830-4 02/09/24 09:18

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	224	2.29	232	223	102	98.4	31.5	50.0-150			3.99	27
(S) a,a,a-Trifluorotoluene(FID)					97.9	98.1		77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4031849-3 02/08/24 18:32

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Gasoline Range Organics-NWTPH	U		0.848	2.50
(S) a,a,a-Trifluorotoluene(FID)	97.0			77.0-120

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

(LCS) R4031849-1 02/08/24 15:52 • (LCSD) R4031849-2 02/08/24 17:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5.50	4.28	4.69	77.8	85.3	71.0-124			9.14	20
(S) a,a,a-Trifluorotoluene(FID)				103	103	77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4031850-3 02/08/24 18:32

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Gasoline Range Organics-NWTPH	U		0.848	2.50
(S) a,a,a-Trifluorotoluene(FID)	97.0			77.0-120

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

(LCS) R4031850-1 02/08/24 15:52 • (LCSD) R4031850-2 02/08/24 17:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5.50	4.28	4.69	77.8	85.3	71.0-124			9.14	20
(S) a,a,a-Trifluorotoluene(FID)				103	103	77.0-120				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4031861-2 02/08/24 14:00

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)	105			78.0-120

Laboratory Control Sample (LCS)

(LCS) R4031861-1 02/08/24 11:46

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5330	96.9	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			103	78.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4030504-3 02/05/24 18:37

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromobenzene	U		0.118	1.00
Bromodichloromethane	U		0.136	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
n-Butylbenzene	U		0.157	1.00
sec-Butylbenzene	U		0.125	1.00
tert-Butylbenzene	U		0.127	1.00
Carbon disulfide	U		0.0962	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
2-Chlorotoluene	U		0.106	1.00
4-Chlorotoluene	U		0.114	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
Dibromomethane	U		0.122	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	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
1,2-Dichloropropane	U		0.149	1.00
1,1-Dichloropropene	U		0.142	1.00
1,3-Dichloropropane	U		0.110	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
2,2-Dichloropropane	U		0.161	1.00
Di-isopropyl ether	U		0.105	1.00
Ethylbenzene	U		0.137	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4030504-3 02/05/24 18:37

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.337	1.00
Isopropylbenzene	U		0.105	1.00
p-Isopropyltoluene	U		0.120	1.00
2-Butanone (MEK)	U		1.19	10.0
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.0993	1.00
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trichloropropane	U		0.237	2.50
1,2,4-Trimethylbenzene	U		0.322	1.00
1,2,3-Trimethylbenzene	U		0.104	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	103			80.0-120
(S) 4-Bromofluorobenzene	102			77.0-126
(S) 1,2-Dichloroethane-d4	98.6			70.0-130

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4030504-1 02/05/24 17:40 • (LCSD) R4030504-2 02/05/24 17:59

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 %
Acetone	25.0	27.7	27.6	111	110	19.0-160			0.362	27
Acrolein	25.0	16.8	16.9	67.2	67.6	10.0-160			0.593	26
Acrylonitrile	25.0	20.9	21.4	83.6	85.6	55.0-149			2.36	20

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

(LCS) R4030504-1 02/05/24 17:40 • (LCSD) R4030504-2 02/05/24 17:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Benzene	5.00	4.86	5.05	97.2	101	70.0-123			3.83	20
Bromobenzene	5.00	5.43	5.71	109	114	73.0-121			5.03	20
Bromodichloromethane	5.00	4.94	5.25	98.8	105	75.0-120			6.08	20
Bromoform	5.00	4.89	5.11	97.8	102	68.0-132			4.40	20
Bromomethane	5.00	5.21	5.49	104	110	10.0-160			5.23	25
n-Butylbenzene	5.00	4.99	5.35	99.8	107	73.0-125			6.96	20
sec-Butylbenzene	5.00	5.35	5.50	107	110	75.0-125			2.76	20
tert-Butylbenzene	5.00	5.22	5.54	104	111	76.0-124			5.95	20
Carbon disulfide	5.00	5.26	5.29	105	106	61.0-128			0.569	20
Carbon tetrachloride	5.00	6.73	6.23	135	125	68.0-126	J4		7.72	20
Chlorobenzene	5.00	5.03	5.27	101	105	80.0-121			4.66	20
Chlorodibromomethane	5.00	5.23	5.55	105	111	77.0-125			5.94	20
Chloroethane	5.00	5.17	5.14	103	103	47.0-150			0.582	20
Chloroform	5.00	4.89	5.16	97.8	103	73.0-120			5.37	20
Chloromethane	5.00	4.65	4.86	93.0	97.2	41.0-142			4.42	20
2-Chlorotoluene	5.00	5.20	5.22	104	104	76.0-123			0.384	20
4-Chlorotoluene	5.00	4.99	5.31	99.8	106	75.0-122			6.21	20
1,2-Dibromo-3-Chloropropane	5.00	4.98	5.03	99.6	101	58.0-134			0.999	20
1,2-Dibromoethane	5.00	5.09	5.41	102	108	80.0-122			6.10	20
Dibromomethane	5.00	5.02	5.36	100	107	80.0-120			6.55	20
1,2-Dichlorobenzene	5.00	4.75	5.24	95.0	105	79.0-121			9.81	20
1,3-Dichlorobenzene	5.00	5.05	5.35	101	107	79.0-120			5.77	20
1,4-Dichlorobenzene	5.00	4.93	5.29	98.6	106	79.0-120			7.05	20
Dichlorodifluoromethane	5.00	6.20	5.81	124	116	51.0-149			6.49	20
1,1-Dichloroethane	5.00	5.12	5.28	102	106	70.0-126			3.08	20
1,2-Dichloroethane	5.00	4.71	5.09	94.2	102	70.0-128			7.76	20
1,1-Dichloroethene	5.00	5.93	5.82	119	116	71.0-124			1.87	20
cis-1,2-Dichloroethene	5.00	4.92	5.12	98.4	102	73.0-120			3.98	20
trans-1,2-Dichloroethene	5.00	5.24	5.28	105	106	73.0-120			0.760	20
1,2-Dichloropropane	5.00	4.63	4.92	92.6	98.4	77.0-125			6.07	20
1,1-Dichloropropene	5.00	6.02	5.94	120	119	74.0-126			1.34	20
1,3-Dichloropropane	5.00	4.91	5.15	98.2	103	80.0-120			4.77	20
cis-1,3-Dichloropropene	5.00	4.83	5.10	96.6	102	80.0-123			5.44	20
trans-1,3-Dichloropropene	5.00	4.75	5.08	95.0	102	78.0-124			6.71	20
2,2-Dichloropropane	5.00	5.65	5.48	113	110	58.0-130			3.05	20
Di-isopropyl ether	5.00	4.48	4.75	89.6	95.0	58.0-138			5.85	20
Ethylbenzene	5.00	5.18	5.45	104	109	79.0-123			5.08	20
Hexachloro-1,3-butadiene	5.00	4.54	5.13	90.8	103	54.0-138			12.2	20
Isopropylbenzene	5.00	5.32	5.55	106	111	76.0-127			4.23	20
p-Isopropyltoluene	5.00	5.30	5.48	106	110	76.0-125			3.34	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4030504-1 02/05/24 17:40 • (LCSD) R4030504-2 02/05/24 17:59

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
2-Butanone (MEK)	25.0	24.2	26.0	96.8	104	44.0-160			7.17	20
Methylene Chloride	5.00	4.69	4.63	93.8	92.6	67.0-120			1.29	20
4-Methyl-2-pentanone (MIBK)	25.0	24.6	26.4	98.4	106	68.0-142			7.06	20
Methyl tert-butyl ether	5.00	4.82	5.21	96.4	104	68.0-125			7.78	20
Naphthalene	5.00	4.27	4.99	85.4	99.8	54.0-135			15.6	20
n-Propylbenzene	5.00	5.42	5.72	108	114	77.0-124			5.39	20
Styrene	5.00	4.99	5.23	99.8	105	73.0-130			4.70	20
1,1,1,2-Tetrachloroethane	5.00	5.37	5.64	107	113	75.0-125			4.90	20
1,1,2,2-Tetrachloroethane	5.00	4.84	4.88	96.8	97.6	65.0-130			0.823	20
1,1,2-Trichlorotrifluoroethane	5.00	5.71	5.36	114	107	69.0-132			6.32	20
Tetrachloroethene	5.00	5.99	5.96	120	119	72.0-132			0.502	20
Toluene	5.00	5.13	5.14	103	103	79.0-120			0.195	20
1,2,3-Trichlorobenzene	5.00	4.61	5.07	92.2	101	50.0-138			9.50	20
1,2,4-Trichlorobenzene	5.00	4.29	4.93	85.8	98.6	57.0-137			13.9	20
1,1,1-Trichloroethane	5.00	5.72	5.79	114	116	73.0-124			1.22	20
1,1,2-Trichloroethane	5.00	5.03	5.27	101	105	80.0-120			4.66	20
Trichloroethene	5.00	5.36	5.48	107	110	78.0-124			2.21	20
Trichlorofluoromethane	5.00	5.59	5.57	112	111	59.0-147			0.358	20
1,2,3-Trichloropropane	5.00	5.09	5.40	102	108	73.0-130			5.91	20
1,2,4-Trimethylbenzene	5.00	4.87	5.24	97.4	105	76.0-121			7.32	20
1,2,3-Trimethylbenzene	5.00	4.80	5.20	96.0	104	77.0-120			8.00	20
1,3,5-Trimethylbenzene	5.00	5.08	5.27	102	105	76.0-122			3.67	20
Vinyl chloride	5.00	5.46	5.35	109	107	67.0-131			2.04	20
Xylenes, Total	15.0	15.2	16.1	101	107	79.0-123			5.75	20
(S) Toluene-d8				103	101	80.0-120				
(S) 4-Bromofluorobenzene				101	101	77.0-126				
(S) 1,2-Dichloroethane-d4				101	101	70.0-130				

L1702129-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1702129-07 02/06/24 03:21 • (MS) R4030504-4 02/06/24 03:40 • (MSD) R4030504-5 02/06/24 03:59

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Acetone	25.0	U	49.2	31.1	197	124	1	10.0-160	J5	J3	45.1	35
Acrolein	25.0	U	14.1	8.23	56.4	32.9	1	10.0-160		J3	52.6	39
Acrylonitrile	25.0	U	25.1	22.5	100	90.0	1	21.0-160			10.9	32
Benzene	5.00	U	4.59	4.45	91.8	89.0	1	17.0-158			3.10	27
Bromobenzene	5.00	U	5.43	5.38	109	108	1	30.0-149			0.925	28
Bromodichloromethane	5.00	U	5.36	5.30	107	106	1	31.0-150			1.13	27

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1702129-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1702129-07 02/06/24 03:21 • (MS) R4030504-4 02/06/24 03:40 • (MSD) R4030504-5 02/06/24 03:59

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 %
Bromoform	5.00	U	4.50	4.36	90.0	87.2	1	29.0-150			3.16	29
Bromomethane	5.00	U	3.70	3.48	74.0	69.6	1	10.0-160			6.13	38
n-Butylbenzene	5.00	U	5.03	4.75	101	95.0	1	31.0-150			5.73	30
sec-Butylbenzene	5.00	U	5.25	5.33	105	107	1	33.0-155			1.51	29
tert-Butylbenzene	5.00	U	5.23	5.43	105	109	1	34.0-153			3.75	28
Carbon disulfide	5.00	U	2.16	2.08	43.2	41.6	1	10.0-156			3.77	28
Carbon tetrachloride	5.00	U	6.31	6.14	126	123	1	23.0-159			2.73	28
Chlorobenzene	5.00	U	5.10	4.95	102	99.0	1	33.0-152			2.99	27
Chlorodibromomethane	5.00	U	5.01	5.01	100	100	1	37.0-149			0.000	27
Chloroethane	5.00	U	3.95	3.89	79.0	77.8	1	10.0-160			1.53	30
Chloroform	5.00	U	5.19	4.78	104	95.6	1	29.0-154			8.22	28
Chloromethane	5.00	U	3.09	2.92	61.8	58.4	1	10.0-160			5.66	29
2-Chlorotoluene	5.00	U	4.91	4.97	98.2	99.4	1	32.0-153			1.21	28
4-Chlorotoluene	5.00	U	4.87	5.03	97.4	101	1	32.0-150			3.23	28
1,2-Dibromo-3-Chloropropane	5.00	U	4.53	4.50	90.6	90.0	1	22.0-151			0.664	34
1,2-Dibromoethane	5.00	U	4.93	5.01	98.6	100	1	34.0-147			1.61	27
Dibromomethane	5.00	U	5.16	4.97	103	99.4	1	30.0-151			3.75	27
1,2-Dichlorobenzene	5.00	U	5.20	4.99	104	99.8	1	34.0-149			4.12	28
1,3-Dichlorobenzene	5.00	U	5.25	5.02	105	100	1	36.0-146			4.48	27
1,4-Dichlorobenzene	5.00	U	4.94	5.00	98.8	100	1	35.0-142			1.21	27
Dichlorodifluoromethane	5.00	U	4.02	3.39	80.4	67.8	1	10.0-160			17.0	29
1,1-Dichloroethane	5.00	U	5.11	4.83	102	96.6	1	25.0-158			5.63	27
1,2-Dichloroethane	5.00	U	4.99	4.63	99.8	92.6	1	29.0-151			7.48	27
1,1-Dichloroethene	5.00	U	5.00	4.49	100	89.8	1	11.0-160			10.7	29
cis-1,2-Dichloroethene	5.00	U	5.02	4.58	100	91.6	1	10.0-160			9.17	27
trans-1,2-Dichloroethene	5.00	U	4.09	4.00	81.8	80.0	1	17.0-153			2.22	27
1,2-Dichloropropane	5.00	U	4.80	4.49	96.0	89.8	1	30.0-156			6.67	27
1,1-Dichloropropene	5.00	U	5.10	5.02	102	100	1	25.0-158			1.58	27
1,3-Dichloropropane	5.00	U	4.99	4.98	99.8	99.6	1	38.0-147			0.201	27
cis-1,3-Dichloropropene	5.00	U	4.71	4.60	94.2	92.0	1	34.0-149			2.36	28
trans-1,3-Dichloropropene	5.00	U	4.43	4.59	88.6	91.8	1	32.0-149			3.55	28
2,2-Dichloropropane	5.00	U	5.38	5.05	108	101	1	24.0-152			6.33	29
Di-isopropyl ether	5.00	U	4.93	4.72	98.6	94.4	1	21.0-160			4.35	28
Ethylbenzene	5.00	U	4.85	4.86	97.0	97.2	1	30.0-155			0.206	27
Hexachloro-1,3-butadiene	5.00	U	4.94	4.25	98.8	85.0	1	20.0-154			15.0	34
Isopropylbenzene	5.00	U	5.39	5.32	108	106	1	28.0-157			1.31	27
p-Isopropyltoluene	5.00	U	4.98	5.09	99.6	102	1	30.0-154			2.18	29
2-Butanone (MEK)	25.0	U	26.6	23.2	106	92.8	1	10.0-160			13.7	32
Methylene Chloride	5.00	U	4.10	4.07	82.0	81.4	1	23.0-144			0.734	28
4-Methyl-2-pentanone (MIBK)	25.0	U	25.8	25.7	103	103	1	29.0-160			0.388	29

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1702129-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1702129-07 02/06/24 03:21 • (MS) R4030504-4 02/06/24 03:40 • (MSD) R4030504-5 02/06/24 03:59

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 %
Methyl tert-butyl ether	5.00	U	5.27	5.02	105	100	1	28.0-150			4.86	29
Naphthalene	5.00	U	4.21	4.44	84.2	88.8	1	12.0-156			5.32	35
n-Propylbenzene	5.00	U	5.15	5.22	103	104	1	31.0-154			1.35	28
Styrene	5.00	U	5.09	4.84	102	96.8	1	33.0-155			5.04	28
1,1,1,2-Tetrachloroethane	5.00	U	5.71	5.75	114	115	1	36.0-151			0.698	29
1,1,2,2-Tetrachloroethane	5.00	U	5.04	5.13	101	103	1	33.0-150			1.77	28
1,1,2-Trichlorotrifluoroethane	5.00	U	5.14	4.83	103	96.6	1	23.0-160			6.22	30
Tetrachloroethene	5.00	U	5.04	4.92	101	98.4	1	10.0-160			2.41	27
Toluene	5.00	U	4.62	4.65	92.4	93.0	1	26.0-154			0.647	28
1,2,3-Trichlorobenzene	5.00	U	4.08	4.47	81.6	89.4	1	17.0-150			9.12	36
1,2,4-Trichlorobenzene	5.00	U	4.50	4.17	90.0	83.4	1	24.0-150			7.61	33
1,1,1-Trichloroethane	5.00	U	6.23	5.82	125	116	1	23.0-160			6.80	28
1,1,2-Trichloroethane	5.00	U	5.41	5.40	108	108	1	35.0-147			0.185	27
Trichloroethene	5.00	U	5.05	4.70	101	94.0	1	10.0-160			7.18	25
Trichlorofluoromethane	5.00	U	4.87	4.76	97.4	95.2	1	17.0-160			2.28	31
1,2,3-Trichloropropane	5.00	U	5.26	5.58	105	112	1	34.0-151			5.90	29
1,2,4-Trimethylbenzene	5.00	U	4.79	4.83	95.8	96.6	1	26.0-154			0.832	27
1,2,3-Trimethylbenzene	5.00	U	4.78	4.84	95.6	96.8	1	32.0-149			1.25	28
1,3,5-Trimethylbenzene	5.00	U	4.96	5.03	99.2	101	1	28.0-153			1.40	27
Vinyl chloride	5.00	U	3.70	3.52	74.0	70.4	1	10.0-160			4.99	27
Xylenes, Total	15.0	U	14.9	14.6	99.3	97.3	1	29.0-154			2.03	28
(S) Toluene-d8					99.1	101		80.0-120				
(S) 4-Bromofluorobenzene					101	102		77.0-126				
(S) 1,2-Dichloroethane-d4					104	99.8		70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4038168-3 02/24/24 10:46

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromobenzene	U		0.118	1.00
Bromodichloromethane	U		0.136	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
n-Butylbenzene	U		0.157	1.00
sec-Butylbenzene	U		0.125	1.00
tert-Butylbenzene	U		0.127	1.00
Carbon disulfide	U		0.0962	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
2-Chlorotoluene	U		0.106	1.00
4-Chlorotoluene	U		0.114	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
Dibromomethane	U		0.122	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	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
1,2-Dichloropropane	U		0.149	1.00
1,1-Dichloropropene	U		0.142	1.00
1,3-Dichloropropane	U		0.110	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
2,2-Dichloropropane	U		0.161	1.00
Di-isopropyl ether	U		0.105	1.00
Ethylbenzene	U		0.137	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4038168-3 02/24/24 10:46

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.337	1.00
Isopropylbenzene	U		0.105	1.00
p-Isopropyltoluene	U		0.120	1.00
2-Butanone (MEK)	U		1.19	10.0
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.0993	1.00
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trichloropropane	U		0.237	2.50
1,2,4-Trimethylbenzene	U		0.322	1.00
1,2,3-Trimethylbenzene	U		0.104	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	104			80.0-120
(S) 4-Bromofluorobenzene	104			77.0-126
(S) 1,2-Dichloroethane-d4	115			70.0-130

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

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Gl

8
Al

9
Sc

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

(LCS) R4038168-1 02/24/24 09:45 • (LCSD) R4038168-2 02/24/24 10:06

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 %
Acetone	25.0	44.1	33.6	176	134	19.0-160	J4		27.0	27
Acrolein	25.0	20.9	20.7	83.6	82.8	10.0-160			0.962	26
Acrylonitrile	25.0	24.8	25.0	99.2	100	55.0-149			0.803	20

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

(LCS) R4038168-1 02/24/24 09:45 • (LCSD) R4038168-2 02/24/24 10:06

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Benzene	5.00	4.66	4.83	93.2	96.6	70.0-123			3.58	20
Bromobenzene	5.00	3.93	4.03	78.6	80.6	73.0-121			2.51	20
Bromodichloromethane	5.00	5.26	5.44	105	109	75.0-120			3.36	20
Bromoform	5.00	6.47	6.40	129	128	68.0-132			1.09	20
Bromomethane	5.00	5.43	5.68	109	114	10.0-160			4.50	25
n-Butylbenzene	5.00	4.50	4.61	90.0	92.2	73.0-125			2.41	20
sec-Butylbenzene	5.00	4.26	4.38	85.2	87.6	75.0-125			2.78	20
tert-Butylbenzene	5.00	4.50	4.55	90.0	91.0	76.0-124			1.10	20
Carbon disulfide	5.00	4.67	4.73	93.4	94.6	61.0-128			1.28	20
Carbon tetrachloride	5.00	6.21	6.50	124	130	68.0-126		J4	4.56	20
Chlorobenzene	5.00	5.65	5.70	113	114	80.0-121			0.881	20
Chlorodibromomethane	5.00	6.00	5.98	120	120	77.0-125			0.334	20
Chloroethane	5.00	4.60	4.73	92.0	94.6	47.0-150			2.79	20
Chloroform	5.00	5.28	5.35	106	107	73.0-120			1.32	20
Chloromethane	5.00	4.31	4.35	86.2	87.0	41.0-142			0.924	20
2-Chlorotoluene	5.00	4.23	4.26	84.6	85.2	76.0-123			0.707	20
4-Chlorotoluene	5.00	4.19	4.23	83.8	84.6	75.0-122			0.950	20
1,2-Dibromo-3-Chloropropane	5.00	4.47	4.61	89.4	92.2	58.0-134			3.08	20
1,2-Dibromoethane	5.00	5.53	5.42	111	108	80.0-122			2.01	20
Dibromomethane	5.00	5.49	5.57	110	111	80.0-120			1.45	20
1,2-Dichlorobenzene	5.00	5.04	4.93	101	98.6	79.0-121			2.21	20
1,3-Dichlorobenzene	5.00	4.95	5.01	99.0	100	79.0-120			1.20	20
1,4-Dichlorobenzene	5.00	5.04	5.00	101	100	79.0-120			0.797	20
Dichlorodifluoromethane	5.00	6.46	6.47	129	129	51.0-149			0.155	20
1,1-Dichloroethane	5.00	4.73	4.72	94.6	94.4	70.0-126			0.212	20
1,2-Dichloroethane	5.00	5.65	5.60	113	112	70.0-128			0.889	20
1,1-Dichloroethene	5.00	5.21	5.45	104	109	71.0-124			4.50	20
cis-1,2-Dichloroethene	5.00	5.13	5.31	103	106	73.0-120			3.45	20
trans-1,2-Dichloroethene	5.00	5.28	5.43	106	109	73.0-120			2.80	20
1,2-Dichloropropane	5.00	4.25	4.48	85.0	89.6	77.0-125			5.27	20
1,1-Dichloropropene	5.00	4.85	5.03	97.0	101	74.0-126			3.64	20
1,3-Dichloropropane	5.00	4.83	4.79	96.6	95.8	80.0-120			0.832	20
cis-1,3-Dichloropropene	5.00	4.65	4.68	93.0	93.6	80.0-123			0.643	20
trans-1,3-Dichloropropene	5.00	4.83	4.84	96.6	96.8	78.0-124			0.207	20
2,2-Dichloropropane	5.00	5.36	5.18	107	104	58.0-130			3.42	20
Di-isopropyl ether	5.00	3.86	3.86	77.2	77.2	58.0-138			0.000	20
Ethylbenzene	5.00	5.32	5.42	106	108	79.0-123			1.86	20
Hexachloro-1,3-butadiene	5.00	5.24	5.25	105	105	54.0-138			0.191	20
Isopropylbenzene	5.00	5.44	5.41	109	108	76.0-127			0.553	20
p-Isopropyltoluene	5.00	4.46	4.51	89.2	90.2	76.0-125			1.11	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4038168-1 02/24/24 09:45 • (LCSD) R4038168-2 02/24/24 10:06

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
2-Butanone (MEK)	25.0	22.2	22.7	88.8	90.8	44.0-160			2.23	20
Methylene Chloride	5.00	5.02	5.12	100	102	67.0-120			1.97	20
4-Methyl-2-pentanone (MIBK)	25.0	20.2	20.3	80.8	81.2	68.0-142			0.494	20
Methyl tert-butyl ether	5.00	5.19	5.18	104	104	68.0-125			0.193	20
Naphthalene	5.00	3.67	3.82	73.4	76.4	54.0-135			4.01	20
n-Propylbenzene	5.00	4.09	4.15	81.8	83.0	77.0-124			1.46	20
Styrene	5.00	5.21	5.10	104	102	73.0-130			2.13	20
1,1,1,2-Tetrachloroethane	5.00	6.05	6.11	121	122	75.0-125			0.987	20
1,1,2,2-Tetrachloroethane	5.00	3.87	3.94	77.4	78.8	65.0-130			1.79	20
1,1,2-Trichlorotrifluoroethane	5.00	5.44	5.84	109	117	69.0-132			7.09	20
Tetrachloroethene	5.00	6.55	6.67	131	133	72.0-132		J4	1.82	20
Toluene	5.00	5.07	5.09	101	102	79.0-120			0.394	20
1,2,3-Trichlorobenzene	5.00	4.71	4.71	94.2	94.2	50.0-138			0.000	20
1,2,4-Trichlorobenzene	5.00	4.94	4.88	98.8	97.6	57.0-137			1.22	20
1,1,1-Trichloroethane	5.00	5.95	5.98	119	120	73.0-124			0.503	20
1,1,2-Trichloroethane	5.00	5.20	5.22	104	104	80.0-120			0.384	20
Trichloroethene	5.00	5.89	6.32	118	126	78.0-124		J4	7.04	20
Trichlorofluoromethane	5.00	6.94	7.23	139	145	59.0-147			4.09	20
1,2,3-Trichloropropane	5.00	4.67	5.01	93.4	100	73.0-130			7.02	20
1,2,4-Trimethylbenzene	5.00	4.37	4.37	87.4	87.4	76.0-121			0.000	20
1,2,3-Trimethylbenzene	5.00	4.42	4.42	88.4	88.4	77.0-120			0.000	20
1,3,5-Trimethylbenzene	5.00	4.46	4.53	89.2	90.6	76.0-122			1.56	20
Vinyl chloride	5.00	4.76	4.93	95.2	98.6	67.0-131			3.51	20
Xylenes, Total	15.0	16.4	16.4	109	109	79.0-123			0.000	20
(S) Toluene-d8				105	104	80.0-120				
(S) 4-Bromofluorobenzene				104	102	77.0-126				
(S) 1,2-Dichloroethane-d4				112	112	70.0-130				

L1707016-47 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1707016-47 02/24/24 14:54 • (MS) R4038168-4 02/24/24 18:17 • (MSD) R4038168-5 02/24/24 18:37

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Acetone	25.0	U	43.6	35.4	174	142	1	10.0-160	J5		20.8	35
Acrolein	25.0	U	47.2	38.4	189	154	1	10.0-160	J5		20.6	39
Acrylonitrile	25.0	U	28.3	25.6	113	102	1	21.0-160			10.0	32
Benzene	5.00	U	6.83	6.11	137	122	1	17.0-158			11.1	27
Bromobenzene	5.00	U	4.67	4.88	93.4	97.6	1	30.0-149			4.40	28
Bromodichloromethane	5.00	U	6.18	6.12	124	122	1	31.0-150			0.976	27

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

L1707016-47 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1707016-47 02/24/24 14:54 • (MS) R4038168-4 02/24/24 18:17 • (MSD) R4038168-5 02/24/24 18:37

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 %
Bromoform	5.00	U	7.25	7.36	145	147	1	29.0-150			1.51	29
Bromomethane	5.00	U	6.04	6.08	121	122	1	10.0-160			0.660	38
n-Butylbenzene	5.00	U	5.88	5.50	118	110	1	31.0-150			6.68	30
sec-Butylbenzene	5.00	U	5.48	5.56	110	111	1	33.0-155			1.45	29
tert-Butylbenzene	5.00	U	5.64	5.87	113	117	1	34.0-153			4.00	28
Carbon disulfide	5.00	0.157	6.08	5.40	118	105	1	10.0-156			11.8	28
Carbon tetrachloride	5.00	U	7.76	7.66	155	153	1	23.0-159			1.30	28
Chlorobenzene	5.00	U	6.48	6.75	130	135	1	33.0-152			4.08	27
Chlorodibromomethane	5.00	U	6.78	6.88	136	138	1	37.0-149			1.46	27
Chloroethane	5.00	U	5.46	5.19	109	104	1	10.0-160			5.07	30
Chloroform	5.00	U	6.38	6.06	128	121	1	29.0-154			5.14	28
Chloromethane	5.00	U	4.62	4.50	92.4	90.0	1	10.0-160			2.63	29
2-Chlorotoluene	5.00	U	5.30	5.31	106	106	1	32.0-153			0.189	28
4-Chlorotoluene	5.00	U	4.83	5.13	96.6	103	1	32.0-150			6.02	28
1,2-Dibromo-3-Chloropropane	5.00	U	5.23	5.71	105	114	1	22.0-151			8.78	34
1,2-Dibromoethane	5.00	U	6.91	6.64	138	133	1	34.0-147			3.99	27
Dibromomethane	5.00	U	6.47	6.21	129	124	1	30.0-151			4.10	27
1,2-Dichlorobenzene	5.00	U	5.57	5.84	111	117	1	34.0-149			4.73	28
1,3-Dichlorobenzene	5.00	U	5.45	5.69	109	114	1	36.0-146			4.31	27
1,4-Dichlorobenzene	5.00	U	5.47	5.76	109	115	1	35.0-142			5.16	27
Dichlorodifluoromethane	5.00	U	7.72	7.50	154	150	1	10.0-160			2.89	29
1,1-Dichloroethane	5.00	U	5.57	5.49	111	110	1	25.0-158			1.45	27
1,2-Dichloroethane	5.00	0.607	6.49	6.21	118	112	1	29.0-151			4.41	27
1,1-Dichloroethene	5.00	U	6.71	6.64	134	133	1	11.0-160			1.05	29
cis-1,2-Dichloroethene	5.00	U	6.25	6.13	125	123	1	10.0-160			1.94	27
trans-1,2-Dichloroethene	5.00	U	6.53	6.38	131	128	1	17.0-153			2.32	27
1,2-Dichloropropane	5.00	U	5.39	5.18	108	104	1	30.0-156			3.97	27
1,1-Dichloropropene	5.00	U	6.23	6.14	125	123	1	25.0-158			1.46	27
1,3-Dichloropropane	5.00	U	5.69	5.77	114	115	1	38.0-147			1.40	27
cis-1,3-Dichloropropene	5.00	U	5.58	5.49	112	110	1	34.0-149			1.63	28
trans-1,3-Dichloropropene	5.00	U	5.71	5.79	114	116	1	32.0-149			1.39	28
2,2-Dichloropropane	5.00	U	6.73	6.18	135	124	1	24.0-152			8.52	29
Di-isopropyl ether	5.00	U	4.45	4.39	89.0	87.8	1	21.0-160			1.36	28
Ethylbenzene	5.00	U	9.71	7.59	194	152	1	30.0-155	J5		24.5	27
Hexachloro-1,3-butadiene	5.00	U	5.63	6.15	113	123	1	20.0-154			8.83	34
Isopropylbenzene	5.00	U	7.17	6.93	143	139	1	28.0-157			3.40	27
p-Isopropyltoluene	5.00	U	5.73	5.74	115	115	1	30.0-154			0.174	29
2-Butanone (MEK)	25.0	U	24.7	23.2	98.8	92.8	1	10.0-160			6.26	32
Methylene Chloride	5.00	U	5.90	5.86	118	117	1	23.0-144			0.680	28
4-Methyl-2-pentanone (MIBK)	25.0	U	23.4	22.8	93.6	91.2	1	29.0-160			2.60	29

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L1707016-47 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1707016-47 02/24/24 14:54 • (MS) R4038168-4 02/24/24 18:17 • (MSD) R4038168-5 02/24/24 18:37

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 %
Methyl tert-butyl ether	5.00	U	6.03	5.87	121	117	1	28.0-150			2.69	29
Naphthalene	5.00	U	32.1	8.50	642	170	1	12.0-156	J5	J3 J5	116	35
n-Propylbenzene	5.00	U	5.90	5.34	118	107	1	31.0-154			9.96	28
Styrene	5.00	U	5.58	5.78	112	116	1	33.0-155			3.52	28
1,1,1,2-Tetrachloroethane	5.00	U	7.13	7.15	143	143	1	36.0-151			0.280	29
1,1,2,2-Tetrachloroethane	5.00	U	4.88	4.95	97.6	99.0	1	33.0-150			1.42	28
1,1,2-Trichlorotrifluoroethane	5.00	U	7.34	7.14	147	143	1	23.0-160			2.76	30
Tetrachloroethene	5.00	U	7.80	7.97	156	159	1	10.0-160			2.16	27
Toluene	5.00	U	16.5	8.93	330	179	1	26.0-154	J5	J3 J5	59.5	28
1,2,3-Trichlorobenzene	5.00	U	4.71	5.38	94.2	108	1	17.0-150			13.3	36
1,2,4-Trichlorobenzene	5.00	U	5.06	5.50	101	110	1	24.0-150			8.33	33
1,1,1-Trichloroethane	5.00	U	7.45	7.17	149	143	1	23.0-160			3.83	28
1,1,2-Trichloroethane	5.00	U	6.22	6.34	124	127	1	35.0-147			1.91	27
Trichloroethene	5.00	U	6.97	7.06	139	141	1	10.0-160			1.28	25
Trichlorofluoromethane	5.00	U	8.47	8.33	169	167	1	17.0-160	J5	J5	1.67	31
1,2,3-Trichloropropane	5.00	U	5.89	6.00	118	120	1	34.0-151			1.85	29
1,2,4-Trimethylbenzene	5.00	U	16.1	7.60	322	152	1	26.0-154	J5	J3	71.7	27
1,2,3-Trimethylbenzene	5.00	U	8.40	6.18	168	124	1	32.0-149	J5	J3	30.5	28
1,3,5-Trimethylbenzene	5.00	U	8.22	6.18	164	124	1	28.0-153	J5	J3	28.3	27
Vinyl chloride	5.00	U	5.56	5.39	111	108	1	10.0-160			3.11	27
Xylenes, Total	15.0	U	39.5	24.5	263	163	1	29.0-154	J5	J3 J5	46.9	28
(S) Toluene-d8					104	105		80.0-120				
(S) 4-Bromofluorobenzene					105	102		77.0-126				
(S) 1,2-Dichloroethane-d4					108	102		70.0-130				

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Method Blank (MB)

(MB) R4032988-3 02/10/24 00:04

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon disulfide	U		0.000700	0.0125
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250

¹Cp

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Method Blank (MB)

(MB) R4032988-3 02/10/24 00:04

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Isopropylbenzene	U		0.000425	0.00250
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	98.1			75.0-131
(S) 4-Bromofluorobenzene	94.2			67.0-138
(S) 1,2-Dichloroethane-d4	81.8			70.0-130

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

(LCS) R4032988-1 02/09/24 22:15 • (LCSD) R4032988-2 02/09/24 22:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	0.739	0.832	118	133	10.0-160			11.8	31
Acrylonitrile	0.625	0.665	0.720	106	115	45.0-153			7.94	22
Benzene	0.125	0.118	0.122	94.4	97.6	70.0-123			3.33	20
Bromobenzene	0.125	0.118	0.118	94.4	94.4	73.0-121			0.000	20

1Cp

2Tc

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8Al

9Sc

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

(LCS) R4032988-1 02/09/24 22:15 • (LCSD) R4032988-2 02/09/24 22:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromodichloromethane	0.125	0.122	0.127	97.6	102	73.0-121			4.02	20
Bromoform	0.125	0.119	0.130	95.2	104	64.0-132			8.84	20
Bromomethane	0.125	0.106	0.110	84.8	88.0	56.0-147			3.70	20
n-Butylbenzene	0.125	0.108	0.109	86.4	87.2	68.0-135			0.922	20
sec-Butylbenzene	0.125	0.116	0.121	92.8	96.8	74.0-130			4.22	20
tert-Butylbenzene	0.125	0.0942	0.0946	75.4	75.7	75.0-127			0.424	20
Carbon disulfide	0.125	0.0972	0.103	77.8	82.4	56.0-133			5.79	20
Carbon tetrachloride	0.125	0.115	0.125	92.0	100	66.0-128			8.33	20
Chlorobenzene	0.125	0.120	0.127	96.0	102	76.0-128			5.67	20
Chlorodibromomethane	0.125	0.110	0.122	88.0	97.6	74.0-127			10.3	20
Chloroethane	0.125	0.108	0.110	86.4	88.0	61.0-134			1.83	20
Chloroform	0.125	0.121	0.124	96.8	99.2	72.0-123			2.45	20
Chloromethane	0.125	0.114	0.116	91.2	92.8	51.0-138			1.74	20
2-Chlorotoluene	0.125	0.103	0.105	82.4	84.0	75.0-124			1.92	20
4-Chlorotoluene	0.125	0.121	0.123	96.8	98.4	75.0-124			1.64	20
1,2-Dibromo-3-Chloropropane	0.125	0.119	0.120	95.2	96.0	59.0-130			0.837	20
1,2-Dibromoethane	0.125	0.118	0.133	94.4	106	74.0-128			12.0	20
Dibromomethane	0.125	0.117	0.126	93.6	101	75.0-122			7.41	20
1,2-Dichlorobenzene	0.125	0.127	0.130	102	104	76.0-124			2.33	20
1,3-Dichlorobenzene	0.125	0.124	0.124	99.2	99.2	76.0-125			0.000	20
1,4-Dichlorobenzene	0.125	0.124	0.127	99.2	102	77.0-121			2.39	20
Dichlorodifluoromethane	0.125	0.104	0.108	83.2	86.4	43.0-156			3.77	20
1,1-Dichloroethane	0.125	0.126	0.133	101	106	70.0-127			5.41	20
1,2-Dichloroethane	0.125	0.121	0.126	96.8	101	65.0-131			4.05	20
1,1-Dichloroethene	0.125	0.118	0.128	94.4	102	65.0-131			8.13	20
cis-1,2-Dichloroethene	0.125	0.119	0.128	95.2	102	73.0-125			7.29	20
trans-1,2-Dichloroethene	0.125	0.123	0.125	98.4	100	71.0-125			1.61	20
1,2-Dichloropropane	0.125	0.119	0.129	95.2	103	74.0-125			8.06	20
1,1-Dichloropropene	0.125	0.113	0.124	90.4	99.2	73.0-125			9.28	20
1,3-Dichloropropane	0.125	0.118	0.127	94.4	102	80.0-125			7.35	20
cis-1,3-Dichloropropene	0.125	0.116	0.117	92.8	93.6	76.0-127			0.858	20
trans-1,3-Dichloropropene	0.125	0.111	0.119	88.8	95.2	73.0-127			6.96	20
2,2-Dichloropropane	0.125	0.110	0.116	88.0	92.8	59.0-135			5.31	20
Di-isopropyl ether	0.125	0.129	0.137	103	110	60.0-136			6.02	20
Ethylbenzene	0.125	0.123	0.128	98.4	102	74.0-126			3.98	20
Hexachloro-1,3-butadiene	0.125	0.103	0.125	82.4	100	57.0-150			19.3	20
Isopropylbenzene	0.125	0.128	0.135	102	108	72.0-127			5.32	20
p-Isopropyltoluene	0.125	0.115	0.124	92.0	99.2	72.0-133			7.53	20
2-Butanone (MEK)	0.625	0.528	0.725	84.5	116	30.0-160		J3	31.4	24
Methylene Chloride	0.125	0.111	0.117	88.8	93.6	68.0-123			5.26	20

¹Cp

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

(LCS) R4032988-1 02/09/24 22:15 • (LCSD) R4032988-2 02/09/24 22:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	0.625	0.697	0.726	112	116	56.0-143			4.08	20
Methyl tert-butyl ether	0.125	0.125	0.126	100	101	66.0-132			0.797	20
Naphthalene	0.125	0.124	0.131	99.2	105	59.0-130			5.49	20
n-Propylbenzene	0.125	0.113	0.117	90.4	93.6	74.0-126			3.48	20
Styrene	0.125	0.127	0.136	102	109	72.0-127			6.84	20
1,1,1,2-Tetrachloroethane	0.125	0.133	0.134	106	107	74.0-129			0.749	20
1,1,2,2-Tetrachloroethane	0.125	0.117	0.110	93.6	88.0	68.0-128			6.17	20
1,1,2-Trichlorotrifluoroethane	0.125	0.115	0.121	92.0	96.8	61.0-139			5.08	20
Tetrachloroethene	0.125	0.113	0.117	90.4	93.6	70.0-136			3.48	20
Toluene	0.125	0.116	0.120	92.8	96.0	75.0-121			3.39	20
1,2,3-Trichlorobenzene	0.125	0.121	0.130	96.8	104	59.0-139			7.17	20
1,2,4-Trichlorobenzene	0.125	0.124	0.128	99.2	102	62.0-137			3.17	20
1,1,1-Trichloroethane	0.125	0.126	0.130	101	104	69.0-126			3.12	20
1,1,2-Trichloroethane	0.125	0.123	0.128	98.4	102	78.0-123			3.98	20
Trichloroethene	0.125	0.127	0.129	102	103	76.0-126			1.56	20
Trichlorofluoromethane	0.125	0.109	0.118	87.2	94.4	61.0-142			7.93	20
1,2,3-Trichloropropane	0.125	0.121	0.121	96.8	96.8	67.0-129			0.000	20
1,2,4-Trimethylbenzene	0.125	0.117	0.122	93.6	97.6	70.0-126			4.18	20
1,2,3-Trimethylbenzene	0.125	0.122	0.122	97.6	97.6	74.0-124			0.000	20
1,3,5-Trimethylbenzene	0.125	0.118	0.118	94.4	94.4	73.0-127			0.000	20
Vinyl chloride	0.125	0.0988	0.121	79.0	96.8	63.0-134		J3	20.2	20
Xylenes, Total	0.375	0.372	0.391	99.2	104	72.0-127			4.98	20
(S) Toluene-d8				97.8	96.9	75.0-131				
(S) 4-Bromofluorobenzene				97.1	105	67.0-138				
(S) 1,2-Dichloroethane-d4				96.5	95.9	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4032395-3 02/10/24 00:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon disulfide	U		0.000700	0.0125
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4032395-3 02/10/24 00:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Isopropylbenzene	U		0.000425	0.00250
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	104			75.0-131
(S) 4-Bromofluorobenzene	103			67.0-138
(S) 1,2-Dichloroethane-d4	103			70.0-130

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

(LCS) R4032395-1 02/09/24 22:44 • (LCSD) R4032395-2 02/09/24 23:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	0.457	0.445	73.1	71.2	10.0-160			2.66	31
Acrylonitrile	0.625	0.611	0.626	97.8	100	45.0-153			2.43	22
Benzene	0.125	0.116	0.116	92.8	92.8	70.0-123			0.000	20
Bromobenzene	0.125	0.120	0.117	96.0	93.6	73.0-121			2.53	20

1
Cp

2
Tc

3
Ss

4
Cn

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Sr

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Qc

7
Gl

8
Al

9
Sc

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

(LCS) R4032395-1 02/09/24 22:44 • (LCSD) R4032395-2 02/09/24 23:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	0.125	0.114	0.115	91.2	92.0	73.0-121			0.873	20
Bromoform	0.125	0.116	0.116	92.8	92.8	64.0-132			0.000	20
Bromomethane	0.125	0.122	0.119	97.6	95.2	56.0-147			2.49	20
n-Butylbenzene	0.125	0.118	0.118	94.4	94.4	68.0-135			0.000	20
sec-Butylbenzene	0.125	0.126	0.122	101	97.6	74.0-130			3.23	20
tert-Butylbenzene	0.125	0.123	0.126	98.4	101	75.0-127			2.41	20
Carbon disulfide	0.125	0.127	0.107	102	85.6	56.0-133			17.1	20
Carbon tetrachloride	0.125	0.137	0.132	110	106	66.0-128			3.72	20
Chlorobenzene	0.125	0.127	0.122	102	97.6	76.0-128			4.02	20
Chlorodibromomethane	0.125	0.124	0.125	99.2	100	74.0-127			0.803	20
Chloroethane	0.125	0.124	0.115	99.2	92.0	61.0-134			7.53	20
Chloroform	0.125	0.114	0.114	91.2	91.2	72.0-123			0.000	20
Chloromethane	0.125	0.119	0.115	95.2	92.0	51.0-138			3.42	20
2-Chlorotoluene	0.125	0.121	0.121	96.8	96.8	75.0-124			0.000	20
4-Chlorotoluene	0.125	0.114	0.121	91.2	96.8	75.0-124			5.96	20
1,2-Dibromo-3-Chloropropane	0.125	0.110	0.118	88.0	94.4	59.0-130			7.02	20
1,2-Dibromoethane	0.125	0.128	0.128	102	102	74.0-128			0.000	20
Dibromomethane	0.125	0.121	0.113	96.8	90.4	75.0-122			6.84	20
1,2-Dichlorobenzene	0.125	0.118	0.120	94.4	96.0	76.0-124			1.68	20
1,3-Dichlorobenzene	0.125	0.118	0.112	94.4	89.6	76.0-125			5.22	20
1,4-Dichlorobenzene	0.125	0.115	0.117	92.0	93.6	77.0-121			1.72	20
Dichlorodifluoromethane	0.125	0.151	0.133	121	106	43.0-156			12.7	20
1,1-Dichloroethane	0.125	0.115	0.118	92.0	94.4	70.0-127			2.58	20
1,2-Dichloroethane	0.125	0.130	0.117	104	93.6	65.0-131			10.5	20
1,1-Dichloroethene	0.125	0.136	0.127	109	102	65.0-131			6.84	20
cis-1,2-Dichloroethene	0.125	0.121	0.123	96.8	98.4	73.0-125			1.64	20
trans-1,2-Dichloroethene	0.125	0.127	0.121	102	96.8	71.0-125			4.84	20
1,2-Dichloropropane	0.125	0.115	0.113	92.0	90.4	74.0-125			1.75	20
1,1-Dichloropropene	0.125	0.133	0.124	106	99.2	73.0-125			7.00	20
1,3-Dichloropropane	0.125	0.120	0.126	96.0	101	80.0-125			4.88	20
cis-1,3-Dichloropropene	0.125	0.116	0.121	92.8	96.8	76.0-127			4.22	20
trans-1,3-Dichloropropene	0.125	0.123	0.126	98.4	101	73.0-127			2.41	20
2,2-Dichloropropane	0.125	0.117	0.118	93.6	94.4	59.0-135			0.851	20
Di-isopropyl ether	0.125	0.123	0.124	98.4	99.2	60.0-136			0.810	20
Ethylbenzene	0.125	0.128	0.125	102	100	74.0-126			2.37	20
Hexachloro-1,3-butadiene	0.125	0.111	0.120	88.8	96.0	57.0-150			7.79	20
Isopropylbenzene	0.125	0.134	0.131	107	105	72.0-127			2.26	20
p-Isopropyltoluene	0.125	0.121	0.125	96.8	100	72.0-133			3.25	20
2-Butanone (MEK)	0.625	0.614	0.580	98.2	92.8	30.0-160			5.70	24
Methylene Chloride	0.125	0.122	0.122	97.6	97.6	68.0-123			0.000	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4032395-1 02/09/24 22:44 • (LCSD) R4032395-2 02/09/24 23:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	0.625	0.642	0.636	103	102	56.0-143			0.939	20
Methyl tert-butyl ether	0.125	0.122	0.121	97.6	96.8	66.0-132			0.823	20
Naphthalene	0.125	0.119	0.120	95.2	96.0	59.0-130			0.837	20
n-Propylbenzene	0.125	0.121	0.121	96.8	96.8	74.0-126			0.000	20
Styrene	0.125	0.133	0.127	106	102	72.0-127			4.62	20
1,1,1,2-Tetrachloroethane	0.125	0.127	0.128	102	102	74.0-129			0.784	20
1,1,2,2-Tetrachloroethane	0.125	0.119	0.112	95.2	89.6	68.0-128			6.06	20
1,1,2-Trichlorotrifluoroethane	0.125	0.123	0.112	98.4	89.6	61.0-139			9.36	20
Tetrachloroethene	0.125	0.127	0.132	102	106	70.0-136			3.86	20
Toluene	0.125	0.126	0.125	101	100	75.0-121			0.797	20
1,2,3-Trichlorobenzene	0.125	0.120	0.130	96.0	104	59.0-139			8.00	20
1,2,4-Trichlorobenzene	0.125	0.118	0.124	94.4	99.2	62.0-137			4.96	20
1,1,1-Trichloroethane	0.125	0.124	0.117	99.2	93.6	69.0-126			5.81	20
1,1,2-Trichloroethane	0.125	0.127	0.129	102	103	78.0-123			1.56	20
Trichloroethene	0.125	0.125	0.133	100	106	76.0-126			6.20	20
Trichlorofluoromethane	0.125	0.122	0.114	97.6	91.2	61.0-142			6.78	20
1,2,3-Trichloropropane	0.125	0.125	0.124	100	99.2	67.0-129			0.803	20
1,2,4-Trimethylbenzene	0.125	0.123	0.126	98.4	101	70.0-126			2.41	20
1,2,3-Trimethylbenzene	0.125	0.124	0.124	99.2	99.2	74.0-124			0.000	20
1,3,5-Trimethylbenzene	0.125	0.123	0.121	98.4	96.8	73.0-127			1.64	20
Vinyl chloride	0.125	0.140	0.122	112	97.6	63.0-134			13.7	20
Xylenes, Total	0.375	0.383	0.368	102	98.1	72.0-127			3.99	20
(S) Toluene-d8				103	103	75.0-131				
(S) 4-Bromofluorobenzene				108	103	67.0-138				
(S) 1,2-Dichloroethane-d4				105	103	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4030591-1 02/06/24 15:18

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	211		33.3	100
Residual Range Organics (RRO)	94.8	⬇	83.3	250
(S) o-Terphenyl	78.0			31.0-160

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

(LCS) R4030591-2 02/06/24 15:40 • (LCSD) R4030591-3 02/06/24 16:03

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	1120	1240	74.7	82.7	50.0-150			10.2	20
(S) o-Terphenyl				61.5	77.0	31.0-160				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4034075-1 02/13/24 22:11

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	U		33.3	100
Residual Range Organics (RRO)	U		83.3	250
(S) o-Terphenyl	71.5			31.0-160

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

(LCS) R4034075-2 02/13/24 22:32 • (LCSD) R4034075-3 02/13/24 22:52

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	1220	1260	81.3	84.0	50.0-150			3.23	20
(S) o-Terphenyl				58.0	56.0	31.0-160				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4036223-1 02/20/24 08:56

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Diesel Range Organics (DRO)	86.7	U	33.3	100
Residual Range Organics (RRO)	243	U	83.3	250
(S) o-Terphenyl	56.5			31.0-160

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

(LCS) R4036223-2 02/20/24 09:16 • (LCSD) R4036223-3 02/20/24 09:36

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 %
Diesel Range Organics (DRO)	1500	1250	1080	83.3	72.0	50.0-150			14.6	20
(S) o-Terphenyl				84.5	71.0	31.0-160				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4031097-1 02/07/24 14:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	60.7			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4031097-2 02/07/24 14:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	38.0	76.0	50.0-150	
(S) o-Terphenyl			61.0	18.0-148	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4031304-1 02/07/24 23:47

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
(S) o-Terphenyl	64.6			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4031304-2 02/08/24 00:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	28.2	56.4	50.0-150	
(S) o-Terphenyl			63.7	18.0-148	

L1701991-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1701991-10 02/08/24 04:18 • (MS) R4031304-3 02/08/24 04:31 • (MSD) R4031304-4 02/08/24 04:44

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	49.2	69500	66700	62600	0.000	0.000	250	50.0-150	V	V	6.34	20
(S) o-Terphenyl					0.000	0.000		18.0-148	J7	J7		

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4031021-3 02/05/24 19:07

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Anthracene	U		0.0190	0.0500
Acenaphthene	U		0.0190	0.0500
Acenaphthylene	U		0.0171	0.0500
Benzo(a)anthracene	U		0.0203	0.0500
Benzo(a)pyrene	U		0.0184	0.0500
Benzo(b)fluoranthene	U		0.0168	0.0500
Benzo(g,h,i)perylene	U		0.0184	0.0500
Benzo(k)fluoranthene	U		0.0202	0.0500
Chrysene	U		0.0179	0.0500
Dibenz(a,h)anthracene	U		0.0160	0.0500
Fluoranthene	U		0.0270	0.100
Fluorene	U		0.0169	0.0500
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500
Naphthalene	U		0.0917	0.250
Phenanthrene	U		0.0180	0.0500
Pyrene	U		0.0169	0.0500
1-Methylnaphthalene	U		0.0687	0.250
2-Methylnaphthalene	U		0.0674	0.250
2-Chloronaphthalene	U		0.0682	0.250
(S) Nitrobenzene-d5	112			31.0-160
(S) 2-Fluorobiphenyl	123			48.0-148
(S) p-Terphenyl-d14	120			37.0-146

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4031021-1 02/05/24 18:28 • (LCSD) R4031021-2 02/05/24 18:47

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 %
Anthracene	2.00	2.47	2.13	123	106	67.0-150			14.8	20
Acenaphthene	2.00	2.65	2.27	132	114	65.0-138			15.4	20
Acenaphthylene	2.00	2.63	2.23	132	111	66.0-140			16.5	20
Benzo(a)anthracene	2.00	2.52	2.24	126	112	61.0-140			11.8	20
Benzo(a)pyrene	2.00	2.21	1.95	111	97.5	60.0-143			12.5	20
Benzo(b)fluoranthene	2.00	2.33	2.07	117	103	58.0-141			11.8	20
Benzo(g,h,i)perylene	2.00	2.11	1.85	105	92.5	52.0-153			13.1	20
Benzo(k)fluoranthene	2.00	2.04	1.80	102	90.0	58.0-148			12.5	20
Chrysene	2.00	2.61	2.31	131	115	64.0-144			12.2	20
Dibenz(a,h)anthracene	2.00	2.21	1.93	111	96.5	52.0-155			13.5	20
Fluoranthene	2.00	2.65	2.30	132	115	69.0-153			14.1	20

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

(LCS) R4031021-1 02/05/24 18:28 • (LCSD) R4031021-2 02/05/24 18:47

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Fluorene	2.00	2.69	2.35	135	117	64.0-136			13.5	20
Indeno(1,2,3-cd)pyrene	2.00	2.29	2.02	114	101	54.0-153			12.5	20
Naphthalene	2.00	2.68	2.32	134	116	61.0-137			14.4	20
Phenanthrene	2.00	2.71	2.39	135	119	62.0-137			12.5	20
Pyrene	2.00	2.73	2.36	137	118	60.0-142			14.5	20
1-Methylnaphthalene	2.00	2.68	2.31	134	115	66.0-142			14.8	20
2-Methylnaphthalene	2.00	2.76	2.36	138	118	62.0-136	J4		15.6	20
2-Chloronaphthalene	2.00	2.80	2.39	140	119	64.0-140			15.8	20
(S) Nitrobenzene-d5				131	113	31.0-160				
(S) 2-Fluorobiphenyl				140	122	48.0-148				
(S) p-Terphenyl-d14				122	110	37.0-146				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4031698-3 02/05/24 13:41

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Anthracene	U		0.0190	0.0500
Acenaphthene	U		0.0190	0.0500
Acenaphthylene	U		0.0171	0.0500
Benzo(a)anthracene	U		0.0203	0.0500
Benzo(a)pyrene	U		0.0184	0.0500
Benzo(b)fluoranthene	U		0.0168	0.0500
Benzo(g,h,i)perylene	U		0.0184	0.0500
Benzo(k)fluoranthene	U		0.0202	0.0500
Chrysene	U		0.0179	0.0500
Dibenz(a,h)anthracene	U		0.0160	0.0500
Fluoranthene	U		0.0270	0.100
Fluorene	U		0.0169	0.0500
Indeno(1,2,3-cd)pyrene	U		0.0158	0.0500
Naphthalene	U		0.0917	0.250
Phenanthrene	U		0.0180	0.0500
Pyrene	U		0.0169	0.0500
1-Methylnaphthalene	U		0.0687	0.250
2-Methylnaphthalene	U		0.0674	0.250
2-Chloronaphthalene	U		0.0682	0.250
(S) Nitrobenzene-d5	136			31.0-160
(S) 2-Fluorobiphenyl	126			48.0-148
(S) p-Terphenyl-d14	128			37.0-146

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

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

(LCS) R4031698-1 02/05/24 13:06 • (LCSD) R4031698-2 02/05/24 13:23

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 %
Anthracene	2.00	2.47	2.54	123	127	67.0-150			2.79	20
Acenaphthene	2.00	2.21	2.25	111	112	65.0-138			1.79	20
Acenaphthylene	2.00	2.56	2.61	128	131	66.0-140			1.93	20
Benzo(a)anthracene	2.00	2.43	2.36	122	118	61.0-140			2.92	20
Benzo(a)pyrene	2.00	2.24	2.08	112	104	60.0-143			7.41	20
Benzo(b)fluoranthene	2.00	2.08	1.97	104	98.5	58.0-141			5.43	20
Benzo(g,h,i)perylene	2.00	2.07	1.84	104	92.0	52.0-153			11.8	20
Benzo(k)fluoranthene	2.00	2.06	1.92	103	96.0	58.0-148			7.04	20
Chrysene	2.00	2.33	2.24	117	112	64.0-144			3.94	20
Dibenz(a,h)anthracene	2.00	2.09	1.87	104	93.5	52.0-155			11.1	20
Fluoranthene	2.00	2.52	2.57	126	129	69.0-153			1.96	20

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

(LCS) R4031698-1 02/05/24 13:06 • (LCSD) R4031698-2 02/05/24 13:23

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Fluorene	2.00	2.47	2.53	123	126	64.0-136			2.40	20
Indeno(1,2,3-cd)pyrene	2.00	2.17	2.01	108	100	54.0-153			7.66	20
Naphthalene	2.00	2.30	2.32	115	116	61.0-137			0.866	20
Phenanthrene	2.00	2.32	2.37	116	118	62.0-137			2.13	20
Pyrene	2.00	2.23	2.27	111	114	60.0-142			1.78	20
1-Methylnaphthalene	2.00	2.47	2.52	123	126	66.0-142			2.00	20
2-Methylnaphthalene	2.00	2.40	2.44	120	122	62.0-136			1.65	20
2-Chloronaphthalene	2.00	2.30	2.35	115	117	64.0-140			2.15	20
(S) Nitrobenzene-d5				123	122	31.0-160				
(S) 2-Fluorobiphenyl				113	116	48.0-148				
(S) p-Terphenyl-d14				109	102	37.0-146				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4032245-2 02/07/24 23:56

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) p-Terphenyl-d14	90.9			23.0-120
(S) Nitrobenzene-d5	88.1			14.0-149
(S) 2-Fluorobiphenyl	78.1			34.0-125

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R4032245-1 02/07/24 23:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0831	104	50.0-126	
Acenaphthene	0.0800	0.0709	88.6	50.0-120	
Acenaphthylene	0.0800	0.0883	110	50.0-120	
Benzo(a)anthracene	0.0800	0.0876	110	45.0-120	
Benzo(a)pyrene	0.0800	0.0710	88.8	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0806	101	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0782	97.8	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0809	101	49.0-125	
Chrysene	0.0800	0.0818	102	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0845	106	47.0-125	
Fluoranthene	0.0800	0.0806	101	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R4032245-1 02/07/24 23:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0834	104	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0887	111	46.0-125	
Naphthalene	0.0800	0.0771	96.4	50.0-120	
Phenanthrene	0.0800	0.0809	101	47.0-120	
Pyrene	0.0800	0.0806	101	43.0-123	
1-Methylnaphthalene	0.0800	0.0869	109	51.0-121	
2-Methylnaphthalene	0.0800	0.0906	113	50.0-120	
2-Chloronaphthalene	0.0800	0.0701	87.6	50.0-120	
(S) p-Terphenyl-d14			93.8	23.0-120	
(S) Nitrobenzene-d5			98.4	14.0-149	
(S) 2-Fluorobiphenyl			83.2	34.0-125	

L1701865-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1701865-12 02/08/24 01:34 • (MS) R4032245-3 02/08/24 01:54 • (MSD) R4032245-4 02/08/24 02:14

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.100	U	0.0927	0.0923	92.4	92.9	1	10.0-145			0.413	30
Acenaphthene	0.100	U	0.0794	0.0787	79.2	79.2	1	14.0-127			0.966	27
Acenaphthylene	0.100	U	0.0988	0.0973	98.5	97.9	1	21.0-124			1.56	25
Benzo(a)anthracene	0.100	U	0.0955	0.0942	95.2	94.9	1	10.0-139			1.34	30
Benzo(a)pyrene	0.100	U	0.0966	0.0963	96.3	96.9	1	10.0-141			0.396	31
Benzo(b)fluoranthene	0.100	U	0.0871	0.0862	86.8	86.8	1	10.0-140			1.03	36
Benzo(g,h,i)perylene	0.100	U	0.0859	0.0867	85.7	87.3	1	10.0-140			0.885	33
Benzo(k)fluoranthene	0.100	U	0.0867	0.0862	86.4	86.8	1	10.0-137			0.589	31
Chrysene	0.100	U	0.0921	0.0903	91.8	90.9	1	10.0-145			1.96	30
Dibenz(a,h)anthracene	0.100	U	0.0887	0.0885	88.5	89.1	1	10.0-132			0.287	31
Fluoranthene	0.100	U	0.0900	0.0887	89.7	89.4	1	10.0-153			1.42	33
Fluorene	0.100	U	0.0923	0.0924	92.0	93.1	1	11.0-130			0.138	29
Indeno(1,2,3-cd)pyrene	0.100	U	0.0961	0.0956	95.8	96.3	1	10.0-137			0.531	32
Naphthalene	0.100	U	0.0862	0.0843	85.9	84.9	1	10.0-135			2.24	27
Phenanthrene	0.100	U	0.0898	0.0894	89.5	90.0	1	10.0-144			0.426	31
Pyrene	0.100	U	0.0918	0.0905	91.5	91.2	1	10.0-148			1.40	35
1-Methylnaphthalene	0.100	U	0.0982	0.0965	97.8	97.2	1	10.0-142			1.70	28
2-Methylnaphthalene	0.100	U	0.102	0.0999	101	101	1	10.0-137			1.77	28
2-Chloronaphthalene	0.100	U	0.0791	0.0782	78.8	78.7	1	29.0-120			1.13	24
(S) p-Terphenyl-d14					82.7	81.8		23.0-120				
(S) Nitrobenzene-d5					84.7	85.5		14.0-149				
(S) 2-Fluorobiphenyl					73.8	74.2		34.0-125				

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R4032059-2 02/07/24 14:12

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) p-Terphenyl-d14	74.7			23.0-120
(S) Nitrobenzene-d5	74.7			14.0-149
(S) 2-Fluorobiphenyl	71.7			34.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4032059-1 02/07/24 13:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0730	91.3	50.0-126	
Acenaphthene	0.0800	0.0695	86.9	50.0-120	
Acenaphthylene	0.0800	0.0757	94.6	50.0-120	
Benzo(a)anthracene	0.0800	0.0767	95.9	45.0-120	
Benzo(a)pyrene	0.0800	0.0639	79.9	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0750	93.8	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0736	92.0	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0695	86.9	49.0-125	
Chrysene	0.0800	0.0757	94.6	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0736	92.0	47.0-125	
Fluoranthene	0.0800	0.0778	97.3	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R4032059-1 02/07/24 13:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0763	95.4	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0744	93.0	46.0-125	
Naphthalene	0.0800	0.0697	87.1	50.0-120	
Phenanthrene	0.0800	0.0724	90.5	47.0-120	
Pyrene	0.0800	0.0728	91.0	43.0-123	
1-Methylnaphthalene	0.0800	0.0750	93.8	51.0-121	
2-Methylnaphthalene	0.0800	0.0722	90.3	50.0-120	
2-Chloronaphthalene	0.0800	0.0717	89.6	50.0-120	
(S) p-Terphenyl-d14			99.4	23.0-120	
(S) Nitrobenzene-d5			100	14.0-149	
(S) 2-Fluorobiphenyl			97.7	34.0-125	

L1699578-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1699578-01 02/07/24 19:42 • (MS) R4032059-3 02/07/24 19:59 • (MSD) R4032059-4 02/07/24 20:17

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0760	U	0.0629	0.0638	82.8	79.8	1	10.0-145			1.42	30
Acenaphthene	0.0760	U	0.0614	0.0619	80.8	77.4	1	14.0-127			0.811	27
Acenaphthylene	0.0760	U	0.0657	0.0664	86.4	83.0	1	21.0-124			1.06	25
Benzo(a)anthracene	0.0760	U	0.0643	0.0647	84.6	80.9	1	10.0-139			0.620	30
Benzo(a)pyrene	0.0760	U	0.0645	0.0636	84.9	79.5	1	10.0-141			1.41	31
Benzo(b)fluoranthene	0.0760	U	0.0613	0.0617	80.7	77.1	1	10.0-140			0.650	36
Benzo(g,h,i)perylene	0.0760	0.00382	0.0680	0.0637	84.4	74.8	1	10.0-140			6.53	33
Benzo(k)fluoranthene	0.0760	U	0.0583	0.0578	76.7	72.3	1	10.0-137			0.861	31
Chrysene	0.0760	U	0.0648	0.0650	85.3	81.3	1	10.0-145			0.308	30
Dibenz(a,h)anthracene	0.0760	U	0.0595	0.0608	78.3	76.0	1	10.0-132			2.16	31
Fluoranthene	0.0760	U	0.0689	0.0689	90.7	86.1	1	10.0-153			0.000	33
Fluorene	0.0760	U	0.0664	0.0666	87.4	83.3	1	11.0-130			0.301	29
Indeno(1,2,3-cd)pyrene	0.0760	U	0.0615	0.0615	80.9	76.9	1	10.0-137			0.000	32
Naphthalene	0.0760	U	0.0618	0.0617	81.3	77.1	1	10.0-135			0.162	27
Phenanthrene	0.0760	U	0.0628	0.0624	82.6	78.0	1	10.0-144			0.639	31
Pyrene	0.0760	0.00278	0.0649	0.0652	81.7	78.0	1	10.0-148			0.461	35
1-Methylnaphthalene	0.0760	U	0.0671	0.0670	88.3	83.8	1	10.0-142			0.149	28
2-Methylnaphthalene	0.0760	U	0.0638	0.0644	83.9	80.5	1	10.0-137			0.936	28
2-Chloronaphthalene	0.0760	U	0.0647	0.0640	85.1	80.0	1	29.0-120			1.09	24
(S) p-Terphenyl-d14					85.4	83.1		23.0-120				
(S) Nitrobenzene-d5					90.8	88.6		14.0-149				
(S) 2-Fluorobiphenyl					90.0	87.1		34.0-125				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4033150-2 02/08/24 14:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) p-Terphenyl-d14	81.7			23.0-120
(S) Nitrobenzene-d5	81.8			14.0-149
(S) 2-Fluorobiphenyl	83.9			34.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4033150-1 02/08/24 13:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0699	87.4	50.0-126	
Acenaphthene	0.0800	0.0670	83.8	50.0-120	
Acenaphthylene	0.0800	0.0722	90.3	50.0-120	
Benzo(a)anthracene	0.0800	0.0725	90.6	45.0-120	
Benzo(a)pyrene	0.0800	0.0636	79.5	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0637	79.6	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0624	78.0	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0633	79.1	49.0-125	
Chrysene	0.0800	0.0703	87.9	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0660	82.5	47.0-125	
Fluoranthene	0.0800	0.0741	92.6	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R4033150-1 02/08/24 13:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Fluorene	0.0800	0.0742	92.8	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0663	82.9	46.0-125	
Naphthalene	0.0800	0.0666	83.3	50.0-120	
Phenanthrene	0.0800	0.0703	87.9	47.0-120	
Pyrene	0.0800	0.0690	86.3	43.0-123	
1-Methylnaphthalene	0.0800	0.0711	88.9	51.0-121	
2-Methylnaphthalene	0.0800	0.0694	86.8	50.0-120	
2-Chloronaphthalene	0.0800	0.0691	86.4	50.0-120	
(S) p-Terphenyl-d14			88.5	23.0-120	
(S) Nitrobenzene-d5			93.2	14.0-149	
(S) 2-Fluorobiphenyl			91.4	34.0-125	

L1701988-31 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1701988-31 02/08/24 15:21 • (MS) R4033150-3 02/08/24 15:39 • (MSD) R4033150-4 02/08/24 15:57

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Anthracene	0.0972	U	0.0501	0.0580	51.6	57.8	1	10.0-145			14.5	30
Acenaphthene	0.0972	0.00379	0.0522	0.0686	49.8	64.7	1	14.0-127	J3		27.3	27
Acenaphthylene	0.0972	U	0.0508	0.0629	52.2	62.8	1	21.0-124			21.4	25
Benzo(a)anthracene	0.0972	U	0.0485	0.0595	49.9	59.3	1	10.0-139			20.4	30
Benzo(a)pyrene	0.0972	U	0.0461	0.0562	47.4	56.1	1	10.0-141			19.8	31
Benzo(b)fluoranthene	0.0972	U	0.0424	0.0524	43.6	52.3	1	10.0-140			21.1	36
Benzo(g,h,i)perylene	0.0972	U	0.0423	0.0520	43.5	51.9	1	10.0-140			20.7	33
Benzo(k)fluoranthene	0.0972	U	0.0441	0.0519	45.3	51.8	1	10.0-137			16.4	31
Chrysene	0.0972	U	0.0491	0.0601	50.5	60.0	1	10.0-145			20.2	30
Dibenz(a,h)anthracene	0.0972	U	0.0462	0.0556	47.5	55.4	1	10.0-132			18.4	31
Fluoranthene	0.0972	U	0.0485	0.0589	49.9	58.7	1	10.0-153			19.3	33
Fluorene	0.0972	0.00708	0.0594	0.0791	53.8	71.9	1	11.0-130			28.5	29
Indeno(1,2,3-cd)pyrene	0.0972	U	0.0438	0.0529	45.1	52.8	1	10.0-137			18.8	32
Naphthalene	0.0972	0.00539	0.0667	0.0858	63.1	80.2	1	10.0-135			25.1	27
Phenanthrene	0.0972	U	0.0527	0.0698	54.2	69.6	1	10.0-144			27.9	31
Pyrene	0.0972	U	0.0475	0.0594	48.8	59.2	1	10.0-148			22.3	35
1-Methylnaphthalene	0.0972	U	0.0498	0.0679	51.2	67.7	1	10.0-142	J3		30.8	28
2-Methylnaphthalene	0.0972	U	0.0486	0.0651	50.0	64.9	1	10.0-137	J3		29.0	28
2-Chloronaphthalene	0.0972	U	0.0484	0.0590	49.7	58.8	1	29.0-120			19.8	24
(S) p-Terphenyl-d14					44.4	62.2		23.0-120				
(S) Nitrobenzene-d5					61.0	82.7		14.0-149				
(S) 2-Fluorobiphenyl					47.3	58.7		34.0-125				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

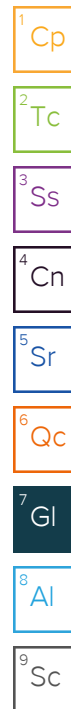
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	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
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.
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.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.



GLOSSARY OF TERMS

Qualifier	Description
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
Q	Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.
V	The sample concentration is too high to evaluate accurate spike recoveries.

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

ACCREDITATIONS & LOCATIONS

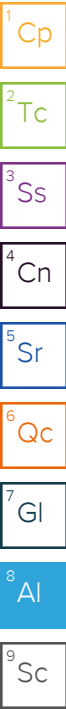
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.



Agency, Authorized Purchaser or Agent: GSI Water Solutions for ODEQ		Contract Laboratory Name: Pace Analytical National		Lab Selection Criteria: Proximity (if TAT < 48 hrs) Prior work on same project		Turn Around Time: 10 days (std.) 5 days	
Send Lab Report To: Ellen Woods Address: 700 NE Multnomah Street, Suite 600 Portland, OR 97232-4100		Lab Batch #: Invoice: ODEQ/Business Office 700 NE Multnomah Street, Suite 600 Portland, OR 97232		Cost (for anticipated analyses) Other labs disqualified or unable to perform requested services		72 hours 48 hours 24 hours	
Tel. #: 541-606-0490 Email: ellen.woods@deq.or.gov, remst@gsiws.com, bwamer@gsiws.com		Email: DEQEXP@deq.state.or.us		Emergency work		Other _____	

Sample ID#	Collection Date	Collection Time	Matrix	Number of Containers	Requested Analyses							Comments
					TPH Gasoline by NMTPH-Gx	TPH as Diesel by NMTPH-Dx	VOCs (Full List) by EPA8260D	PAHs by EPA8270E-SIM	Dissolved Pb, Cr, or Cd by EPA 6020B (Field Filtered)	Total Pb, Cr, or Cd by EPA 6020B	GRO and VOCs by EPA TO-15	
P1	1/31/24	1210	W	12	X	X	X	X	X			-2
P2		1405	W	13	X	X	X	X	X			-2
P3		1530	W	12	X	X	X	X	X			-3
P4		1645	W	12	X	X	X	X	X			+Cd, Cr -4
P1-D		1211	W	12								-5
P1-S1		1215	S	2								-6
P1-S2		1220	S	2								-7
P1-S3		1225	S	2	X	X	X					-8
P1-S4		1230	S	2	X	X	X	X		X		-9
P1-S5		1235	S	2								-10
P1-S6		1240	S	2								-11
P1-S3-D		1226	S	2								-12
P2-S1		1335	S	2	X	X		X		X		-13
P2-S2		1340	S	2	X	X	X					-14
P2-S3		1345	S	2	X	X	X	X				-15

Retain non-analyzed samples on hold.

WATER SAMPLE P4 analysed for dissolved Pb, Cr, Cd. IDW-W, +00

Relinquished By: <i>BRYAN WATSON</i>	Agency/Agent: <i>BSI WATER SOL</i>	Received By: <i>Eli Dossett</i>	Agency/Agent: <i>Pace</i>
Signature: <i>[Signature]</i>	Time & Date: <i>2/2/24</i>	Signature: <i>Eli Dossett 17</i>	Time & Date: <i>2-3-24/1900</i>
Relinquished By:	Agency/Agent:	Received By:	Agency/Agent:
Signature:	Time & Date:	Signature:	Time & Date:

Sample Receipt Checklist

COC Seal Present/Intact: ☒ Y ☐ N If Applicable
COC Signed/Accurate: ☒ Y ☐ N VOA Zero Headspace: ☒ Y ☐ N
Bottles arrive intact: ☒ Y ☐ N Pres. Correct/Check: ☒ Y ☐ N
Correct bottles used: ☒ Y ☐ N TLA8 2.5 + 0 = 2
Sufficient volume sent: ☒ Y ☐ N
RA Screen <0.5 mR/hr: ☒ Y ☐ N 7914 1117

Pres. Correct/Check: Y N
TLA8 2.5+0=2.5
7914 1417 9545

FACT TERMS AND CONDITIONS AND SPECIAL CONTRACT TERMS AND CONDITIONS (T'S & C'S) CONTAINED IN THE PRICE AGREEMENT ARE
 OR IMPLIED.

G 130

State of Oregon Chain of Custody

Agency, Authorized Purchaser or Agent: GSI Water Solutions for ODEQ		Contract Laboratory Name: Pace Analytical National		Lab Selection Criteria: Proximity (if TAT < 48 hrs) Prior work on same project Cost (for anticipated analyses) Other labs disqualified or unable to perform requested services Emergency work		Turn Around Time: 10 days (std.) 5 days 72 hours 48 hours 24 hours Other _____	
Send Lab Report To: Ellen Woods Address: 700 NE Multnomah Street, Suite 600 Portland, OR 97232-4100 Tel. #: 541-606-0490 Email: ellen.woods@deq.or.gov, remst@gsiws.com, bwarnar@gsiws.com		Lab Batch #: Invoice: ODEQ/Business Office 700 NE Multnomah Street, Suite 600 Portland, OR 97232 Email: DEQEXP@deq.state.or.us					

Project Name: Former City Texaco Station Project #: 2060.012.006 Sampler Name: B. Warner, R. Kemp					Sample Preservative <table border="1"> <tr> <td>Solids: Liquids:</td> <td>Solids:</td> <td>Solids: Liquids:</td> <td>Solids: Liquids:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										Solids: Liquids:	Solids:	Solids: Liquids:	Solids: Liquids:									41701988
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					Requested Analyses <table border="1"> <tr> <td>TPH Gasoline by NWTPH-GX</td> <td>TPH as Diesel by NWTPH-DX</td> <td>VOCs (Full List) by EPA8260D</td> <td>PAHs by EPA8270E-SIM</td> <td>Dissolved Pb, Cr, or Cd by EPA 6020B (Field Filtered)</td> <td>Total Pb, Cr, or Cd by EPA 6020B</td> <td>GRO and VOCs by EPA TO-15</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										TPH Gasoline by NWTPH-GX	TPH as Diesel by NWTPH-DX	VOCs (Full List) by EPA8260D	PAHs by EPA8270E-SIM	Dissolved Pb, Cr, or Cd by EPA 6020B (Field Filtered)	Total Pb, Cr, or Cd by EPA 6020B	GRO and VOCs by EPA TO-15						
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Sample ID#	Collection Date	Collection Time	Matrix	Number of Containers	TPH Gasoline by NWTPH-GX	TPH as Diesel by NWTPH-DX	VOCs (Full List) by EPA8260D	PAHs by EPA8270E-SIM	Dissolved Pb, Cr, or Cd by EPA 6020B (Field Filtered)	Total Pb, Cr, or Cd by EPA 6020B	GRO and VOCs by EPA TO-15	Comments															
P2-S4	1/31/24	1350	S	2								-16															
P2-S5	1/31/24	1355	S	2								-17															
P3-S1	1/31/24	1525	S	2								-16															
P3-S2	1/31/24	1530	S	2	X	X	X	X		X		-19															
P3-S3	1/31/24	1535	S	2	X	X	X					-20															
P3-S4	1/31/24	1540	S	2								-21															
P3-S2-D	1/31/24	1551	S	2	X	X	X	X		X		-22															
P4-S1	1/31/24	1625	S	2								-23															
P4-S2	1/31/24	1630	S	2								-24															
P4-S3	1/31/24	1635	S	2	X	X	X	X				-25															
P4-S4	1/31/24	1640	S	2								-26															
P4-S5	1/31/24	1645	S	2								-27															
P4-S6	1/31/24	1650	S	2								-28															
P5-S1	2/1/24	1200	S	2								-29															
P5-S2	2/1/24	1205	S	2	X	X	X					-30															

NOTES: Contact Rick Ernst (503.708.5945, remst@gsiws.com) or Braedon Warner (208.991.6713) with questions. Include DEQ EDD with final lab report.

Retain non-analyzed samples on hold

Relinquished By: BRAEDON WARNER Signature: <i>[Signature]</i>	Agency/Agent: GSI WATER SOL. Time & Date: 2/2/24	Received By: ELI DOSSETT Signature: <i>[Signature]</i> 17	Agency/Agent: Pace Time & Date: 2-3-24/900
Relinquished By: Signature:	Agency/Agent: Time & Date:	Received By: Signature:	Agency/Agent: Time & Date:

THIS PURCHASE IS SUBMITTED PURSUANT TO STATE OF OREGON SOLICITATION #102-1098-07 AND PRICE AGREEMENT # 8903. THE PRICE AGREEMENT INCLUDING CONTRACT TERMS AND CONDITIONS AND SPECIAL CONTRACT TERMS AND CONDITIONS (T'S & C'S) CONTAINED IN THE PRICE AGREEMENT ARE HEREBY INCORPORATED BY REFERENCE AND SHALL APPLY TO THIS PURCHASE AND SHALL TAKE PRECEDENCE OVER ALL OTHER CONFLICTING T'S AND C'S, EXPRESS OR IMPLIED.

State of Oregon Chain of Custody

Agency, Authorized Purchaser or Agent: GSI Water Solutions for ODEQ		Contract Laboratory Name: Pace Analytical National		Lab Selection Criteria: Proximity (if TAT < 48 hrs) Prior work on same project Cost (for anticipated analyses) Other labs disqualified or unable to perform requested services Emergency work		Turn Around Time: 10 days (std.) 5 days 72 hours 48 hours 24 hours Other _____	
Send Lab Report To: Ellen Woods Address: 700 NE Multnomah Street, Suite 600 Portland, OR 97232-4100 Tel #: 541-606-0490 Email: ellen.woods@deq.or.gov, remst@gsiws.com, bwerner@gsiws.com		Lab Batch #: Invoice: ODEQ/Business Office 700 NE Multnomah Street, Suite 600 Portland, OR 97232 Email: DEQEXP@deq.state.or.us					

Project Name: Former City Texaco Station Project #: 2060.012.006 Sampler Name: B. Warner, R. Kemp					Sample Preservative <table border="1"> <tr> <td>Solids: Liquids:</td> <td>Solids:</td> <td>Solids: Liquids:</td> <td>Solids: Liquids:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										Solids: Liquids:	Solids:	Solids: Liquids:	Solids: Liquids:							L1701988	
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PS-S3	2/1/24	1210	S	2	X	X	X	X		X		-31														
PS-S4	2/1/24	1215	S	2	X		X					-32														
PS-S5	2/1/24	1220	S	2								-33														
P6-S1	2/1/24	1155	S	2	X		X	X				-34														
P6-S2	2/1/24	1200	S	2								-35														
P6-S3	2/1/24	1205	S	2	X	X	X					-36														
SU1	2/1/24	831	G	1							X	-37														
SU2	2/1/24	932	G	1							X	-38														
SU2-D	2/1/24	1010	G	1								ISAD SAMPLE														
SU3	2/1/24	1055	G	1								ISAD SAMPLE														
PS	2/1/24	1210	W	12	X	X	X	X	X			-39														
P6	2/1/24	1310	W	12	X	X	X	X	X			-40														
IDW-S	2/1/24	1315	S	2	X	X	X			X		-41														
IDW-W	2/1/24	1325	W	12	X	X	X		X			+ (Cd), Cr -42														
RINSE	2/1/24	1355	W	12	X	X	X					-43														

NOTES: Contact Rick Ernst (503.708.5945, remst@gsiws.com) or Braedon Warner (208.991.6713) with questions. Include DEQ EDD with final lab report.

Retain non-analyzed samples on label.

Relinquished By: BRAEDON WARNER Signature: <i>Braedon Warner</i> Relinquished By: Signature:	Agency/Agent: GSD WATER SOL. Time & Date: 2/2/24 Agency/Agent: Time & Date:	Received By: Eli Dossett Signature: <i>Eli Dossett</i> 17 Received By: Signature:	Agency/Agent: POCE Time & Date: 2-3-24 / 900 Agency/Agent: Time & Date:
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THIS PURCHASE IS SUBMITTED PURSUANT TO STATE OF OREGON SOLICITATION #102-1098-07 AND PRICE AGREEMENT # 8903. THE PRICE AGREEMENT INCLUDING CONTRACT TERMS AND CONDITIONS AND SPECIAL CONTRACT TERMS AND CONDITIONS (T'S & C'S) CONTAINED IN THE PRICE AGREEMENT ARE HEREBY INCORPORATED BY REFERENCE AND SHALL APPLY TO THIS PURCHASE AND SHALL TAKE PRECEDENCE OVER ALL OTHER CONFLICTING T'S AND C'S, EXPRESS OR IMPLIED.

