

January 18, 2019

EnCore Consulting, LLC.

Sample Delivery Group: L1060433
Samples Received: 01/11/2019
Project Number: EPNG
Description: Kindermorgan EPNG
Site: EPNG
Report To: Lynn Niewiadomski
605 West Knox
Suite 110
Tempe, AZ 85284

Entire Report Reviewed By:



Daphne Richards
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



S-8 L1060433-01 Solid

Collected by
K. Reed

Collected date/time
01/10/19 09:32

Received date/time
01/11/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1223610	1	01/15/19 13:22	01/15/19 13:31	KDW
Wet Chemistry by Method 300.0	WG1222712	1	01/14/19 10:38	01/15/19 13:30	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1223434	1	01/12/19 23:08	01/15/19 15:41	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1224819	1	01/12/19 23:08	01/17/19 15:00	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1223272	50	01/16/19 10:25	01/17/19 00:27	KME

¹ Cp

² Tc

³ Ss

⁴ Cn

S-6 L1060433-02 Solid

Collected by
K. Reed

Collected date/time
01/10/19 09:37

Received date/time
01/11/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1223610	1	01/15/19 13:22	01/15/19 13:31	KDW
Wet Chemistry by Method 300.0	WG1222712	1	01/14/19 10:38	01/15/19 13:39	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1223434	1	01/12/19 23:08	01/15/19 16:03	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1224819	1	01/12/19 23:08	01/17/19 15:19	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1223272	5	01/16/19 10:25	01/16/19 19:07	KME

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

S-3 L1060433-03 Solid

Collected by
K. Reed

Collected date/time
01/10/19 09:48

Received date/time
01/11/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1223610	1	01/15/19 13:22	01/15/19 13:31	KDW
Wet Chemistry by Method 300.0	WG1222712	1	01/14/19 10:38	01/15/19 13:48	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1223434	1	01/12/19 23:08	01/15/19 16:24	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1224819	1	01/12/19 23:08	01/17/19 15:38	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1223272	1	01/16/19 10:25	01/16/19 18:54	KME

⁹ Sc

S-7 L1060433-04 Solid

Collected by
K. Reed

Collected date/time
01/10/19 09:55

Received date/time
01/11/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1223610	1	01/15/19 13:22	01/15/19 13:31	KDW
Wet Chemistry by Method 300.0	WG1222712	1	01/14/19 10:38	01/15/19 13:56	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1223434	1	01/12/19 23:08	01/15/19 16:46	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1224819	1	01/12/19 23:08	01/17/19 15:57	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1223272	5	01/16/19 10:25	01/16/19 19:23	KME

S-4 L1060433-05 Solid

Collected by
K. Reed

Collected date/time
01/10/19 10:00

Received date/time
01/11/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1223612	1	01/15/19 13:04	01/15/19 13:14	KDW
Wet Chemistry by Method 300.0	WG1222712	1	01/14/19 10:38	01/15/19 14:05	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1223434	1	01/12/19 23:08	01/15/19 17:08	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1224819	1	01/12/19 23:08	01/17/19 16:15	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1223272	40	01/16/19 10:25	01/17/19 11:14	KME

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



S-12 L1060433-06 Solid

Collected by
K. Reed

Collected date/time
01/10/19 10:11

Received date/time
01/11/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1223612	1	01/15/19 13:04	01/15/19 13:14	KDW
Wet Chemistry by Method 300.0	WG1222712	1	01/14/19 10:38	01/15/19 14:14	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1223434	1	01/12/19 23:08	01/15/19 17:31	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1224819	1	01/12/19 23:08	01/17/19 16:34	DWR
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1223272	5	01/16/19 10:25	01/16/19 19:38	KME

¹ Cp

² Tc

³ Ss

⁴ Cn

S-13 L1060433-07 Solid

Collected by
K. Reed

Collected date/time
01/10/19 10:14

Received date/time
01/11/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1223612	1	01/15/19 13:04	01/15/19 13:14	KDW
Wet Chemistry by Method 300.0	WG1222712	1	01/14/19 10:38	01/15/19 14:40	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1223434	1	01/12/19 23:08	01/15/19 17:55	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1224819	1	01/12/19 23:08	01/17/19 16:53	BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1223272	10	01/16/19 10:25	01/17/19 02:38	KME

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

S-14 L1060433-08 Solid

Collected by
K. Reed

Collected date/time
01/10/19 10:18

Received date/time
01/11/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1223612	1	01/15/19 13:04	01/15/19 13:14	KDW
Wet Chemistry by Method 300.0	WG1222712	1	01/14/19 10:38	01/15/19 14:49	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1223434	1	01/12/19 23:08	01/15/19 18:16	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1224819	1	01/12/19 23:08	01/17/19 17:12	BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1223272	1	01/16/19 10:25	01/16/19 17:09	KME

⁹ Sc

S-15 L1060433-09 Solid

Collected by
K. Reed

Collected date/time
01/10/19 10:22

Received date/time
01/11/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1223612	1	01/15/19 13:04	01/15/19 13:14	KDW
Wet Chemistry by Method 300.0	WG1222712	1	01/14/19 10:38	01/15/19 15:15	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1223434	1	01/12/19 23:08	01/15/19 18:40	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1224819	1	01/12/19 23:08	01/17/19 17:31	BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1223272	10	01/16/19 10:25	01/17/19 02:54	KME

S-16 L1060433-10 Solid

Collected by
K. Reed

Collected date/time
01/10/19 10:26

Received date/time
01/11/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1223612	1	01/15/19 13:04	01/15/19 13:14	KDW
Wet Chemistry by Method 300.0	WG1222712	1	01/14/19 10:38	01/15/19 15:24	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1223434	1	01/12/19 23:08	01/15/19 19:03	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1224819	1	01/12/19 23:08	01/17/19 17:49	BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1223272	50	01/16/19 10:25	01/17/19 00:43	KME



S-5 L1060433-11 Solid

Collected by
K. Reed

Collected date/time
01/10/19 10:32

Received date/time
01/11/19 08:45

¹ Cp

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1223612	1	01/15/19 13:04	01/15/19 13:14	KDW
Wet Chemistry by Method 300.0	WG1222712	1	01/14/19 10:38	01/15/19 15:33	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1223434	1	01/12/19 23:08	01/15/19 19:27	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1224819	1	01/12/19 23:08	01/17/19 18:08	BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1223272	100	01/16/19 10:25	01/16/19 22:04	KME

² Tc³ Ss⁴ Cn

S-11 L1060433-12 Solid

Collected by
K. Reed

Collected date/time
01/10/19 10:37

Received date/time
01/11/19 08:45

⁵ Sr

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1223612	1	01/15/19 13:04	01/15/19 13:14	KDW
Wet Chemistry by Method 300.0	WG1222712	1	01/14/19 10:52	01/15/19 15:42	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1223434	1	01/12/19 23:08	01/15/19 19:50	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1224819	1	01/12/19 23:08	01/17/19 18:26	BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1223272	50	01/16/19 10:25	01/17/19 00:59	KME

⁶ Qc⁷ Gl⁸ Al

S-17 L1060433-13 Solid

Collected by
K. Reed

Collected date/time
01/10/19 12:09

Received date/time
01/11/19 08:45

⁹ Sc

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1223612	1	01/15/19 13:04	01/15/19 13:14	KDW
Wet Chemistry by Method 300.0	WG1222712	1	01/14/19 10:38	01/15/19 15:50	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1223434	1	01/12/19 23:08	01/15/19 20:11	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1224819	1	01/12/19 23:08	01/17/19 18:45	BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1223272	20	01/16/19 10:25	01/17/19 11:41	KME

S-18 L1060433-14 Solid

Collected by
K. Reed

Collected date/time
01/10/19 12:15

Received date/time
01/11/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1223612	1	01/15/19 13:04	01/15/19 13:14	KDW
Wet Chemistry by Method 300.0	WG1222712	1	01/14/19 10:52	01/15/19 15:59	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1223434	1	01/12/19 23:08	01/15/19 20:34	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1224819	1	01/12/19 23:08	01/17/19 19:03	BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1223272	1	01/16/19 10:25	01/16/19 18:41	KME

S-19 L1060433-15 Solid

Collected by
K. Reed

Collected date/time
01/10/19 12:19

Received date/time
01/11/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1223613	1	01/15/19 12:51	01/15/19 13:01	KDW
Wet Chemistry by Method 300.0	WG1222712	1	01/14/19 10:38	01/15/19 16:26	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1223434	1	01/12/19 23:08	01/15/19 20:56	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1224819	1	01/12/19 23:08	01/17/19 19:22	BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1223272	50	01/16/19 10:25	01/17/19 01:15	KME

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



S-20 L1060433-16 Solid

Collected by
K. ReedCollected date/time
01/10/19 12:26Received date/time
01/11/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1223613	1	01/15/19 12:51	01/15/19 13:01	KDW
Wet Chemistry by Method 300.0	WG1224912	1	01/17/19 14:00	01/18/19 08:36	ELN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1223434	1	01/12/19 23:08	01/15/19 21:18	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1224819	1	01/12/19 23:08	01/17/19 19:41	BMB
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1223272	25	01/16/19 10:25	01/17/19 00:12	KME

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



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.

Daphne Richards
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.8		1	01/15/2019 13:31	WG1223610

Wet Chemistry by Method 300.0

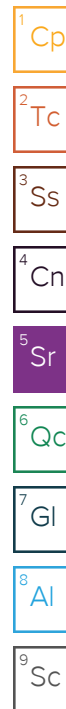
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	43.9		10.0	1	01/15/2019 13:30	WG1222712

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	01/15/2019 15:41	WG1223434
(S) a,a,a-Trifluorotoluene(FID)	97.2		77.0-120		01/15/2019 15:41	WG1223434

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Acetone	ND		0.0250	1	01/17/2019 15:00	WG1224819
Acrylonitrile	ND		0.0125	1	01/17/2019 15:00	WG1224819
Benzene	ND		0.00100	1	01/17/2019 15:00	WG1224819
Bromobenzene	ND		0.0125	1	01/17/2019 15:00	WG1224819
Bromodichloromethane	ND		0.00250	1	01/17/2019 15:00	WG1224819
Bromoform	ND		0.0250	1	01/17/2019 15:00	WG1224819
Bromomethane	ND		0.0125	1	01/17/2019 15:00	WG1224819
n-Butylbenzene	ND		0.0125	1	01/17/2019 15:00	WG1224819
sec-Butylbenzene	ND		0.0125	1	01/17/2019 15:00	WG1224819
tert-Butylbenzene	ND		0.00500	1	01/17/2019 15:00	WG1224819
Carbon tetrachloride	ND		0.00500	1	01/17/2019 15:00	WG1224819
Chlorobenzene	ND		0.00250	1	01/17/2019 15:00	WG1224819
Chlorodibromomethane	ND		0.00250	1	01/17/2019 15:00	WG1224819
Chloroethane	ND		0.00500	1	01/17/2019 15:00	WG1224819
Chloroform	ND		0.00250	1	01/17/2019 15:00	WG1224819
Chloromethane	ND		0.0125	1	01/17/2019 15:00	WG1224819
2-Chlorotoluene	ND		0.00250	1	01/17/2019 15:00	WG1224819
4-Chlorotoluene	ND		0.00500	1	01/17/2019 15:00	WG1224819
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	01/17/2019 15:00	WG1224819
1,2-Dibromoethane	ND		0.00250	1	01/17/2019 15:00	WG1224819
Dibromomethane	ND		0.00500	1	01/17/2019 15:00	WG1224819
1,2-Dichlorobenzene	ND		0.00500	1	01/17/2019 15:00	WG1224819
1,3-Dichlorobenzene	ND		0.00500	1	01/17/2019 15:00	WG1224819
1,4-Dichlorobenzene	ND		0.00500	1	01/17/2019 15:00	WG1224819
Dichlorodifluoromethane	ND		0.00250	1	01/17/2019 15:00	WG1224819
1,1-Dichloroethane	ND		0.00250	1	01/17/2019 15:00	WG1224819
1,2-Dichloroethane	ND		0.00250	1	01/17/2019 15:00	WG1224819
1,1-Dichloroethene	ND		0.00250	1	01/17/2019 15:00	WG1224819
cis-1,2-Dichloroethene	ND		0.00250	1	01/17/2019 15:00	WG1224819
trans-1,2-Dichloroethene	ND		0.00500	1	01/17/2019 15:00	WG1224819
1,2-Dichloropropane	ND		0.00500	1	01/17/2019 15:00	WG1224819
1,1-Dichloropropene	ND		0.00250	1	01/17/2019 15:00	WG1224819
1,3-Dichloropropane	ND		0.00500	1	01/17/2019 15:00	WG1224819
cis-1,3-Dichloropropene	ND		0.00250	1	01/17/2019 15:00	WG1224819
trans-1,3-Dichloropropene	ND		0.00500	1	01/17/2019 15:00	WG1224819
2,2-Dichloropropane	ND		0.00250	1	01/17/2019 15:00	WG1224819
Di-isopropyl ether	ND		0.00100	1	01/17/2019 15:00	WG1224819
Ethylbenzene	ND		0.00250	1	01/17/2019 15:00	WG1224819





Collected date/time: 01/10/19 09:32

L1060433

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexachloro-1,3-butadiene	ND	<u>J3</u>	0.0250	1	01/17/2019 15:00	WG1224819
Isopropylbenzene	ND		0.00250	1	01/17/2019 15:00	WG1224819
p-Isopropyltoluene	ND		0.00500	1	01/17/2019 15:00	WG1224819
2-Butanone (MEK)	ND		0.0250	1	01/17/2019 15:00	WG1224819
Methylene Chloride	ND		0.0250	1	01/17/2019 15:00	WG1224819
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	01/17/2019 15:00	WG1224819
Methyl tert-butyl ether	ND		0.00100	1	01/17/2019 15:00	WG1224819
Naphthalene	ND		0.0125	1	01/17/2019 15:00	WG1224819
n-Propylbenzene	ND		0.00500	1	01/17/2019 15:00	WG1224819
Styrene	ND		0.0125	1	01/17/2019 15:00	WG1224819
1,1,1,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 15:00	WG1224819
1,1,2,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 15:00	WG1224819
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	01/17/2019 15:00	WG1224819
Tetrachloroethene	ND		0.00250	1	01/17/2019 15:00	WG1224819
Toluene	ND		0.00500	1	01/17/2019 15:00	WG1224819
1,2,3-Trichlorobenzene	ND		0.00250	1	01/17/2019 15:00	WG1224819
1,2,4-Trichlorobenzene	ND		0.0125	1	01/17/2019 15:00	WG1224819
1,1,1-Trichloroethane	ND		0.00250	1	01/17/2019 15:00	WG1224819
1,1,2-Trichloroethane	ND		0.00250	1	01/17/2019 15:00	WG1224819
Trichloroethene	ND		0.00100	1	01/17/2019 15:00	WG1224819
Trichlorofluoromethane	ND		0.00250	1	01/17/2019 15:00	WG1224819
1,2,3-Trichloropropane	ND		0.0125	1	01/17/2019 15:00	WG1224819
1,2,4-Trimethylbenzene	ND		0.00500	1	01/17/2019 15:00	WG1224819
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.00500	1	01/17/2019 15:00	WG1224819
1,3,5-Trimethylbenzene	ND		0.00500	1	01/17/2019 15:00	WG1224819
Vinyl chloride	ND		0.00250	1	01/17/2019 15:00	WG1224819
Xylenes, Total	ND		0.00650	1	01/17/2019 15:00	WG1224819
(S) Toluene-d8	112		75.0-131		01/17/2019 15:00	WG1224819
(S) Dibromofluoromethane	115		65.0-129		01/17/2019 15:00	WG1224819
(S) 4-Bromofluorobenzene	105		67.0-138		01/17/2019 15:00	WG1224819

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

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2450		200	50	01/17/2019 00:27	WG1223272
C28-C40 Oil Range	2290		200	50	01/17/2019 00:27	WG1223272
(S) o-Terphenyl	261	<u>J7</u>	18.0-148		01/17/2019 00:27	WG1223272



Collected date/time: 01/10/19 09:37

L1060433

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.4		1	01/15/2019 13:31	WG1223610

Wet Chemistry by Method 300.0

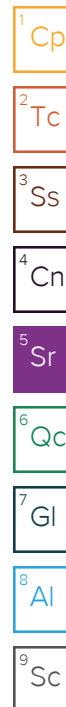
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	88.3		10.0	1	01/15/2019 13:39	WG1222712

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	01/15/2019 16:03	WG1223434
(S) a,a,a-Trifluorotoluene(FID)	101		77.0-120		01/15/2019 16:03	WG1223434

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Acetone	ND		0.0250	1	01/17/2019 15:19	WG1224819
Acrylonitrile	ND		0.0125	1	01/17/2019 15:19	WG1224819
Benzene	ND		0.00100	1	01/17/2019 15:19	WG1224819
Bromobenzene	ND		0.0125	1	01/17/2019 15:19	WG1224819
Bromodichloromethane	ND		0.00250	1	01/17/2019 15:19	WG1224819
Bromoform	ND		0.0250	1	01/17/2019 15:19	WG1224819
Bromomethane	ND		0.0125	1	01/17/2019 15:19	WG1224819
n-Butylbenzene	ND		0.0125	1	01/17/2019 15:19	WG1224819
sec-Butylbenzene	ND		0.0125	1	01/17/2019 15:19	WG1224819
tert-Butylbenzene	ND		0.00500	1	01/17/2019 15:19	WG1224819
Carbon tetrachloride	ND		0.00500	1	01/17/2019 15:19	WG1224819
Chlorobenzene	ND		0.00250	1	01/17/2019 15:19	WG1224819
Chlorodibromomethane	ND		0.00250	1	01/17/2019 15:19	WG1224819
Chloroethane	ND		0.00500	1	01/17/2019 15:19	WG1224819
Chloroform	ND		0.00250	1	01/17/2019 15:19	WG1224819
Chloromethane	ND		0.0125	1	01/17/2019 15:19	WG1224819
2-Chlorotoluene	ND		0.00250	1	01/17/2019 15:19	WG1224819
4-Chlorotoluene	ND		0.00500	1	01/17/2019 15:19	WG1224819
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	01/17/2019 15:19	WG1224819
1,2-Dibromoethane	ND		0.00250	1	01/17/2019 15:19	WG1224819
Dibromomethane	ND		0.00500	1	01/17/2019 15:19	WG1224819
1,2-Dichlorobenzene	ND		0.00500	1	01/17/2019 15:19	WG1224819
1,3-Dichlorobenzene	ND		0.00500	1	01/17/2019 15:19	WG1224819
1,4-Dichlorobenzene	ND		0.00500	1	01/17/2019 15:19	WG1224819
Dichlorodifluoromethane	ND		0.00250	1	01/17/2019 15:19	WG1224819
1,1-Dichloroethane	ND		0.00250	1	01/17/2019 15:19	WG1224819
1,2-Dichloroethane	ND		0.00250	1	01/17/2019 15:19	WG1224819
1,1-Dichloroethene	ND		0.00250	1	01/17/2019 15:19	WG1224819
cis-1,2-Dichloroethene	ND		0.00250	1	01/17/2019 15:19	WG1224819
trans-1,2-Dichloroethene	ND		0.00500	1	01/17/2019 15:19	WG1224819
1,2-Dichloropropane	ND		0.00500	1	01/17/2019 15:19	WG1224819
1,1-Dichloropropene	ND		0.00250	1	01/17/2019 15:19	WG1224819
1,3-Dichloropropane	ND		0.00500	1	01/17/2019 15:19	WG1224819
cis-1,3-Dichloropropene	ND		0.00250	1	01/17/2019 15:19	WG1224819
trans-1,3-Dichloropropene	ND		0.00500	1	01/17/2019 15:19	WG1224819
2,2-Dichloropropane	ND		0.00250	1	01/17/2019 15:19	WG1224819
Di-isopropyl ether	ND		0.00100	1	01/17/2019 15:19	WG1224819
Ethylbenzene	ND		0.00250	1	01/17/2019 15:19	WG1224819





Collected date/time: 01/10/19 09:37

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexachloro-1,3-butadiene	ND	<u>J3</u>	0.0250	1	01/17/2019 15:19	WG1224819
Isopropylbenzene	ND		0.00250	1	01/17/2019 15:19	WG1224819
p-Isopropyltoluene	ND		0.00500	1	01/17/2019 15:19	WG1224819
2-Butanone (MEK)	ND		0.0250	1	01/17/2019 15:19	WG1224819
Methylene Chloride	ND		0.0250	1	01/17/2019 15:19	WG1224819
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	01/17/2019 15:19	WG1224819
Methyl tert-butyl ether	ND		0.00100	1	01/17/2019 15:19	WG1224819
Naphthalene	ND		0.0125	1	01/17/2019 15:19	WG1224819
n-Propylbenzene	ND		0.00500	1	01/17/2019 15:19	WG1224819
Styrene	ND		0.0125	1	01/17/2019 15:19	WG1224819
1,1,1,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 15:19	WG1224819
1,1,2,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 15:19	WG1224819
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	01/17/2019 15:19	WG1224819
Tetrachloroethene	ND		0.00250	1	01/17/2019 15:19	WG1224819
Toluene	ND		0.00500	1	01/17/2019 15:19	WG1224819
1,2,3-Trichlorobenzene	ND		0.00250	1	01/17/2019 15:19	WG1224819
1,2,4-Trichlorobenzene	ND		0.0125	1	01/17/2019 15:19	WG1224819
1,1,1-Trichloroethane	ND		0.00250	1	01/17/2019 15:19	WG1224819
1,1,2-Trichloroethane	ND		0.00250	1	01/17/2019 15:19	WG1224819
Trichloroethene	ND		0.00100	1	01/17/2019 15:19	WG1224819
Trichlorofluoromethane	ND		0.00250	1	01/17/2019 15:19	WG1224819
1,2,3-Trichloropropane	ND		0.0125	1	01/17/2019 15:19	WG1224819
1,2,4-Trimethylbenzene	ND		0.00500	1	01/17/2019 15:19	WG1224819
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.00500	1	01/17/2019 15:19	WG1224819
1,3,5-Trimethylbenzene	ND		0.00500	1	01/17/2019 15:19	WG1224819
Vinyl chloride	ND		0.00250	1	01/17/2019 15:19	WG1224819
Xylenes, Total	ND		0.00650	1	01/17/2019 15:19	WG1224819
(S) Toluene-d8	111		75.0-131		01/17/2019 15:19	WG1224819
(S) Dibromofluoromethane	115		65.0-129		01/17/2019 15:19	WG1224819
(S) 4-Bromofluorobenzene	105		67.0-138		01/17/2019 15:19	WG1224819

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

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	75.0		20.0	5	01/16/2019 19:07	WG1223272
C28-C40 Oil Range	92.0		20.0	5	01/16/2019 19:07	WG1223272
(S) o-Terphenyl	95.5		18.0-148		01/16/2019 19:07	WG1223272



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.1		1	01/15/2019 13:31	WG1223610

Wet Chemistry by Method 300.0

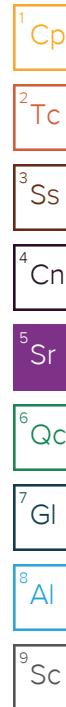
Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	87.0		10.0	1	01/15/2019 13:48	WG1222712

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPH (GC/FID) Low Fraction	ND		0.100	1	01/15/2019 16:24	WG1223434
(S) a,a,a-Trifluorotoluene(FID)	102		77.0-120		01/15/2019 16:24	WG1223434

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0250	1	01/17/2019 15:38	WG1224819
Acrylonitrile	ND		0.0125	1	01/17/2019 15:38	WG1224819
Benzene	ND		0.00100	1	01/17/2019 15:38	WG1224819
Bromobenzene	ND		0.0125	1	01/17/2019 15:38	WG1224819
Bromodichloromethane	ND		0.00250	1	01/17/2019 15:38	WG1224819
Bromoform	ND		0.0250	1	01/17/2019 15:38	WG1224819
Bromomethane	ND		0.0125	1	01/17/2019 15:38	WG1224819
n-Butylbenzene	ND		0.0125	1	01/17/2019 15:38	WG1224819
sec-Butylbenzene	ND		0.0125	1	01/17/2019 15:38	WG1224819
tert-Butylbenzene	ND		0.00500	1	01/17/2019 15:38	WG1224819
Carbon tetrachloride	ND		0.00500	1	01/17/2019 15:38	WG1224819
Chlorobenzene	ND		0.00250	1	01/17/2019 15:38	WG1224819
Chlorodibromomethane	ND		0.00250	1	01/17/2019 15:38	WG1224819
Chloroethane	ND		0.00500	1	01/17/2019 15:38	WG1224819
Chloroform	ND		0.00250	1	01/17/2019 15:38	WG1224819
Chloromethane	ND		0.0125	1	01/17/2019 15:38	WG1224819
2-Chlorotoluene	ND		0.00250	1	01/17/2019 15:38	WG1224819
4-Chlorotoluene	ND		0.00500	1	01/17/2019 15:38	WG1224819
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	01/17/2019 15:38	WG1224819
1,2-Dibromoethane	ND		0.00250	1	01/17/2019 15:38	WG1224819
Dibromomethane	ND		0.00500	1	01/17/2019 15:38	WG1224819
1,2-Dichlorobenzene	ND		0.00500	1	01/17/2019 15:38	WG1224819
1,3-Dichlorobenzene	ND		0.00500	1	01/17/2019 15:38	WG1224819
1,4-Dichlorobenzene	ND		0.00500	1	01/17/2019 15:38	WG1224819
Dichlorodifluoromethane	ND		0.00250	1	01/17/2019 15:38	WG1224819
1,1-Dichloroethane	ND		0.00250	1	01/17/2019 15:38	WG1224819
1,2-Dichloroethane	ND		0.00250	1	01/17/2019 15:38	WG1224819
1,1-Dichloroethene	ND		0.00250	1	01/17/2019 15:38	WG1224819
cis-1,2-Dichloroethene	ND		0.00250	1	01/17/2019 15:38	WG1224819
trans-1,2-Dichloroethene	ND		0.00500	1	01/17/2019 15:38	WG1224819
1,2-Dichloropropane	ND		0.00500	1	01/17/2019 15:38	WG1224819
1,1-Dichloropropene	ND		0.00250	1	01/17/2019 15:38	WG1224819
1,3-Dichloropropane	ND		0.00500	1	01/17/2019 15:38	WG1224819
cis-1,3-Dichloropropene	ND		0.00250	1	01/17/2019 15:38	WG1224819
trans-1,3-Dichloropropene	ND		0.00500	1	01/17/2019 15:38	WG1224819
2,2-Dichloropropane	ND		0.00250	1	01/17/2019 15:38	WG1224819
Di-isopropyl ether	ND		0.00100	1	01/17/2019 15:38	WG1224819
Ethylbenzene	ND		0.00250	1	01/17/2019 15:38	WG1224819





Collected date/time: 01/10/19 09:48

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexachloro-1,3-butadiene	ND	<u>J3</u>	0.0250	1	01/17/2019 15:38	WG1224819
Isopropylbenzene	ND		0.00250	1	01/17/2019 15:38	WG1224819
p-Isopropyltoluene	ND		0.00500	1	01/17/2019 15:38	WG1224819
2-Butanone (MEK)	ND		0.0250	1	01/17/2019 15:38	WG1224819
Methylene Chloride	ND		0.0250	1	01/17/2019 15:38	WG1224819
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	01/17/2019 15:38	WG1224819
Methyl tert-butyl ether	ND		0.00100	1	01/17/2019 15:38	WG1224819
Naphthalene	ND		0.0125	1	01/17/2019 15:38	WG1224819
n-Propylbenzene	ND		0.00500	1	01/17/2019 15:38	WG1224819
Styrene	ND		0.0125	1	01/17/2019 15:38	WG1224819
1,1,1,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 15:38	WG1224819
1,1,2,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 15:38	WG1224819
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	01/17/2019 15:38	WG1224819
Tetrachloroethene	ND		0.00250	1	01/17/2019 15:38	WG1224819
Toluene	ND		0.00500	1	01/17/2019 15:38	WG1224819
1,2,3-Trichlorobenzene	ND		0.00250	1	01/17/2019 15:38	WG1224819
1,2,4-Trichlorobenzene	ND		0.0125	1	01/17/2019 15:38	WG1224819
1,1,1-Trichloroethane	ND		0.00250	1	01/17/2019 15:38	WG1224819
1,1,2-Trichloroethane	ND		0.00250	1	01/17/2019 15:38	WG1224819
Trichloroethene	ND		0.00100	1	01/17/2019 15:38	WG1224819
Trichlorofluoromethane	ND		0.00250	1	01/17/2019 15:38	WG1224819
1,2,3-Trichloropropane	ND		0.0125	1	01/17/2019 15:38	WG1224819
1,2,4-Trimethylbenzene	ND		0.00500	1	01/17/2019 15:38	WG1224819
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.00500	1	01/17/2019 15:38	WG1224819
1,3,5-Trimethylbenzene	ND		0.00500	1	01/17/2019 15:38	WG1224819
Vinyl chloride	ND		0.00250	1	01/17/2019 15:38	WG1224819
Xylenes, Total	ND		0.00650	1	01/17/2019 15:38	WG1224819
(S) Toluene-d8	111		75.0-131		01/17/2019 15:38	WG1224819
(S) Dibromofluoromethane	115		65.0-129		01/17/2019 15:38	WG1224819
(S) 4-Bromofluorobenzene	108		67.0-138		01/17/2019 15:38	WG1224819

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

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	103		4.00	1	01/16/2019 18:54	WG1223272
C28-C40 Oil Range	94.8		4.00	1	01/16/2019 18:54	WG1223272
(S) o-Terphenyl	90.0		18.0-148		01/16/2019 18:54	WG1223272



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.7		1	01/15/2019 13:31	WG1223610

Wet Chemistry by Method 300.0

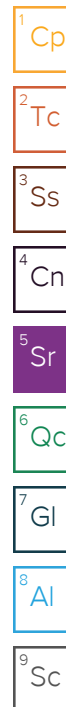
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	81.2		10.0	1	01/15/2019 13:56	WG1222712

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	01/15/2019 16:46	WG1223434
(S) a,a,a-Trifluorotoluene(FID)	103		77.0-120		01/15/2019 16:46	WG1223434

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Acetone	ND		0.0250	1	01/17/2019 15:57	WG1224819
Acrylonitrile	ND		0.0125	1	01/17/2019 15:57	WG1224819
Benzene	ND		0.00100	1	01/17/2019 15:57	WG1224819
Bromobenzene	ND		0.0125	1	01/17/2019 15:57	WG1224819
Bromodichloromethane	ND		0.00250	1	01/17/2019 15:57	WG1224819
Bromoform	ND		0.0250	1	01/17/2019 15:57	WG1224819
Bromomethane	ND		0.0125	1	01/17/2019 15:57	WG1224819
n-Butylbenzene	ND		0.0125	1	01/17/2019 15:57	WG1224819
sec-Butylbenzene	ND		0.0125	1	01/17/2019 15:57	WG1224819
tert-Butylbenzene	ND		0.00500	1	01/17/2019 15:57	WG1224819
Carbon tetrachloride	ND		0.00500	1	01/17/2019 15:57	WG1224819
Chlorobenzene	ND		0.00250	1	01/17/2019 15:57	WG1224819
Chlorodibromomethane	ND		0.00250	1	01/17/2019 15:57	WG1224819
Chloroethane	ND		0.00500	1	01/17/2019 15:57	WG1224819
Chloroform	ND		0.00250	1	01/17/2019 15:57	WG1224819
Chloromethane	ND		0.0125	1	01/17/2019 15:57	WG1224819
2-Chlorotoluene	ND		0.00250	1	01/17/2019 15:57	WG1224819
4-Chlorotoluene	ND		0.00500	1	01/17/2019 15:57	WG1224819
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	01/17/2019 15:57	WG1224819
1,2-Dibromoethane	ND		0.00250	1	01/17/2019 15:57	WG1224819
Dibromomethane	ND		0.00500	1	01/17/2019 15:57	WG1224819
1,2-Dichlorobenzene	ND		0.00500	1	01/17/2019 15:57	WG1224819
1,3-Dichlorobenzene	ND		0.00500	1	01/17/2019 15:57	WG1224819
1,4-Dichlorobenzene	ND		0.00500	1	01/17/2019 15:57	WG1224819
Dichlorodifluoromethane	ND		0.00250	1	01/17/2019 15:57	WG1224819
1,1-Dichloroethane	ND		0.00250	1	01/17/2019 15:57	WG1224819
1,2-Dichloroethane	ND		0.00250	1	01/17/2019 15:57	WG1224819
1,1-Dichloroethene	ND		0.00250	1	01/17/2019 15:57	WG1224819
cis-1,2-Dichloroethene	ND		0.00250	1	01/17/2019 15:57	WG1224819
trans-1,2-Dichloroethene	ND		0.00500	1	01/17/2019 15:57	WG1224819
1,2-Dichloropropane	ND		0.00500	1	01/17/2019 15:57	WG1224819
1,1-Dichloropropene	ND		0.00250	1	01/17/2019 15:57	WG1224819
1,3-Dichloropropane	ND		0.00500	1	01/17/2019 15:57	WG1224819
cis-1,3-Dichloropropene	ND		0.00250	1	01/17/2019 15:57	WG1224819
trans-1,3-Dichloropropene	ND		0.00500	1	01/17/2019 15:57	WG1224819
2,2-Dichloropropane	ND		0.00250	1	01/17/2019 15:57	WG1224819
Di-isopropyl ether	ND		0.00100	1	01/17/2019 15:57	WG1224819
Ethylbenzene	ND		0.00250	1	01/17/2019 15:57	WG1224819





Collected date/time: 01/10/19 09:55

L1060433

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexachloro-1,3-butadiene	ND	J3	0.0250	1	01/17/2019 15:57	WG1224819
Isopropylbenzene	ND		0.00250	1	01/17/2019 15:57	WG1224819
p-Isopropyltoluene	ND		0.00500	1	01/17/2019 15:57	WG1224819
2-Butanone (MEK)	ND		0.0250	1	01/17/2019 15:57	WG1224819
Methylene Chloride	ND		0.0250	1	01/17/2019 15:57	WG1224819
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	01/17/2019 15:57	WG1224819
Methyl tert-butyl ether	ND		0.00100	1	01/17/2019 15:57	WG1224819
Naphthalene	ND		0.0125	1	01/17/2019 15:57	WG1224819
n-Propylbenzene	ND		0.00500	1	01/17/2019 15:57	WG1224819
Styrene	ND		0.0125	1	01/17/2019 15:57	WG1224819
1,1,1,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 15:57	WG1224819
1,1,2,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 15:57	WG1224819
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	01/17/2019 15:57	WG1224819
Tetrachloroethene	ND		0.00250	1	01/17/2019 15:57	WG1224819
Toluene	ND		0.00500	1	01/17/2019 15:57	WG1224819
1,2,3-Trichlorobenzene	ND		0.00250	1	01/17/2019 15:57	WG1224819
1,2,4-Trichlorobenzene	ND		0.0125	1	01/17/2019 15:57	WG1224819
1,1,1-Trichloroethane	ND		0.00250	1	01/17/2019 15:57	WG1224819
1,1,2-Trichloroethane	ND		0.00250	1	01/17/2019 15:57	WG1224819
Trichloroethene	ND		0.00100	1	01/17/2019 15:57	WG1224819
Trichlorofluoromethane	ND		0.00250	1	01/17/2019 15:57	WG1224819
1,2,3-Trichloropropane	ND		0.0125	1	01/17/2019 15:57	WG1224819
1,2,4-Trimethylbenzene	ND		0.00500	1	01/17/2019 15:57	WG1224819
1,2,3-Trimethylbenzene	ND	J4	0.00500	1	01/17/2019 15:57	WG1224819
1,3,5-Trimethylbenzene	ND		0.00500	1	01/17/2019 15:57	WG1224819
Vinyl chloride	ND		0.00250	1	01/17/2019 15:57	WG1224819
Xylenes, Total	ND		0.00650	1	01/17/2019 15:57	WG1224819
(S) Toluene-d8	112		75.0-131		01/17/2019 15:57	WG1224819
(S) Dibromofluoromethane	114		65.0-129		01/17/2019 15:57	WG1224819
(S) 4-Bromofluorobenzene	105		67.0-138		01/17/2019 15:57	WG1224819

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

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	47.3		20.0	5	01/16/2019 19:23	WG1223272
C28-C40 Oil Range	63.2		20.0	5	01/16/2019 19:23	WG1223272
(S) o-Terphenyl	93.1		18.0-148		01/16/2019 19:23	WG1223272



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.1		1	01/15/2019 13:14	WG1223612

Wet Chemistry by Method 300.0

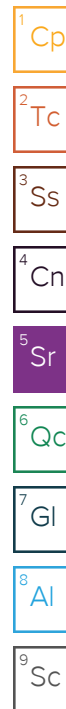
Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	118		10.0	1	01/15/2019 14:05	WG1222712

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPH (GC/FID) Low Fraction	ND		0.100	1	01/15/2019 17:08	WG1223434
(S) a,a,a-Trifluorotoluene(FID)	100		77.0-120		01/15/2019 17:08	WG1223434

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0250	1	01/17/2019 16:15	WG1224819
Acrylonitrile	ND		0.0125	1	01/17/2019 16:15	WG1224819
Benzene	ND		0.00100	1	01/17/2019 16:15	WG1224819
Bromobenzene	ND		0.0125	1	01/17/2019 16:15	WG1224819
Bromodichloromethane	ND		0.00250	1	01/17/2019 16:15	WG1224819
Bromoform	ND		0.0250	1	01/17/2019 16:15	WG1224819
Bromomethane	ND		0.0125	1	01/17/2019 16:15	WG1224819
n-Butylbenzene	ND		0.0125	1	01/17/2019 16:15	WG1224819
sec-Butylbenzene	ND		0.0125	1	01/17/2019 16:15	WG1224819
tert-Butylbenzene	ND		0.00500	1	01/17/2019 16:15	WG1224819
Carbon tetrachloride	ND		0.00500	1	01/17/2019 16:15	WG1224819
Chlorobenzene	ND		0.00250	1	01/17/2019 16:15	WG1224819
Chlorodibromomethane	ND		0.00250	1	01/17/2019 16:15	WG1224819
Chloroethane	ND		0.00500	1	01/17/2019 16:15	WG1224819
Chloroform	ND		0.00250	1	01/17/2019 16:15	WG1224819
Chloromethane	ND		0.0125	1	01/17/2019 16:15	WG1224819
2-Chlorotoluene	ND		0.00250	1	01/17/2019 16:15	WG1224819
4-Chlorotoluene	ND		0.00500	1	01/17/2019 16:15	WG1224819
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	01/17/2019 16:15	WG1224819
1,2-Dibromoethane	ND		0.00250	1	01/17/2019 16:15	WG1224819
Dibromomethane	ND		0.00500	1	01/17/2019 16:15	WG1224819
1,2-Dichlorobenzene	ND		0.00500	1	01/17/2019 16:15	WG1224819
1,3-Dichlorobenzene	ND		0.00500	1	01/17/2019 16:15	WG1224819
1,4-Dichlorobenzene	ND		0.00500	1	01/17/2019 16:15	WG1224819
Dichlorodifluoromethane	ND		0.00250	1	01/17/2019 16:15	WG1224819
1,1-Dichloroethane	ND		0.00250	1	01/17/2019 16:15	WG1224819
1,2-Dichloroethane	ND		0.00250	1	01/17/2019 16:15	WG1224819
1,1-Dichloroethene	ND		0.00250	1	01/17/2019 16:15	WG1224819
cis-1,2-Dichloroethene	ND		0.00250	1	01/17/2019 16:15	WG1224819
trans-1,2-Dichloroethene	ND		0.00500	1	01/17/2019 16:15	WG1224819
1,2-Dichloropropane	ND		0.00500	1	01/17/2019 16:15	WG1224819
1,1-Dichloropropene	ND		0.00250	1	01/17/2019 16:15	WG1224819
1,3-Dichloropropane	ND		0.00500	1	01/17/2019 16:15	WG1224819
cis-1,3-Dichloropropene	ND		0.00250	1	01/17/2019 16:15	WG1224819
trans-1,3-Dichloropropene	ND		0.00500	1	01/17/2019 16:15	WG1224819
2,2-Dichloropropane	ND		0.00250	1	01/17/2019 16:15	WG1224819
Di-isopropyl ether	ND		0.00100	1	01/17/2019 16:15	WG1224819
Ethylbenzene	ND		0.00250	1	01/17/2019 16:15	WG1224819



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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexachloro-1,3-butadiene	ND	<u>J3</u>	0.0250	1	01/17/2019 16:15	WG1224819
Isopropylbenzene	ND		0.00250	1	01/17/2019 16:15	WG1224819
p-Isopropyltoluene	ND		0.00500	1	01/17/2019 16:15	WG1224819
2-Butanone (MEK)	ND		0.0250	1	01/17/2019 16:15	WG1224819
Methylene Chloride	ND		0.0250	1	01/17/2019 16:15	WG1224819
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	01/17/2019 16:15	WG1224819
Methyl tert-butyl ether	ND		0.00100	1	01/17/2019 16:15	WG1224819
Naphthalene	ND		0.0125	1	01/17/2019 16:15	WG1224819
n-Propylbenzene	ND		0.00500	1	01/17/2019 16:15	WG1224819
Styrene	ND		0.0125	1	01/17/2019 16:15	WG1224819
1,1,1,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 16:15	WG1224819
1,1,2,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 16:15	WG1224819
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	01/17/2019 16:15	WG1224819
Tetrachloroethene	ND		0.00250	1	01/17/2019 16:15	WG1224819
Toluene	ND		0.00500	1	01/17/2019 16:15	WG1224819
1,2,3-Trichlorobenzene	ND		0.00250	1	01/17/2019 16:15	WG1224819
1,2,4-Trichlorobenzene	ND		0.0125	1	01/17/2019 16:15	WG1224819
1,1,1-Trichloroethane	ND		0.00250	1	01/17/2019 16:15	WG1224819
1,1,2-Trichloroethane	ND		0.00250	1	01/17/2019 16:15	WG1224819
Trichloroethene	ND		0.00100	1	01/17/2019 16:15	WG1224819
Trichlorofluoromethane	ND		0.00250	1	01/17/2019 16:15	WG1224819
1,2,3-Trichloropropane	ND		0.0125	1	01/17/2019 16:15	WG1224819
1,2,4-Trimethylbenzene	ND		0.00500	1	01/17/2019 16:15	WG1224819
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.00500	1	01/17/2019 16:15	WG1224819
1,3,5-Trimethylbenzene	ND		0.00500	1	01/17/2019 16:15	WG1224819
Vinyl chloride	ND		0.00250	1	01/17/2019 16:15	WG1224819
Xylenes, Total	ND		0.00650	1	01/17/2019 16:15	WG1224819
(S) Toluene-d8	114		75.0-131		01/17/2019 16:15	WG1224819
(S) Dibromofluoromethane	108		65.0-129		01/17/2019 16:15	WG1224819
(S) 4-Bromofluorobenzene	105		67.0-138		01/17/2019 16:15	WG1224819

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

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		160	40	01/17/2019 11:14	WG1223272
C28-C40 Oil Range	291		160	40	01/17/2019 11:14	WG1223272
(S) o-Terphenyl	88.0	<u>J7</u>	18.0-148		01/17/2019 11:14	WG1223272

Sample Narrative:

L1060433-05 WG1223272: Cannot run at lower dilution due to viscosity of extract



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.4		1	01/15/2019 13:14	WG1223612

Wet Chemistry by Method 300.0

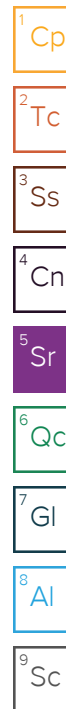
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	17.7		10.0	1	01/15/2019 14:14	WG1222712

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	01/15/2019 17:31	WG1223434
(S) a,a,a-Trifluorotoluene(FID)	101		77.0-120		01/15/2019 17:31	WG1223434

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Acetone	ND		0.0250	1	01/17/2019 16:34	WG1224819
Acrylonitrile	ND		0.0125	1	01/17/2019 16:34	WG1224819
Benzene	ND		0.00100	1	01/17/2019 16:34	WG1224819
Bromobenzene	ND		0.0125	1	01/17/2019 16:34	WG1224819
Bromodichloromethane	ND		0.00250	1	01/17/2019 16:34	WG1224819
Bromoform	ND		0.0250	1	01/17/2019 16:34	WG1224819
Bromomethane	ND		0.0125	1	01/17/2019 16:34	WG1224819
n-Butylbenzene	ND		0.0125	1	01/17/2019 16:34	WG1224819
sec-Butylbenzene	ND		0.0125	1	01/17/2019 16:34	WG1224819
tert-Butylbenzene	ND		0.00500	1	01/17/2019 16:34	WG1224819
Carbon tetrachloride	ND		0.00500	1	01/17/2019 16:34	WG1224819
Chlorobenzene	ND		0.00250	1	01/17/2019 16:34	WG1224819
Chlorodibromomethane	ND		0.00250	1	01/17/2019 16:34	WG1224819
Chloroethane	ND		0.00500	1	01/17/2019 16:34	WG1224819
Chloroform	ND		0.00250	1	01/17/2019 16:34	WG1224819
Chloromethane	ND		0.0125	1	01/17/2019 16:34	WG1224819
2-Chlorotoluene	ND		0.00250	1	01/17/2019 16:34	WG1224819
4-Chlorotoluene	ND		0.00500	1	01/17/2019 16:34	WG1224819
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	01/17/2019 16:34	WG1224819
1,2-Dibromoethane	ND		0.00250	1	01/17/2019 16:34	WG1224819
Dibromomethane	ND		0.00500	1	01/17/2019 16:34	WG1224819
1,2-Dichlorobenzene	ND		0.00500	1	01/17/2019 16:34	WG1224819
1,3-Dichlorobenzene	ND		0.00500	1	01/17/2019 16:34	WG1224819
1,4-Dichlorobenzene	ND		0.00500	1	01/17/2019 16:34	WG1224819
Dichlorodifluoromethane	ND		0.00250	1	01/17/2019 16:34	WG1224819
1,1-Dichloroethane	ND		0.00250	1	01/17/2019 16:34	WG1224819
1,2-Dichloroethane	ND		0.00250	1	01/17/2019 16:34	WG1224819
1,1-Dichloroethene	ND		0.00250	1	01/17/2019 16:34	WG1224819
cis-1,2-Dichloroethene	ND		0.00250	1	01/17/2019 16:34	WG1224819
trans-1,2-Dichloroethene	ND		0.00500	1	01/17/2019 16:34	WG1224819
1,2-Dichloropropane	ND		0.00500	1	01/17/2019 16:34	WG1224819
1,1-Dichloropropene	ND		0.00250	1	01/17/2019 16:34	WG1224819
1,3-Dichloropropane	ND		0.00500	1	01/17/2019 16:34	WG1224819
cis-1,3-Dichloropropene	ND		0.00250	1	01/17/2019 16:34	WG1224819
trans-1,3-Dichloropropene	ND		0.00500	1	01/17/2019 16:34	WG1224819
2,2-Dichloropropane	ND		0.00250	1	01/17/2019 16:34	WG1224819
Di-isopropyl ether	ND		0.00100	1	01/17/2019 16:34	WG1224819
Ethylbenzene	ND		0.00250	1	01/17/2019 16:34	WG1224819





Collected date/time: 01/10/19 10:11

L1060433

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexachloro-1,3-butadiene	ND	<u>J3</u>	0.0250	1	01/17/2019 16:34	WG1224819
Isopropylbenzene	ND		0.00250	1	01/17/2019 16:34	WG1224819
p-Isopropyltoluene	ND		0.00500	1	01/17/2019 16:34	WG1224819
2-Butanone (MEK)	ND		0.0250	1	01/17/2019 16:34	WG1224819
Methylene Chloride	ND		0.0250	1	01/17/2019 16:34	WG1224819
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	01/17/2019 16:34	WG1224819
Methyl tert-butyl ether	ND		0.00100	1	01/17/2019 16:34	WG1224819
Naphthalene	ND		0.0125	1	01/17/2019 16:34	WG1224819
n-Propylbenzene	ND		0.00500	1	01/17/2019 16:34	WG1224819
Styrene	ND		0.0125	1	01/17/2019 16:34	WG1224819
1,1,1,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 16:34	WG1224819
1,1,2,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 16:34	WG1224819
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	01/17/2019 16:34	WG1224819
Tetrachloroethene	ND		0.00250	1	01/17/2019 16:34	WG1224819
Toluene	ND		0.00500	1	01/17/2019 16:34	WG1224819
1,2,3-Trichlorobenzene	ND		0.00250	1	01/17/2019 16:34	WG1224819
1,2,4-Trichlorobenzene	ND		0.0125	1	01/17/2019 16:34	WG1224819
1,1,1-Trichloroethane	ND		0.00250	1	01/17/2019 16:34	WG1224819
1,1,2-Trichloroethane	ND		0.00250	1	01/17/2019 16:34	WG1224819
Trichloroethene	ND		0.00100	1	01/17/2019 16:34	WG1224819
Trichlorofluoromethane	ND		0.00250	1	01/17/2019 16:34	WG1224819
1,2,3-Trichloropropane	ND		0.0125	1	01/17/2019 16:34	WG1224819
1,2,4-Trimethylbenzene	ND		0.00500	1	01/17/2019 16:34	WG1224819
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.00500	1	01/17/2019 16:34	WG1224819
1,3,5-Trimethylbenzene	ND		0.00500	1	01/17/2019 16:34	WG1224819
Vinyl chloride	ND		0.00250	1	01/17/2019 16:34	WG1224819
Xylenes, Total	ND		0.00650	1	01/17/2019 16:34	WG1224819
(S) Toluene-d8	112		75.0-131		01/17/2019 16:34	WG1224819
(S) Dibromofluoromethane	117		65.0-129		01/17/2019 16:34	WG1224819
(S) 4-Bromofluorobenzene	107		67.0-138		01/17/2019 16:34	WG1224819

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

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	291	<u>V</u>	20.0	5	01/16/2019 19:38	WG1223272
C28-C40 Oil Range	250		20.0	5	01/16/2019 19:38	WG1223272
(S) o-Terphenyl	109		18.0-148		01/16/2019 19:38	WG1223272



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.7		1	01/15/2019 13:14	WG1223612

Wet Chemistry by Method 300.0

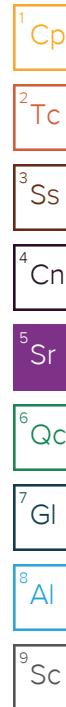
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	14.6		10.0	1	01/15/2019 14:40	WG1222712

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	01/15/2019 17:55	WG1223434
(S) a,a,a-Trifluorotoluene(FID)	102		77.0-120		01/15/2019 17:55	WG1223434

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Acetone	ND		0.0250	1	01/17/2019 16:53	WG1224819
Acrylonitrile	ND		0.0125	1	01/17/2019 16:53	WG1224819
Benzene	ND		0.00100	1	01/17/2019 16:53	WG1224819
Bromobenzene	ND		0.0125	1	01/17/2019 16:53	WG1224819
Bromodichloromethane	ND		0.00250	1	01/17/2019 16:53	WG1224819
Bromoform	ND		0.0250	1	01/17/2019 16:53	WG1224819
Bromomethane	ND		0.0125	1	01/17/2019 16:53	WG1224819
n-Butylbenzene	ND		0.0125	1	01/17/2019 16:53	WG1224819
sec-Butylbenzene	ND		0.0125	1	01/17/2019 16:53	WG1224819
tert-Butylbenzene	ND		0.00500	1	01/17/2019 16:53	WG1224819
Carbon tetrachloride	ND		0.00500	1	01/17/2019 16:53	WG1224819
Chlorobenzene	ND		0.00250	1	01/17/2019 16:53	WG1224819
Chlorodibromomethane	ND		0.00250	1	01/17/2019 16:53	WG1224819
Chloroethane	ND		0.00500	1	01/17/2019 16:53	WG1224819
Chloroform	ND		0.00250	1	01/17/2019 16:53	WG1224819
Chloromethane	ND		0.0125	1	01/17/2019 16:53	WG1224819
2-Chlorotoluene	ND		0.00250	1	01/17/2019 16:53	WG1224819
4-Chlorotoluene	ND		0.00500	1	01/17/2019 16:53	WG1224819
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	01/17/2019 16:53	WG1224819
1,2-Dibromoethane	ND		0.00250	1	01/17/2019 16:53	WG1224819
Dibromomethane	ND		0.00500	1	01/17/2019 16:53	WG1224819
1,2-Dichlorobenzene	ND		0.00500	1	01/17/2019 16:53	WG1224819
1,3-Dichlorobenzene	ND		0.00500	1	01/17/2019 16:53	WG1224819
1,4-Dichlorobenzene	ND		0.00500	1	01/17/2019 16:53	WG1224819
Dichlorodifluoromethane	ND		0.00250	1	01/17/2019 16:53	WG1224819
1,1-Dichloroethane	ND		0.00250	1	01/17/2019 16:53	WG1224819
1,2-Dichloroethane	ND		0.00250	1	01/17/2019 16:53	WG1224819
1,1-Dichloroethene	ND		0.00250	1	01/17/2019 16:53	WG1224819
cis-1,2-Dichloroethene	ND		0.00250	1	01/17/2019 16:53	WG1224819
trans-1,2-Dichloroethene	ND		0.00500	1	01/17/2019 16:53	WG1224819
1,2-Dichloropropane	ND		0.00500	1	01/17/2019 16:53	WG1224819
1,1-Dichloropropene	ND		0.00250	1	01/17/2019 16:53	WG1224819
1,3-Dichloropropane	ND		0.00500	1	01/17/2019 16:53	WG1224819
cis-1,3-Dichloropropene	ND		0.00250	1	01/17/2019 16:53	WG1224819
trans-1,3-Dichloropropene	ND		0.00500	1	01/17/2019 16:53	WG1224819
2,2-Dichloropropane	ND		0.00250	1	01/17/2019 16:53	WG1224819
Di-isopropyl ether	ND		0.00100	1	01/17/2019 16:53	WG1224819
Ethylbenzene	ND		0.00250	1	01/17/2019 16:53	WG1224819





Collected date/time: 01/10/19 10:14

L1060433

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexachloro-1,3-butadiene	ND	<u>J3</u>	0.0250	1	01/17/2019 16:53	WG1224819
Isopropylbenzene	ND		0.00250	1	01/17/2019 16:53	WG1224819
p-Isopropyltoluene	ND		0.00500	1	01/17/2019 16:53	WG1224819
2-Butanone (MEK)	ND		0.0250	1	01/17/2019 16:53	WG1224819
Methylene Chloride	ND		0.0250	1	01/17/2019 16:53	WG1224819
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	01/17/2019 16:53	WG1224819
Methyl tert-butyl ether	ND		0.00100	1	01/17/2019 16:53	WG1224819
Naphthalene	ND		0.0125	1	01/17/2019 16:53	WG1224819
n-Propylbenzene	ND		0.00500	1	01/17/2019 16:53	WG1224819
Styrene	ND		0.0125	1	01/17/2019 16:53	WG1224819
1,1,1,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 16:53	WG1224819
1,1,2,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 16:53	WG1224819
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	01/17/2019 16:53	WG1224819
Tetrachloroethene	ND		0.00250	1	01/17/2019 16:53	WG1224819
Toluene	ND		0.00500	1	01/17/2019 16:53	WG1224819
1,2,3-Trichlorobenzene	ND		0.00250	1	01/17/2019 16:53	WG1224819
1,2,4-Trichlorobenzene	ND		0.0125	1	01/17/2019 16:53	WG1224819
1,1,1-Trichloroethane	ND		0.00250	1	01/17/2019 16:53	WG1224819
1,1,2-Trichloroethane	ND		0.00250	1	01/17/2019 16:53	WG1224819
Trichloroethene	ND		0.00100	1	01/17/2019 16:53	WG1224819
Trichlorofluoromethane	ND		0.00250	1	01/17/2019 16:53	WG1224819
1,2,3-Trichloropropane	ND		0.0125	1	01/17/2019 16:53	WG1224819
1,2,4-Trimethylbenzene	ND		0.00500	1	01/17/2019 16:53	WG1224819
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.00500	1	01/17/2019 16:53	WG1224819
1,3,5-Trimethylbenzene	ND		0.00500	1	01/17/2019 16:53	WG1224819
Vinyl chloride	ND		0.00250	1	01/17/2019 16:53	WG1224819
Xylenes, Total	ND		0.00650	1	01/17/2019 16:53	WG1224819
(S) Toluene-d8	107		75.0-131		01/17/2019 16:53	WG1224819
(S) Dibromofluoromethane	114		65.0-129		01/17/2019 16:53	WG1224819
(S) 4-Bromofluorobenzene	106		67.0-138		01/17/2019 16:53	WG1224819

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

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2480		40.0	10	01/17/2019 02:38	WG1223272
C28-C40 Oil Range	2440		40.0	10	01/17/2019 02:38	WG1223272
(S) o-Terphenyl	112		18.0-148		01/17/2019 02:38	WG1223272



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.0		1	01/15/2019 13:14	WG1223612

Wet Chemistry by Method 300.0

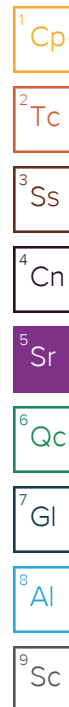
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	ND		10.0	1	01/15/2019 14:49	WG1222712

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	01/15/2019 18:16	WG1223434
(S) a,a,a-Trifluorotoluene(FID)	101		77.0-120		01/15/2019 18:16	WG1223434

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Acetone	ND		0.0250	1	01/17/2019 17:12	WG1224819
Acrylonitrile	ND		0.0125	1	01/17/2019 17:12	WG1224819
Benzene	ND		0.00100	1	01/17/2019 17:12	WG1224819
Bromobenzene	ND		0.0125	1	01/17/2019 17:12	WG1224819
Bromodichloromethane	ND		0.00250	1	01/17/2019 17:12	WG1224819
Bromoform	ND		0.0250	1	01/17/2019 17:12	WG1224819
Bromomethane	ND		0.0125	1	01/17/2019 17:12	WG1224819
n-Butylbenzene	ND		0.0125	1	01/17/2019 17:12	WG1224819
sec-Butylbenzene	ND		0.0125	1	01/17/2019 17:12	WG1224819
tert-Butylbenzene	ND		0.00500	1	01/17/2019 17:12	WG1224819
Carbon tetrachloride	ND		0.00500	1	01/17/2019 17:12	WG1224819
Chlorobenzene	ND		0.00250	1	01/17/2019 17:12	WG1224819
Chlorodibromomethane	ND		0.00250	1	01/17/2019 17:12	WG1224819
Chloroethane	ND		0.00500	1	01/17/2019 17:12	WG1224819
Chloroform	ND		0.00250	1	01/17/2019 17:12	WG1224819
Chloromethane	ND		0.0125	1	01/17/2019 17:12	WG1224819
2-Chlorotoluene	ND		0.00250	1	01/17/2019 17:12	WG1224819
4-Chlorotoluene	ND		0.00500	1	01/17/2019 17:12	WG1224819
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	01/17/2019 17:12	WG1224819
1,2-Dibromoethane	ND		0.00250	1	01/17/2019 17:12	WG1224819
Dibromomethane	ND		0.00500	1	01/17/2019 17:12	WG1224819
1,2-Dichlorobenzene	ND		0.00500	1	01/17/2019 17:12	WG1224819
1,3-Dichlorobenzene	ND		0.00500	1	01/17/2019 17:12	WG1224819
1,4-Dichlorobenzene	ND		0.00500	1	01/17/2019 17:12	WG1224819
Dichlorodifluoromethane	ND		0.00250	1	01/17/2019 17:12	WG1224819
1,1-Dichloroethane	ND		0.00250	1	01/17/2019 17:12	WG1224819
1,2-Dichloroethane	ND		0.00250	1	01/17/2019 17:12	WG1224819
1,1-Dichloroethene	ND		0.00250	1	01/17/2019 17:12	WG1224819
cis-1,2-Dichloroethene	ND		0.00250	1	01/17/2019 17:12	WG1224819
trans-1,2-Dichloroethene	ND		0.00500	1	01/17/2019 17:12	WG1224819
1,2-Dichloropropane	ND		0.00500	1	01/17/2019 17:12	WG1224819
1,1-Dichloropropene	ND		0.00250	1	01/17/2019 17:12	WG1224819
1,3-Dichloropropane	ND		0.00500	1	01/17/2019 17:12	WG1224819
cis-1,3-Dichloropropene	ND		0.00250	1	01/17/2019 17:12	WG1224819
trans-1,3-Dichloropropene	ND		0.00500	1	01/17/2019 17:12	WG1224819
2,2-Dichloropropane	ND		0.00250	1	01/17/2019 17:12	WG1224819
Di-isopropyl ether	ND		0.00100	1	01/17/2019 17:12	WG1224819
Ethylbenzene	ND		0.00250	1	01/17/2019 17:12	WG1224819





Collected date/time: 01/10/19 10:18

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexachloro-1,3-butadiene	ND	<u>J3</u>	0.0250	1	01/17/2019 17:12	WG1224819
Isopropylbenzene	ND		0.00250	1	01/17/2019 17:12	WG1224819
p-Isopropyltoluene	ND		0.00500	1	01/17/2019 17:12	WG1224819
2-Butanone (MEK)	ND		0.0250	1	01/17/2019 17:12	WG1224819
Methylene Chloride	ND		0.0250	1	01/17/2019 17:12	WG1224819
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	01/17/2019 17:12	WG1224819
Methyl tert-butyl ether	ND		0.00100	1	01/17/2019 17:12	WG1224819
Naphthalene	ND		0.0125	1	01/17/2019 17:12	WG1224819
n-Propylbenzene	ND		0.00500	1	01/17/2019 17:12	WG1224819
Styrene	ND		0.0125	1	01/17/2019 17:12	WG1224819
1,1,1,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 17:12	WG1224819
1,1,2,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 17:12	WG1224819
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	01/17/2019 17:12	WG1224819
Tetrachloroethene	ND		0.00250	1	01/17/2019 17:12	WG1224819
Toluene	ND		0.00500	1	01/17/2019 17:12	WG1224819
1,2,3-Trichlorobenzene	ND		0.00250	1	01/17/2019 17:12	WG1224819
1,2,4-Trichlorobenzene	ND		0.0125	1	01/17/2019 17:12	WG1224819
1,1,1-Trichloroethane	ND		0.00250	1	01/17/2019 17:12	WG1224819
1,1,2-Trichloroethane	ND		0.00250	1	01/17/2019 17:12	WG1224819
Trichloroethene	ND		0.00100	1	01/17/2019 17:12	WG1224819
Trichlorofluoromethane	ND		0.00250	1	01/17/2019 17:12	WG1224819
1,2,3-Trichloropropane	ND		0.0125	1	01/17/2019 17:12	WG1224819
1,2,4-Trimethylbenzene	ND		0.00500	1	01/17/2019 17:12	WG1224819
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.00500	1	01/17/2019 17:12	WG1224819
1,3,5-Trimethylbenzene	ND		0.00500	1	01/17/2019 17:12	WG1224819
Vinyl chloride	ND		0.00250	1	01/17/2019 17:12	WG1224819
Xylenes, Total	ND		0.00650	1	01/17/2019 17:12	WG1224819
(S) Toluene-d8	111		75.0-131		01/17/2019 17:12	WG1224819
(S) Dibromofluoromethane	111		65.0-129		01/17/2019 17:12	WG1224819
(S) 4-Bromofluorobenzene	105		67.0-138		01/17/2019 17:12	WG1224819

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

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	171		4.00	1	01/16/2019 17:09	WG1223272
C28-C40 Oil Range	253		4.00	1	01/16/2019 17:09	WG1223272
(S) o-Terphenyl	99.2		18.0-148		01/16/2019 17:09	WG1223272



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.4		1	01/15/2019 13:14	WG1223612

Wet Chemistry by Method 300.0

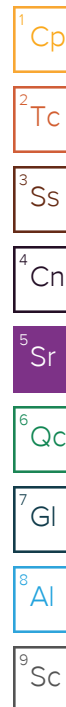
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	57.8		10.0	1	01/15/2019 15:15	WG1222712

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	01/15/2019 18:40	WG1223434
(S) a,a,a-Trifluorotoluene(FID)	101		77.0-120		01/15/2019 18:40	WG1223434

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Acetone	ND		0.0250	1	01/17/2019 17:31	WG1224819
Acrylonitrile	ND		0.0125	1	01/17/2019 17:31	WG1224819
Benzene	ND		0.00100	1	01/17/2019 17:31	WG1224819
Bromobenzene	ND		0.0125	1	01/17/2019 17:31	WG1224819
Bromodichloromethane	ND		0.00250	1	01/17/2019 17:31	WG1224819
Bromoform	ND		0.0250	1	01/17/2019 17:31	WG1224819
Bromomethane	ND		0.0125	1	01/17/2019 17:31	WG1224819
n-Butylbenzene	ND		0.0125	1	01/17/2019 17:31	WG1224819
sec-Butylbenzene	ND		0.0125	1	01/17/2019 17:31	WG1224819
tert-Butylbenzene	ND		0.00500	1	01/17/2019 17:31	WG1224819
Carbon tetrachloride	ND		0.00500	1	01/17/2019 17:31	WG1224819
Chlorobenzene	ND		0.00250	1	01/17/2019 17:31	WG1224819
Chlorodibromomethane	ND		0.00250	1	01/17/2019 17:31	WG1224819
Chloroethane	ND		0.00500	1	01/17/2019 17:31	WG1224819
Chloroform	ND		0.00250	1	01/17/2019 17:31	WG1224819
Chloromethane	ND		0.0125	1	01/17/2019 17:31	WG1224819
2-Chlorotoluene	ND		0.00250	1	01/17/2019 17:31	WG1224819
4-Chlorotoluene	ND		0.00500	1	01/17/2019 17:31	WG1224819
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	01/17/2019 17:31	WG1224819
1,2-Dibromoethane	ND		0.00250	1	01/17/2019 17:31	WG1224819
Dibromomethane	ND		0.00500	1	01/17/2019 17:31	WG1224819
1,2-Dichlorobenzene	ND		0.00500	1	01/17/2019 17:31	WG1224819
1,3-Dichlorobenzene	ND		0.00500	1	01/17/2019 17:31	WG1224819
1,4-Dichlorobenzene	ND		0.00500	1	01/17/2019 17:31	WG1224819
Dichlorodifluoromethane	ND		0.00250	1	01/17/2019 17:31	WG1224819
1,1-Dichloroethane	ND		0.00250	1	01/17/2019 17:31	WG1224819
1,2-Dichloroethane	ND		0.00250	1	01/17/2019 17:31	WG1224819
1,1-Dichloroethene	ND		0.00250	1	01/17/2019 17:31	WG1224819
cis-1,2-Dichloroethene	ND		0.00250	1	01/17/2019 17:31	WG1224819
trans-1,2-Dichloroethene	ND		0.00500	1	01/17/2019 17:31	WG1224819
1,2-Dichloropropane	ND		0.00500	1	01/17/2019 17:31	WG1224819
1,1-Dichloropropene	ND		0.00250	1	01/17/2019 17:31	WG1224819
1,3-Dichloropropane	ND		0.00500	1	01/17/2019 17:31	WG1224819
cis-1,3-Dichloropropene	ND		0.00250	1	01/17/2019 17:31	WG1224819
trans-1,3-Dichloropropene	ND		0.00500	1	01/17/2019 17:31	WG1224819
2,2-Dichloropropane	ND		0.00250	1	01/17/2019 17:31	WG1224819
Di-isopropyl ether	ND		0.00100	1	01/17/2019 17:31	WG1224819
Ethylbenzene	ND		0.00250	1	01/17/2019 17:31	WG1224819





Collected date/time: 01/10/19 10:22

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexachloro-1,3-butadiene	ND	J3	0.0250	1	01/17/2019 17:31	WG1224819
Isopropylbenzene	ND		0.00250	1	01/17/2019 17:31	WG1224819
p-Isopropyltoluene	ND		0.00500	1	01/17/2019 17:31	WG1224819
2-Butanone (MEK)	ND		0.0250	1	01/17/2019 17:31	WG1224819
Methylene Chloride	ND		0.0250	1	01/17/2019 17:31	WG1224819
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	01/17/2019 17:31	WG1224819
Methyl tert-butyl ether	ND		0.00100	1	01/17/2019 17:31	WG1224819
Naphthalene	ND		0.0125	1	01/17/2019 17:31	WG1224819
n-Propylbenzene	ND		0.00500	1	01/17/2019 17:31	WG1224819
Styrene	ND		0.0125	1	01/17/2019 17:31	WG1224819
1,1,1,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 17:31	WG1224819
1,1,2,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 17:31	WG1224819
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	01/17/2019 17:31	WG1224819
Tetrachloroethene	ND		0.00250	1	01/17/2019 17:31	WG1224819
Toluene	ND		0.00500	1	01/17/2019 17:31	WG1224819
1,2,3-Trichlorobenzene	ND		0.00250	1	01/17/2019 17:31	WG1224819
1,2,4-Trichlorobenzene	ND		0.0125	1	01/17/2019 17:31	WG1224819
1,1,1-Trichloroethane	ND		0.00250	1	01/17/2019 17:31	WG1224819
1,1,2-Trichloroethane	ND		0.00250	1	01/17/2019 17:31	WG1224819
Trichloroethene	ND		0.00100	1	01/17/2019 17:31	WG1224819
Trichlorofluoromethane	ND		0.00250	1	01/17/2019 17:31	WG1224819
1,2,3-Trichloropropane	ND		0.0125	1	01/17/2019 17:31	WG1224819
1,2,4-Trimethylbenzene	ND		0.00500	1	01/17/2019 17:31	WG1224819
1,2,3-Trimethylbenzene	ND	J4	0.00500	1	01/17/2019 17:31	WG1224819
1,3,5-Trimethylbenzene	ND		0.00500	1	01/17/2019 17:31	WG1224819
Vinyl chloride	ND		0.00250	1	01/17/2019 17:31	WG1224819
Xylenes, Total	ND		0.00650	1	01/17/2019 17:31	WG1224819
(S) Toluene-d8	113		75.0-131		01/17/2019 17:31	WG1224819
(S) Dibromofluoromethane	116		65.0-129		01/17/2019 17:31	WG1224819
(S) 4-Bromofluorobenzene	104		67.0-138		01/17/2019 17:31	WG1224819

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

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1280		40.0	10	01/17/2019 02:54	WG1223272
C28-C40 Oil Range	1030		40.0	10	01/17/2019 02:54	WG1223272
(S) o-Terphenyl	162	J1	18.0-148		01/17/2019 02:54	WG1223272

Sample Narrative:

L1060433-09 WG1223272: Surrogate failure due to matrix interference



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.8		1	01/15/2019 13:14	WG1223612

Wet Chemistry by Method 300.0

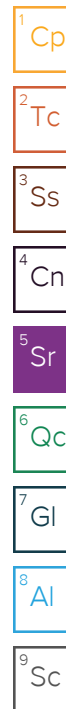
Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	43.8		10.0	1	01/15/2019 15:24	WG1222712

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPH (GC/FID) Low Fraction	ND		0.100	1	01/15/2019 19:03	WG1223434
(S) a,a,a-Trifluorotoluene(FID)	93.3		77.0-120		01/15/2019 19:03	WG1223434

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0250	1	01/17/2019 17:49	WG1224819
Acrylonitrile	ND		0.0125	1	01/17/2019 17:49	WG1224819
Benzene	ND		0.00100	1	01/17/2019 17:49	WG1224819
Bromobenzene	ND		0.0125	1	01/17/2019 17:49	WG1224819
Bromodichloromethane	ND		0.00250	1	01/17/2019 17:49	WG1224819
Bromoform	ND		0.0250	1	01/17/2019 17:49	WG1224819
Bromomethane	ND		0.0125	1	01/17/2019 17:49	WG1224819
n-Butylbenzene	ND		0.0125	1	01/17/2019 17:49	WG1224819
sec-Butylbenzene	ND		0.0125	1	01/17/2019 17:49	WG1224819
tert-Butylbenzene	ND		0.00500	1	01/17/2019 17:49	WG1224819
Carbon tetrachloride	ND		0.00500	1	01/17/2019 17:49	WG1224819
Chlorobenzene	ND		0.00250	1	01/17/2019 17:49	WG1224819
Chlorodibromomethane	ND		0.00250	1	01/17/2019 17:49	WG1224819
Chloroethane	ND		0.00500	1	01/17/2019 17:49	WG1224819
Chloroform	ND		0.00250	1	01/17/2019 17:49	WG1224819
Chloromethane	ND		0.0125	1	01/17/2019 17:49	WG1224819
2-Chlorotoluene	ND		0.00250	1	01/17/2019 17:49	WG1224819
4-Chlorotoluene	ND		0.00500	1	01/17/2019 17:49	WG1224819
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	01/17/2019 17:49	WG1224819
1,2-Dibromoethane	ND		0.00250	1	01/17/2019 17:49	WG1224819
Dibromomethane	ND		0.00500	1	01/17/2019 17:49	WG1224819
1,2-Dichlorobenzene	ND		0.00500	1	01/17/2019 17:49	WG1224819
1,3-Dichlorobenzene	ND		0.00500	1	01/17/2019 17:49	WG1224819
1,4-Dichlorobenzene	ND		0.00500	1	01/17/2019 17:49	WG1224819
Dichlorodifluoromethane	ND		0.00250	1	01/17/2019 17:49	WG1224819
1,1-Dichloroethane	ND		0.00250	1	01/17/2019 17:49	WG1224819
1,2-Dichloroethane	ND		0.00250	1	01/17/2019 17:49	WG1224819
1,1-Dichloroethene	ND		0.00250	1	01/17/2019 17:49	WG1224819
cis-1,2-Dichloroethene	ND		0.00250	1	01/17/2019 17:49	WG1224819
trans-1,2-Dichloroethene	ND		0.00500	1	01/17/2019 17:49	WG1224819
1,2-Dichloropropane	ND		0.00500	1	01/17/2019 17:49	WG1224819
1,1-Dichloropropene	ND		0.00250	1	01/17/2019 17:49	WG1224819
1,3-Dichloropropane	ND		0.00500	1	01/17/2019 17:49	WG1224819
cis-1,3-Dichloropropene	ND		0.00250	1	01/17/2019 17:49	WG1224819
trans-1,3-Dichloropropene	ND		0.00500	1	01/17/2019 17:49	WG1224819
2,2-Dichloropropane	ND		0.00250	1	01/17/2019 17:49	WG1224819
Di-isopropyl ether	ND		0.00100	1	01/17/2019 17:49	WG1224819
Ethylbenzene	ND		0.00250	1	01/17/2019 17:49	WG1224819





Collected date/time: 01/10/19 10:26

L1060433

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexachloro-1,3-butadiene	ND	<u>J3</u>	0.0250	1	01/17/2019 17:49	WG1224819
Isopropylbenzene	ND		0.00250	1	01/17/2019 17:49	WG1224819
p-Isopropyltoluene	ND		0.00500	1	01/17/2019 17:49	WG1224819
2-Butanone (MEK)	ND		0.0250	1	01/17/2019 17:49	WG1224819
Methylene Chloride	ND		0.0250	1	01/17/2019 17:49	WG1224819
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	01/17/2019 17:49	WG1224819
Methyl tert-butyl ether	ND		0.00100	1	01/17/2019 17:49	WG1224819
Naphthalene	ND		0.0125	1	01/17/2019 17:49	WG1224819
n-Propylbenzene	ND		0.00500	1	01/17/2019 17:49	WG1224819
Styrene	ND		0.0125	1	01/17/2019 17:49	WG1224819
1,1,1,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 17:49	WG1224819
1,1,2,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 17:49	WG1224819
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	01/17/2019 17:49	WG1224819
Tetrachloroethene	ND		0.00250	1	01/17/2019 17:49	WG1224819
Toluene	ND		0.00500	1	01/17/2019 17:49	WG1224819
1,2,3-Trichlorobenzene	ND		0.00250	1	01/17/2019 17:49	WG1224819
1,2,4-Trichlorobenzene	ND		0.0125	1	01/17/2019 17:49	WG1224819
1,1,1-Trichloroethane	ND		0.00250	1	01/17/2019 17:49	WG1224819
1,1,2-Trichloroethane	ND		0.00250	1	01/17/2019 17:49	WG1224819
Trichloroethene	ND		0.00100	1	01/17/2019 17:49	WG1224819
Trichlorofluoromethane	ND		0.00250	1	01/17/2019 17:49	WG1224819
1,2,3-Trichloropropane	ND		0.0125	1	01/17/2019 17:49	WG1224819
1,2,4-Trimethylbenzene	ND		0.00500	1	01/17/2019 17:49	WG1224819
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.00500	1	01/17/2019 17:49	WG1224819
1,3,5-Trimethylbenzene	ND		0.00500	1	01/17/2019 17:49	WG1224819
Vinyl chloride	ND		0.00250	1	01/17/2019 17:49	WG1224819
Xylenes, Total	ND		0.00650	1	01/17/2019 17:49	WG1224819
(S) Toluene-d8	115		75.0-131		01/17/2019 17:49	WG1224819
(S) Dibromofluoromethane	121		65.0-129		01/17/2019 17:49	WG1224819
(S) 4-Bromofluorobenzene	101		67.0-138		01/17/2019 17:49	WG1224819

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

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2560		200	50	01/17/2019 00:43	WG1223272
C28-C40 Oil Range	2210		200	50	01/17/2019 00:43	WG1223272
(S) o-Terphenyl	309	<u>J7</u>	18.0-148		01/17/2019 00:43	WG1223272



Collected date/time: 01/10/19 10:32

L1060433

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.3		1	01/15/2019 13:14	WG1223612

Wet Chemistry by Method 300.0

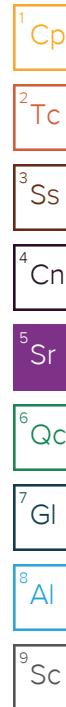
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	37.7		10.0	1	01/15/2019 15:33	WG1222712

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	01/15/2019 19:27	WG1223434
(S) a,a,a-Trifluorotoluene(FID)	91.2		77.0-120		01/15/2019 19:27	WG1223434

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Acetone	ND		0.0250	1	01/17/2019 18:08	WG1224819
Acrylonitrile	ND		0.0125	1	01/17/2019 18:08	WG1224819
Benzene	ND		0.00100	1	01/17/2019 18:08	WG1224819
Bromobenzene	ND		0.0125	1	01/17/2019 18:08	WG1224819
Bromodichloromethane	ND		0.00250	1	01/17/2019 18:08	WG1224819
Bromoform	ND		0.0250	1	01/17/2019 18:08	WG1224819
Bromomethane	ND		0.0125	1	01/17/2019 18:08	WG1224819
n-Butylbenzene	ND		0.0125	1	01/17/2019 18:08	WG1224819
sec-Butylbenzene	ND		0.0125	1	01/17/2019 18:08	WG1224819
tert-Butylbenzene	ND		0.00500	1	01/17/2019 18:08	WG1224819
Carbon tetrachloride	ND		0.00500	1	01/17/2019 18:08	WG1224819
Chlorobenzene	ND		0.00250	1	01/17/2019 18:08	WG1224819
Chlorodibromomethane	ND		0.00250	1	01/17/2019 18:08	WG1224819
Chloroethane	ND		0.00500	1	01/17/2019 18:08	WG1224819
Chloroform	ND		0.00250	1	01/17/2019 18:08	WG1224819
Chloromethane	ND		0.0125	1	01/17/2019 18:08	WG1224819
2-Chlorotoluene	ND		0.00250	1	01/17/2019 18:08	WG1224819
4-Chlorotoluene	ND		0.00500	1	01/17/2019 18:08	WG1224819
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	01/17/2019 18:08	WG1224819
1,2-Dibromoethane	ND		0.00250	1	01/17/2019 18:08	WG1224819
Dibromomethane	ND		0.00500	1	01/17/2019 18:08	WG1224819
1,2-Dichlorobenzene	ND		0.00500	1	01/17/2019 18:08	WG1224819
1,3-Dichlorobenzene	ND		0.00500	1	01/17/2019 18:08	WG1224819
1,4-Dichlorobenzene	ND		0.00500	1	01/17/2019 18:08	WG1224819
Dichlorodifluoromethane	ND		0.00250	1	01/17/2019 18:08	WG1224819
1,1-Dichloroethane	ND		0.00250	1	01/17/2019 18:08	WG1224819
1,2-Dichloroethane	ND		0.00250	1	01/17/2019 18:08	WG1224819
1,1-Dichloroethene	ND		0.00250	1	01/17/2019 18:08	WG1224819
cis-1,2-Dichloroethene	ND		0.00250	1	01/17/2019 18:08	WG1224819
trans-1,2-Dichloroethene	ND		0.00500	1	01/17/2019 18:08	WG1224819
1,2-Dichloropropane	ND		0.00500	1	01/17/2019 18:08	WG1224819
1,1-Dichloropropene	ND		0.00250	1	01/17/2019 18:08	WG1224819
1,3-Dichloropropane	ND		0.00500	1	01/17/2019 18:08	WG1224819
cis-1,3-Dichloropropene	ND		0.00250	1	01/17/2019 18:08	WG1224819
trans-1,3-Dichloropropene	ND		0.00500	1	01/17/2019 18:08	WG1224819
2,2-Dichloropropane	ND		0.00250	1	01/17/2019 18:08	WG1224819
Di-isopropyl ether	ND		0.00100	1	01/17/2019 18:08	WG1224819
Ethylbenzene	ND		0.00250	1	01/17/2019 18:08	WG1224819





Collected date/time: 01/10/19 10:32

L1060433

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexachloro-1,3-butadiene	ND	<u>J3</u>	0.0250	1	01/17/2019 18:08	WG1224819
Isopropylbenzene	ND		0.00250	1	01/17/2019 18:08	WG1224819
p-Isopropyltoluene	ND		0.00500	1	01/17/2019 18:08	WG1224819
2-Butanone (MEK)	ND		0.0250	1	01/17/2019 18:08	WG1224819
Methylene Chloride	ND		0.0250	1	01/17/2019 18:08	WG1224819
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	01/17/2019 18:08	WG1224819
Methyl tert-butyl ether	ND		0.00100	1	01/17/2019 18:08	WG1224819
Naphthalene	ND		0.0125	1	01/17/2019 18:08	WG1224819
n-Propylbenzene	ND		0.00500	1	01/17/2019 18:08	WG1224819
Styrene	ND		0.0125	1	01/17/2019 18:08	WG1224819
1,1,1,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 18:08	WG1224819
1,1,2,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 18:08	WG1224819
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	01/17/2019 18:08	WG1224819
Tetrachloroethene	ND		0.00250	1	01/17/2019 18:08	WG1224819
Toluene	ND		0.00500	1	01/17/2019 18:08	WG1224819
1,2,3-Trichlorobenzene	ND		0.00250	1	01/17/2019 18:08	WG1224819
1,2,4-Trichlorobenzene	ND		0.0125	1	01/17/2019 18:08	WG1224819
1,1,1-Trichloroethane	ND		0.00250	1	01/17/2019 18:08	WG1224819
1,1,2-Trichloroethane	ND		0.00250	1	01/17/2019 18:08	WG1224819
Trichloroethene	ND		0.00100	1	01/17/2019 18:08	WG1224819
Trichlorofluoromethane	ND		0.00250	1	01/17/2019 18:08	WG1224819
1,2,3-Trichloropropane	ND		0.0125	1	01/17/2019 18:08	WG1224819
1,2,4-Trimethylbenzene	ND		0.00500	1	01/17/2019 18:08	WG1224819
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.00500	1	01/17/2019 18:08	WG1224819
1,3,5-Trimethylbenzene	ND		0.00500	1	01/17/2019 18:08	WG1224819
Vinyl chloride	ND		0.00250	1	01/17/2019 18:08	WG1224819
Xylenes, Total	ND		0.00650	1	01/17/2019 18:08	WG1224819
(S) Toluene-d8	111		75.0-131		01/17/2019 18:08	WG1224819
(S) Dibromofluoromethane	123		65.0-129		01/17/2019 18:08	WG1224819
(S) 4-Bromofluorobenzene	102		67.0-138		01/17/2019 18:08	WG1224819

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

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	9560		400	100	01/16/2019 22:04	WG1223272
C28-C40 Oil Range	10200		400	100	01/16/2019 22:04	WG1223272
(S) o-Terphenyl	0.000	<u>J7</u>	18.0-148		01/16/2019 22:04	WG1223272



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.9		1	01/15/2019 13:14	WG1223612

Wet Chemistry by Method 300.0

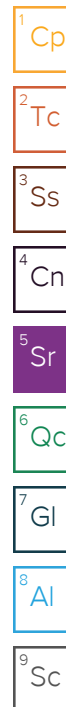
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	43.6		10.0	1	01/15/2019 15:42	WG1222712

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	01/15/2019 19:50	WG1223434
(S) a,a,a-Trifluorotoluene(FID)	96.9		77.0-120		01/15/2019 19:50	WG1223434

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Acetone	ND		0.0250	1	01/17/2019 18:26	WG1224819
Acrylonitrile	ND		0.0125	1	01/17/2019 18:26	WG1224819
Benzene	ND		0.00100	1	01/17/2019 18:26	WG1224819
Bromobenzene	ND		0.0125	1	01/17/2019 18:26	WG1224819
Bromodichloromethane	ND		0.00250	1	01/17/2019 18:26	WG1224819
Bromoform	ND		0.0250	1	01/17/2019 18:26	WG1224819
Bromomethane	ND		0.0125	1	01/17/2019 18:26	WG1224819
n-Butylbenzene	ND		0.0125	1	01/17/2019 18:26	WG1224819
sec-Butylbenzene	ND		0.0125	1	01/17/2019 18:26	WG1224819
tert-Butylbenzene	ND		0.00500	1	01/17/2019 18:26	WG1224819
Carbon tetrachloride	ND		0.00500	1	01/17/2019 18:26	WG1224819
Chlorobenzene	ND		0.00250	1	01/17/2019 18:26	WG1224819
Chlorodibromomethane	ND		0.00250	1	01/17/2019 18:26	WG1224819
Chloroethane	ND		0.00500	1	01/17/2019 18:26	WG1224819
Chloroform	ND		0.00250	1	01/17/2019 18:26	WG1224819
Chloromethane	ND		0.0125	1	01/17/2019 18:26	WG1224819
2-Chlorotoluene	ND		0.00250	1	01/17/2019 18:26	WG1224819
4-Chlorotoluene	ND		0.00500	1	01/17/2019 18:26	WG1224819
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	01/17/2019 18:26	WG1224819
1,2-Dibromoethane	ND		0.00250	1	01/17/2019 18:26	WG1224819
Dibromomethane	ND		0.00500	1	01/17/2019 18:26	WG1224819
1,2-Dichlorobenzene	ND		0.00500	1	01/17/2019 18:26	WG1224819
1,3-Dichlorobenzene	ND		0.00500	1	01/17/2019 18:26	WG1224819
1,4-Dichlorobenzene	ND		0.00500	1	01/17/2019 18:26	WG1224819
Dichlorodifluoromethane	ND		0.00250	1	01/17/2019 18:26	WG1224819
1,1-Dichloroethane	ND		0.00250	1	01/17/2019 18:26	WG1224819
1,2-Dichloroethane	ND		0.00250	1	01/17/2019 18:26	WG1224819
1,1-Dichloroethene	ND		0.00250	1	01/17/2019 18:26	WG1224819
cis-1,2-Dichloroethene	ND		0.00250	1	01/17/2019 18:26	WG1224819
trans-1,2-Dichloroethene	ND		0.00500	1	01/17/2019 18:26	WG1224819
1,2-Dichloropropane	ND		0.00500	1	01/17/2019 18:26	WG1224819
1,1-Dichloropropene	ND		0.00250	1	01/17/2019 18:26	WG1224819
1,3-Dichloropropane	ND		0.00500	1	01/17/2019 18:26	WG1224819
cis-1,3-Dichloropropene	ND		0.00250	1	01/17/2019 18:26	WG1224819
trans-1,3-Dichloropropene	ND		0.00500	1	01/17/2019 18:26	WG1224819
2,2-Dichloropropane	ND		0.00250	1	01/17/2019 18:26	WG1224819
Di-isopropyl ether	ND		0.00100	1	01/17/2019 18:26	WG1224819
Ethylbenzene	ND		0.00250	1	01/17/2019 18:26	WG1224819





Collected date/time: 01/10/19 10:37

L1060433

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexachloro-1,3-butadiene	ND	<u>J3</u>	0.0250	1	01/17/2019 18:26	WG1224819
Isopropylbenzene	ND		0.00250	1	01/17/2019 18:26	WG1224819
p-Isopropyltoluene	ND		0.00500	1	01/17/2019 18:26	WG1224819
2-Butanone (MEK)	ND		0.0250	1	01/17/2019 18:26	WG1224819
Methylene Chloride	ND		0.0250	1	01/17/2019 18:26	WG1224819
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	01/17/2019 18:26	WG1224819
Methyl tert-butyl ether	ND		0.00100	1	01/17/2019 18:26	WG1224819
Naphthalene	ND		0.0125	1	01/17/2019 18:26	WG1224819
n-Propylbenzene	ND		0.00500	1	01/17/2019 18:26	WG1224819
Styrene	ND		0.0125	1	01/17/2019 18:26	WG1224819
1,1,1,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 18:26	WG1224819
1,1,2,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 18:26	WG1224819
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	01/17/2019 18:26	WG1224819
Tetrachloroethene	ND		0.00250	1	01/17/2019 18:26	WG1224819
Toluene	ND		0.00500	1	01/17/2019 18:26	WG1224819
1,2,3-Trichlorobenzene	ND		0.00250	1	01/17/2019 18:26	WG1224819
1,2,4-Trichlorobenzene	ND		0.0125	1	01/17/2019 18:26	WG1224819
1,1,1-Trichloroethane	ND		0.00250	1	01/17/2019 18:26	WG1224819
1,1,2-Trichloroethane	ND		0.00250	1	01/17/2019 18:26	WG1224819
Trichloroethene	ND		0.00100	1	01/17/2019 18:26	WG1224819
Trichlorofluoromethane	ND		0.00250	1	01/17/2019 18:26	WG1224819
1,2,3-Trichloropropane	ND		0.0125	1	01/17/2019 18:26	WG1224819
1,2,4-Trimethylbenzene	ND		0.00500	1	01/17/2019 18:26	WG1224819
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.00500	1	01/17/2019 18:26	WG1224819
1,3,5-Trimethylbenzene	ND		0.00500	1	01/17/2019 18:26	WG1224819
Vinyl chloride	ND		0.00250	1	01/17/2019 18:26	WG1224819
Xylenes, Total	ND		0.00650	1	01/17/2019 18:26	WG1224819
(S) Toluene-d8	111		75.0-131		01/17/2019 18:26	WG1224819
(S) Dibromofluoromethane	117		65.0-129		01/17/2019 18:26	WG1224819
(S) 4-Bromofluorobenzene	106		67.0-138		01/17/2019 18:26	WG1224819

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

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	4620		200	50	01/17/2019 00:59	WG1223272
C28-C40 Oil Range	4500		200	50	01/17/2019 00:59	WG1223272
(S) o-Terphenyl	147	<u>J7</u>	18.0-148		01/17/2019 00:59	WG1223272



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.6		1	01/15/2019 13:14	WG1223612

Wet Chemistry by Method 300.0

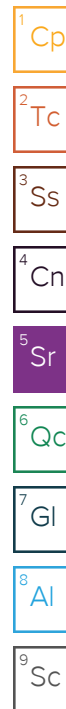
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	42.4		10.0	1	01/15/2019 15:50	WG1222712

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	01/15/2019 20:11	WG1223434
(S) a,a,a-Trifluorotoluene(FID)	104		77.0-120		01/15/2019 20:11	WG1223434

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Acetone	ND		0.0250	1	01/17/2019 18:45	WG1224819
Acrylonitrile	ND		0.0125	1	01/17/2019 18:45	WG1224819
Benzene	ND	J3	0.00100	1	01/17/2019 18:45	WG1224819
Bromobenzene	ND		0.0125	1	01/17/2019 18:45	WG1224819
Bromodichloromethane	ND		0.00250	1	01/17/2019 18:45	WG1224819
Bromoform	ND		0.0250	1	01/17/2019 18:45	WG1224819
Bromomethane	ND	J3 J5	0.0125	1	01/17/2019 18:45	WG1224819
n-Butylbenzene	ND	J3	0.0125	1	01/17/2019 18:45	WG1224819
sec-Butylbenzene	ND	J3	0.0125	1	01/17/2019 18:45	WG1224819
tert-Butylbenzene	ND	J3	0.00500	1	01/17/2019 18:45	WG1224819
Carbon tetrachloride	ND	J3	0.00500	1	01/17/2019 18:45	WG1224819
Chlorobenzene	ND	J3	0.00250	1	01/17/2019 18:45	WG1224819
Chlorodibromomethane	ND		0.00250	1	01/17/2019 18:45	WG1224819
Chloroethane	ND	J3 J5	0.00500	1	01/17/2019 18:45	WG1224819
Chloroform	ND	J3	0.00250	1	01/17/2019 18:45	WG1224819
Chloromethane	ND	J3	0.0125	1	01/17/2019 18:45	WG1224819
2-Chlorotoluene	ND	J3	0.00250	1	01/17/2019 18:45	WG1224819
4-Chlorotoluene	ND	J3	0.00500	1	01/17/2019 18:45	WG1224819
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	01/17/2019 18:45	WG1224819
1,2-Dibromoethane	ND		0.00250	1	01/17/2019 18:45	WG1224819
Dibromomethane	ND		0.00500	1	01/17/2019 18:45	WG1224819
1,2-Dichlorobenzene	ND		0.00500	1	01/17/2019 18:45	WG1224819
1,3-Dichlorobenzene	ND	J3	0.00500	1	01/17/2019 18:45	WG1224819
1,4-Dichlorobenzene	ND		0.00500	1	01/17/2019 18:45	WG1224819
Dichlorodifluoromethane	ND	J3	0.00250	1	01/17/2019 18:45	WG1224819
1,1-Dichloroethane	ND	J3	0.00250	1	01/17/2019 18:45	WG1224819
1,2-Dichloroethane	ND		0.00250	1	01/17/2019 18:45	WG1224819
1,1-Dichloroethene	ND	J3	0.00250	1	01/17/2019 18:45	WG1224819
cis-1,2-Dichloroethene	ND	J3	0.00250	1	01/17/2019 18:45	WG1224819
trans-1,2-Dichloroethene	ND	J3	0.00500	1	01/17/2019 18:45	WG1224819
1,2-Dichloropropane	ND		0.00500	1	01/17/2019 18:45	WG1224819
1,1-Dichloropropene	ND	J3	0.00250	1	01/17/2019 18:45	WG1224819
1,3-Dichloropropane	ND		0.00500	1	01/17/2019 18:45	WG1224819
cis-1,3-Dichloropropene	ND		0.00250	1	01/17/2019 18:45	WG1224819
trans-1,3-Dichloropropene	ND		0.00500	1	01/17/2019 18:45	WG1224819
2,2-Dichloropropane	ND	J3	0.00250	1	01/17/2019 18:45	WG1224819
Di-isopropyl ether	ND		0.00100	1	01/17/2019 18:45	WG1224819
Ethylbenzene	ND	J3	0.00250	1	01/17/2019 18:45	WG1224819





Collected date/time: 01/10/19 12:09

L1060433

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexachloro-1,3-butadiene	ND	<u>J3</u>	0.0250	1	01/17/2019 18:45	WG1224819
Isopropylbenzene	ND	<u>J3</u>	0.00250	1	01/17/2019 18:45	WG1224819
p-Isopropyltoluene	ND	<u>J3</u>	0.00500	1	01/17/2019 18:45	WG1224819
2-Butanone (MEK)	ND		0.0250	1	01/17/2019 18:45	WG1224819
Methylene Chloride	ND		0.0250	1	01/17/2019 18:45	WG1224819
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	01/17/2019 18:45	WG1224819
Methyl tert-butyl ether	ND		0.00100	1	01/17/2019 18:45	WG1224819
Naphthalene	ND		0.0125	1	01/17/2019 18:45	WG1224819
n-Propylbenzene	ND	<u>J3</u>	0.00500	1	01/17/2019 18:45	WG1224819
Styrene	ND		0.0125	1	01/17/2019 18:45	WG1224819
1,1,1,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 18:45	WG1224819
1,1,2,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 18:45	WG1224819
1,1,2-Trichlorotrifluoroethane	ND	<u>J3</u>	0.00250	1	01/17/2019 18:45	WG1224819
Tetrachloroethene	ND	<u>J3</u>	0.00250	1	01/17/2019 18:45	WG1224819
Toluene	ND	<u>J3</u>	0.00500	1	01/17/2019 18:45	WG1224819
1,2,3-Trichlorobenzene	ND		0.00250	1	01/17/2019 18:45	WG1224819
1,2,4-Trichlorobenzene	ND		0.0125	1	01/17/2019 18:45	WG1224819
1,1,1-Trichloroethane	ND	<u>J3</u>	0.00250	1	01/17/2019 18:45	WG1224819
1,1,2-Trichloroethane	ND		0.00250	1	01/17/2019 18:45	WG1224819
Trichloroethene	ND	<u>J3</u>	0.00100	1	01/17/2019 18:45	WG1224819
Trichlorofluoromethane	ND	<u>J3 J5</u>	0.00250	1	01/17/2019 18:45	WG1224819
1,2,3-Trichloropropane	ND		0.0125	1	01/17/2019 18:45	WG1224819
1,2,4-Trimethylbenzene	ND	<u>J3</u>	0.00500	1	01/17/2019 18:45	WG1224819
1,2,3-Trimethylbenzene	ND	<u>J3 J4</u>	0.00500	1	01/17/2019 18:45	WG1224819
1,3,5-Trimethylbenzene	ND	<u>J3</u>	0.00500	1	01/17/2019 18:45	WG1224819
Vinyl chloride	ND	<u>J3</u>	0.00250	1	01/17/2019 18:45	WG1224819
Xylenes, Total	ND	<u>J3</u>	0.00650	1	01/17/2019 18:45	WG1224819
(S) Toluene-d8	115		75.0-131		01/17/2019 18:45	WG1224819
(S) Dibromofluoromethane	113		65.0-129		01/17/2019 18:45	WG1224819
(S) 4-Bromofluorobenzene	111		67.0-138		01/17/2019 18:45	WG1224819

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		80.0	20	01/17/2019 11:41	WG1223272
C28-C40 Oil Range	129		80.0	20	01/17/2019 11:41	WG1223272
(S) o-Terphenyl	122	<u>J7</u>	18.0-148		01/17/2019 11:41	WG1223272



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.8		1	01/15/2019 13:14	WG1223612

Wet Chemistry by Method 300.0

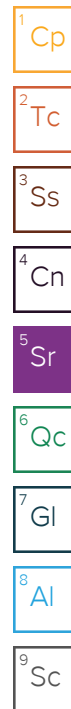
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	144		10.0	1	01/15/2019 15:59	WG1222712

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	01/15/2019 20:34	WG1223434
(S) a,a,a-Trifluorotoluene(FID)	104		77.0-120		01/15/2019 20:34	WG1223434

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Acetone	ND		0.0250	1	01/17/2019 19:03	WG1224819
Acrylonitrile	ND		0.0125	1	01/17/2019 19:03	WG1224819
Benzene	ND		0.00100	1	01/17/2019 19:03	WG1224819
Bromobenzene	ND		0.0125	1	01/17/2019 19:03	WG1224819
Bromodichloromethane	ND		0.00250	1	01/17/2019 19:03	WG1224819
Bromoform	ND		0.0250	1	01/17/2019 19:03	WG1224819
Bromomethane	ND		0.0125	1	01/17/2019 19:03	WG1224819
n-Butylbenzene	ND		0.0125	1	01/17/2019 19:03	WG1224819
sec-Butylbenzene	ND		0.0125	1	01/17/2019 19:03	WG1224819
tert-Butylbenzene	ND		0.00500	1	01/17/2019 19:03	WG1224819
Carbon tetrachloride	ND		0.00500	1	01/17/2019 19:03	WG1224819
Chlorobenzene	ND		0.00250	1	01/17/2019 19:03	WG1224819
Chlorodibromomethane	ND		0.00250	1	01/17/2019 19:03	WG1224819
Chloroethane	ND		0.00500	1	01/17/2019 19:03	WG1224819
Chloroform	ND		0.00250	1	01/17/2019 19:03	WG1224819
Chloromethane	ND		0.0125	1	01/17/2019 19:03	WG1224819
2-Chlorotoluene	ND		0.00250	1	01/17/2019 19:03	WG1224819
4-Chlorotoluene	ND		0.00500	1	01/17/2019 19:03	WG1224819
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	01/17/2019 19:03	WG1224819
1,2-Dibromoethane	ND		0.00250	1	01/17/2019 19:03	WG1224819
Dibromomethane	ND		0.00500	1	01/17/2019 19:03	WG1224819
1,2-Dichlorobenzene	ND		0.00500	1	01/17/2019 19:03	WG1224819
1,3-Dichlorobenzene	ND		0.00500	1	01/17/2019 19:03	WG1224819
1,4-Dichlorobenzene	ND		0.00500	1	01/17/2019 19:03	WG1224819
Dichlorodifluoromethane	ND		0.00250	1	01/17/2019 19:03	WG1224819
1,1-Dichloroethane	ND		0.00250	1	01/17/2019 19:03	WG1224819
1,2-Dichloroethane	ND		0.00250	1	01/17/2019 19:03	WG1224819
1,1-Dichloroethene	ND		0.00250	1	01/17/2019 19:03	WG1224819
cis-1,2-Dichloroethene	ND		0.00250	1	01/17/2019 19:03	WG1224819
trans-1,2-Dichloroethene	ND		0.00500	1	01/17/2019 19:03	WG1224819
1,2-Dichloropropane	ND		0.00500	1	01/17/2019 19:03	WG1224819
1,1-Dichloropropene	ND		0.00250	1	01/17/2019 19:03	WG1224819
1,3-Dichloropropane	ND		0.00500	1	01/17/2019 19:03	WG1224819
cis-1,3-Dichloropropene	ND		0.00250	1	01/17/2019 19:03	WG1224819
trans-1,3-Dichloropropene	ND		0.00500	1	01/17/2019 19:03	WG1224819
2,2-Dichloropropane	ND		0.00250	1	01/17/2019 19:03	WG1224819
Di-isopropyl ether	ND		0.00100	1	01/17/2019 19:03	WG1224819
Ethylbenzene	ND		0.00250	1	01/17/2019 19:03	WG1224819





Collected date/time: 01/10/19 12:15

L1060433

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexachloro-1,3-butadiene	ND	<u>J3</u>	0.0250	1	01/17/2019 19:03	WG1224819
Isopropylbenzene	ND		0.00250	1	01/17/2019 19:03	WG1224819
p-Isopropyltoluene	ND		0.00500	1	01/17/2019 19:03	WG1224819
2-Butanone (MEK)	ND		0.0250	1	01/17/2019 19:03	WG1224819
Methylene Chloride	ND		0.0250	1	01/17/2019 19:03	WG1224819
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	01/17/2019 19:03	WG1224819
Methyl tert-butyl ether	ND		0.00100	1	01/17/2019 19:03	WG1224819
Naphthalene	ND		0.0125	1	01/17/2019 19:03	WG1224819
n-Propylbenzene	ND		0.00500	1	01/17/2019 19:03	WG1224819
Styrene	ND		0.0125	1	01/17/2019 19:03	WG1224819
1,1,1,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 19:03	WG1224819
1,1,2,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 19:03	WG1224819
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	01/17/2019 19:03	WG1224819
Tetrachloroethene	ND		0.00250	1	01/17/2019 19:03	WG1224819
Toluene	ND		0.00500	1	01/17/2019 19:03	WG1224819
1,2,3-Trichlorobenzene	ND		0.00250	1	01/17/2019 19:03	WG1224819
1,2,4-Trichlorobenzene	ND		0.0125	1	01/17/2019 19:03	WG1224819
1,1,1-Trichloroethane	ND		0.00250	1	01/17/2019 19:03	WG1224819
1,1,2-Trichloroethane	ND		0.00250	1	01/17/2019 19:03	WG1224819
Trichloroethene	ND		0.00100	1	01/17/2019 19:03	WG1224819
Trichlorofluoromethane	ND		0.00250	1	01/17/2019 19:03	WG1224819
1,2,3-Trichloropropane	ND		0.0125	1	01/17/2019 19:03	WG1224819
1,2,4-Trimethylbenzene	ND		0.00500	1	01/17/2019 19:03	WG1224819
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.00500	1	01/17/2019 19:03	WG1224819
1,3,5-Trimethylbenzene	ND		0.00500	1	01/17/2019 19:03	WG1224819
Vinyl chloride	ND		0.00250	1	01/17/2019 19:03	WG1224819
Xylenes, Total	ND		0.00650	1	01/17/2019 19:03	WG1224819
(S) Toluene-d8	110		75.0-131		01/17/2019 19:03	WG1224819
(S) Dibromofluoromethane	113		65.0-129		01/17/2019 19:03	WG1224819
(S) 4-Bromofluorobenzene	103		67.0-138		01/17/2019 19:03	WG1224819

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

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	25.5		4.00	1	01/16/2019 18:41	WG1223272
C28-C40 Oil Range	36.6		4.00	1	01/16/2019 18:41	WG1223272
(S) o-Terphenyl	91.9		18.0-148		01/16/2019 18:41	WG1223272



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.5		1	01/15/2019 13:01	WG1223613

Wet Chemistry by Method 300.0

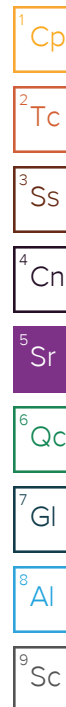
Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Chloride	44.2		10.0	1	01/15/2019 16:26	WG1222712

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	01/15/2019 20:56	WG1223434
(S) a,a,a-Trifluorotoluene(FID)	96.4		77.0-120		01/15/2019 20:56	WG1223434

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Acetone	ND		0.0250	1	01/17/2019 19:22	WG1224819
Acrylonitrile	ND		0.0125	1	01/17/2019 19:22	WG1224819
Benzene	ND		0.00100	1	01/17/2019 19:22	WG1224819
Bromobenzene	ND		0.0125	1	01/17/2019 19:22	WG1224819
Bromodichloromethane	ND		0.00250	1	01/17/2019 19:22	WG1224819
Bromoform	ND		0.0250	1	01/17/2019 19:22	WG1224819
Bromomethane	ND		0.0125	1	01/17/2019 19:22	WG1224819
n-Butylbenzene	ND		0.0125	1	01/17/2019 19:22	WG1224819
sec-Butylbenzene	ND		0.0125	1	01/17/2019 19:22	WG1224819
tert-Butylbenzene	ND		0.00500	1	01/17/2019 19:22	WG1224819
Carbon tetrachloride	ND		0.00500	1	01/17/2019 19:22	WG1224819
Chlorobenzene	ND		0.00250	1	01/17/2019 19:22	WG1224819
Chlorodibromomethane	ND		0.00250	1	01/17/2019 19:22	WG1224819
Chloroethane	ND		0.00500	1	01/17/2019 19:22	WG1224819
Chloroform	ND		0.00250	1	01/17/2019 19:22	WG1224819
Chloromethane	ND		0.0125	1	01/17/2019 19:22	WG1224819
2-Chlorotoluene	ND		0.00250	1	01/17/2019 19:22	WG1224819
4-Chlorotoluene	ND		0.00500	1	01/17/2019 19:22	WG1224819
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	01/17/2019 19:22	WG1224819
1,2-Dibromoethane	ND		0.00250	1	01/17/2019 19:22	WG1224819
Dibromomethane	ND		0.00500	1	01/17/2019 19:22	WG1224819
1,2-Dichlorobenzene	ND		0.00500	1	01/17/2019 19:22	WG1224819
1,3-Dichlorobenzene	ND		0.00500	1	01/17/2019 19:22	WG1224819
1,4-Dichlorobenzene	ND		0.00500	1	01/17/2019 19:22	WG1224819
Dichlorodifluoromethane	ND		0.00250	1	01/17/2019 19:22	WG1224819
1,1-Dichloroethane	ND		0.00250	1	01/17/2019 19:22	WG1224819
1,2-Dichloroethane	ND		0.00250	1	01/17/2019 19:22	WG1224819
1,1-Dichloroethene	ND		0.00250	1	01/17/2019 19:22	WG1224819
cis-1,2-Dichloroethene	ND		0.00250	1	01/17/2019 19:22	WG1224819
trans-1,2-Dichloroethene	ND		0.00500	1	01/17/2019 19:22	WG1224819
1,2-Dichloropropane	ND		0.00500	1	01/17/2019 19:22	WG1224819
1,1-Dichloropropene	ND		0.00250	1	01/17/2019 19:22	WG1224819
1,3-Dichloropropane	ND		0.00500	1	01/17/2019 19:22	WG1224819
cis-1,3-Dichloropropene	ND		0.00250	1	01/17/2019 19:22	WG1224819
trans-1,3-Dichloropropene	ND		0.00500	1	01/17/2019 19:22	WG1224819
2,2-Dichloropropane	ND		0.00250	1	01/17/2019 19:22	WG1224819
Di-isopropyl ether	ND		0.00100	1	01/17/2019 19:22	WG1224819
Ethylbenzene	ND		0.00250	1	01/17/2019 19:22	WG1224819





Collected date/time: 01/10/19 12:19

L1060433

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexachloro-1,3-butadiene	ND	<u>J3</u>	0.0250	1	01/17/2019 19:22	WG1224819
Isopropylbenzene	ND		0.00250	1	01/17/2019 19:22	WG1224819
p-Isopropyltoluene	ND		0.00500	1	01/17/2019 19:22	WG1224819
2-Butanone (MEK)	ND		0.0250	1	01/17/2019 19:22	WG1224819
Methylene Chloride	ND		0.0250	1	01/17/2019 19:22	WG1224819
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	01/17/2019 19:22	WG1224819
Methyl tert-butyl ether	ND		0.00100	1	01/17/2019 19:22	WG1224819
Naphthalene	ND		0.0125	1	01/17/2019 19:22	WG1224819
n-Propylbenzene	ND		0.00500	1	01/17/2019 19:22	WG1224819
Styrene	ND		0.0125	1	01/17/2019 19:22	WG1224819
1,1,1,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 19:22	WG1224819
1,1,2,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 19:22	WG1224819
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	01/17/2019 19:22	WG1224819
Tetrachloroethene	ND		0.00250	1	01/17/2019 19:22	WG1224819
Toluene	ND		0.00500	1	01/17/2019 19:22	WG1224819
1,2,3-Trichlorobenzene	ND		0.00250	1	01/17/2019 19:22	WG1224819
1,2,4-Trichlorobenzene	ND		0.0125	1	01/17/2019 19:22	WG1224819
1,1,1-Trichloroethane	ND		0.00250	1	01/17/2019 19:22	WG1224819
1,1,2-Trichloroethane	ND		0.00250	1	01/17/2019 19:22	WG1224819
Trichloroethene	ND		0.00100	1	01/17/2019 19:22	WG1224819
Trichlorofluoromethane	ND		0.00250	1	01/17/2019 19:22	WG1224819
1,2,3-Trichloropropane	ND		0.0125	1	01/17/2019 19:22	WG1224819
1,2,4-Trimethylbenzene	ND		0.00500	1	01/17/2019 19:22	WG1224819
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.00500	1	01/17/2019 19:22	WG1224819
1,3,5-Trimethylbenzene	ND		0.00500	1	01/17/2019 19:22	WG1224819
Vinyl chloride	ND		0.00250	1	01/17/2019 19:22	WG1224819
Xylenes, Total	ND		0.00650	1	01/17/2019 19:22	WG1224819
(S) Toluene-d8	111		75.0-131		01/17/2019 19:22	WG1224819
(S) Dibromofluoromethane	121		65.0-129		01/17/2019 19:22	WG1224819
(S) 4-Bromofluorobenzene	106		67.0-138		01/17/2019 19:22	WG1224819

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

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	7580		200	50	01/17/2019 01:15	WG1223272
C28-C40 Oil Range	7460		200	50	01/17/2019 01:15	WG1223272
(S) o-Terphenyl	0.000	<u>J7</u>	18.0-148		01/17/2019 01:15	WG1223272



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.9		1	01/15/2019 13:01	WG1223613

Wet Chemistry by Method 300.0

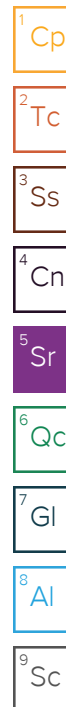
Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Chloride	46.0	B	10.0	1	01/18/2019 08:36	WG1224912

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
TPH (GC/FID) Low Fraction	ND		0.100	1	01/15/2019 21:18	WG1223434
(S) a,a,a-Trifluorotoluene(FID)	99.0		77.0-120		01/15/2019 21:18	WG1223434

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0250	1	01/17/2019 19:41	WG1224819
Acrylonitrile	ND		0.0125	1	01/17/2019 19:41	WG1224819
Benzene	ND		0.00100	1	01/17/2019 19:41	WG1224819
Bromobenzene	ND		0.0125	1	01/17/2019 19:41	WG1224819
Bromodichloromethane	ND		0.00250	1	01/17/2019 19:41	WG1224819
Bromoform	ND		0.0250	1	01/17/2019 19:41	WG1224819
Bromomethane	ND		0.0125	1	01/17/2019 19:41	WG1224819
n-Butylbenzene	ND		0.0125	1	01/17/2019 19:41	WG1224819
sec-Butylbenzene	ND		0.0125	1	01/17/2019 19:41	WG1224819
tert-Butylbenzene	ND		0.00500	1	01/17/2019 19:41	WG1224819
Carbon tetrachloride	ND		0.00500	1	01/17/2019 19:41	WG1224819
Chlorobenzene	ND		0.00250	1	01/17/2019 19:41	WG1224819
Chlorodibromomethane	ND		0.00250	1	01/17/2019 19:41	WG1224819
Chloroethane	ND		0.00500	1	01/17/2019 19:41	WG1224819
Chloroform	ND		0.00250	1	01/17/2019 19:41	WG1224819
Chloromethane	ND		0.0125	1	01/17/2019 19:41	WG1224819
2-Chlorotoluene	ND		0.00250	1	01/17/2019 19:41	WG1224819
4-Chlorotoluene	ND		0.00500	1	01/17/2019 19:41	WG1224819
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	01/17/2019 19:41	WG1224819
1,2-Dibromoethane	ND		0.00250	1	01/17/2019 19:41	WG1224819
Dibromomethane	ND		0.00500	1	01/17/2019 19:41	WG1224819
1,2-Dichlorobenzene	ND		0.00500	1	01/17/2019 19:41	WG1224819
1,3-Dichlorobenzene	ND		0.00500	1	01/17/2019 19:41	WG1224819
1,4-Dichlorobenzene	ND		0.00500	1	01/17/2019 19:41	WG1224819
Dichlorodifluoromethane	ND		0.00250	1	01/17/2019 19:41	WG1224819
1,1-Dichloroethane	ND		0.00250	1	01/17/2019 19:41	WG1224819
1,2-Dichloroethane	ND		0.00250	1	01/17/2019 19:41	WG1224819
1,1-Dichloroethene	ND		0.00250	1	01/17/2019 19:41	WG1224819
cis-1,2-Dichloroethene	ND		0.00250	1	01/17/2019 19:41	WG1224819
trans-1,2-Dichloroethene	ND		0.00500	1	01/17/2019 19:41	WG1224819
1,2-Dichloropropane	ND		0.00500	1	01/17/2019 19:41	WG1224819
1,1-Dichloropropene	ND		0.00250	1	01/17/2019 19:41	WG1224819
1,3-Dichloropropane	ND		0.00500	1	01/17/2019 19:41	WG1224819
cis-1,3-Dichloropropene	ND		0.00250	1	01/17/2019 19:41	WG1224819
trans-1,3-Dichloropropene	ND		0.00500	1	01/17/2019 19:41	WG1224819
2,2-Dichloropropane	ND		0.00250	1	01/17/2019 19:41	WG1224819
Di-isopropyl ether	ND		0.00100	1	01/17/2019 19:41	WG1224819
Ethylbenzene	ND		0.00250	1	01/17/2019 19:41	WG1224819





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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexachloro-1,3-butadiene	ND	<u>J3</u>	0.0250	1	01/17/2019 19:41	WG1224819
Isopropylbenzene	ND		0.00250	1	01/17/2019 19:41	WG1224819
p-Isopropyltoluene	ND		0.00500	1	01/17/2019 19:41	WG1224819
2-Butanone (MEK)	ND		0.0250	1	01/17/2019 19:41	WG1224819
Methylene Chloride	ND		0.0250	1	01/17/2019 19:41	WG1224819
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	01/17/2019 19:41	WG1224819
Methyl tert-butyl ether	ND		0.00100	1	01/17/2019 19:41	WG1224819
Naphthalene	ND		0.0125	1	01/17/2019 19:41	WG1224819
n-Propylbenzene	ND		0.00500	1	01/17/2019 19:41	WG1224819
Styrene	ND		0.0125	1	01/17/2019 19:41	WG1224819
1,1,1,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 19:41	WG1224819
1,1,2,2-Tetrachloroethane	ND		0.00250	1	01/17/2019 19:41	WG1224819
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	01/17/2019 19:41	WG1224819
Tetrachloroethene	ND		0.00250	1	01/17/2019 19:41	WG1224819
Toluene	ND		0.00500	1	01/17/2019 19:41	WG1224819
1,2,3-Trichlorobenzene	ND		0.00250	1	01/17/2019 19:41	WG1224819
1,2,4-Trichlorobenzene	ND		0.0125	1	01/17/2019 19:41	WG1224819
1,1,1-Trichloroethane	ND		0.00250	1	01/17/2019 19:41	WG1224819
1,1,2-Trichloroethane	ND		0.00250	1	01/17/2019 19:41	WG1224819
Trichloroethene	ND		0.00100	1	01/17/2019 19:41	WG1224819
Trichlorofluoromethane	ND		0.00250	1	01/17/2019 19:41	WG1224819
1,2,3-Trichloropropane	ND		0.0125	1	01/17/2019 19:41	WG1224819
1,2,4-Trimethylbenzene	ND		0.00500	1	01/17/2019 19:41	WG1224819
1,2,3-Trimethylbenzene	ND	<u>J4</u>	0.00500	1	01/17/2019 19:41	WG1224819
1,3,5-Trimethylbenzene	ND		0.00500	1	01/17/2019 19:41	WG1224819
Vinyl chloride	ND		0.00250	1	01/17/2019 19:41	WG1224819
Xylenes, Total	ND		0.00650	1	01/17/2019 19:41	WG1224819
(S) Toluene-d8	117		75.0-131		01/17/2019 19:41	WG1224819
(S) Dibromofluoromethane	113		65.0-129		01/17/2019 19:41	WG1224819
(S) 4-Bromofluorobenzene	102		67.0-138		01/17/2019 19:41	WG1224819

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	5180		100	25	01/17/2019 00:12	WG1223272
C28-C40 Oil Range	5330		100	25	01/17/2019 00:12	WG1223272
(S) o-Terphenyl	0.000	<u>J7</u>	18.0-148		01/17/2019 00:12	WG1223272



Total Solids by Method 2540 G-2011

L1060433-01,02,03,04

Method Blank (MB)

(MB) R3376138-1 01/15/19 13:31

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

Cp

 ${}^2\text{Tc}$

Ss

$$C_n$$
 ^{87}Sr

Qc

L1060424-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1060424-05 01/15/19 13:31 • (DUP) R3376138-3 01/15/19 13:31

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	83.9	78.7	1	6.37		10

GI

 ${}^3\text{Al}$

Sc

Laboratory Control Sample (LCS)

(LCS) R3376138-2 01/15/19 13:31

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3376125-1 01/15/19 13:14

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

L1060433-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1060433-12 01/15/19 13:14 • (DUP) R3376125-3 01/15/19 13:14

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	89.9	90.3	1	0.427		10

Laboratory Control Sample (LCS)

(LCS) R3376125-2 01/15/19 13:14

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3376124-1 01/15/19 13:01

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

1Cp

2Tc

3Ss

4Cn

5Sr

L1060590-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1060590-01 01/15/19 13:01 • (DUP) R3376124-3 01/15/19 13:01

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	74.3	74.3	1	0.0506		10

6Qc

7Gl

Laboratory Control Sample (LCS)

(LCS) R3376124-2 01/15/19 13:01

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

8Al

9Sc



Method Blank (MB)

(MB) R3375636-1 01/14/19 12:47

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	1.44	⬇	0.795	10.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1059362-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1059362-01 01/14/19 13:13 • (DUP) R3375636-3 01/14/19 13:22

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	82.7	94.6	1	13.5		20

L1060433-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1060433-15 01/15/19 16:26 • (DUP) R3376112-6 01/15/19 16:34

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	44.2	41.4	1	6.56		20

Laboratory Control Sample (LCS)

(LCS) R3375636-2 01/14/19 12:56

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	196	98.2	90.0-110	

Laboratory Control Sample (LCS)

(LCS) R3376112-3 01/15/19 13:22

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	208	104	90.0-110	

L1060433-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1060433-08 01/15/19 14:49 • (MS) R3376112-4 01/15/19 14:58 • (MSD) R3376112-7 01/15/19 16:43

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	500	ND	535	470	106	93.0	1	80.0-120			12.9	20



Method Blank (MB)

(MB) R3376949-1 01/18/19 07:46

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	5.24	⬇	0.795	10.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1061910-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1061910-05 01/18/19 10:45 • (DUP) R3376949-6 01/18/19 10:55

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	547	572	1	4.47		20

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R3376949-2 01/18/19 07:58

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	213	106	90.0-110	

⁹Sc



Method Blank (MB)

(MB) R3376170-3 01/15/19 14:54

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	106			77.0-120

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3376170-1 01/15/19 13:50 • (LCSD) R3376170-2 01/15/19 14:11

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	5.50	5.81	5.56	106	101	72.0-127			4.43	20
(S) a,a,a-Trifluorotoluene(FID)				101	99.6	77.0-120				

L1060590-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1060590-02 01/15/19 22:01 • (MS) R3376170-4 01/15/19 23:32 • (MSD) R3376170-5 01/15/19 23:54

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.79	ND	118	124	81.4	85.7	25	10.0-151			5.20	28
(S) a,a,a-Trifluorotoluene(FID)					102	102		77.0-120				



Method Blank (MB)

(MB) R3376697-3 01/17/19 12:51

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250
Isopropylbenzene	U		0.000863	0.00250

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) R3376697-3 01/17/19 12:51

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	0.0194	U	0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	103			75.0-131
(S) Dibromofluoromethane	112			65.0-129
(S) 4-Bromofluorobenzene	107			67.0-138

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3376697-1 01/17/19 11:36 • (LCSD) R3376697-2 01/17/19 11:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	0.824	0.820	132	131	10.0-160			0.460	31
Acrylonitrile	0.625	0.831	0.809	133	130	45.0-153			2.57	22
Benzene	0.125	0.121	0.123	97.0	98.8	70.0-123			1.79	20
Bromobenzene	0.125	0.107	0.110	85.6	87.8	73.0-121			2.55	20
Bromodichloromethane	0.125	0.139	0.129	111	103	73.0-121			7.68	20



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

(LCS) R3376697-1 01/17/19 11:36 • (LCSD) R3376697-2 01/17/19 11:55

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 %
Bromoform	0.125	0.124	0.117	99.4	93.6	64.0-132			6.10	20
Bromomethane	0.125	0.148	0.157	119	126	56.0-147			5.65	20
n-Butylbenzene	0.125	0.114	0.124	91.0	98.9	68.0-135			8.36	20
sec-Butylbenzene	0.125	0.118	0.122	94.4	97.2	74.0-130			2.95	20
tert-Butylbenzene	0.125	0.116	0.114	92.7	90.9	75.0-127			1.99	20
Carbon tetrachloride	0.125	0.117	0.124	93.6	99.4	66.0-128			5.99	20
Chlorobenzene	0.125	0.114	0.127	91.1	101	76.0-128			10.7	20
Chlorodibromomethane	0.125	0.108	0.104	86.7	83.6	74.0-127			3.70	20
Chloroethane	0.125	0.136	0.137	109	110	61.0-134			0.776	20
Chloroform	0.125	0.123	0.122	98.6	97.5	72.0-123			1.16	20
Chloromethane	0.125	0.124	0.122	98.9	97.7	51.0-138			1.20	20
2-Chlorotoluene	0.125	0.117	0.110	93.6	88.3	75.0-124			5.78	20
4-Chlorotoluene	0.125	0.116	0.112	93.1	89.7	75.0-124			3.73	20
1,2-Dibromo-3-Chloropropane	0.125	0.102	0.123	81.5	98.3	59.0-130			18.7	20
1,2-Dibromoethane	0.125	0.124	0.122	99.0	97.4	74.0-128			1.61	20
Dibromomethane	0.125	0.142	0.133	114	107	75.0-122			6.24	20
1,2-Dichlorobenzene	0.125	0.141	0.125	113	100	76.0-124			12.0	20
1,3-Dichlorobenzene	0.125	0.120	0.128	96.4	102	76.0-125			5.75	20
1,4-Dichlorobenzene	0.125	0.111	0.125	89.0	100	77.0-121			11.6	20
Dichlorodifluoromethane	0.125	0.118	0.120	94.5	95.9	43.0-156			1.44	20
1,1-Dichloroethane	0.125	0.133	0.124	107	99.0	70.0-127			7.49	20
1,2-Dichloroethane	0.125	0.120	0.127	95.7	101	65.0-131			5.79	20
1,1-Dichloroethene	0.125	0.113	0.119	90.5	94.9	65.0-131			4.76	20
cis-1,2-Dichloroethene	0.125	0.108	0.110	86.6	87.8	73.0-125			1.39	20
trans-1,2-Dichloroethene	0.125	0.116	0.125	92.9	99.7	71.0-125			7.01	20
1,2-Dichloropropane	0.125	0.141	0.120	113	96.4	74.0-125			16.0	20
1,1-Dichloropropene	0.125	0.100	0.119	80.2	95.1	73.0-125			17.0	20
1,3-Dichloropropane	0.125	0.120	0.118	95.8	94.3	80.0-125			1.64	20
cis-1,3-Dichloropropene	0.125	0.120	0.113	96.4	90.3	76.0-127			6.56	20
trans-1,3-Dichloropropene	0.125	0.107	0.110	85.6	87.6	73.0-127			2.31	20
2,2-Dichloropropane	0.125	0.131	0.139	105	111	59.0-135			5.84	20
Di-isopropyl ether	0.125	0.135	0.141	108	113	60.0-136			4.30	20
Ethylbenzene	0.125	0.124	0.122	99.5	97.9	74.0-126			1.57	20
Hexachloro-1,3-butadiene	0.125	0.108	0.149	86.1	119	57.0-150		J3	32.4	20
Isopropylbenzene	0.125	0.112	0.109	89.8	87.0	72.0-127			3.11	20
p-Isopropyltoluene	0.125	0.105	0.110	84.3	88.4	72.0-133			4.76	20
2-Butanone (MEK)	0.625	0.864	0.789	138	126	30.0-160			9.06	24
Methylene Chloride	0.125	0.128	0.124	102	99.5	68.0-123			2.53	20
4-Methyl-2-pentanone (MIBK)	0.625	0.685	0.685	110	110	56.0-143			0.0259	20
Methyl tert-butyl ether	0.125	0.133	0.137	106	110	66.0-132			3.47	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



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

(LCS) R3376697-1 01/17/19 11:36 • (LCSD) R3376697-2 01/17/19 11:55

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 %
Naphthalene	0.125	0.132	0.132	105	106	59.0-130			0.524	20
n-Propylbenzene	0.125	0.108	0.114	86.6	91.3	74.0-126			5.37	20
Styrene	0.125	0.112	0.110	89.4	88.3	72.0-127			1.28	20
1,1,1,2-Tetrachloroethane	0.125	0.117	0.126	93.5	101	74.0-129			7.87	20
1,1,2,2-Tetrachloroethane	0.125	0.106	0.116	84.6	92.8	68.0-128			9.23	20
Tetrachloroethene	0.125	0.101	0.111	80.8	88.5	70.0-136			9.14	20
Toluene	0.125	0.111	0.119	89.0	94.9	75.0-121			6.40	20
1,1,2-Trichlorotrifluoroethane	0.125	0.111	0.119	88.7	94.9	61.0-139			6.78	20
1,2,3-Trichlorobenzene	0.125	0.117	0.124	93.9	99.5	59.0-139			5.73	20
1,2,4-Trichlorobenzene	0.125	0.118	0.144	94.2	115	62.0-137			19.9	20
1,1,1-Trichloroethane	0.125	0.125	0.135	99.9	108	69.0-126			7.55	20
1,1,2-Trichloroethane	0.125	0.126	0.119	101	95.0	78.0-123			6.26	20
Trichloroethene	0.125	0.119	0.121	95.1	96.8	76.0-126			1.83	20
Trichlorofluoromethane	0.125	0.124	0.125	99.4	100	61.0-142			0.609	20
1,2,3-Trichloropropane	0.125	0.101	0.108	80.9	86.2	67.0-129			6.40	20
1,2,3-Trimethylbenzene	0.125	0.0922	0.0950	73.8	76.0	74.0-124	J4		3.01	20
1,2,4-Trimethylbenzene	0.125	0.118	0.116	94.5	92.5	70.0-126			2.10	20
1,3,5-Trimethylbenzene	0.125	0.116	0.109	92.8	87.0	73.0-127			6.39	20
Vinyl chloride	0.125	0.150	0.144	120	115	63.0-134			4.22	20
Xylenes, Total	0.375	0.344	0.372	91.7	99.2	72.0-127			7.82	20
(S) Toluene-d8				106	109	75.0-131				
(S) Dibromofluoromethane				114	119	65.0-129				
(S) 4-Bromofluorobenzene				105	102	67.0-138				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1060433-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1060433-13 01/17/19 18:45 • (MS) R3376697-4 01/17/19 19:59 • (MSD) R3376697-5 01/17/19 20:18

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 %
Acetone	0.625	ND	0.270	0.292	43.1	46.8	1	10.0-160			8.13	40
Acrylonitrile	0.625	ND	0.549	0.618	87.8	98.8	1	10.0-160			11.8	40
Benzene	0.125	ND	0.0683	0.125	54.6	99.9	1	10.0-149		J3	58.6	37
Bromobenzene	0.125	ND	0.0756	0.103	60.5	82.4	1	10.0-156			30.7	38
Bromodichloromethane	0.125	ND	0.0956	0.129	76.5	103	1	10.0-143			29.8	37
Bromoform	0.125	ND	0.106	0.106	84.8	84.9	1	10.0-146			0.0688	36
Bromomethane	0.125	ND	0.218	0.381	174	305	1	10.0-149	J5	J3 J5	54.4	38
n-Butylbenzene	0.125	ND	0.0575	0.126	46.0	101	1	10.0-160		J3	74.9	40
sec-Butylbenzene	0.125	ND	0.0585	0.128	46.8	102	1	10.0-159		J3	74.3	39
tert-Butylbenzene	0.125	ND	0.0562	0.130	45.0	104	1	10.0-156		J3	79.3	39



L1060433-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1060433-13 01/17/19 18:45 • (MS) R3376697-4 01/17/19 19:59 • (MSD) R3376697-5 01/17/19 20:18

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 %
Carbon tetrachloride	0.125	ND	0.0469	0.128	37.5	103	1	10.0-145		J3	93.0	37
Chlorobenzene	0.125	ND	0.0757	0.121	60.6	96.6	1	10.0-152		J3	45.8	39
Chlorodibromomethane	0.125	ND	0.0818	0.106	65.5	84.7	1	10.0-146			25.6	37
Chloroethane	0.125	ND	0.178	0.340	143	272	1	10.0-146		J3 J5	62.5	40
Chloroform	0.125	ND	0.0774	0.130	61.9	104	1	10.0-146		J3	51.0	37
Chloromethane	0.125	ND	0.0872	0.181	69.8	145	1	10.0-159		J3	69.8	37
2-Chlorotoluene	0.125	ND	0.0671	0.100	53.7	80.1	1	10.0-159		J3	39.4	38
4-Chlorotoluene	0.125	ND	0.0769	0.119	61.5	95.4	1	10.0-155		J3	43.2	39
1,2-Dibromo-3-Chloropropane	0.125	ND	0.0801	0.0749	64.1	59.9	1	10.0-151			6.78	39
1,2-Dibromoethane	0.125	ND	0.0943	0.125	75.5	100	1	10.0-148			28.2	34
Dibromomethane	0.125	ND	0.0968	0.105	77.5	83.7	1	10.0-147			7.78	35
1,2-Dichlorobenzene	0.125	ND	0.0975	0.129	78.0	103	1	10.0-155			27.8	37
1,3-Dichlorobenzene	0.125	ND	0.0860	0.132	68.8	106	1	10.0-153		J3	42.3	38
1,4-Dichlorobenzene	0.125	ND	0.0915	0.106	73.2	85.1	1	10.0-151			15.1	38
Dichlorodifluoromethane	0.125	ND	0.0556	0.188	44.5	150	1	10.0-160		J3	109	35
1,1-Dichloroethane	0.125	ND	0.0750	0.142	60.0	114	1	10.0-147		J3	61.8	37
1,2-Dichloroethane	0.125	ND	0.0940	0.124	75.2	98.9	1	10.0-148			27.2	35
1,1-Dichloroethene	0.125	ND	0.0526	0.134	42.1	107	1	10.0-155		J3	87.1	37
cis-1,2-Dichloroethene	0.125	ND	0.0679	0.113	54.3	90.0	1	10.0-149		J3	49.5	37
trans-1,2-Dichloroethene	0.125	ND	0.0584	0.134	46.7	107	1	10.0-150		J3	78.7	37
1,2-Dichloropropane	0.125	ND	0.0991	0.122	79.3	98.0	1	10.0-148			21.1	37
1,1-Dichloropropene	0.125	ND	0.0428	0.118	34.3	94.2	1	10.0-153		J3	93.3	35
1,3-Dichloropropane	0.125	ND	0.0986	0.110	78.9	87.8	1	10.0-154			10.7	35
cis-1,3-Dichloropropene	0.125	ND	0.0858	0.125	68.7	99.7	1	10.0-151			36.9	37
trans-1,3-Dichloropropene	0.125	ND	0.0820	0.102	65.6	81.9	1	10.0-148			22.2	37
2,2-Dichloropropane	0.125	ND	0.0580	0.130	46.4	104	1	10.0-138		J3	76.5	36
Di-isopropyl ether	0.125	ND	0.0983	0.124	78.7	99.3	1	10.0-147			23.2	36
Ethylbenzene	0.125	ND	0.0668	0.132	53.4	105	1	10.0-160		J3	65.3	38
Hexachloro-1,3-butadiene	0.125	ND	0.0664	0.145	53.2	116	1	10.0-160		J3	74.5	40
Isopropylbenzene	0.125	ND	0.0548	0.123	43.8	98.7	1	10.0-155		J3	77.0	38
p-Isopropyltoluene	0.125	ND	0.0590	0.118	47.2	94.7	1	10.0-160		J3	66.8	40
2-Butanone (MEK)	0.625	ND	0.744	0.759	119	121	1	10.0-160			1.95	40
Methylene Chloride	0.125	ND	0.105	0.131	77.9	98.2	1	10.0-141			21.5	37
4-Methyl-2-pentanone (MIBK)	0.625	ND	0.509	0.551	81.4	88.1	1	10.0-160			7.90	35
Methyl tert-butyl ether	0.125	ND	0.109	0.116	87.2	92.5	1	11.0-147			5.90	35
Naphthalene	0.125	ND	0.105	0.107	83.7	85.4	1	10.0-160			1.94	36
n-Propylbenzene	0.125	ND	0.0579	0.116	46.3	92.5	1	10.0-158		J3	66.6	38
Styrene	0.125	ND	0.0816	0.118	65.3	94.7	1	10.0-160			36.8	40
1,1,1,2-Tetrachloroethane	0.125	ND	0.0862	0.119	68.9	95.5	1	10.0-149			32.3	39
1,1,2,2-Tetrachloroethane	0.125	ND	0.0346	0.0375	27.7	30.0	1	10.0-160			8.01	35

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

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Qc

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Gl

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Al

9
Sc



L1060433-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1060433-13 01/17/19 18:45 • (MS) R3376697-4 01/17/19 19:59 • (MSD) R3376697-5 01/17/19 20:18

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 %
Tetrachloroethene	0.125	ND	0.0560	0.130	44.8	104	1	10.0-156		J3	79.8	39
Toluene	0.125	ND	0.0626	0.124	50.1	99.5	1	10.0-156		J3	66.0	38
1,1,2-Trichlorotrifluoroethane	0.125	ND	0.0340	0.133	27.2	107	1	10.0-160		J3	119	36
1,2,3-Trichlorobenzene	0.125	ND	0.0920	0.118	73.6	94.1	1	10.0-160			24.4	40
1,2,4-Trichlorobenzene	0.125	ND	0.0984	0.126	78.7	101	1	10.0-160			24.3	40
1,1,1-Trichloroethane	0.125	ND	0.0608	0.139	48.6	111	1	10.0-144		J3	78.2	35
1,1,2-Trichloroethane	0.125	ND	0.0953	0.127	76.2	102	1	10.0-160			28.6	35
Trichloroethene	0.125	ND	0.117	0.186	93.7	149	1	10.0-156		J3	45.7	38
Trichlorofluoromethane	0.125	ND	0.252	0.770	202	616	1	10.0-160	J5	J3 J5	101	40
1,2,3-Trichloropropane	0.125	ND	0.0785	0.0826	62.8	66.1	1	10.0-156			5.09	35
1,2,3-Trimethylbenzene	0.125	ND	0.0760	0.114	60.8	91.2	1	10.0-160		J3	40.1	36
1,2,4-Trimethylbenzene	0.125	ND	0.0692	0.118	55.4	94.5	1	10.0-160		J3	52.2	36
1,3,5-Trimethylbenzene	0.125	ND	0.0602	0.120	48.2	95.9	1	10.0-160		J3	66.3	38
Vinyl chloride	0.125	ND	0.0543	0.152	43.5	122	1	10.0-160		J3	94.7	37
Xylenes, Total	0.375	ND	0.186	0.368	49.7	98.1	1	10.0-160		J3	65.5	38
(S) Toluene-d8					107	113		75.0-131				
(S) Dibromofluoromethane					114	114		65.0-129				
(S) 4-Bromofluorobenzene					106	99.2		67.0-138				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3376440-1 01/16/19 16:21

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	77.0			18.0-148

1
Cp

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Tc

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Ss

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Sr

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Gl

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Al

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Sc

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

(LCS) R3376440-2 01/16/19 16:37 • (LCSD) R3376440-3 01/16/19 16:53

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 %
C10-C28 Diesel Range	50.0	40.3	46.8	80.6	93.6	50.0-150			14.9	20
(S) o-Terphenyl				90.8	106	18.0-148				

L1060433-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1060433-06 01/16/19 19:38 • (MS) R3376440-4 01/16/19 19:52 • (MSD) R3376440-5 01/16/19 20:07

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	50.0	291	573	519	564	456	5	50.0-150	V	V	9.89	20
(S) o-Terphenyl					159	148		18.0-148	J1			



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.

Abbreviations and Definitions

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

Qualifier Description

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
V	The sample concentration is too high to evaluate accurate spike recoveries.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* 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 National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
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}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

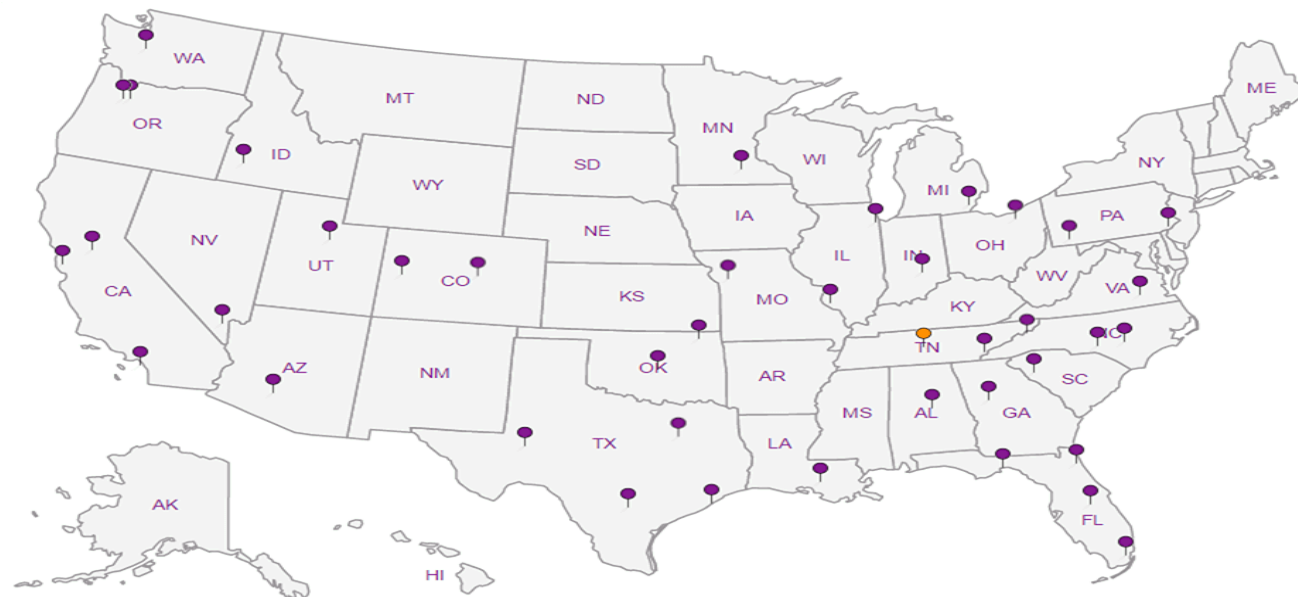
Third Party Federal Accreditations

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

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



EnCore Consulting, LLC. 605 West Knox, Suite 102 Tempe, AZ 85284		Billing Information:		Pres Chk		Analysis / Container / Preservative										Chain of Custody		Page 1 of 1					
Report to: Lynn Niewiadomski		Email To: lynn@encore-consulting.net		City/State Collected: Tucson, AZ		VOCs 8260B TPH (GRO+DRO+MRO) 8015M Full range Chloride 5000 RCRA 8										Pace Analytical® Reliable Control Air Testing & Restoration		12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859		QR Code			
Project Description:		Client Project # EPNG		Lab Project #												L# L1060431		Table # B013					
Phone: (480) 258-1778 Fax:		Site/Facility ID # EPNG		P.O. #												Acctnum: ENCORETAZ		Template:					
Collected by (print): K. Reed		Rush? (Lab MUST Be Notified) Same Day _____ Five Day _____ Next Day _____ 5 Day (Rad Only) _____ ☒ Two Day _____ 10 Day (Rad Only) _____ Three Day _____		Quote #												Prelogin:		TSR: Daphne Richards					
Collected by (signature): K. Reed		Date Results Needed		No. of Cntrs		Shipped Via:										Remarks		Sample # (lab only)					
Immediately Packed on Ice N ☒ Y ☒		Sample ID		Comp/Grab												Matrix *		Depth		Date		Time	
10W		comp		SS		N/A		11/10/18		1445		4		-01									
Remarks: combine jars before running, full range TPH		Samples returned via: UPS _____ FedEx _____ Courier _____		Tracking # 45101667		Received by (Signature): Fed ex		Received by (Signature):		Temp: °C 7.2 ± 0.3		Bottles Received: 4		Hold:		Condition: NCF / OK							
Relinquished by: (Signature) K. Reed		Date: 11/10/19		Time: 1645		Received by (Signature):		Received by (Signature):		Temp: °C 7.2 ± 0.3		Bottles Received: 4		Hold:		Condition: NCF / OK							
Relinquished by: (Signature)		Date:		Time:		Received for lab by: (Signature) M. Willis		Received for lab by: (Signature):		Temp: °C 7.2 ± 0.3		Bottles Received: 4		Hold:		Condition: NCF / OK							

Condition:
NCP / OK

Hold:	Condition: NCF / O
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Jeremy W. Watkins



Login #: L1060433	Client: ENCORETAZ	Date: 1/11/19	Evaluated by: Jeremy
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Non-Conformance (check applicable items)

Sample Integrity	Chain of Custody Clarification	If Broken Container:
Parameter(s) past holding time	Login Clarification Needed	Insufficient packing material around container
Temperature not in range	Chain of custody is incomplete	Insufficient packing material inside cooler
Improper container type	Please specify Metals requested.	Improper handling by carrier (FedEx / UPS / Courier)
pH not in range.	Please specify TCLP requested.	Sample was frozen
Insufficient sample volume.	Received additional samples not listed on coc.	Container lid not intact
Sample is biphasic.	Sample ids on containers do not match ids on coc	If no Chain of Custody:
Vials received with headspace.	Trip Blank not received.	Received by:
Broken container	x Client did not "X" analysis.	Date/Time:
Broken container:	Chain of Custody is missing	Temp./Cont. Rec./pH:
Sufficient sample remains		Carrier:
		Tracking#

Login Comments: Analysis not marked for 1st page

Client informed by:	Call	X	Email	Voice Mail	Date: 1/11/19	Time: 1641
TSR Initials: DR	Client Contact:					

Login Instructions:

Analyze for all tests on CoC-V8260, GRO, DRORLA, Chloride
Collected in NIM

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