

Civitas - CO

Sample Delivery Group: L1771283
Samples Received: 08/24/2024
Project Number: CO045027
Description: State Seventy Holes P4

Report To: Sam Vogt / Jacob Evans
6855 W. 118th Ave
Broomfield, CO 80020

Entire Report Reviewed By:



Chris Ward
Project Manager

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TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	7
Sr: Sample Results	8
DL-N01 @ 15' L1771283-01	8
DL-N02 @ 15' L1771283-02	9
DL-N03 @ 15' L1771283-03	10
DL-N04 @ 15' L1771283-04	11
DL-N05 @ 15' L1771283-05	12
DL-N06 @ 15' L1771283-06	13
DL-S01 @ 15' L1771283-07	14
DL-S02 @ 15' L1771283-08	15
DL-S03 @ 15' L1771283-09	16
DL-S04 @ 15' L1771283-10	17
DL-S05 @ 15' L1771283-11	18
DL-S06 @ 15' L1771283-12	19
DL-S07 @ 15' L1771283-13	20
DL-E01 @ 15' L1771283-14	21
DL-E02 @ 15' L1771283-15	22
DL-E03 @ 15' L1771283-16	23
DL-E04 @ 15' L1771283-17	24
DL-E05 @ 15' L1771283-18	25
DL-W01 @ 15' L1771283-19	26
DL-W02 @ 15' L1771283-20	27
DL-W03 @ 15' L1771283-21	28
Qc: Quality Control Summary	29
Volatile Organic Compounds (GC) by Method 8015D/GRO	29
Volatile Organic Compounds (GC/MS) by Method 8260B	31
Semi-Volatile Organic Compounds (GC) by Method 8015M	34
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	36
Gl: Glossary of Terms	40
Al: Accreditations & Locations	41
Sc: Sample Chain of Custody	42

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

SAMPLE SUMMARY

DL-N01 @ 15' L1771283-01 Solid

				Collected by Angela Kirylo	Collected date/time 08/23/24 13:14	Received date/time 08/24/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2353986	1	08/29/24 10:24	08/31/24 14:02	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2354378	1	08/29/24 10:24	09/02/24 04:51	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2353563	1	09/02/24 07:44	09/04/24 19:12	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2353576	1	09/02/24 07:12	09/04/24 18:08	JCH	Mt. Juliet, TN

DL-N02 @ 15' L1771283-02 Solid

				Collected by Angela Kirylo	Collected date/time 08/23/24 13:16	Received date/time 08/24/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2353986	1	08/29/24 10:24	08/31/24 14:25	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2354378	1	08/29/24 10:24	09/02/24 05:13	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2353563	1	09/02/24 07:44	09/04/24 19:25	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2353576	1	09/02/24 07:12	09/04/24 18:26	JCH	Mt. Juliet, TN

DL-N03 @ 15' L1771283-03 Solid

				Collected by Angela Kirylo	Collected date/time 08/23/24 13:18	Received date/time 08/24/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2353986	1	08/29/24 10:24	08/31/24 14:48	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2354378	1	08/29/24 10:24	09/02/24 05:35	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2353563	1	09/02/24 07:44	09/04/24 19:38	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2353576	1	09/02/24 07:12	09/04/24 18:44	JCH	Mt. Juliet, TN

DL-N04 @ 15' L1771283-04 Solid

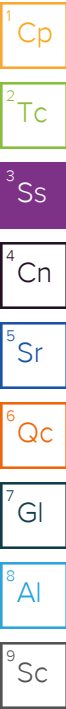
				Collected by Angela Kirylo	Collected date/time 08/23/24 13:20	Received date/time 08/24/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2353986	1	08/29/24 10:24	08/31/24 15:12	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2354378	1	08/29/24 10:24	09/02/24 05:56	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2353563	1	09/02/24 07:44	09/04/24 19:51	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2353576	1	09/02/24 07:12	09/04/24 19:02	JCH	Mt. Juliet, TN

DL-N05 @ 15' L1771283-05 Solid

				Collected by Angela Kirylo	Collected date/time 08/23/24 13:22	Received date/time 08/24/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2354401	1	08/29/24 10:24	08/31/24 19:36	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2354378	1	08/29/24 10:24	09/02/24 06:19	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2353563	1	09/02/24 07:44	09/04/24 20:04	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2353576	1	09/02/24 07:12	09/04/24 19:20	JCH	Mt. Juliet, TN

DL-N06 @ 15' L1771283-06 Solid

				Collected by Angela Kirylo	Collected date/time 08/23/24 13:24	Received date/time 08/24/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2354401	1	08/29/24 10:24	08/31/24 20:00	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2354378	1	08/29/24 10:24	09/02/24 06:40	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2353563	1	09/02/24 07:44	09/04/24 20:44	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2353576	1	09/02/24 07:12	09/04/24 19:38	JCH	Mt. Juliet, TN



SAMPLE SUMMARY

DL-S01 @ 15' L1771283-07 Solid

				Collected by Angela Kirylo	Collected date/time 08/23/24 13:26	Received date/time 08/24/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2354401	1	08/29/24 10:24	08/31/24 20:19	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2354378	1	08/29/24 10:24	09/02/24 07:02	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2353563	1	09/02/24 07:44	09/04/24 20:57	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2353576	1	09/02/24 07:12	09/04/24 19:56	JCH	Mt. Juliet, TN

DL-S02 @ 15' L1771283-08 Solid

				Collected by Angela Kirylo	Collected date/time 08/23/24 13:28	Received date/time 08/24/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2354401	1	08/29/24 10:24	08/31/24 20:38	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2354378	1	08/29/24 10:24	09/02/24 07:24	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2353566	1	09/02/24 07:41	09/04/24 06:13	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2353576	1	09/02/24 07:12	09/04/24 20:14	JCH	Mt. Juliet, TN

DL-S03 @ 15' L1771283-09 Solid

				Collected by Angela Kirylo	Collected date/time 08/23/24 13:30	Received date/time 08/24/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2354401	1	08/29/24 10:24	08/31/24 20:57	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2354380	1	08/29/24 10:24	09/02/24 06:18	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2353566	1	09/02/24 07:41	09/04/24 06:26	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2353577	1	09/02/24 15:10	09/04/24 15:09	HLA	Mt. Juliet, TN

DL-S04 @ 15' L1771283-10 Solid

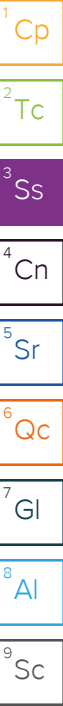
				Collected by Angela Kirylo	Collected date/time 08/23/24 13:32	Received date/time 08/24/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2354401	1	08/29/24 10:24	08/31/24 21:17	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2354380	1	08/29/24 10:24	09/02/24 06:37	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2353566	1	09/02/24 07:41	09/04/24 06:39	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2353577	1	09/02/24 15:10	09/04/24 15:26	HLA	Mt. Juliet, TN

DL-S05 @ 15' L1771283-11 Solid

				Collected by Angela Kirylo	Collected date/time 08/23/24 13:34	Received date/time 08/24/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2354401	1	08/29/24 10:24	08/31/24 21:36	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2354380	1	08/29/24 10:24	09/02/24 06:56	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2353566	1	09/02/24 07:41	09/04/24 09:41	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2353577	1	09/02/24 15:10	09/04/24 16:20	HLA	Mt. Juliet, TN

DL-S06 @ 15' L1771283-12 Solid

				Collected by Angela Kirylo	Collected date/time 08/23/24 13:36	Received date/time 08/24/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2354401	1	08/29/24 10:24	08/31/24 21:56	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2354380	1	08/29/24 10:24	09/02/24 07:15	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2353566	1	09/02/24 07:41	09/04/24 06:52	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2353577	1	09/02/24 15:10	09/04/24 16:37	HLA	Mt. Juliet, TN



SAMPLE SUMMARY

DL-S07 @ 15' L1771283-13 Solid

				Collected by Angela Kirylo	Collected date/time 08/23/24 13:38	Received date/time 08/24/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2354401	1	08/29/24 10:24	08/31/24 22:15	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2354380	1	08/29/24 10:24	09/02/24 07:34	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2353566	1	09/02/24 07:41	09/04/24 07:05	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2353577	1	09/02/24 15:10	09/04/24 16:55	HLA	Mt. Juliet, TN

DL-E01 @ 15' L1771283-14 Solid

				Collected by Angela Kirylo	Collected date/time 08/23/24 13:40	Received date/time 08/24/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2354401	1	08/29/24 10:24	08/31/24 22:34	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2354380	1	08/29/24 10:24	09/02/24 07:53	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2353566	1	09/02/24 07:41	09/04/24 07:18	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2353577	1	09/02/24 15:10	09/04/24 17:13	HLA	Mt. Juliet, TN

DL-E02 @ 15' L1771283-15 Solid

				Collected by Angela Kirylo	Collected date/time 08/23/24 13:42	Received date/time 08/24/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2354401	1	08/29/24 10:24	08/31/24 22:54	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2354380	1	08/29/24 10:24	09/02/24 08:12	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2353566	1	09/02/24 07:41	09/04/24 07:31	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2353577	1	09/02/24 15:10	09/04/24 17:31	HLA	Mt. Juliet, TN

DL-E03 @ 15' L1771283-16 Solid

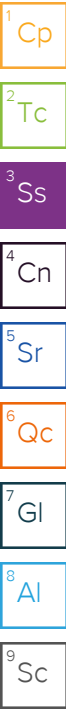
				Collected by Angela Kirylo	Collected date/time 08/23/24 13:44	Received date/time 08/24/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2354401	1	08/29/24 10:24	08/31/24 23:13	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2354380	1	08/29/24 10:24	09/02/24 08:31	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2353566	1	09/02/24 07:41	09/04/24 07:44	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2353577	1	09/02/24 15:10	09/04/24 17:49	HLA	Mt. Juliet, TN

DL-E04 @ 15' L1771283-17 Solid

				Collected by Angela Kirylo	Collected date/time 08/23/24 13:46	Received date/time 08/24/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2354401	1	08/29/24 10:24	08/31/24 23:32	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2354380	1	08/29/24 10:24	09/02/24 08:50	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2353566	1	09/02/24 07:41	09/04/24 07:57	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2353577	1	09/02/24 15:10	09/04/24 18:06	HLA	Mt. Juliet, TN

DL-E05 @ 15' L1771283-18 Solid

				Collected by Angela Kirylo	Collected date/time 08/23/24 13:48	Received date/time 08/24/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2354401	1	08/29/24 10:24	08/31/24 23:52	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2353941	1	08/29/24 10:24	09/02/24 01:31	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2353566	1	09/02/24 07:41	09/04/24 08:10	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2353577	1	09/02/24 15:10	09/04/24 18:24	HLA	Mt. Juliet, TN



SAMPLE SUMMARY

DL-W01 @ 15' L1771283-19 Solid

Collected by
Angela Kirylo

Collected date/time
08/23/24 13:50

Received date/time
08/24/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2354401	1	08/29/24 10:24	09/01/24 00:11	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2353941	1	08/29/24 10:24	09/02/24 01:49	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2353566	1	09/02/24 07:41	09/04/24 08:23	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2353577	1	09/02/24 15:10	09/04/24 18:42	HLA	Mt. Juliet, TN

DL-W02 @ 15' L1771283-20 Solid

Collected by
Angela Kirylo

Collected date/time
08/23/24 13:52

Received date/time
08/24/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2354401	1	08/29/24 10:24	09/01/24 00:30	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2353941	1	08/29/24 10:24	09/02/24 02:08	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2353566	1	09/02/24 07:41	09/04/24 08:36	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2353577	1	09/02/24 15:10	09/04/24 18:59	HLA	Mt. Juliet, TN

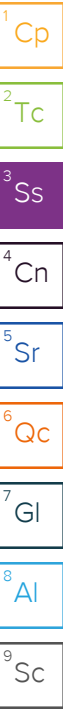
DL-W03 @ 15' L1771283-21 Solid

Collected by
Angela Kirylo

Collected date/time
08/23/24 13:54

Received date/time
08/24/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2354401	1	08/29/24 10:24	09/01/24 00:49	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2353941	1	08/29/24 10:24	09/02/24 02:26	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2353566	1	09/02/24 07:41	09/04/24 08:49	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2353577	1	09/02/24 15:10	09/04/24 19:17	HLA	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.



Chris Ward
Project Manager

Project Narrative

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.



Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPH (GC/FID) Low Fraction	ND		0.500	1	08/31/2024 14:02	WG2353986
(S) a,a,a-Trifluorotoluene(FID)	97.3			77.0-120	08/31/2024 14:02	WG2353986

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

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.00200	1	09/02/2024 04:51	WG2354378
Toluene	ND		0.00500	1	09/02/2024 04:51	WG2354378
Ethylbenzene	ND		0.00500	1	09/02/2024 04:51	WG2354378
Xylenes, Total	ND		0.0100	1	09/02/2024 04:51	WG2354378
1,2,4-Trimethylbenzene	ND		0.00500	1	09/02/2024 04:51	WG2354378
1,3,5-Trimethylbenzene	ND		0.00500	1	09/02/2024 04:51	WG2354378
(S) Toluene-d8	93.0			75.0-131	09/02/2024 04:51	WG2354378
(S) 4-Bromofluorobenzene	96.3			67.0-138	09/02/2024 04:51	WG2354378
(S) 1,2-Dichloroethane-d4	81.0			70.0-130	09/02/2024 04:51	WG2354378

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	ND		50.0	1	09/04/2024 19:12	WG2353563
C28-C36 Motor Oil Range	ND		50.0	1	09/04/2024 19:12	WG2353563
(S) o-Terphenyl	53.9			18.0-148	09/04/2024 19:12	WG2353563

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

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acenaphthene	ND		0.00500	1	09/04/2024 18:08	WG2353576
Anthracene	ND		0.00500	1	09/04/2024 18:08	WG2353576
Benzo(a)anthracene	ND		0.00500	1	09/04/2024 18:08	WG2353576
Benzo(b)fluoranthene	ND		0.00500	1	09/04/2024 18:08	WG2353576
Benzo(k)fluoranthene	ND		0.00500	1	09/04/2024 18:08	WG2353576
Benzo(a)pyrene	ND		0.00500	1	09/04/2024 18:08	WG2353576
Chrysene	ND		0.00500	1	09/04/2024 18:08	WG2353576
Dibenz(a,h)anthracene	ND		0.00500	1	09/04/2024 18:08	WG2353576
Fluoranthene	ND		0.00500	1	09/04/2024 18:08	WG2353576
Fluorene	ND		0.00500	1	09/04/2024 18:08	WG2353576
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	09/04/2024 18:08	WG2353576
1-Methylnaphthalene	ND		0.00500	1	09/04/2024 18:08	WG2353576
2-Methylnaphthalene	ND		0.00500	1	09/04/2024 18:08	WG2353576
Naphthalene	ND		0.00408	1	09/04/2024 18:08	WG2353576
Pyrene	ND		0.00500	1	09/04/2024 18:08	WG2353576
(S) p-Terphenyl-d14	55.2			23.0-120	09/04/2024 18:08	WG2353576
(S) Nitrobenzene-d5	53.8			14.0-149	09/04/2024 18:08	WG2353576
(S) 2-Fluorobiphenyl	58.6			34.0-125	09/04/2024 18:08	WG2353576

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.500	1	08/31/2024 14:25	WG2353986
(S) a,a,a-Trifluorotoluene(FID)	98.1			77.0-120	08/31/2024 14:25	WG2353986

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	09/02/2024 05:13	WG2354378
Toluene	ND		0.00500	1	09/02/2024 05:13	WG2354378
Ethylbenzene	ND		0.00500	1	09/02/2024 05:13	WG2354378
Xylenes, Total	ND		0.0100	1	09/02/2024 05:13	WG2354378
1,2,4-Trimethylbenzene	ND		0.00500	1	09/02/2024 05:13	WG2354378
1,3,5-Trimethylbenzene	ND		0.00500	1	09/02/2024 05:13	WG2354378
(S) Toluene-d8	92.9			75.0-131	09/02/2024 05:13	WG2354378
(S) 4-Bromofluorobenzene	91.8			67.0-138	09/02/2024 05:13	WG2354378
(S) 1,2-Dichloroethane-d4	79.3			70.0-130	09/02/2024 05:13	WG2354378

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	09/04/2024 19:25	WG2353563
C28-C36 Motor Oil Range	ND		50.0	1	09/04/2024 19:25	WG2353563
(S) o-Terphenyl	65.8			18.0-148	09/04/2024 19:25	WG2353563

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	09/04/2024 18:26	WG2353576
Anthracene	ND		0.00500	1	09/04/2024 18:26	WG2353576
Benzo(a)anthracene	ND		0.00500	1	09/04/2024 18:26	WG2353576
Benzo(b)fluoranthene	ND		0.00500	1	09/04/2024 18:26	WG2353576
Benzo(k)fluoranthene	ND		0.00500	1	09/04/2024 18:26	WG2353576
Benzo(a)pyrene	ND		0.00500	1	09/04/2024 18:26	WG2353576
Chrysene	ND		0.00500	1	09/04/2024 18:26	WG2353576
Dibenz(a,h)anthracene	ND		0.00500	1	09/04/2024 18:26	WG2353576
Fluoranthene	ND		0.00500	1	09/04/2024 18:26	WG2353576
Fluorene	ND		0.00500	1	09/04/2024 18:26	WG2353576
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	09/04/2024 18:26	WG2353576
1-Methylnaphthalene	ND		0.00500	1	09/04/2024 18:26	WG2353576
2-Methylnaphthalene	ND		0.00500	1	09/04/2024 18:26	WG2353576
Naphthalene	ND		0.00408	1	09/04/2024 18:26	WG2353576
Pyrene	ND		0.00500	1	09/04/2024 18:26	WG2353576
(S) p-Terphenyl-d14	99.4			23.0-120	09/04/2024 18:26	WG2353576
(S) Nitrobenzene-d5	85.2			14.0-149	09/04/2024 18:26	WG2353576
(S) 2-Fluorobiphenyl	93.9			34.0-125	09/04/2024 18:26	WG2353576

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.500	1	08/31/2024 14:48	WG2353986
(S) a,a,a-Trifluorotoluene(FID)	97.2			77.0-120	08/31/2024 14:48	WG2353986

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	09/02/2024 05:35	WG2354378
Toluene	ND		0.00500	1	09/02/2024 05:35	WG2354378
Ethylbenzene	ND		0.00500	1	09/02/2024 05:35	WG2354378
Xylenes, Total	ND		0.0100	1	09/02/2024 05:35	WG2354378
1,2,4-Trimethylbenzene	ND		0.00500	1	09/02/2024 05:35	WG2354378
1,3,5-Trimethylbenzene	ND		0.00500	1	09/02/2024 05:35	WG2354378
(S) Toluene-d8	93.5			75.0-131	09/02/2024 05:35	WG2354378
(S) 4-Bromofluorobenzene	95.0			67.0-138	09/02/2024 05:35	WG2354378
(S) 1,2-Dichloroethane-d4	81.4			70.0-130	09/02/2024 05:35	WG2354378

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	09/04/2024 19:38	WG2353563
C28-C36 Motor Oil Range	ND		50.0	1	09/04/2024 19:38	WG2353563
(S) o-Terphenyl	54.3			18.0-148	09/04/2024 19:38	WG2353563

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	09/04/2024 18:44	WG2353576
Anthracene	ND		0.00500	1	09/04/2024 18:44	WG2353576
Benzo(a)anthracene	ND		0.00500	1	09/04/2024 18:44	WG2353576
Benzo(b)fluoranthene	ND		0.00500	1	09/04/2024 18:44	WG2353576
Benzo(k)fluoranthene	ND		0.00500	1	09/04/2024 18:44	WG2353576
Benzo(a)pyrene	ND		0.00500	1	09/04/2024 18:44	WG2353576
Chrysene	ND		0.00500	1	09/04/2024 18:44	WG2353576
Dibenz(a,h)anthracene	ND		0.00500	1	09/04/2024 18:44	WG2353576
Fluoranthene	ND		0.00500	1	09/04/2024 18:44	WG2353576
Fluorene	ND		0.00500	1	09/04/2024 18:44	WG2353576
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	09/04/2024 18:44	WG2353576
1-Methylnaphthalene	ND		0.00500	1	09/04/2024 18:44	WG2353576
2-Methylnaphthalene	ND		0.00500	1	09/04/2024 18:44	WG2353576
Naphthalene	ND		0.00408	1	09/04/2024 18:44	WG2353576
Pyrene	ND		0.00500	1	09/04/2024 18:44	WG2353576
(S) p-Terphenyl-d14	103			23.0-120	09/04/2024 18:44	WG2353576
(S) Nitrobenzene-d5	88.2			14.0-149	09/04/2024 18:44	WG2353576
(S) 2-Fluorobiphenyl	98.0			34.0-125	09/04/2024 18:44	WG2353576

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.500	1	08/31/2024 15:12	WG2353986
(S) a,a,a-Trifluorotoluene(FID)	98.1			77.0-120	08/31/2024 15:12	WG2353986

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	09/02/2024 05:56	WG2354378
Toluene	ND		0.00500	1	09/02/2024 05:56	WG2354378
Ethylbenzene	ND		0.00500	1	09/02/2024 05:56	WG2354378
Xylenes, Total	ND		0.0100	1	09/02/2024 05:56	WG2354378
1,2,4-Trimethylbenzene	ND		0.00500	1	09/02/2024 05:56	WG2354378
1,3,5-Trimethylbenzene	ND		0.00500	1	09/02/2024 05:56	WG2354378
(S) Toluene-d8	91.4			75.0-131	09/02/2024 05:56	WG2354378
(S) 4-Bromofluorobenzene	91.6			67.0-138	09/02/2024 05:56	WG2354378
(S) 1,2-Dichloroethane-d4	83.2			70.0-130	09/02/2024 05:56	WG2354378

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	09/04/2024 19:51	WG2353563
C28-C36 Motor Oil Range	ND		50.0	1	09/04/2024 19:51	WG2353563
(S) o-Terphenyl	55.2			18.0-148	09/04/2024 19:51	WG2353563

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	09/04/2024 19:02	WG2353576
Anthracene	ND		0.00500	1	09/04/2024 19:02	WG2353576
Benzo(a)anthracene	ND		0.00500	1	09/04/2024 19:02	WG2353576
Benzo(b)fluoranthene	ND		0.00500	1	09/04/2024 19:02	WG2353576
Benzo(k)fluoranthene	ND		0.00500	1	09/04/2024 19:02	WG2353576
Benzo(a)pyrene	ND		0.00500	1	09/04/2024 19:02	WG2353576
Chrysene	ND		0.00500	1	09/04/2024 19:02	WG2353576
Dibenz(a,h)anthracene	ND		0.00500	1	09/04/2024 19:02	WG2353576
Fluoranthene	ND		0.00500	1	09/04/2024 19:02	WG2353576
Fluorene	ND		0.00500	1	09/04/2024 19:02	WG2353576
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	09/04/2024 19:02	WG2353576
1-Methylnaphthalene	ND		0.00500	1	09/04/2024 19:02	WG2353576
2-Methylnaphthalene	ND		0.00500	1	09/04/2024 19:02	WG2353576
Naphthalene	ND		0.00408	1	09/04/2024 19:02	WG2353576
Pyrene	ND		0.00500	1	09/04/2024 19:02	WG2353576
(S) p-Terphenyl-d14	100			23.0-120	09/04/2024 19:02	WG2353576
(S) Nitrobenzene-d5	87.7			14.0-149	09/04/2024 19:02	WG2353576
(S) 2-Fluorobiphenyl	96.9			34.0-125	09/04/2024 19:02	WG2353576

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.500	1	08/31/2024 19:36	WG2354401
(S) a,a,a-Trifluorotoluene(FID)	93.3			77.0-120	08/31/2024 19:36	WG2354401

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	09/02/2024 06:19	WG2354378
Toluene	ND		0.00500	1	09/02/2024 06:19	WG2354378
Ethylbenzene	ND		0.00500	1	09/02/2024 06:19	WG2354378
Xylenes, Total	ND		0.0100	1	09/02/2024 06:19	WG2354378
1,2,4-Trimethylbenzene	ND		0.00500	1	09/02/2024 06:19	WG2354378
1,3,5-Trimethylbenzene	ND		0.00500	1	09/02/2024 06:19	WG2354378
(S) Toluene-d8	92.8			75.0-131	09/02/2024 06:19	WG2354378
(S) 4-Bromofluorobenzene	94.3			67.0-138	09/02/2024 06:19	WG2354378
(S) 1,2-Dichloroethane-d4	82.3			70.0-130	09/02/2024 06:19	WG2354378

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	09/04/2024 20:04	WG2353563
C28-C36 Motor Oil Range	ND		50.0	1	09/04/2024 20:04	WG2353563
(S) o-Terphenyl	61.2			18.0-148	09/04/2024 20:04	WG2353563

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	09/04/2024 19:20	WG2353576
Anthracene	ND		0.00500	1	09/04/2024 19:20	WG2353576
Benzo(a)anthracene	ND		0.00500	1	09/04/2024 19:20	WG2353576
Benzo(b)fluoranthene	ND		0.00500	1	09/04/2024 19:20	WG2353576
Benzo(k)fluoranthene	ND		0.00500	1	09/04/2024 19:20	WG2353576
Benzo(a)pyrene	ND		0.00500	1	09/04/2024 19:20	WG2353576
Chrysene	ND		0.00500	1	09/04/2024 19:20	WG2353576
Dibenz(a,h)anthracene	ND		0.00500	1	09/04/2024 19:20	WG2353576
Fluoranthene	ND		0.00500	1	09/04/2024 19:20	WG2353576
Fluorene	ND		0.00500	1	09/04/2024 19:20	WG2353576
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	09/04/2024 19:20	WG2353576
1-Methylnaphthalene	ND		0.00500	1	09/04/2024 19:20	WG2353576
2-Methylnaphthalene	ND		0.00500	1	09/04/2024 19:20	WG2353576
Naphthalene	ND		0.00408	1	09/04/2024 19:20	WG2353576
Pyrene	ND		0.00500	1	09/04/2024 19:20	WG2353576
(S) p-Terphenyl-d14	95.2			23.0-120	09/04/2024 19:20	WG2353576
(S) Nitrobenzene-d5	82.4			14.0-149	09/04/2024 19:20	WG2353576
(S) 2-Fluorobiphenyl	93.0			34.0-125	09/04/2024 19:20	WG2353576

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPH (GC/FID) Low Fraction	ND		0.500	1	08/31/2024 20:00	WG2354401
(S) a,a,a-Trifluorotoluene(FID)	92.3			77.0-120	08/31/2024 20:00	WG2354401

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

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.00200	1	09/02/2024 06:40	WG2354378
Toluene	ND		0.00500	1	09/02/2024 06:40	WG2354378
Ethylbenzene	ND		0.00500	1	09/02/2024 06:40	WG2354378
Xylenes, Total	ND		0.0100	1	09/02/2024 06:40	WG2354378
1,2,4-Trimethylbenzene	ND		0.00500	1	09/02/2024 06:40	WG2354378
1,3,5-Trimethylbenzene	ND		0.00500	1	09/02/2024 06:40	WG2354378
(S) Toluene-d8	91.2			75.0-131	09/02/2024 06:40	WG2354378
(S) 4-Bromofluorobenzene	93.8			67.0-138	09/02/2024 06:40	WG2354378
(S) 1,2-Dichloroethane-d4	82.3			70.0-130	09/02/2024 06:40	WG2354378

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	ND		50.0	1	09/04/2024 20:44	WG2353563
C28-C36 Motor Oil Range	ND		50.0	1	09/04/2024 20:44	WG2353563
(S) o-Terphenyl	57.0			18.0-148	09/04/2024 20:44	WG2353563

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

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acenaphthene	ND		0.00500	1	09/04/2024 19:38	WG2353576
Anthracene	ND		0.00500	1	09/04/2024 19:38	WG2353576
Benzo(a)anthracene	ND		0.00500	1	09/04/2024 19:38	WG2353576
Benzo(b)fluoranthene	ND		0.00500	1	09/04/2024 19:38	WG2353576
Benzo(k)fluoranthene	ND		0.00500	1	09/04/2024 19:38	WG2353576
Benzo(a)pyrene	ND		0.00500	1	09/04/2024 19:38	WG2353576
Chrysene	ND		0.00500	1	09/04/2024 19:38	WG2353576
Dibenz(a,h)anthracene	ND		0.00500	1	09/04/2024 19:38	WG2353576
Fluoranthene	ND		0.00500	1	09/04/2024 19:38	WG2353576
Fluorene	ND		0.00500	1	09/04/2024 19:38	WG2353576
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	09/04/2024 19:38	WG2353576
1-Methylnaphthalene	ND		0.00500	1	09/04/2024 19:38	WG2353576
2-Methylnaphthalene	ND		0.00500	1	09/04/2024 19:38	WG2353576
Naphthalene	ND		0.00408	1	09/04/2024 19:38	WG2353576
Pyrene	ND		0.00500	1	09/04/2024 19:38	WG2353576
(S) p-Terphenyl-d14	98.4			23.0-120	09/04/2024 19:38	WG2353576
(S) Nitrobenzene-d5	84.5			14.0-149	09/04/2024 19:38	WG2353576
(S) 2-Fluorobiphenyl	95.1			34.0-125	09/04/2024 19:38	WG2353576

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPH (GC/FID) Low Fraction	ND		0.500	1	08/31/2024 20:19	WG2354401
(S) a,a,a-Trifluorotoluene(FID)	90.5			77.0-120	08/31/2024 20:19	WG2354401

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

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.00200	1	09/02/2024 07:02	WG2354378
Toluene	ND		0.00500	1	09/02/2024 07:02	WG2354378
Ethylbenzene	ND		0.00500	1	09/02/2024 07:02	WG2354378
Xylenes, Total	ND		0.0100	1	09/02/2024 07:02	WG2354378
1,2,4-Trimethylbenzene	ND		0.00500	1	09/02/2024 07:02	WG2354378
1,3,5-Trimethylbenzene	ND		0.00500	1	09/02/2024 07:02	WG2354378
(S) Toluene-d8	92.9			75.0-131	09/02/2024 07:02	WG2354378
(S) 4-Bromofluorobenzene	96.5			67.0-138	09/02/2024 07:02	WG2354378
(S) 1,2-Dichloroethane-d4	78.5			70.0-130	09/02/2024 07:02	WG2354378

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	ND		50.0	1	09/04/2024 20:57	WG2353563
C28-C36 Motor Oil Range	ND		50.0	1	09/04/2024 20:57	WG2353563
(S) o-Terphenyl	57.3			18.0-148	09/04/2024 20:57	WG2353563

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

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acenaphthene	ND		0.00500	1	09/04/2024 19:56	WG2353576
Anthracene	ND		0.00500	1	09/04/2024 19:56	WG2353576
Benzo(a)anthracene	ND		0.00500	1	09/04/2024 19:56	WG2353576
Benzo(b)fluoranthene	ND		0.00500	1	09/04/2024 19:56	WG2353576
Benzo(k)fluoranthene	ND		0.00500	1	09/04/2024 19:56	WG2353576
Benzo(a)pyrene	ND		0.00500	1	09/04/2024 19:56	WG2353576
Chrysene	ND		0.00500	1	09/04/2024 19:56	WG2353576
Dibenz(a,h)anthracene	ND		0.00500	1	09/04/2024 19:56	WG2353576
Fluoranthene	ND		0.00500	1	09/04/2024 19:56	WG2353576
Fluorene	ND		0.00500	1	09/04/2024 19:56	WG2353576
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	09/04/2024 19:56	WG2353576
1-Methylnaphthalene	ND		0.00500	1	09/04/2024 19:56	WG2353576
2-Methylnaphthalene	ND		0.00500	1	09/04/2024 19:56	WG2353576
Naphthalene	ND		0.00408	1	09/04/2024 19:56	WG2353576
Pyrene	ND		0.00500	1	09/04/2024 19:56	WG2353576
(S) p-Terphenyl-d14	98.8			23.0-120	09/04/2024 19:56	WG2353576
(S) Nitrobenzene-d5	83.4			14.0-149	09/04/2024 19:56	WG2353576
(S) 2-Fluorobiphenyl	94.6			34.0-125	09/04/2024 19:56	WG2353576

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.500	1	08/31/2024 20:38	WG2354401
(S) a,a,a-Trifluorotoluene(FID)	93.3			77.0-120	08/31/2024 20:38	WG2354401

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	09/02/2024 07:24	WG2354378
Toluene	ND		0.00500	1	09/02/2024 07:24	WG2354378
Ethylbenzene	ND		0.00500	1	09/02/2024 07:24	WG2354378
Xylenes, Total	ND		0.0100	1	09/02/2024 07:24	WG2354378
1,2,4-Trimethylbenzene	ND		0.00500	1	09/02/2024 07:24	WG2354378
1,3,5-Trimethylbenzene	ND		0.00500	1	09/02/2024 07:24	WG2354378
(S) Toluene-d8	93.0			75.0-131	09/02/2024 07:24	WG2354378
(S) 4-Bromofluorobenzene	96.4			67.0-138	09/02/2024 07:24	WG2354378
(S) 1,2-Dichloroethane-d4	82.8			70.0-130	09/02/2024 07:24	WG2354378

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	09/04/2024 06:13	WG2353566
C28-C36 Motor Oil Range	ND		50.0	1	09/04/2024 06:13	WG2353566
(S) o-Terphenyl	63.3			18.0-148	09/04/2024 06:13	WG2353566

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	09/04/2024 20:14	WG2353576
Anthracene	ND		0.00500	1	09/04/2024 20:14	WG2353576
Benzo(a)anthracene	ND		0.00500	1	09/04/2024 20:14	WG2353576
Benzo(b)fluoranthene	ND		0.00500	1	09/04/2024 20:14	WG2353576
Benzo(k)fluoranthene	ND		0.00500	1	09/04/2024 20:14	WG2353576
Benzo(a)pyrene	ND		0.00500	1	09/04/2024 20:14	WG2353576
Chrysene	ND		0.00500	1	09/04/2024 20:14	WG2353576
Dibenz(a,h)anthracene	ND		0.00500	1	09/04/2024 20:14	WG2353576
Fluoranthene	ND		0.00500	1	09/04/2024 20:14	WG2353576
Fluorene	ND		0.00500	1	09/04/2024 20:14	WG2353576
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	09/04/2024 20:14	WG2353576
1-Methylnaphthalene	ND		0.00500	1	09/04/2024 20:14	WG2353576
2-Methylnaphthalene	ND		0.00500	1	09/04/2024 20:14	WG2353576
Naphthalene	ND		0.00408	1	09/04/2024 20:14	WG2353576
Pyrene	ND		0.00500	1	09/04/2024 20:14	WG2353576
(S) p-Terphenyl-d14	84.7			23.0-120	09/04/2024 20:14	WG2353576
(S) Nitrobenzene-d5	79.1			14.0-149	09/04/2024 20:14	WG2353576
(S) 2-Fluorobiphenyl	87.0			34.0-125	09/04/2024 20:14	WG2353576

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.500	1	08/31/2024 20:57	WG2354401
(S) a,a,a-Trifluorotoluene(FID)	93.6			77.0-120	08/31/2024 20:57	WG2354401

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	09/02/2024 06:18	WG2354380
Toluene	ND		0.00500	1	09/02/2024 06:18	WG2354380
Ethylbenzene	ND		0.00500	1	09/02/2024 06:18	WG2354380
Xylenes, Total	ND		0.0100	1	09/02/2024 06:18	WG2354380
1,2,4-Trimethylbenzene	ND		0.00500	1	09/02/2024 06:18	WG2354380
1,3,5-Trimethylbenzene	ND		0.00500	1	09/02/2024 06:18	WG2354380
(S) Toluene-d8	104			75.0-131	09/02/2024 06:18	WG2354380
(S) 4-Bromofluorobenzene	101			67.0-138	09/02/2024 06:18	WG2354380
(S) 1,2-Dichloroethane-d4	82.3			70.0-130	09/02/2024 06:18	WG2354380

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	09/04/2024 06:26	WG2353566
C28-C36 Motor Oil Range	ND		50.0	1	09/04/2024 06:26	WG2353566
(S) o-Terphenyl	67.0			18.0-148	09/04/2024 06:26	WG2353566

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	09/04/2024 15:09	WG2353577
Anthracene	ND		0.00500	1	09/04/2024 15:09	WG2353577
Benzo(a)anthracene	ND		0.00500	1	09/04/2024 15:09	WG2353577
Benzo(b)fluoranthene	ND		0.00500	1	09/04/2024 15:09	WG2353577
Benzo(k)fluoranthene	ND		0.00500	1	09/04/2024 15:09	WG2353577
Benzo(a)pyrene	ND		0.00500	1	09/04/2024 15:09	WG2353577
Chrysene	ND		0.00500	1	09/04/2024 15:09	WG2353577
Dibenz(a,h)anthracene	ND		0.00500	1	09/04/2024 15:09	WG2353577
Fluoranthene	ND		0.00500	1	09/04/2024 15:09	WG2353577
Fluorene	ND		0.00500	1	09/04/2024 15:09	WG2353577
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	09/04/2024 15:09	WG2353577
1-Methylnaphthalene	ND		0.00500	1	09/04/2024 15:09	WG2353577
2-Methylnaphthalene	ND		0.00500	1	09/04/2024 15:09	WG2353577
Naphthalene	ND		0.00408	1	09/04/2024 15:09	WG2353577
Pyrene	ND		0.00500	1	09/04/2024 15:09	WG2353577
(S) p-Terphenyl-d14	89.5			23.0-120	09/04/2024 15:09	WG2353577
(S) Nitrobenzene-d5	78.3			14.0-149	09/04/2024 15:09	WG2353577
(S) 2-Fluorobiphenyl	96.1			34.0-125	09/04/2024 15:09	WG2353577

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPH (GC/FID) Low Fraction	ND		0.500	1	08/31/2024 21:17	WG2354401
(S) a,a,a-Trifluorotoluene(FID)	91.4			77.0-120	08/31/2024 21:17	WG2354401

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

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.00200	1	09/02/2024 06:37	WG2354380
Toluene	ND		0.00500	1	09/02/2024 06:37	WG2354380
Ethylbenzene	ND		0.00500	1	09/02/2024 06:37	WG2354380
Xylenes, Total	ND		0.0100	1	09/02/2024 06:37	WG2354380
1,2,4-Trimethylbenzene	ND		0.00500	1	09/02/2024 06:37	WG2354380
1,3,5-Trimethylbenzene	ND		0.00500	1	09/02/2024 06:37	WG2354380
(S) Toluene-d8	104			75.0-131	09/02/2024 06:37	WG2354380
(S) 4-Bromofluorobenzene	101			67.0-138	09/02/2024 06:37	WG2354380
(S) 1,2-Dichloroethane-d4	83.0			70.0-130	09/02/2024 06:37	WG2354380

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	ND		50.0	1	09/04/2024 06:39	WG2353566
C28-C36 Motor Oil Range	ND		50.0	1	09/04/2024 06:39	WG2353566
(S) o-Terphenyl	62.7			18.0-148	09/04/2024 06:39	WG2353566

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

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acenaphthene	ND		0.00500	1	09/04/2024 15:26	WG2353577
Anthracene	ND		0.00500	1	09/04/2024 15:26	WG2353577
Benzo(a)anthracene	ND		0.00500	1	09/04/2024 15:26	WG2353577
Benzo(b)fluoranthene	ND		0.00500	1	09/04/2024 15:26	WG2353577
Benzo(k)fluoranthene	ND		0.00500	1	09/04/2024 15:26	WG2353577
Benzo(a)pyrene	ND		0.00500	1	09/04/2024 15:26	WG2353577
Chrysene	ND		0.00500	1	09/04/2024 15:26	WG2353577
Dibenz(a,h)anthracene	ND		0.00500	1	09/04/2024 15:26	WG2353577
Fluoranthene	ND		0.00500	1	09/04/2024 15:26	WG2353577
Fluorene	ND		0.00500	1	09/04/2024 15:26	WG2353577
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	09/04/2024 15:26	WG2353577
1-Methylnaphthalene	ND		0.00500	1	09/04/2024 15:26	WG2353577
2-Methylnaphthalene	ND		0.00500	1	09/04/2024 15:26	WG2353577
Naphthalene	ND		0.00408	1	09/04/2024 15:26	WG2353577
Pyrene	ND		0.00500	1	09/04/2024 15:26	WG2353577
(S) p-Terphenyl-d14	88.5			23.0-120	09/04/2024 15:26	WG2353577
(S) Nitrobenzene-d5	74.5			14.0-149	09/04/2024 15:26	WG2353577
(S) 2-Fluorobiphenyl	94.6			34.0-125	09/04/2024 15:26	WG2353577

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.500	1	08/31/2024 21:36	WG2354401
(S) a,a,a-Trifluorotoluene(FID)	92.2			77.0-120	08/31/2024 21:36	WG2354401

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	09/02/2024 06:56	WG2354380
Toluene	ND		0.00500	1	09/02/2024 06:56	WG2354380
Ethylbenzene	ND		0.00500	1	09/02/2024 06:56	WG2354380
Xylenes, Total	ND		0.0100	1	09/02/2024 06:56	WG2354380
1,2,4-Trimethylbenzene	ND		0.00500	1	09/02/2024 06:56	WG2354380
1,3,5-Trimethylbenzene	ND		0.00500	1	09/02/2024 06:56	WG2354380
(S) Toluene-d8	104			75.0-131	09/02/2024 06:56	WG2354380
(S) 4-Bromofluorobenzene	102			67.0-138	09/02/2024 06:56	WG2354380
(S) 1,2-Dichloroethane-d4	83.6			70.0-130	09/02/2024 06:56	WG2354380

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	09/04/2024 09:41	WG2353566
C28-C36 Motor Oil Range	ND		50.0	1	09/04/2024 09:41	WG2353566
(S) o-Terphenyl	67.7			18.0-148	09/04/2024 09:41	WG2353566

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	09/04/2024 16:20	WG2353577
Anthracene	ND		0.00500	1	09/04/2024 16:20	WG2353577
Benzo(a)anthracene	ND		0.00500	1	09/04/2024 16:20	WG2353577
Benzo(b)fluoranthene	ND		0.00500	1	09/04/2024 16:20	WG2353577
Benzo(k)fluoranthene	ND		0.00500	1	09/04/2024 16:20	WG2353577
Benzo(a)pyrene	ND		0.00500	1	09/04/2024 16:20	WG2353577
Chrysene	ND		0.00500	1	09/04/2024 16:20	WG2353577
Dibenz(a,h)anthracene	ND		0.00500	1	09/04/2024 16:20	WG2353577
Fluoranthene	ND		0.00500	1	09/04/2024 16:20	WG2353577
Fluorene	ND		0.00500	1	09/04/2024 16:20	WG2353577
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	09/04/2024 16:20	WG2353577
1-Methylnaphthalene	ND		0.00500	1	09/04/2024 16:20	WG2353577
2-Methylnaphthalene	ND		0.00500	1	09/04/2024 16:20	WG2353577
Naphthalene	ND		0.00408	1	09/04/2024 16:20	WG2353577
Pyrene	ND		0.00500	1	09/04/2024 16:20	WG2353577
(S) p-Terphenyl-d14	93.0			23.0-120	09/04/2024 16:20	WG2353577
(S) Nitrobenzene-d5	77.5			14.0-149	09/04/2024 16:20	WG2353577
(S) 2-Fluorobiphenyl	97.6			34.0-125	09/04/2024 16:20	WG2353577

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.500	1	08/31/2024 21:56	WG2354401
(S) a,a,a-Trifluorotoluene(FID)	94.0			77.0-120	08/31/2024 21:56	WG2354401

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	09/02/2024 07:15	WG2354380
Toluene	ND		0.00500	1	09/02/2024 07:15	WG2354380
Ethylbenzene	ND		0.00500	1	09/02/2024 07:15	WG2354380
Xylenes, Total	ND		0.0100	1	09/02/2024 07:15	WG2354380
1,2,4-Trimethylbenzene	ND		0.00500	1	09/02/2024 07:15	WG2354380
1,3,5-Trimethylbenzene	ND		0.00500	1	09/02/2024 07:15	WG2354380
(S) Toluene-d8	105			75.0-131	09/02/2024 07:15	WG2354380
(S) 4-Bromofluorobenzene	102			67.0-138	09/02/2024 07:15	WG2354380
(S) 1,2-Dichloroethane-d4	82.6			70.0-130	09/02/2024 07:15	WG2354380

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	09/04/2024 06:52	WG2353566
C28-C36 Motor Oil Range	ND		50.0	1	09/04/2024 06:52	WG2353566
(S) o-Terphenyl	56.3			18.0-148	09/04/2024 06:52	WG2353566

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	09/04/2024 16:37	WG2353577
Anthracene	ND		0.00500	1	09/04/2024 16:37	WG2353577
Benzo(a)anthracene	ND		0.00500	1	09/04/2024 16:37	WG2353577
Benzo(b)fluoranthene	ND		0.00500	1	09/04/2024 16:37	WG2353577
Benzo(k)fluoranthene	ND		0.00500	1	09/04/2024 16:37	WG2353577
Benzo(a)pyrene	ND		0.00500	1	09/04/2024 16:37	WG2353577
Chrysene	ND		0.00500	1	09/04/2024 16:37	WG2353577
Dibenz(a,h)anthracene	ND		0.00500	1	09/04/2024 16:37	WG2353577
Fluoranthene	ND		0.00500	1	09/04/2024 16:37	WG2353577
Fluorene	ND		0.00500	1	09/04/2024 16:37	WG2353577
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	09/04/2024 16:37	WG2353577
1-Methylnaphthalene	ND		0.00500	1	09/04/2024 16:37	WG2353577
2-Methylnaphthalene	ND		0.00500	1	09/04/2024 16:37	WG2353577
Naphthalene	ND		0.00408	1	09/04/2024 16:37	WG2353577
Pyrene	ND		0.00500	1	09/04/2024 16:37	WG2353577
(S) p-Terphenyl-d14	80.0			23.0-120	09/04/2024 16:37	WG2353577
(S) Nitrobenzene-d5	70.0			14.0-149	09/04/2024 16:37	WG2353577
(S) 2-Fluorobiphenyl	86.3			34.0-125	09/04/2024 16:37	WG2353577

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.500	1	08/31/2024 22:15	WG2354401
(S) a,a,a-Trifluorotoluene(FID)	92.6			77.0-120	08/31/2024 22:15	WG2354401

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	09/02/2024 07:34	WG2354380
Toluene	ND		0.00500	1	09/02/2024 07:34	WG2354380
Ethylbenzene	ND		0.00500	1	09/02/2024 07:34	WG2354380
Xylenes, Total	ND		0.0100	1	09/02/2024 07:34	WG2354380
1,2,4-Trimethylbenzene	ND		0.00500	1	09/02/2024 07:34	WG2354380
1,3,5-Trimethylbenzene	ND		0.00500	1	09/02/2024 07:34	WG2354380
(S) Toluene-d8	104			75.0-131	09/02/2024 07:34	WG2354380
(S) 4-Bromofluorobenzene	100			67.0-138	09/02/2024 07:34	WG2354380
(S) 1,2-Dichloroethane-d4	83.5			70.0-130	09/02/2024 07:34	WG2354380

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	09/04/2024 07:05	WG2353566
C28-C36 Motor Oil Range	ND		50.0	1	09/04/2024 07:05	WG2353566
(S) o-Terphenyl	62.3			18.0-148	09/04/2024 07:05	WG2353566

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	09/04/2024 16:55	WG2353577
Anthracene	ND		0.00500	1	09/04/2024 16:55	WG2353577
Benzo(a)anthracene	ND		0.00500	1	09/04/2024 16:55	WG2353577
Benzo(b)fluoranthene	ND		0.00500	1	09/04/2024 16:55	WG2353577
Benzo(k)fluoranthene	ND		0.00500	1	09/04/2024 16:55	WG2353577
Benzo(a)pyrene	ND		0.00500	1	09/04/2024 16:55	WG2353577
Chrysene	ND		0.00500	1	09/04/2024 16:55	WG2353577
Dibenz(a,h)anthracene	ND		0.00500	1	09/04/2024 16:55	WG2353577
Fluoranthene	ND		0.00500	1	09/04/2024 16:55	WG2353577
Fluorene	ND		0.00500	1	09/04/2024 16:55	WG2353577
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	09/04/2024 16:55	WG2353577
1-Methylnaphthalene	ND		0.00500	1	09/04/2024 16:55	WG2353577
2-Methylnaphthalene	ND		0.00500	1	09/04/2024 16:55	WG2353577
Naphthalene	ND		0.00408	1	09/04/2024 16:55	WG2353577
Pyrene	ND		0.00500	1	09/04/2024 16:55	WG2353577
(S) p-Terphenyl-d14	88.7			23.0-120	09/04/2024 16:55	WG2353577
(S) Nitrobenzene-d5	73.6			14.0-149	09/04/2024 16:55	WG2353577
(S) 2-Fluorobiphenyl	92.1			34.0-125	09/04/2024 16:55	WG2353577

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPH (GC/FID) Low Fraction	ND		0.500	1	08/31/2024 22:34	WG2354401
(S) a,a,a-Trifluorotoluene(FID)	91.8			77.0-120	08/31/2024 22:34	WG2354401

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

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Benzene	ND		0.00200	1	09/02/2024 07:53	WG2354380
Toluene	ND		0.00500	1	09/02/2024 07:53	WG2354380
Ethylbenzene	ND		0.00500	1	09/02/2024 07:53	WG2354380
Xylenes, Total	ND		0.0100	1	09/02/2024 07:53	WG2354380
1,2,4-Trimethylbenzene	ND		0.00500	1	09/02/2024 07:53	WG2354380
1,3,5-Trimethylbenzene	ND		0.00500	1	09/02/2024 07:53	WG2354380
(S) Toluene-d8	103			75.0-131	09/02/2024 07:53	WG2354380
(S) 4-Bromofluorobenzene	99.7			67.0-138	09/02/2024 07:53	WG2354380
(S) 1,2-Dichloroethane-d4	83.6			70.0-130	09/02/2024 07:53	WG2354380

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	ND		50.0	1	09/04/2024 07:18	WG2353566
C28-C36 Motor Oil Range	ND		50.0	1	09/04/2024 07:18	WG2353566
(S) o-Terphenyl	59.6			18.0-148	09/04/2024 07:18	WG2353566

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

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acenaphthene	ND		0.00500	1	09/04/2024 17:13	WG2353577
Anthracene	ND		0.00500	1	09/04/2024 17:13	WG2353577
Benzo(a)anthracene	ND		0.00500	1	09/04/2024 17:13	WG2353577
Benzo(b)fluoranthene	ND		0.00500	1	09/04/2024 17:13	WG2353577
Benzo(k)fluoranthene	ND		0.00500	1	09/04/2024 17:13	WG2353577
Benzo(a)pyrene	ND		0.00500	1	09/04/2024 17:13	WG2353577
Chrysene	ND		0.00500	1	09/04/2024 17:13	WG2353577
Dibenz(a,h)anthracene	ND		0.00500	1	09/04/2024 17:13	WG2353577
Fluoranthene	ND		0.00500	1	09/04/2024 17:13	WG2353577
Fluorene	ND		0.00500	1	09/04/2024 17:13	WG2353577
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	09/04/2024 17:13	WG2353577
1-Methylnaphthalene	ND		0.00500	1	09/04/2024 17:13	WG2353577
2-Methylnaphthalene	ND		0.00500	1	09/04/2024 17:13	WG2353577
Naphthalene	ND		0.00408	1	09/04/2024 17:13	WG2353577
Pyrene	ND		0.00500	1	09/04/2024 17:13	WG2353577
(S) p-Terphenyl-d14	86.1			23.0-120	09/04/2024 17:13	WG2353577
(S) Nitrobenzene-d5	73.5			14.0-149	09/04/2024 17:13	WG2353577
(S) 2-Fluorobiphenyl	95.1			34.0-125	09/04/2024 17:13	WG2353577

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.500	1	08/31/2024 22:54	WG2354401
(S) a,a,a-Trifluorotoluene(FID)	93.3			77.0-120	08/31/2024 22:54	WG2354401

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	09/02/2024 08:12	WG2354380
Toluene	ND		0.00500	1	09/02/2024 08:12	WG2354380
Ethylbenzene	ND		0.00500	1	09/02/2024 08:12	WG2354380
Xylenes, Total	ND		0.0100	1	09/02/2024 08:12	WG2354380
1,2,4-Trimethylbenzene	ND		0.00500	1	09/02/2024 08:12	WG2354380
1,3,5-Trimethylbenzene	ND		0.00500	1	09/02/2024 08:12	WG2354380
(S) Toluene-d8	105			75.0-131	09/02/2024 08:12	WG2354380
(S) 4-Bromofluorobenzene	101			67.0-138	09/02/2024 08:12	WG2354380
(S) 1,2-Dichloroethane-d4	82.7			70.0-130	09/02/2024 08:12	WG2354380

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	09/04/2024 07:31	WG2353566
C28-C36 Motor Oil Range	ND		50.0	1	09/04/2024 07:31	WG2353566
(S) o-Terphenyl	65.6			18.0-148	09/04/2024 07:31	WG2353566

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	09/04/2024 17:31	WG2353577
Anthracene	ND		0.00500	1	09/04/2024 17:31	WG2353577
Benzo(a)anthracene	ND		0.00500	1	09/04/2024 17:31	WG2353577
Benzo(b)fluoranthene	ND		0.00500	1	09/04/2024 17:31	WG2353577
Benzo(k)fluoranthene	ND		0.00500	1	09/04/2024 17:31	WG2353577
Benzo(a)pyrene	ND		0.00500	1	09/04/2024 17:31	WG2353577
Chrysene	ND		0.00500	1	09/04/2024 17:31	WG2353577
Dibenz(a,h)anthracene	ND		0.00500	1	09/04/2024 17:31	WG2353577
Fluoranthene	ND		0.00500	1	09/04/2024 17:31	WG2353577
Fluorene	ND		0.00500	1	09/04/2024 17:31	WG2353577
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	09/04/2024 17:31	WG2353577
1-Methylnaphthalene	ND		0.00500	1	09/04/2024 17:31	WG2353577
2-Methylnaphthalene	ND		0.00500	1	09/04/2024 17:31	WG2353577
Naphthalene	ND		0.00408	1	09/04/2024 17:31	WG2353577
Pyrene	ND		0.00500	1	09/04/2024 17:31	WG2353577
(S) p-Terphenyl-d14	87.9			23.0-120	09/04/2024 17:31	WG2353577
(S) Nitrobenzene-d5	70.3			14.0-149	09/04/2024 17:31	WG2353577
(S) 2-Fluorobiphenyl	94.4			34.0-125	09/04/2024 17:31	WG2353577

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.500	1	08/31/2024 23:13	WG2354401
(S) a,a,a-Trifluorotoluene(FID)	93.2			77.0-120	08/31/2024 23:13	WG2354401

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	09/02/2024 08:31	WG2354380
Toluene	ND		0.00500	1	09/02/2024 08:31	WG2354380
Ethylbenzene	ND		0.00500	1	09/02/2024 08:31	WG2354380
Xylenes, Total	ND		0.0100	1	09/02/2024 08:31	WG2354380
1,2,4-Trimethylbenzene	ND		0.00500	1	09/02/2024 08:31	WG2354380
1,3,5-Trimethylbenzene	ND		0.00500	1	09/02/2024 08:31	WG2354380
(S) Toluene-d8	103			75.0-131	09/02/2024 08:31	WG2354380
(S) 4-Bromofluorobenzene	102			67.0-138	09/02/2024 08:31	WG2354380
(S) 1,2-Dichloroethane-d4	83.7			70.0-130	09/02/2024 08:31	WG2354380

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	09/04/2024 07:44	WG2353566
C28-C36 Motor Oil Range	ND		50.0	1	09/04/2024 07:44	WG2353566
(S) o-Terphenyl	61.2			18.0-148	09/04/2024 07:44	WG2353566

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	09/04/2024 17:49	WG2353577
Anthracene	ND		0.00500	1	09/04/2024 17:49	WG2353577
Benzo(a)anthracene	ND		0.00500	1	09/04/2024 17:49	WG2353577
Benzo(b)fluoranthene	ND		0.00500	1	09/04/2024 17:49	WG2353577
Benzo(k)fluoranthene	ND		0.00500	1	09/04/2024 17:49	WG2353577
Benzo(a)pyrene	ND		0.00500	1	09/04/2024 17:49	WG2353577
Chrysene	ND		0.00500	1	09/04/2024 17:49	WG2353577
Dibenz(a,h)anthracene	ND		0.00500	1	09/04/2024 17:49	WG2353577
Fluoranthene	ND		0.00500	1	09/04/2024 17:49	WG2353577
Fluorene	ND		0.00500	1	09/04/2024 17:49	WG2353577
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	09/04/2024 17:49	WG2353577
1-Methylnaphthalene	ND		0.00500	1	09/04/2024 17:49	WG2353577
2-Methylnaphthalene	ND		0.00500	1	09/04/2024 17:49	WG2353577
Naphthalene	ND		0.00408	1	09/04/2024 17:49	WG2353577
Pyrene	ND		0.00500	1	09/04/2024 17:49	WG2353577
(S) p-Terphenyl-d14	91.6			23.0-120	09/04/2024 17:49	WG2353577
(S) Nitrobenzene-d5	78.7			14.0-149	09/04/2024 17:49	WG2353577
(S) 2-Fluorobiphenyl	97.4			34.0-125	09/04/2024 17:49	WG2353577

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.500	1	08/31/2024 23:32	WG2354401
(S) a,a,a-Trifluorotoluene(FID)	92.5			77.0-120	08/31/2024 23:32	WG2354401

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	09/02/2024 08:50	WG2354380
Toluene	ND		0.00500	1	09/02/2024 08:50	WG2354380
Ethylbenzene	ND		0.00500	1	09/02/2024 08:50	WG2354380
Xylenes, Total	ND		0.0100	1	09/02/2024 08:50	WG2354380
1,2,4-Trimethylbenzene	ND		0.00500	1	09/02/2024 08:50	WG2354380
1,3,5-Trimethylbenzene	ND		0.00500	1	09/02/2024 08:50	WG2354380
(S) Toluene-d8	103			75.0-131	09/02/2024 08:50	WG2354380
(S) 4-Bromofluorobenzene	100			67.0-138	09/02/2024 08:50	WG2354380
(S) 1,2-Dichloroethane-d4	82.4			70.0-130	09/02/2024 08:50	WG2354380

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	09/04/2024 07:57	WG2353566
C28-C36 Motor Oil Range	ND		50.0	1	09/04/2024 07:57	WG2353566
(S) o-Terphenyl	46.4			18.0-148	09/04/2024 07:57	WG2353566

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	09/04/2024 18:06	WG2353577
Anthracene	ND		0.00500	1	09/04/2024 18:06	WG2353577
Benzo(a)anthracene	ND		0.00500	1	09/04/2024 18:06	WG2353577
Benzo(b)fluoranthene	ND		0.00500	1	09/04/2024 18:06	WG2353577
Benzo(k)fluoranthene	ND		0.00500	1	09/04/2024 18:06	WG2353577
Benzo(a)pyrene	ND		0.00500	1	09/04/2024 18:06	WG2353577
Chrysene	ND		0.00500	1	09/04/2024 18:06	WG2353577
Dibenz(a,h)anthracene	ND		0.00500	1	09/04/2024 18:06	WG2353577
Fluoranthene	ND		0.00500	1	09/04/2024 18:06	WG2353577
Fluorene	ND		0.00500	1	09/04/2024 18:06	WG2353577
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	09/04/2024 18:06	WG2353577
1-Methylnaphthalene	ND		0.00500	1	09/04/2024 18:06	WG2353577
2-Methylnaphthalene	ND		0.00500	1	09/04/2024 18:06	WG2353577
Naphthalene	ND		0.00408	1	09/04/2024 18:06	WG2353577
Pyrene	ND		0.00500	1	09/04/2024 18:06	WG2353577
(S) p-Terphenyl-d14	71.3			23.0-120	09/04/2024 18:06	WG2353577
(S) Nitrobenzene-d5	63.6			14.0-149	09/04/2024 18:06	WG2353577
(S) 2-Fluorobiphenyl	77.8			34.0-125	09/04/2024 18:06	WG2353577

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.500	1	08/31/2024 23:52	WG2354401
(S) a,a,a-Trifluorotoluene(FID)	93.9			77.0-120	08/31/2024 23:52	WG2354401

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	09/02/2024 01:31	WG2353941
Toluene	ND		0.00500	1	09/02/2024 01:31	WG2353941
Ethylbenzene	ND		0.00500	1	09/02/2024 01:31	WG2353941
Xylenes, Total	ND		0.0100	1	09/02/2024 01:31	WG2353941
1,2,4-Trimethylbenzene	ND		0.00500	1	09/02/2024 01:31	WG2353941
1,3,5-Trimethylbenzene	ND		0.00500	1	09/02/2024 01:31	WG2353941
(S) Toluene-d8	113			75.0-131	09/02/2024 01:31	WG2353941
(S) 4-Bromofluorobenzene	94.0			67.0-138	09/02/2024 01:31	WG2353941
(S) 1,2-Dichloroethane-d4	85.7			70.0-130	09/02/2024 01:31	WG2353941

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	09/04/2024 08:10	WG2353566
C28-C36 Motor Oil Range	ND		50.0	1	09/04/2024 08:10	WG2353566
(S) o-Terphenyl	61.7			18.0-148	09/04/2024 08:10	WG2353566

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	09/04/2024 18:24	WG2353577
Anthracene	ND		0.00500	1	09/04/2024 18:24	WG2353577
Benzo(a)anthracene	ND		0.00500	1	09/04/2024 18:24	WG2353577
Benzo(b)fluoranthene	ND		0.00500	1	09/04/2024 18:24	WG2353577
Benzo(k)fluoranthene	ND		0.00500	1	09/04/2024 18:24	WG2353577
Benzo(a)pyrene	ND		0.00500	1	09/04/2024 18:24	WG2353577
Chrysene	ND		0.00500	1	09/04/2024 18:24	WG2353577
Dibenz(a,h)anthracene	ND		0.00500	1	09/04/2024 18:24	WG2353577
Fluoranthene	ND		0.00500	1	09/04/2024 18:24	WG2353577
Fluorene	ND		0.00500	1	09/04/2024 18:24	WG2353577
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	09/04/2024 18:24	WG2353577
1-Methylnaphthalene	ND		0.00500	1	09/04/2024 18:24	WG2353577
2-Methylnaphthalene	ND		0.00500	1	09/04/2024 18:24	WG2353577
Naphthalene	ND		0.00408	1	09/04/2024 18:24	WG2353577
Pyrene	ND		0.00500	1	09/04/2024 18:24	WG2353577
(S) p-Terphenyl-d14	87.9			23.0-120	09/04/2024 18:24	WG2353577
(S) Nitrobenzene-d5	74.7			14.0-149	09/04/2024 18:24	WG2353577
(S) 2-Fluorobiphenyl	94.4			34.0-125	09/04/2024 18:24	WG2353577

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.500	1	09/01/2024 00:11	WG2354401
(S) a,a,a-Trifluorotoluene(FID)	91.8			77.0-120	09/01/2024 00:11	WG2354401

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	09/02/2024 01:49	WG2353941
Toluene	ND		0.00500	1	09/02/2024 01:49	WG2353941
Ethylbenzene	ND		0.00500	1	09/02/2024 01:49	WG2353941
Xylenes, Total	ND		0.0100	1	09/02/2024 01:49	WG2353941
1,2,4-Trimethylbenzene	ND		0.00500	1	09/02/2024 01:49	WG2353941
1,3,5-Trimethylbenzene	ND		0.00500	1	09/02/2024 01:49	WG2353941
(S) Toluene-d8	112			75.0-131	09/02/2024 01:49	WG2353941
(S) 4-Bromofluorobenzene	95.6			67.0-138	09/02/2024 01:49	WG2353941
(S) 1,2-Dichloroethane-d4	85.2			70.0-130	09/02/2024 01:49	WG2353941

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	09/04/2024 08:23	WG2353566
C28-C36 Motor Oil Range	ND		50.0	1	09/04/2024 08:23	WG2353566
(S) o-Terphenyl	54.8			18.0-148	09/04/2024 08:23	WG2353566

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	09/04/2024 18:42	WG2353577
Anthracene	ND		0.00500	1	09/04/2024 18:42	WG2353577
Benzo(a)anthracene	ND		0.00500	1	09/04/2024 18:42	WG2353577
Benzo(b)fluoranthene	ND		0.00500	1	09/04/2024 18:42	WG2353577
Benzo(k)fluoranthene	ND		0.00500	1	09/04/2024 18:42	WG2353577
Benzo(a)pyrene	ND		0.00500	1	09/04/2024 18:42	WG2353577
Chrysene	ND		0.00500	1	09/04/2024 18:42	WG2353577
Dibenz(a,h)anthracene	ND		0.00500	1	09/04/2024 18:42	WG2353577
Fluoranthene	ND		0.00500	1	09/04/2024 18:42	WG2353577
Fluorene	ND		0.00500	1	09/04/2024 18:42	WG2353577
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	09/04/2024 18:42	WG2353577
1-Methylnaphthalene	ND		0.00500	1	09/04/2024 18:42	WG2353577
2-Methylnaphthalene	ND		0.00500	1	09/04/2024 18:42	WG2353577
Naphthalene	ND		0.00408	1	09/04/2024 18:42	WG2353577
Pyrene	ND		0.00500	1	09/04/2024 18:42	WG2353577
(S) p-Terphenyl-d14	88.4			23.0-120	09/04/2024 18:42	WG2353577
(S) Nitrobenzene-d5	76.4			14.0-149	09/04/2024 18:42	WG2353577
(S) 2-Fluorobiphenyl	92.0			34.0-125	09/04/2024 18:42	WG2353577

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.500	1	09/01/2024 00:30	WG2354401
(S) a,a,a-Trifluorotoluene(FID)	90.5			77.0-120	09/01/2024 00:30	WG2354401

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	09/02/2024 02:08	WG2353941
Toluene	ND		0.00500	1	09/02/2024 02:08	WG2353941
Ethylbenzene	ND		0.00500	1	09/02/2024 02:08	WG2353941
Xylenes, Total	ND		0.0100	1	09/02/2024 02:08	WG2353941
1,2,4-Trimethylbenzene	ND		0.00500	1	09/02/2024 02:08	WG2353941
1,3,5-Trimethylbenzene	ND		0.00500	1	09/02/2024 02:08	WG2353941
(S) Toluene-d8	111			75.0-131	09/02/2024 02:08	WG2353941
(S) 4-Bromofluorobenzene	94.6			67.0-138	09/02/2024 02:08	WG2353941
(S) 1,2-Dichloroethane-d4	84.6			70.0-130	09/02/2024 02:08	WG2353941

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	09/04/2024 08:36	WG2353566
C28-C36 Motor Oil Range	ND		50.0	1	09/04/2024 08:36	WG2353566
(S) o-Terphenyl	53.8			18.0-148	09/04/2024 08:36	WG2353566

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	09/04/2024 18:59	WG2353577
Anthracene	ND		0.00500	1	09/04/2024 18:59	WG2353577
Benzo(a)anthracene	ND		0.00500	1	09/04/2024 18:59	WG2353577
Benzo(b)fluoranthene	ND		0.00500	1	09/04/2024 18:59	WG2353577
Benzo(k)fluoranthene	ND		0.00500	1	09/04/2024 18:59	WG2353577
Benzo(a)pyrene	ND		0.00500	1	09/04/2024 18:59	WG2353577
Chrysene	ND		0.00500	1	09/04/2024 18:59	WG2353577
Dibenz(a,h)anthracene	ND		0.00500	1	09/04/2024 18:59	WG2353577
Fluoranthene	ND		0.00500	1	09/04/2024 18:59	WG2353577
Fluorene	ND		0.00500	1	09/04/2024 18:59	WG2353577
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	09/04/2024 18:59	WG2353577
1-Methylnaphthalene	ND		0.00500	1	09/04/2024 18:59	WG2353577
2-Methylnaphthalene	ND		0.00500	1	09/04/2024 18:59	WG2353577
Naphthalene	ND		0.00408	1	09/04/2024 18:59	WG2353577
Pyrene	ND		0.00500	1	09/04/2024 18:59	WG2353577
(S) p-Terphenyl-d14	88.4			23.0-120	09/04/2024 18:59	WG2353577
(S) Nitrobenzene-d5	72.7			14.0-149	09/04/2024 18:59	WG2353577
(S) 2-Fluorobiphenyl	91.9			34.0-125	09/04/2024 18:59	WG2353577

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.500	1	09/01/2024 00:49	WG2354401
(S) a,a,a-Trifluorotoluene(FID)	93.3			77.0-120	09/01/2024 00:49	WG2354401

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Benzene	ND		0.00200	1	09/02/2024 02:26	WG2353941
Toluene	ND		0.00500	1	09/02/2024 02:26	WG2353941
Ethylbenzene	ND		0.00500	1	09/02/2024 02:26	WG2353941
Xylenes, Total	ND		0.0100	1	09/02/2024 02:26	WG2353941
1,2,4-Trimethylbenzene	ND		0.00500	1	09/02/2024 02:26	WG2353941
1,3,5-Trimethylbenzene	ND		0.00500	1	09/02/2024 02:26	WG2353941
(S) Toluene-d8	113			75.0-131	09/02/2024 02:26	WG2353941
(S) 4-Bromofluorobenzene	95.1			67.0-138	09/02/2024 02:26	WG2353941
(S) 1,2-Dichloroethane-d4	91.8			70.0-130	09/02/2024 02:26	WG2353941

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		50.0	1	09/04/2024 08:49	WG2353566
C28-C36 Motor Oil Range	ND		50.0	1	09/04/2024 08:49	WG2353566
(S) o-Terphenyl	57.0			18.0-148	09/04/2024 08:49	WG2353566

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

Analyte	Result mg/kg	Qualifier	RL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.00500	1	09/04/2024 19:17	WG2353577
Anthracene	ND		0.00500	1	09/04/2024 19:17	WG2353577
Benzo(a)anthracene	ND		0.00500	1	09/04/2024 19:17	WG2353577
Benzo(b)fluoranthene	ND		0.00500	1	09/04/2024 19:17	WG2353577
Benzo(k)fluoranthene	ND		0.00500	1	09/04/2024 19:17	WG2353577
Benzo(a)pyrene	ND		0.00500	1	09/04/2024 19:17	WG2353577
Chrysene	ND		0.00500	1	09/04/2024 19:17	WG2353577
Dibenz(a,h)anthracene	ND		0.00500	1	09/04/2024 19:17	WG2353577
Fluoranthene	ND		0.00500	1	09/04/2024 19:17	WG2353577
Fluorene	ND		0.00500	1	09/04/2024 19:17	WG2353577
Indeno(1,2,3-cd)pyrene	ND		0.00500	1	09/04/2024 19:17	WG2353577
1-Methylnaphthalene	ND		0.00500	1	09/04/2024 19:17	WG2353577
2-Methylnaphthalene	ND		0.00500	1	09/04/2024 19:17	WG2353577
Naphthalene	ND		0.00408	1	09/04/2024 19:17	WG2353577
Pyrene	ND		0.00500	1	09/04/2024 19:17	WG2353577
(S) p-Terphenyl-d14	87.8			23.0-120	09/04/2024 19:17	WG2353577
(S) Nitrobenzene-d5	71.4			14.0-149	09/04/2024 19:17	WG2353577
(S) 2-Fluorobiphenyl	93.6			34.0-125	09/04/2024 19:17	WG2353577

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4114824-2 08/31/24 02:00

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0254	⬇	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	99.5			77.0-120

Laboratory Control Sample (LCS)

(LCS) R4114824-1 08/31/24 00:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.00	5.22	104	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			109	77.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4114752-3 08/31/24 18:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0252	⬇	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	94.8			77.0-120

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

(LCS) R4114752-1 08/31/24 17:46 • (LCSD) R4114752-2 08/31/24 18:06

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 %
TPH (GC/FID) Low Fraction	5.00	5.69	5.56	114	111	72.0-127			2.31	20
(S) a,a,a-Trifluorotoluene(FID)				106	105	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) R4114607-3 09/01/24 20:18

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	ND		0.000467	0.00100
Toluene	ND		0.00130	0.00500
Ethylbenzene	ND		0.000737	0.00250
Xylenes, Total	ND		0.000880	0.00650
1,2,4-Trimethylbenzene	ND		0.00158	0.00500
1,3,5-Trimethylbenzene	ND		0.00200	0.00500
(S) Toluene-d8	111			75.0-131
(S) 4-Bromofluorobenzene	93.3			67.0-138
(S) 1,2-Dichloroethane-d4	90.4			70.0-130

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

(LCS) R4114607-1 09/01/24 18:45 • (LCSD) R4114607-2 09/01/24 19:03

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 %
Benzene	0.125	0.108	0.106	86.4	84.8	70.0-123			1.87	20
Toluene	0.125	0.123	0.119	98.4	95.2	75.0-121			3.31	20
Ethylbenzene	0.125	0.115	0.119	92.0	95.2	74.0-126			3.42	20
Xylenes, Total	0.375	0.346	0.359	92.3	95.7	72.0-127			3.69	20
1,2,4-Trimethylbenzene	0.125	0.0981	0.104	78.5	83.2	70.0-126			5.84	20
1,3,5-Trimethylbenzene	0.125	0.104	0.111	83.2	88.8	73.0-127			6.51	20
(S) Toluene-d8				111	109	75.0-131				
(S) 4-Bromofluorobenzene				98.5	101	67.0-138				
(S) 1,2-Dichloroethane-d4				101	102	70.0-130				

L1771283-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1771283-20 09/02/24 02:08 • (MS) R4114607-4 09/02/24 04:37 • (MSD) R4114607-5 09/02/24 04:55

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 %
Benzene	0.125	ND	0.111	0.108	88.8	86.4	1	10.0-149			2.74	37
Toluene	0.125	ND	0.128	0.129	102	103	1	10.0-156			0.778	38
Ethylbenzene	0.125	ND	0.126	0.125	101	100	1	10.0-160			0.797	38
Xylenes, Total	0.375	ND	0.367	0.375	97.9	100	1	10.0-160			2.16	38
1,2,4-Trimethylbenzene	0.125	ND	0.112	0.111	89.6	88.8	1	10.0-160			0.897	36
1,3,5-Trimethylbenzene	0.125	ND	0.118	0.117	94.4	93.6	1	10.0-160			0.851	38
(S) Toluene-d8					110	112		75.0-131				
(S) 4-Bromofluorobenzene					100	101		67.0-138				
(S) 1,2-Dichloroethane-d4					88.0	82.2		70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4115172-3 09/01/24 22:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	ND		0.000467	0.00100
Toluene	ND		0.00130	0.00500
Ethylbenzene	ND		0.000737	0.00250
Xylenes, Total	ND		0.000880	0.00650
1,2,4-Trimethylbenzene	ND		0.00158	0.00500
1,3,5-Trimethylbenzene	ND		0.00200	0.00500
(S) Toluene-d8	93.6			75.0-131
(S) 4-Bromofluorobenzene	92.7			67.0-138
(S) 1,2-Dichloroethane-d4	80.6			70.0-130

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

(LCS) R4115172-1 09/01/24 21:03 • (LCSD) R4115172-2 09/01/24 21:25

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 %
Benzene	0.125	0.141	0.139	113	111	70.0-123			1.43	20
Toluene	0.125	0.119	0.120	95.2	96.0	75.0-121			0.837	20
Ethylbenzene	0.125	0.127	0.125	102	100	74.0-126			1.59	20
Xylenes, Total	0.375	0.379	0.351	101	93.6	72.0-127			7.67	20
1,2,4-Trimethylbenzene	0.125	0.119	0.113	95.2	90.4	70.0-126			5.17	20
1,3,5-Trimethylbenzene	0.125	0.116	0.113	92.8	90.4	73.0-127			2.62	20
(S) Toluene-d8				91.0	93.4	75.0-131				
(S) 4-Bromofluorobenzene				98.7	96.8	67.0-138				
(S) 1,2-Dichloroethane-d4				87.9	87.5	70.0-130				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4114929-3 09/02/24 05:59

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	ND		0.000467	0.00100
Toluene	ND		0.00130	0.00500
Ethylbenzene	ND		0.000737	0.00250
Xylenes, Total	ND		0.000880	0.00650
1,2,4-Trimethylbenzene	ND		0.00158	0.00500
1,3,5-Trimethylbenzene	ND		0.00200	0.00500
(S) Toluene-d8	104			75.0-131
(S) 4-Bromofluorobenzene	104			67.0-138
(S) 1,2-Dichloroethane-d4	84.4			70.0-130

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

(LCS) R4114929-1 09/02/24 04:24 • (LCSD) R4114929-2 09/02/24 04:43

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 %
Benzene	0.125	0.108	0.111	86.4	88.8	70.0-123			2.74	20
Toluene	0.125	0.120	0.121	96.0	96.8	75.0-121			0.830	20
Ethylbenzene	0.125	0.131	0.134	105	107	74.0-126			2.26	20
Xylenes, Total	0.375	0.396	0.404	106	108	72.0-127			2.00	20
1,2,4-Trimethylbenzene	0.125	0.106	0.106	84.8	84.8	70.0-126			0.000	20
1,3,5-Trimethylbenzene	0.125	0.106	0.108	84.8	86.4	73.0-127			1.87	20
(S) Toluene-d8				103	103	75.0-131				
(S) 4-Bromofluorobenzene				104	101	67.0-138				
(S) 1,2-Dichloroethane-d4				84.7	88.1	70.0-130				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4115833-1 09/04/24 16:22

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	ND		1.61	4.00
C28-C36 Motor Oil Range	ND		0.274	4.00
(S) o-Terphenyl	80.9			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4115833-2 09/04/24 16:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	31.4	62.8	50.0-150	
(S) o-Terphenyl			69.5	18.0-148	

L1771283-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1771283-05 09/04/24 20:04 • (MS) R4115833-3 09/04/24 20:17 • (MSD) R4115833-4 09/04/24 20:30

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 %
C10-C28 Diesel Range	49.2	ND	ND	ND	72.4	70.6	1	50.0-150			3.14	20
(S) o-Terphenyl					71.0	74.5		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4115263-1 09/04/24 05:47

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	ND		1.61	4.00
C28-C36 Motor Oil Range	ND		0.274	4.00
(S) o-Terphenyl	82.7			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4115263-2 09/04/24 06:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	41.1	82.2	50.0-150	
(S) o-Terphenyl			80.3	18.0-148	

L1771285-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1771285-01 09/04/24 09:54 • (MS) R4115263-3 09/04/24 10:07 • (MSD) R4115263-4 09/04/24 10:20

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 %
C10-C28 Diesel Range	48.5	ND	ND	ND	42.9	56.6	1	50.0-150	J6	J3	25.2	20
(S) o-Terphenyl					41.8	49.2		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4115975-2 09/04/24 12:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	ND		0.00209	0.00600
Anthracene	ND		0.00230	0.00600
Benzo(a)anthracene	ND		0.00173	0.00600
Benzo(b)fluoranthene	ND		0.00153	0.00600
Benzo(k)fluoranthene	ND		0.00215	0.00600
Benzo(a)pyrene	ND		0.00179	0.00600
Chrysene	ND		0.00232	0.00600
Dibenz(a,h)anthracene	ND		0.00172	0.00600
Fluoranthene	ND		0.00227	0.00600
Fluorene	ND		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	ND		0.00181	0.00600
1-Methylnaphthalene	ND		0.00449	0.0200
2-Methylnaphthalene	ND		0.00427	0.0200
Naphthalene	ND		0.00408	0.0200
Pyrene	ND		0.00200	0.00600
(S) p-Terphenyl-d14	103			23.0-120
(S) Nitrobenzene-d5	89.2			14.0-149
(S) 2-Fluorobiphenyl	101			34.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4115975-1 09/04/24 12:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.0800	0.0698	87.3	50.0-120	
Anthracene	0.0800	0.0722	90.3	50.0-126	
Benzo(a)anthracene	0.0800	0.0733	91.6	45.0-120	
Benzo(b)fluoranthene	0.0800	0.0777	97.1	42.0-121	
Benzo(k)fluoranthene	0.0800	0.0772	96.5	49.0-125	
Benzo(a)pyrene	0.0800	0.0721	90.1	42.0-120	
Chrysene	0.0800	0.0803	100	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0869	109	47.0-125	
Fluoranthene	0.0800	0.0780	97.5	49.0-129	
Fluorene	0.0800	0.0783	97.9	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0792	99.0	46.0-125	
1-Methylnaphthalene	0.0800	0.0744	93.0	51.0-121	
2-Methylnaphthalene	0.0800	0.0721	90.1	50.0-120	
Naphthalene	0.0800	0.0706	88.3	50.0-120	
Pyrene	0.0800	0.0764	95.5	43.0-123	

Laboratory Control Sample (LCS)

(LCS) R4115975-1 09/04/24 12:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) p-Terphenyl-d14			105	23.0-120	
(S) Nitrobenzene-d5			96.0	14.0-149	
(S) 2-Fluorobiphenyl			103	34.0-125	

L1771281-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1771281-02 09/04/24 13:58 • (MS) R4115975-3 09/04/24 14:16 • (MSD) R4115975-4 09/04/24 14:34

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 %
Acenaphthene	0.0796	ND	0.0666	0.0640	83.7	81.2	1	14.0-127			3.98	27
Anthracene	0.0796	ND	0.0663	0.0644	83.3	81.7	1	10.0-145			2.91	30
Benzo(a)anthracene	0.0796	ND	0.0676	0.0657	84.9	83.4	1	10.0-139			2.85	30
Benzo(b)fluoranthene	0.0796	ND	0.0730	0.0713	91.7	90.5	1	10.0-140			2.36	36
Benzo(k)fluoranthene	0.0796	ND	0.0710	0.0699	89.2	88.7	1	10.0-137			1.56	31
Benzo(a)pyrene	0.0796	ND	0.0683	0.0668	85.8	84.8	1	10.0-141			2.22	31
Chrysene	0.0796	ND	0.0753	0.0734	94.6	93.1	1	10.0-145			2.56	30
Dibenz(a,h)anthracene	0.0796	ND	0.0801	0.0782	101	99.2	1	10.0-132			2.40	31
Fluoranthene	0.0796	ND	0.0727	0.0709	91.3	90.0	1	10.0-153			2.51	33
Fluorene	0.0796	ND	0.0745	0.0722	93.6	91.6	1	11.0-130			3.14	29
Indeno(1,2,3-cd)pyrene	0.0796	ND	0.0724	0.0702	91.0	89.1	1	10.0-137			3.09	32
1-Methylnaphthalene	0.0796	ND	0.0703	0.0680	88.3	86.3	1	10.0-142			3.33	28
2-Methylnaphthalene	0.0796	ND	0.0674	0.0656	84.7	83.2	1	10.0-137			2.71	28
Naphthalene	0.0796	ND	0.0663	0.0647	83.3	82.1	1	10.0-135			2.44	27
Pyrene	0.0796	ND	0.0719	0.0700	90.3	88.8	1	10.0-148			2.68	35
(S) p-Terphenyl-d14					97.8	94.4		23.0-120				
(S) Nitrobenzene-d5					88.3	83.4		14.0-149				
(S) 2-Fluorobiphenyl					95.1	92.6		34.0-125				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4115646-2 09/04/24 10:14

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	ND		0.00209	0.00600
Anthracene	ND		0.00230	0.00600
Benzo(a)anthracene	ND		0.00173	0.00600
Benzo(b)fluoranthene	ND		0.00153	0.00600
Benzo(k)fluoranthene	ND		0.00215	0.00600
Benzo(a)pyrene	ND		0.00179	0.00600
Chrysene	ND		0.00232	0.00600
Dibenz(a,h)anthracene	ND		0.00172	0.00600
Fluoranthene	ND		0.00227	0.00600
Fluorene	ND		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	ND		0.00181	0.00600
1-Methylnaphthalene	ND		0.00449	0.0200
2-Methylnaphthalene	ND		0.00427	0.0200
Naphthalene	ND		0.00408	0.0200
Pyrene	ND		0.00200	0.00600
(S) p-Terphenyl-d14	90.6			23.0-120
(S) Nitrobenzene-d5	89.3			14.0-149
(S) 2-Fluorobiphenyl	95.3			34.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4115646-1 09/04/24 09:56

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.0800	0.0660	82.5	50.0-120	
Anthracene	0.0800	0.0674	84.3	50.0-126	
Benzo(a)anthracene	0.0800	0.0644	80.5	45.0-120	
Benzo(b)fluoranthene	0.0800	0.0693	86.6	42.0-121	
Benzo(k)fluoranthene	0.0800	0.0694	86.8	49.0-125	
Benzo(a)pyrene	0.0800	0.0571	71.4	42.0-120	
Chrysene	0.0800	0.0746	93.3	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0731	91.4	47.0-125	
Fluoranthene	0.0800	0.0782	97.8	49.0-129	
Fluorene	0.0800	0.0753	94.1	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0684	85.5	46.0-125	
1-Methylnaphthalene	0.0800	0.0678	84.8	51.0-121	
2-Methylnaphthalene	0.0800	0.0664	83.0	50.0-120	
Naphthalene	0.0800	0.0658	82.3	50.0-120	
Pyrene	0.0800	0.0636	79.5	43.0-123	

Laboratory Control Sample (LCS)

(LCS) R4115646-1 09/04/24 09:56

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
(S) p-Terphenyl-d14			91.1	23.0-120	
(S) Nitrobenzene-d5			100	14.0-149	
(S) 2-Fluorobiphenyl			104	34.0-125	

L1771283-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1771283-10 09/04/24 15:26 • (MS) R4115646-3 09/04/24 15:44 • (MSD) R4115646-4 09/04/24 16:02

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Acenaphthene	0.0772	ND	0.0600	0.0558	77.7	72.3	1	14.0-127			7.25	27
Anthracene	0.0772	ND	0.0590	0.0579	76.4	75.0	1	10.0-145			1.88	30
Benzo(a)anthracene	0.0772	ND	0.0573	0.0529	74.2	68.5	1	10.0-139			7.99	30
Benzo(b)fluoranthene	0.0772	ND	0.0650	0.0604	84.2	78.2	1	10.0-140			7.34	36
Benzo(k)fluoranthene	0.0772	ND	0.0645	0.0594	83.5	76.9	1	10.0-137			8.23	31
Benzo(a)pyrene	0.0772	ND	0.0604	0.0558	78.2	72.3	1	10.0-141			7.92	31
Chrysene	0.0772	ND	0.0701	0.0661	90.8	85.6	1	10.0-145			5.87	30
Dibenz(a,h)anthracene	0.0772	ND	0.0685	0.0635	88.7	82.3	1	10.0-132			7.58	31
Fluoranthene	0.0772	ND	0.0695	0.0668	90.0	86.5	1	10.0-153			3.96	33
Fluorene	0.0772	ND	0.0679	0.0642	88.0	83.2	1	11.0-130			5.60	29
Indeno(1,2,3-cd)pyrene	0.0772	ND	0.0615	0.0562	79.7	72.8	1	10.0-137			9.01	32
1-Methylnaphthalene	0.0772	ND	0.0622	0.0591	80.6	76.6	1	10.0-142			5.11	28
2-Methylnaphthalene	0.0772	ND	0.0578	0.0543	74.9	70.3	1	10.0-137			6.24	28
Naphthalene	0.0772	ND	0.0589	0.0555	76.3	71.9	1	10.0-135			5.94	27
Pyrene	0.0772	ND	0.0602	0.0570	78.0	73.8	1	10.0-148			5.46	35
(S) p-Terphenyl-d14					88.7	84.2		23.0-120				
(S) Nitrobenzene-d5					78.4	76.1		14.0-149				
(S) 2-Fluorobiphenyl					98.1	94.2		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

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

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122


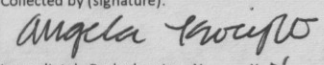
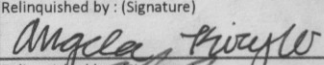
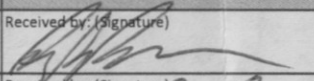
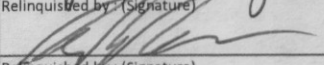
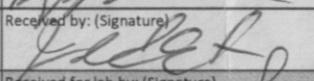
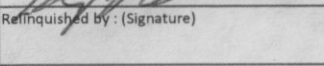
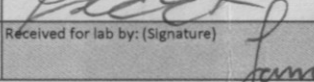
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Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina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

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

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

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



Company Name/Address: Civitas/Tasman - CO 6855 W. 118th Ave Broomfield, CO 80020			Billing Information: Accounts Payable 650 Southgate Dr. Windsor, CO 80550			Pres Chk		Analysis / Container / Preservative										Chain of Custody Page <u>1</u> of <u>3</u>  MT JULIET, TN <small>12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: http://info.pacelabs.com/hubs/pas-standard-terms.pdf</small>	
Project Manager: Sam Vogt / Jacob Evans			Email: svogt@tasman-geo.com; jevans@civitasresources.com					<div style="display: flex; justify-content: space-around; font-weight: bold;"> Full TABLE915 8ozClr-NoPres Background TABLE915 8ozClr-NoPres V8260 (GW TABLE915) 40mL Amb-HCl Chloride, Sulfate 125mL HDPE-NoPres TDS 1L-HDPE-NoPres TPH, TMB, PAH, BTEXN </div>										SDG # L1771283 J177	
Project Name: State Seventy Holes PH			Please Circle: PT <u>(M)</u> CT ET																
Phone: 610-405-9078		Lab Project #: AFE# or C/C: CO045027		Billing Code #: 8520.162															
Collected by (print): Angela Kirylo		Site/Facility ID #: Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day		Quote # STD TAT															
Collected by (signature): 		Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>		Date Results Needed STD TAT		# of Containers												Template: T250702 Prelogin: P1068185 PM: 824 - Chris Ward PB: Shipped Via: FedEX Ground	
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	# of Containers											Remarks	Sample # (lab only)
DL-N01G15'		Grab	SS	15'	8/23/24	1314	1												-01
DL-N02G15'						1316													-02
DL-N03G15'						1318													-03
DL-N04G15'						1320													-04
DL-N05G15'						1322													-05
DL-N06G15'						1324													-06
DL-S01G15'						1326													-07
DL-S02G15'						1328													-08
DL-S03G15'						1330													-09
DL-S04G15'		✓	✓	✓	✓	1332	✓												-10
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: pH, EC, SAR by saturated paste preparation method Boron by hot water soluble preparation method Table 915-1 Metals - As, Ba, Cd, Cu, Pb, Ni, Se, Ag, Zn, Cr VI										pH _____ Temp _____ Flow _____ Other _____		Sample Receipt Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> NP <input type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> N If Applicable VOA Zero Headspace: <input checked="" type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> N					
Relinquished by: (Signature) 		Date: 8/23/24	Time: 1700	Received by: (Signature) 		Trip Blank Received: Yes / No <input checked="" type="checkbox"/> No HCL / MeOH TBR		Temp: _____ °C Bottles Received: 21										If preservation required by Login: Date/Time	
Relinquished by: (Signature) 		Date: 8/23/24	Time: 1900	Received by: (Signature) 		Temp: _____ °C Bottles Received: 21		If preservation required by Login: Date/Time										Hold: _____ Condition: (NCF / OK)	
Relinquished by: (Signature) 		Date: 8-24-24	Time: 0900	Received for lab by: (Signature) 		Temp: _____ °C Bottles Received: 21		If preservation required by Login: Date/Time										Hold: _____ Condition: (NCF / OK)	

Company Name/Address: Civitas/Tasman - CO 6855 W. 118th Ave Broomfield, CO 80020				Billing Information: Accounts Payable 650 Southgate Dr. Windsor, CO 80550				Pres Chk		Analysis / Container / Preservative						Chain of Custody Page 2 of 3			
Project Manager: Sam Vogt / Jacob Evans				Email: svogt@tasman-geo.com; jevans@civitasresources.com						<div style="text-align: center;"> PEOPLE ADVANCING SCIENCE MT JULIET, TN <small>12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/standard-terms.pdf</small> </div>									
Project Name: State Seventy Holes PH				Please Circle: PT <input checked="" type="radio"/> M CT ET															
Phone: 610-405-9078		Lab Project #:		AFE# or C/C: CO045027															
Collected by (print): Angela Kinylo		Site/Facility ID #:		Billing Code #: 8520.162															
Collected by (signature): 		Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day		Quote # STD TAT		# of Containers		<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> Full TABLE915 8ozClr-NoPres Background TABLE915 8ozClr-NoPres V8260 (GW TABLE915) 40mL Amb-HCl Chloride, Sulfate 125mL HDPE-NoPres TDS 1L-HDPE-NoPres TPH.TMB.PAH.BTEXN </div>											
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>																			
Sample ID		Comp/Grab		Matrix *		Depth								Date		Time			
DL-S05G15'		Grab		SS		15'		8/23/24		1334		1		<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> X </div>					
DL-S06G15'										1336									
DL-S07G15'										1338									
DL-E01G15'										1340									
DL-E02G15'										1342									
DL-E03G15'										1344									
DL-E04G15'										1346									
DL-E05G15'										1348									
DL-W01G15'										1350									
DL-W02G15'										1352									
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: pH, EC, SAR by saturated paste preparation method Boron by hot water soluble preparation method Table 915-1 Metals - As, Ba, Cd, Cu, Pb, Ni, Se, Ag, Zn, Cr VI										pH _____ Temp _____ Flow _____ Other _____		Sample Receipt Checklist COC Seal Present/Intact: <input checked="" type="checkbox"/> N COC Signed/Accurate: <input checked="" type="checkbox"/> N Bottles arrive intact: <input checked="" type="checkbox"/> N Correct bottles used: <input checked="" type="checkbox"/> N Sufficient volume sent: <input checked="" type="checkbox"/> N If Applicable VOA Zero Headspace: <input type="checkbox"/> N Preservation Correct/Checked: <input checked="" type="checkbox"/> N RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> N					
Samples returned via: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier		Tracking #												Trip Blank Received: Yes / No HCL / MeOH TBR					
Relinquished by: (Signature) 		Date: 8/23/24		Time: 1700		Received by: (Signature) 		Temp: _____ °C		Bottles Received:		If preservation required by Login: Date/Time							
Relinquished by: (Signature) 		Date: 8/23/24		Time: 1800		Received by: (Signature) 		Temp: _____ °C		Bottles Received:		If preservation required by Login: Date/Time							
Relinquished by: (Signature) 		Date: 8-24-24		Time: 0900		Received for lab by: (Signature) 		Date: 8-24-24		Time: 0900		Hold:		Condition: NCF / <input checked="" type="radio"/> OK					

[illegible]

4771283

[illegible]

Date _____