

June 27, 2018

Weston Solutions - CO

Sample Delivery Group: L1004431
Samples Received: 06/26/2018
Project Number: 20408.012.001
Description: Norris Labs
Site: NL
Report To: Eric Sandusky
1435 Garrison St., Ste 100
Denver, CO 80215

Entire Report Reviewed By:



Jason Romer
Technical Service Representative

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 ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



NL-SW-06 L1004431-01 GW

Collected by
JR

Collected date/time
06/22/18 09:55

Received date/time
06/26/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG1130267	1	06/27/18 02:35	06/27/18 13:24	ABL
Metals (ICP) by Method 6010B	WG1130039	1	06/26/18 15:50	06/27/18 12:26	CCE
Metals (ICPMS) by Method 6020	WG1130205	1	06/26/18 17:47	06/27/18 02:41	LD
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1129856	1	06/26/18 13:36	06/26/18 13:36	JHH
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG1127950	1	06/26/18 20:46	06/27/18 03:54	GB

¹ Cp

² Tc

³ Ss

⁴ Cn

NL-PD-07 L1004431-02 GW

Collected by
JR

Collected date/time
06/22/18 10:18

Received date/time
06/26/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG1130267	1	06/27/18 02:35	06/27/18 13:27	ABL
Metals (ICP) by Method 6010B	WG1130039	1	06/26/18 15:50	06/27/18 12:29	CCE
Metals (ICPMS) by Method 6020	WG1130205	1	06/26/18 17:47	06/27/18 02:45	LD
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1129856	1	06/26/18 13:56	06/26/18 13:56	JHH
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG1127950	1	06/26/18 20:46	06/27/18 04:17	GB

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

NL-DS-08 L1004431-03 GW

Collected by
JR

Collected date/time
06/22/18 11:00

Received date/time
06/26/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG1130267	1	06/27/18 02:35	06/27/18 13:29	ABL
Metals (ICP) by Method 6010B	WG1130039	1	06/26/18 15:50	06/27/18 12:33	CCE
Metals (ICPMS) by Method 6020	WG1130205	1	06/26/18 17:47	06/27/18 02:57	LD
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1129856	1	06/26/18 14:15	06/26/18 14:15	JHH
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG1127950	1	06/26/18 20:46	06/27/18 03:07	GB

⁹ Sc

NL-UP-09 L1004431-04 GW

Collected by
JR

Collected date/time
06/22/18 11:50

Received date/time
06/26/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG1130267	1	06/27/18 02:35	06/27/18 13:31	ABL
Metals (ICP) by Method 6010B	WG1130039	1	06/26/18 15:50	06/27/18 12:36	CCE
Metals (ICPMS) by Method 6020	WG1130205	1	06/26/18 17:47	06/27/18 03:01	LD
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1129856	1	06/26/18 14:35	06/26/18 14:35	JHH
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG1127950	1	06/26/18 20:46	06/27/18 03:30	GB

NL-TRIP BLANK L1004431-05 GW

Collected by
JR

Collected date/time
06/22/18 00:00

Received date/time
06/26/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1129856	1	06/26/18 14:54	06/26/18 14:54	JHH



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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.

Jason Romer
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.0000490	0.000200	1	06/27/2018 13:24	WG1130267

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum	0.177	J	0.0350	0.200	1	06/27/2018 12:26	WG1130039
Arsenic	0.00833	J	0.00650	0.0100	1	06/27/2018 12:26	WG1130039
Barium	0.122		0.00170	0.00500	1	06/27/2018 12:26	WG1130039
Beryllium	U		0.000700	0.00200	1	06/27/2018 12:26	WG1130039
Cadmium	U		0.000700	0.00200	1	06/27/2018 12:26	WG1130039
Calcium	65.8		0.0463	1.00	1	06/27/2018 12:26	WG1130039
Chromium	0.00216	J	0.00140	0.0100	1	06/27/2018 12:26	WG1130039
Cobalt	U		0.00230	0.0100	1	06/27/2018 12:26	WG1130039
Copper	0.0380		0.00530	0.0100	1	06/27/2018 12:26	WG1130039
Iron	0.320		0.0141	0.100	1	06/27/2018 12:26	WG1130039
Magnesium	20.1		0.0111	1.00	1	06/27/2018 12:26	WG1130039
Manganese	0.0416		0.00120	0.0100	1	06/27/2018 12:26	WG1130039
Nickel	U		0.00490	0.0100	1	06/27/2018 12:26	WG1130039
Potassium	13.1		0.102	1.00	1	06/27/2018 12:26	WG1130039
Silver	U		0.00280	0.00500	1	06/27/2018 12:26	WG1130039
Sodium	62.7		0.0985	1.00	1	06/27/2018 12:26	WG1130039
Vanadium	0.0237	B	0.00240	0.0200	1	06/27/2018 12:26	WG1130039
Zinc	0.0200	B J	0.00590	0.0500	1	06/27/2018 12:26	WG1130039

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	U		0.000754	0.00200	1	06/27/2018 02:41	WG1130205
Lead	0.00139	J	0.000240	0.00200	1	06/27/2018 02:41	WG1130205
Selenium	U		0.000380	0.00200	1	06/27/2018 02:41	WG1130205
Thallium	U		0.000190	0.00200	1	06/27/2018 02:41	WG1130205

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	06/26/2018 13:36	WG1129856
Acrolein	U		0.00887	0.0500	1	06/26/2018 13:36	WG1129856
Acrylonitrile	U		0.00187	0.0100	1	06/26/2018 13:36	WG1129856
Benzene	U		0.000331	0.00100	1	06/26/2018 13:36	WG1129856
Bromobenzene	U		0.000352	0.00100	1	06/26/2018 13:36	WG1129856
Bromodichloromethane	U		0.000380	0.00100	1	06/26/2018 13:36	WG1129856
Bromoform	U		0.000469	0.00100	1	06/26/2018 13:36	WG1129856
Bromomethane	U		0.000866	0.00500	1	06/26/2018 13:36	WG1129856
n-Butylbenzene	U		0.000361	0.00100	1	06/26/2018 13:36	WG1129856
sec-Butylbenzene	U		0.000365	0.00100	1	06/26/2018 13:36	WG1129856
tert-Butylbenzene	U		0.000399	0.00100	1	06/26/2018 13:36	WG1129856
Carbon tetrachloride	U		0.000379	0.00100	1	06/26/2018 13:36	WG1129856
Chlorobenzene	U		0.000348	0.00100	1	06/26/2018 13:36	WG1129856
Chlorodibromomethane	U		0.000327	0.00100	1	06/26/2018 13:36	WG1129856
Chloroethane	U		0.000453	0.00500	1	06/26/2018 13:36	WG1129856
Chloroform	U		0.000324	0.00500	1	06/26/2018 13:36	WG1129856
Chloromethane	U		0.000276	0.00250	1	06/26/2018 13:36	WG1129856
2-Chlorotoluene	U		0.000375	0.00100	1	06/26/2018 13:36	WG1129856
4-Chlorotoluene	U		0.000351	0.00100	1	06/26/2018 13:36	WG1129856



Collected date/time: 06/22/18 09:55

L1004431

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	06/26/2018 13:36	WG1129856
1,2-Dibromoethane	U		0.000381	0.00100	1	06/26/2018 13:36	WG1129856
Dibromomethane	U		0.000346	0.00100	1	06/26/2018 13:36	WG1129856
1,2-Dichlorobenzene	U	J4	0.000349	0.00100	1	06/26/2018 13:36	WG1129856
1,3-Dichlorobenzene	U		0.000220	0.00100	1	06/26/2018 13:36	WG1129856
1,4-Dichlorobenzene	U		0.000274	0.00100	1	06/26/2018 13:36	WG1129856
Dichlorodifluoromethane	U		0.000551	0.00500	1	06/26/2018 13:36	WG1129856
1,1-Dichloroethane	U		0.000259	0.00100	1	06/26/2018 13:36	WG1129856
1,2-Dichloroethane	U		0.000361	0.00100	1	06/26/2018 13:36	WG1129856
1,1-Dichloroethene	U		0.000398	0.00100	1	06/26/2018 13:36	WG1129856
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	06/26/2018 13:36	WG1129856
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	06/26/2018 13:36	WG1129856
1,2-Dichloropropane	U		0.000306	0.00100	1	06/26/2018 13:36	WG1129856
1,1-Dichloropropene	U		0.000352	0.00100	1	06/26/2018 13:36	WG1129856
1,3-Dichloropropane	U	J4	0.000366	0.00100	1	06/26/2018 13:36	WG1129856
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	06/26/2018 13:36	WG1129856
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	06/26/2018 13:36	WG1129856
2,2-Dichloropropane	U		0.000321	0.00100	1	06/26/2018 13:36	WG1129856
Di-isopropyl ether	U		0.000320	0.00100	1	06/26/2018 13:36	WG1129856
Ethylbenzene	U		0.000384	0.00100	1	06/26/2018 13:36	WG1129856
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	06/26/2018 13:36	WG1129856
Isopropylbenzene	U		0.000326	0.00100	1	06/26/2018 13:36	WG1129856
p-Isopropyltoluene	U		0.000350	0.00100	1	06/26/2018 13:36	WG1129856
2-Butanone (MEK)	U		0.00393	0.0100	1	06/26/2018 13:36	WG1129856
Methylene Chloride	U		0.00100	0.00500	1	06/26/2018 13:36	WG1129856
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	06/26/2018 13:36	WG1129856
Methyl tert-butyl ether	U		0.000367	0.00100	1	06/26/2018 13:36	WG1129856
Naphthalene	U		0.00100	0.00500	1	06/26/2018 13:36	WG1129856
n-Propylbenzene	U		0.000349	0.00100	1	06/26/2018 13:36	WG1129856
Styrene	U		0.000307	0.00100	1	06/26/2018 13:36	WG1129856
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	06/26/2018 13:36	WG1129856
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	06/26/2018 13:36	WG1129856
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	06/26/2018 13:36	WG1129856
Tetrachloroethene	U		0.000372	0.00100	1	06/26/2018 13:36	WG1129856
Toluene	U		0.000412	0.00100	1	06/26/2018 13:36	WG1129856
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	06/26/2018 13:36	WG1129856
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	06/26/2018 13:36	WG1129856
1,1,1-Trichloroethane	U		0.000319	0.00100	1	06/26/2018 13:36	WG1129856
1,1,2-Trichloroethane	U		0.000383	0.00100	1	06/26/2018 13:36	WG1129856
Trichloroethene	U		0.000398	0.00100	1	06/26/2018 13:36	WG1129856
Trichlorofluoromethane	U		0.00120	0.00500	1	06/26/2018 13:36	WG1129856
1,2,3-Trichloropropane	U	J4	0.000807	0.00250	1	06/26/2018 13:36	WG1129856
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	06/26/2018 13:36	WG1129856
1,2,3-Trimethylbenzene	U		0.000321	0.00100	1	06/26/2018 13:36	WG1129856
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	06/26/2018 13:36	WG1129856
Vinyl chloride	U		0.000259	0.00100	1	06/26/2018 13:36	WG1129856
Xylenes, Total	U		0.00106	0.00300	1	06/26/2018 13:36	WG1129856
(S) Toluene-d8	94.9			80.0-120		06/26/2018 13:36	WG1129856
(S) Dibromofluoromethane	104			76.0-123		06/26/2018 13:36	WG1129856
(S) 4-Bromofluorobenzene	103			80.0-120		06/26/2018 13:36	WG1129856

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 06/22/18 09:55

L1004431

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.000316	0.00100	1	06/27/2018 03:54	WG1127950
Acenaphthylene	U		0.000309	0.00100	1	06/27/2018 03:54	WG1127950
Anthracene	U		0.000291	0.00100	1	06/27/2018 03:54	WG1127950
Benzidine	U		0.00432	0.0100	1	06/27/2018 03:54	WG1127950
Benzo(a)anthracene	U		0.0000975	0.00100	1	06/27/2018 03:54	WG1127950
Benzo(b)fluoranthene	U		0.0000896	0.00100	1	06/27/2018 03:54	WG1127950
Benzo(k)fluoranthene	U		0.000355	0.00100	1	06/27/2018 03:54	WG1127950
Benzo(g,h,i)perylene	U		0.000161	0.00100	1	06/27/2018 03:54	WG1127950
Benzo(a)pyrene	U		0.000340	0.00100	1	06/27/2018 03:54	WG1127950
Bis(2-chlorethoxy)methane	U		0.000329	0.0100	1	06/27/2018 03:54	WG1127950
Bis(2-chloroethyl)ether	U		0.00162	0.0100	1	06/27/2018 03:54	WG1127950
Bis(2-chloroisopropyl)ether	U		0.000445	0.0100	1	06/27/2018 03:54	WG1127950
4-Bromophenyl-phenylether	U		0.000335	0.0100	1	06/27/2018 03:54	WG1127950
2-Chloronaphthalene	U		0.000330	0.00100	1	06/27/2018 03:54	WG1127950
4-Chlorophenyl-phenylether	U		0.000303	0.0100	1	06/27/2018 03:54	WG1127950
Chrysene	U		0.000332	0.00100	1	06/27/2018 03:54	WG1127950
Dibenz(a,h)anthracene	U		0.000279	0.00100	1	06/27/2018 03:54	WG1127950
3,3-Dichlorobenzidine	U		0.00202	0.0100	1	06/27/2018 03:54	WG1127950
2,4-Dinitrotoluene	U		0.00165	0.0100	1	06/27/2018 03:54	WG1127950
2,6-Dinitrotoluene	U		0.000279	0.0100	1	06/27/2018 03:54	WG1127950
Fluoranthene	U		0.000310	0.00100	1	06/27/2018 03:54	WG1127950
Fluorene	U		0.000323	0.00100	1	06/27/2018 03:54	WG1127950
Hexachlorobenzene	U		0.000341	0.00100	1	06/27/2018 03:54	WG1127950
Hexachloro-1,3-butadiene	U		0.000329	0.0100	1	06/27/2018 03:54	WG1127950
Hexachlorocyclopentadiene	U		0.00233	0.0100	1	06/27/2018 03:54	WG1127950
Hexachloroethane	U		0.000365	0.0100	1	06/27/2018 03:54	WG1127950
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	06/27/2018 03:54	WG1127950
Isophorone	U		0.000272	0.0100	1	06/27/2018 03:54	WG1127950
Naphthalene	U		0.000372	0.00100	1	06/27/2018 03:54	WG1127950
Nitrobenzene	U		0.000367	0.0100	1	06/27/2018 03:54	WG1127950
n-Nitrosodimethylamine	U		0.00126	0.0100	1	06/27/2018 03:54	WG1127950
n-Nitrosodiphenylamine	U		0.000304	0.0100	1	06/27/2018 03:54	WG1127950
n-Nitrosodi-n-propylamine	U		0.000403	0.0100	1	06/27/2018 03:54	WG1127950
Phenanthrene	U		0.000366	0.00100	1	06/27/2018 03:54	WG1127950
Benzylbutyl phthalate	U		0.000275	0.00300	1	06/27/2018 03:54	WG1127950
Bis(2-ethylhexyl)phthalate	U		0.000709	0.00300	1	06/27/2018 03:54	WG1127950
Di-n-butyl phthalate	U		0.000266	0.00300	1	06/27/2018 03:54	WG1127950
Diethyl phthalate	U		0.000282	0.00300	1	06/27/2018 03:54	WG1127950
Dimethyl phthalate	U		0.000283	0.00300	1	06/27/2018 03:54	WG1127950
Di-n-octyl phthalate	U		0.000278	0.00300	1	06/27/2018 03:54	WG1127950
Pyrene	U		0.000330	0.00100	1	06/27/2018 03:54	WG1127950
1,2,4-Trichlorobenzene	U		0.000355	0.0100	1	06/27/2018 03:54	WG1127950
4-Chloro-3-methylphenol	U		0.000263	0.0100	1	06/27/2018 03:54	WG1127950
2-Chlorophenol	U		0.000283	0.0100	1	06/27/2018 03:54	WG1127950
2,4-Dichlorophenol	U		0.000284	0.0100	1	06/27/2018 03:54	WG1127950
2,4-Dimethylphenol	U		0.000624	0.0100	1	06/27/2018 03:54	WG1127950
4,6-Dinitro-2-methylphenol	U		0.00262	0.0100	1	06/27/2018 03:54	WG1127950
2,4-Dinitrophenol	U		0.00325	0.0100	1	06/27/2018 03:54	WG1127950
2-Nitrophenol	U		0.000320	0.0100	1	06/27/2018 03:54	WG1127950
4-Nitrophenol	U		0.00201	0.0100	1	06/27/2018 03:54	WG1127950
Pentachlorophenol	U		0.000313	0.0100	1	06/27/2018 03:54	WG1127950
Phenol	U		0.000334	0.0100	1	06/27/2018 03:54	WG1127950
2,4,6-Trichlorophenol	U		0.000297	0.0100	1	06/27/2018 03:54	WG1127950
(S) 2-Fluorophenol	47.8			10.0-120		06/27/2018 03:54	WG1127950
(S) Phenol-d5	33.3			10.0-120		06/27/2018 03:54	WG1127950
(S) Nitrobenzene-d5	58.5			10.0-126		06/27/2018 03:54	WG1127950

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



Collected date/time: 06/22/18 09:55

L1004431

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	61.0			22.0-127		06/27/2018 03:54	WG1127950
(S) 2,4,6-Tribromophenol	51.8			10.0-153		06/27/2018 03:54	WG1127950
(S) p-Terphenyl-d14	65.2			29.0-141		06/27/2018 03:54	WG1127950

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.0000490	0.000200	1	06/27/2018 13:27	WG1130267

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum	0.165	<u>J</u>	0.0350	0.200	1	06/27/2018 12:29	WG1130039
Arsenic	U		0.00650	0.0100	1	06/27/2018 12:29	WG1130039
Barium	0.0859		0.00170	0.00500	1	06/27/2018 12:29	WG1130039
Beryllium	U		0.000700	0.00200	1	06/27/2018 12:29	WG1130039
Cadmium	U		0.000700	0.00200	1	06/27/2018 12:29	WG1130039
Calcium	39.6		0.0463	1.00	1	06/27/2018 12:29	WG1130039
Chromium	U		0.00140	0.0100	1	06/27/2018 12:29	WG1130039
Cobalt	U		0.00230	0.0100	1	06/27/2018 12:29	WG1130039
Copper	U		0.00530	0.0100	1	06/27/2018 12:29	WG1130039
Iron	0.674		0.0141	0.100	1	06/27/2018 12:29	WG1130039
Magnesium	12.0		0.0111	1.00	1	06/27/2018 12:29	WG1130039
Manganese	0.153		0.00120	0.0100	1	06/27/2018 12:29	WG1130039
Nickel	U		0.00490	0.0100	1	06/27/2018 12:29	WG1130039
Potassium	5.93		0.102	1.00	1	06/27/2018 12:29	WG1130039
Silver	U		0.00280	0.00500	1	06/27/2018 12:29	WG1130039
Sodium	34.4		0.0985	1.00	1	06/27/2018 12:29	WG1130039
Vanadium	0.0136	<u>B J</u>	0.00240	0.0200	1	06/27/2018 12:29	WG1130039
Zinc	0.0128	<u>B J</u>	0.00590	0.0500	1	06/27/2018 12:29	WG1130039

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	U		0.000754	0.00200	1	06/27/2018 02:45	WG1130205
Lead	0.00122	<u>J</u>	0.000240	0.00200	1	06/27/2018 02:45	WG1130205
Selenium	U		0.000380	0.00200	1	06/27/2018 02:45	WG1130205
Thallium	U		0.000190	0.00200	1	06/27/2018 02:45	WG1130205

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	06/26/2018 13:56	WG1129856
Acrolein	U		0.00887	0.0500	1	06/26/2018 13:56	WG1129856
Acrylonitrile	U		0.00187	0.0100	1	06/26/2018 13:56	WG1129856
Benzene	U		0.000331	0.00100	1	06/26/2018 13:56	WG1129856
Bromobenzene	U		0.000352	0.00100	1	06/26/2018 13:56	WG1129856
Bromodichloromethane	U		0.000380	0.00100	1	06/26/2018 13:56	WG1129856
Bromoform	U		0.000469	0.00100	1	06/26/2018 13:56	WG1129856
Bromomethane	U		0.000866	0.00500	1	06/26/2018 13:56	WG1129856
n-Butylbenzene	U		0.000361	0.00100	1	06/26/2018 13:56	WG1129856
sec-Butylbenzene	U		0.000365	0.00100	1	06/26/2018 13:56	WG1129856
tert-Butylbenzene	U		0.000399	0.00100	1	06/26/2018 13:56	WG1129856
Carbon tetrachloride	U		0.000379	0.00100	1	06/26/2018 13:56	WG1129856
Chlorobenzene	U		0.000348	0.00100	1	06/26/2018 13:56	WG1129856
Chlorodibromomethane	U		0.000327	0.00100	1	06/26/2018 13:56	WG1129856
Chloroethane	U		0.000453	0.00500	1	06/26/2018 13:56	WG1129856
Chloroform	U		0.000324	0.00500	1	06/26/2018 13:56	WG1129856
Chloromethane	U		0.000276	0.00250	1	06/26/2018 13:56	WG1129856
2-Chlorotoluene	U		0.000375	0.00100	1	06/26/2018 13:56	WG1129856
4-Chlorotoluene	U		0.000351	0.00100	1	06/26/2018 13:56	WG1129856



Collected date/time: 06/22/18 10:18

L1004431

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	06/26/2018 13:56	WG1129856
1,2-Dibromoethane	U		0.000381	0.00100	1	06/26/2018 13:56	WG1129856
Dibromomethane	U		0.000346	0.00100	1	06/26/2018 13:56	WG1129856
1,2-Dichlorobenzene	U	J4	0.000349	0.00100	1	06/26/2018 13:56	WG1129856
1,3-Dichlorobenzene	U		0.000220	0.00100	1	06/26/2018 13:56	WG1129856
1,4-Dichlorobenzene	U		0.000274	0.00100	1	06/26/2018 13:56	WG1129856
Dichlorodifluoromethane	U		0.000551	0.00500	1	06/26/2018 13:56	WG1129856
1,1-Dichloroethane	U		0.000259	0.00100	1	06/26/2018 13:56	WG1129856
1,2-Dichloroethane	U		0.000361	0.00100	1	06/26/2018 13:56	WG1129856
1,1-Dichloroethene	U		0.000398	0.00100	1	06/26/2018 13:56	WG1129856
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	06/26/2018 13:56	WG1129856
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	06/26/2018 13:56	WG1129856
1,2-Dichloropropane	U		0.000306	0.00100	1	06/26/2018 13:56	WG1129856
1,1-Dichloropropene	U		0.000352	0.00100	1	06/26/2018 13:56	WG1129856
1,3-Dichloropropane	U	J4	0.000366	0.00100	1	06/26/2018 13:56	WG1129856
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	06/26/2018 13:56	WG1129856
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	06/26/2018 13:56	WG1129856
2,2-Dichloropropane	U		0.000321	0.00100	1	06/26/2018 13:56	WG1129856
Di-isopropyl ether	U		0.000320	0.00100	1	06/26/2018 13:56	WG1129856
Ethylbenzene	U		0.000384	0.00100	1	06/26/2018 13:56	WG1129856
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	06/26/2018 13:56	WG1129856
Isopropylbenzene	U		0.000326	0.00100	1	06/26/2018 13:56	WG1129856
p-Isopropyltoluene	U		0.000350	0.00100	1	06/26/2018 13:56	WG1129856
2-Butanone (MEK)	U		0.00393	0.0100	1	06/26/2018 13:56	WG1129856
Methylene Chloride	U		0.00100	0.00500	1	06/26/2018 13:56	WG1129856
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	06/26/2018 13:56	WG1129856
Methyl tert-butyl ether	U		0.000367	0.00100	1	06/26/2018 13:56	WG1129856
Naphthalene	U		0.00100	0.00500	1	06/26/2018 13:56	WG1129856
n-Propylbenzene	U		0.000349	0.00100	1	06/26/2018 13:56	WG1129856
Styrene	U		0.000307	0.00100	1	06/26/2018 13:56	WG1129856
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	06/26/2018 13:56	WG1129856
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	06/26/2018 13:56	WG1129856
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	06/26/2018 13:56	WG1129856
Tetrachloroethene	U		0.000372	0.00100	1	06/26/2018 13:56	WG1129856
Toluene	U		0.000412	0.00100	1	06/26/2018 13:56	WG1129856
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	06/26/2018 13:56	WG1129856
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	06/26/2018 13:56	WG1129856
1,1,1-Trichloroethane	U		0.000319	0.00100	1	06/26/2018 13:56	WG1129856
1,1,2-Trichloroethane	U		0.000383	0.00100	1	06/26/2018 13:56	WG1129856
Trichloroethene	U		0.000398	0.00100	1	06/26/2018 13:56	WG1129856
Trichlorofluoromethane	U		0.00120	0.00500	1	06/26/2018 13:56	WG1129856
1,2,3-Trichloropropane	U	J4	0.000807	0.00250	1	06/26/2018 13:56	WG1129856
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	06/26/2018 13:56	WG1129856
1,2,3-Trimethylbenzene	U		0.000321	0.00100	1	06/26/2018 13:56	WG1129856
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	06/26/2018 13:56	WG1129856
Vinyl chloride	U		0.000259	0.00100	1	06/26/2018 13:56	WG1129856
Xylenes, Total	U		0.00106	0.00300	1	06/26/2018 13:56	WG1129856
(S) Toluene-d8	94.8			80.0-120		06/26/2018 13:56	WG1129856
(S) Dibromofluoromethane	103			76.0-123		06/26/2018 13:56	WG1129856
(S) 4-Bromofluorobenzene	104			80.0-120		06/26/2018 13:56	WG1129856

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 06/22/18 10:18

L1004431

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.000316	0.00100	1	06/27/2018 04:17	WG1127950
Acenaphthylene	U		0.000309	0.00100	1	06/27/2018 04:17	WG1127950
Anthracene	U		0.000291	0.00100	1	06/27/2018 04:17	WG1127950
Benzidine	U		0.00432	0.0100	1	06/27/2018 04:17	WG1127950
Benzo(a)anthracene	U		0.0000975	0.00100	1	06/27/2018 04:17	WG1127950
Benzo(b)fluoranthene	U		0.0000896	0.00100	1	06/27/2018 04:17	WG1127950
Benzo(k)fluoranthene	U		0.000355	0.00100	1	06/27/2018 04:17	WG1127950
Benzo(g,h,i)perylene	U		0.000161	0.00100	1	06/27/2018 04:17	WG1127950
Benzo(a)pyrene	U		0.000340	0.00100	1	06/27/2018 04:17	WG1127950
Bis(2-chlorethoxy)methane	U		0.000329	0.0100	1	06/27/2018 04:17	WG1127950
Bis(2-chloroethyl)ether	U		0.00162	0.0100	1	06/27/2018 04:17	WG1127950
Bis(2-chloroisopropyl)ether	U		0.000445	0.0100	1	06/27/2018 04:17	WG1127950
4-Bromophenyl-phenylether	U		0.000335	0.0100	1	06/27/2018 04:17	WG1127950
2-Chloronaphthalene	U		0.000330	0.00100	1	06/27/2018 04:17	WG1127950
4-Chlorophenyl-phenylether	U		0.000303	0.0100	1	06/27/2018 04:17	WG1127950
Chrysene	U		0.000332	0.00100	1	06/27/2018 04:17	WG1127950
Dibenz(a,h)anthracene	U		0.000279	0.00100	1	06/27/2018 04:17	WG1127950
3,3-Dichlorobenzidine	U		0.00202	0.0100	1	06/27/2018 04:17	WG1127950
2,4-Dinitrotoluene	U		0.00165	0.0100	1	06/27/2018 04:17	WG1127950
2,6-Dinitrotoluene	U		0.000279	0.0100	1	06/27/2018 04:17	WG1127950
Fluoranthene	U		0.000310	0.00100	1	06/27/2018 04:17	WG1127950
Fluorene	U		0.000323	0.00100	1	06/27/2018 04:17	WG1127950
Hexachlorobenzene	U		0.000341	0.00100	1	06/27/2018 04:17	WG1127950
Hexachloro-1,3-butadiene	U		0.000329	0.0100	1	06/27/2018 04:17	WG1127950
Hexachlorocyclopentadiene	U		0.00233	0.0100	1	06/27/2018 04:17	WG1127950
Hexachloroethane	U		0.000365	0.0100	1	06/27/2018 04:17	WG1127950
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	06/27/2018 04:17	WG1127950
Isophorone	U		0.000272	0.0100	1	06/27/2018 04:17	WG1127950
Naphthalene	U		0.000372	0.00100	1	06/27/2018 04:17	WG1127950
Nitrobenzene	U		0.000367	0.0100	1	06/27/2018 04:17	WG1127950
n-Nitrosodimethylamine	U		0.00126	0.0100	1	06/27/2018 04:17	WG1127950
n-Nitrosodiphenylamine	U		0.000304	0.0100	1	06/27/2018 04:17	WG1127950
n-Nitrosodi-n-propylamine	U		0.000403	0.0100	1	06/27/2018 04:17	WG1127950
Phenanthrene	U		0.000366	0.00100	1	06/27/2018 04:17	WG1127950
Benzylbutyl phthalate	U		0.000275	0.00300	1	06/27/2018 04:17	WG1127950
Bis(2-ethylhexyl)phthalate	U		0.000709	0.00300	1	06/27/2018 04:17	WG1127950
Di-n-butyl phthalate	U		0.000266	0.00300	1	06/27/2018 04:17	WG1127950
Diethyl phthalate	U		0.000282	0.00300	1	06/27/2018 04:17	WG1127950
Dimethyl phthalate	U		0.000283	0.00300	1	06/27/2018 04:17	WG1127950
Di-n-octyl phthalate	U		0.000278	0.00300	1	06/27/2018 04:17	WG1127950
Pyrene	U		0.000330	0.00100	1	06/27/2018 04:17	WG1127950
1,2,4-Trichlorobenzene	U		0.000355	0.0100	1	06/27/2018 04:17	WG1127950
4-Chloro-3-methylphenol	U		0.000263	0.0100	1	06/27/2018 04:17	WG1127950
2-Chlorophenol	U		0.000283	0.0100	1	06/27/2018 04:17	WG1127950
2,4-Dichlorophenol	U		0.000284	0.0100	1	06/27/2018 04:17	WG1127950
2,4-Dimethylphenol	U		0.000624	0.0100	1	06/27/2018 04:17	WG1127950
4,6-Dinitro-2-methylphenol	U		0.00262	0.0100	1	06/27/2018 04:17	WG1127950
2,4-Dinitrophenol	U		0.00325	0.0100	1	06/27/2018 04:17	WG1127950
2-Nitrophenol	U		0.000320	0.0100	1	06/27/2018 04:17	WG1127950
4-Nitrophenol	U		0.00201	0.0100	1	06/27/2018 04:17	WG1127950
Pentachlorophenol	U		0.000313	0.0100	1	06/27/2018 04:17	WG1127950
Phenol	U		0.000334	0.0100	1	06/27/2018 04:17	WG1127950
2,4,6-Trichlorophenol	U		0.000297	0.0100	1	06/27/2018 04:17	WG1127950
(S) 2-Fluorophenol	47.0			10.0-120		06/27/2018 04:17	WG1127950
(S) Phenol-d5	34.5			10.0-120		06/27/2018 04:17	WG1127950
(S) Nitrobenzene-d5	58.1			10.0-126		06/27/2018 04:17	WG1127950

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



Collected date/time: 06/22/18 10:18

L1004431

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	61.8			22.0-127		06/27/2018 04:17	WG1127950
(S) 2,4,6-Tribromophenol	51.4			10.0-153		06/27/2018 04:17	WG1127950
(S) p-Terphenyl-d14	64.0			29.0-141		06/27/2018 04:17	WG1127950

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.0000490	0.000200	1	06/27/2018 13:29	WG1130267

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum	0.104	J	0.0350	0.200	1	06/27/2018 12:33	WG1130039
Arsenic	U		0.00650	0.0100	1	06/27/2018 12:33	WG1130039
Barium	0.0469		0.00170	0.00500	1	06/27/2018 12:33	WG1130039
Beryllium	U		0.000700	0.00200	1	06/27/2018 12:33	WG1130039
Cadmium	U		0.000700	0.00200	1	06/27/2018 12:33	WG1130039
Calcium	21.6		0.0463	1.00	1	06/27/2018 12:33	WG1130039
Chromium	U		0.00140	0.0100	1	06/27/2018 12:33	WG1130039
Cobalt	U		0.00230	0.0100	1	06/27/2018 12:33	WG1130039
Copper	0.00566	J	0.00530	0.0100	1	06/27/2018 12:33	WG1130039
Iron	0.555		0.0141	0.100	1	06/27/2018 12:33	WG1130039
Magnesium	6.21		0.0111	1.00	1	06/27/2018 12:33	WG1130039
Manganese	0.0267		0.00120	0.0100	1	06/27/2018 12:33	WG1130039
Nickel	U		0.00490	0.0100	1	06/27/2018 12:33	WG1130039
Potassium	2.42		0.102	1.00	1	06/27/2018 12:33	WG1130039
Silver	U		0.00280	0.00500	1	06/27/2018 12:33	WG1130039
Sodium	11.7		0.0985	1.00	1	06/27/2018 12:33	WG1130039
Vanadium	U		0.00240	0.0200	1	06/27/2018 12:33	WG1130039
Zinc	0.0135	B J	0.00590	0.0500	1	06/27/2018 12:33	WG1130039

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	U		0.000754	0.00200	1	06/27/2018 02:57	WG1130205
Lead	0.000695	J	0.000240	0.00200	1	06/27/2018 02:57	WG1130205
Selenium	U		0.000380	0.00200	1	06/27/2018 02:57	WG1130205
Thallium	U		0.000190	0.00200	1	06/27/2018 02:57	WG1130205

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	06/26/2018 14:15	WG1129856
Acrolein	U		0.00887	0.0500	1	06/26/2018 14:15	WG1129856
Acrylonitrile	U		0.00187	0.0100	1	06/26/2018 14:15	WG1129856
Benzene	U		0.000331	0.00100	1	06/26/2018 14:15	WG1129856
Bromobenzene	U		0.000352	0.00100	1	06/26/2018 14:15	WG1129856
Bromodichloromethane	U		0.000380	0.00100	1	06/26/2018 14:15	WG1129856
Bromoform	U		0.000469	0.00100	1	06/26/2018 14:15	WG1129856
Bromomethane	U		0.000866	0.00500	1	06/26/2018 14:15	WG1129856
n-Butylbenzene	U		0.000361	0.00100	1	06/26/2018 14:15	WG1129856
sec-Butylbenzene	U		0.000365	0.00100	1	06/26/2018 14:15	WG1129856
tert-Butylbenzene	U		0.000399	0.00100	1	06/26/2018 14:15	WG1129856
Carbon tetrachloride	U		0.000379	0.00100	1	06/26/2018 14:15	WG1129856
Chlorobenzene	U		0.000348	0.00100	1	06/26/2018 14:15	WG1129856
Chlorodibromomethane	U		0.000327	0.00100	1	06/26/2018 14:15	WG1129856
Chloroethane	U		0.000453	0.00500	1	06/26/2018 14:15	WG1129856
Chloroform	U		0.000324	0.00500	1	06/26/2018 14:15	WG1129856
Chloromethane	U		0.000276	0.00250	1	06/26/2018 14:15	WG1129856
2-Chlorotoluene	U		0.000375	0.00100	1	06/26/2018 14:15	WG1129856
4-Chlorotoluene	U		0.000351	0.00100	1	06/26/2018 14:15	WG1129856



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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	06/26/2018 14:15	WG1129856
1,2-Dibromoethane	U		0.000381	0.00100	1	06/26/2018 14:15	WG1129856
Dibromomethane	U		0.000346	0.00100	1	06/26/2018 14:15	WG1129856
1,2-Dichlorobenzene	U	J4	0.000349	0.00100	1	06/26/2018 14:15	WG1129856
1,3-Dichlorobenzene	U		0.000220	0.00100	1	06/26/2018 14:15	WG1129856
1,4-Dichlorobenzene	U		0.000274	0.00100	1	06/26/2018 14:15	WG1129856
Dichlorodifluoromethane	U		0.000551	0.00500	1	06/26/2018 14:15	WG1129856
1,1-Dichloroethane	U		0.000259	0.00100	1	06/26/2018 14:15	WG1129856
1,2-Dichloroethane	U		0.000361	0.00100	1	06/26/2018 14:15	WG1129856
1,1-Dichloroethene	U		0.000398	0.00100	1	06/26/2018 14:15	WG1129856
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	06/26/2018 14:15	WG1129856
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	06/26/2018 14:15	WG1129856
1,2-Dichloropropane	U		0.000306	0.00100	1	06/26/2018 14:15	WG1129856
1,1-Dichloropropene	U		0.000352	0.00100	1	06/26/2018 14:15	WG1129856
1,3-Dichloropropane	U	J4	0.000366	0.00100	1	06/26/2018 14:15	WG1129856
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	06/26/2018 14:15	WG1129856
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	06/26/2018 14:15	WG1129856
2,2-Dichloropropane	U		0.000321	0.00100	1	06/26/2018 14:15	WG1129856
Di-isopropyl ether	U		0.000320	0.00100	1	06/26/2018 14:15	WG1129856
Ethylbenzene	U		0.000384	0.00100	1	06/26/2018 14:15	WG1129856
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	06/26/2018 14:15	WG1129856
Isopropylbenzene	U		0.000326	0.00100	1	06/26/2018 14:15	WG1129856
p-Isopropyltoluene	U		0.000350	0.00100	1	06/26/2018 14:15	WG1129856
2-Butanone (MEK)	U		0.00393	0.0100	1	06/26/2018 14:15	WG1129856
Methylene Chloride	U		0.00100	0.00500	1	06/26/2018 14:15	WG1129856
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	06/26/2018 14:15	WG1129856
Methyl tert-butyl ether	U		0.000367	0.00100	1	06/26/2018 14:15	WG1129856
Naphthalene	U		0.00100	0.00500	1	06/26/2018 14:15	WG1129856
n-Propylbenzene	U		0.000349	0.00100	1	06/26/2018 14:15	WG1129856
Styrene	U		0.000307	0.00100	1	06/26/2018 14:15	WG1129856
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	06/26/2018 14:15	WG1129856
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	06/26/2018 14:15	WG1129856
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	06/26/2018 14:15	WG1129856
Tetrachloroethene	U		0.000372	0.00100	1	06/26/2018 14:15	WG1129856
Toluene	U		0.000412	0.00100	1	06/26/2018 14:15	WG1129856
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	06/26/2018 14:15	WG1129856
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	06/26/2018 14:15	WG1129856
1,1,1-Trichloroethane	U		0.000319	0.00100	1	06/26/2018 14:15	WG1129856
1,1,2-Trichloroethane	U		0.000383	0.00100	1	06/26/2018 14:15	WG1129856
Trichloroethene	U		0.000398	0.00100	1	06/26/2018 14:15	WG1129856
Trichlorofluoromethane	U		0.00120	0.00500	1	06/26/2018 14:15	WG1129856
1,2,3-Trichloropropane	U	J4	0.000807	0.00250	1	06/26/2018 14:15	WG1129856
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	06/26/2018 14:15	WG1129856
1,2,3-Trimethylbenzene	U		0.000321	0.00100	1	06/26/2018 14:15	WG1129856
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	06/26/2018 14:15	WG1129856
Vinyl chloride	U		0.000259	0.00100	1	06/26/2018 14:15	WG1129856
Xylenes, Total	U		0.00106	0.00300	1	06/26/2018 14:15	WG1129856
(S) Toluene-d8	95.8			80.0-120		06/26/2018 14:15	WG1129856
(S) Dibromofluoromethane	103			76.0-123		06/26/2018 14:15	WG1129856
(S) 4-Bromofluorobenzene	107			80.0-120		06/26/2018 14:15	WG1129856

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 06/22/18 11:00

L1004431

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.000316	0.00100	1	06/27/2018 03:07	WG1127950
Acenaphthylene	U		0.000309	0.00100	1	06/27/2018 03:07	WG1127950
Anthracene	U		0.000291	0.00100	1	06/27/2018 03:07	WG1127950
Benzidine	U		0.00432	0.0100	1	06/27/2018 03:07	WG1127950
Benzo(a)anthracene	U		0.0000975	0.00100	1	06/27/2018 03:07	WG1127950
Benzo(b)fluoranthene	U		0.0000896	0.00100	1	06/27/2018 03:07	WG1127950
Benzo(k)fluoranthene	U		0.000355	0.00100	1	06/27/2018 03:07	WG1127950
Benzo(g,h,i)perylene	U		0.000161	0.00100	1	06/27/2018 03:07	WG1127950
Benzo(a)pyrene	U		0.000340	0.00100	1	06/27/2018 03:07	WG1127950
Bis(2-chlorethoxy)methane	U		0.000329	0.0100	1	06/27/2018 03:07	WG1127950
Bis(2-chloroethyl)ether	U		0.00162	0.0100	1	06/27/2018 03:07	WG1127950
Bis(2-chloroisopropyl)ether	U		0.000445	0.0100	1	06/27/2018 03:07	WG1127950
4-Bromophenyl-phenylether	U		0.000335	0.0100	1	06/27/2018 03:07	WG1127950
2-Chloronaphthalene	U		0.000330	0.00100	1	06/27/2018 03:07	WG1127950
4-Chlorophenyl-phenylether	U		0.000303	0.0100	1	06/27/2018 03:07	WG1127950
Chrysene	U		0.000332	0.00100	1	06/27/2018 03:07	WG1127950
Dibenz(a,h)anthracene	U		0.000279	0.00100	1	06/27/2018 03:07	WG1127950
3,3-Dichlorobenzidine	U		0.00202	0.0100	1	06/27/2018 03:07	WG1127950
2,4-Dinitrotoluene	U		0.00165	0.0100	1	06/27/2018 03:07	WG1127950
2,6-Dinitrotoluene	U		0.000279	0.0100	1	06/27/2018 03:07	WG1127950
Fluoranthene	U		0.000310	0.00100	1	06/27/2018 03:07	WG1127950
Fluorene	U		0.000323	0.00100	1	06/27/2018 03:07	WG1127950
Hexachlorobenzene	U		0.000341	0.00100	1	06/27/2018 03:07	WG1127950
Hexachloro-1,3-butadiene	U		0.000329	0.0100	1	06/27/2018 03:07	WG1127950
Hexachlorocyclopentadiene	U		0.00233	0.0100	1	06/27/2018 03:07	WG1127950
Hexachloroethane	U		0.000365	0.0100	1	06/27/2018 03:07	WG1127950
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	06/27/2018 03:07	WG1127950
Isophorone	U		0.000272	0.0100	1	06/27/2018 03:07	WG1127950
Naphthalene	U		0.000372	0.00100	1	06/27/2018 03:07	WG1127950
Nitrobenzene	U		0.000367	0.0100	1	06/27/2018 03:07	WG1127950
n-Nitrosodimethylamine	U		0.00126	0.0100	1	06/27/2018 03:07	WG1127950
n-Nitrosodiphenylamine	U		0.000304	0.0100	1	06/27/2018 03:07	WG1127950
n-Nitrosodi-n-propylamine	U		0.000403	0.0100	1	06/27/2018 03:07	WG1127950
Phenanthrene	U		0.000366	0.00100	1	06/27/2018 03:07	WG1127950
Benzylbutyl phthalate	U		0.000275	0.00300	1	06/27/2018 03:07	WG1127950
Bis(2-ethylhexyl)phthalate	U		0.000709	0.00300	1	06/27/2018 03:07	WG1127950
Di-n-butyl phthalate	U		0.000266	0.00300	1	06/27/2018 03:07	WG1127950
Diethyl phthalate	U		0.000282	0.00300	1	06/27/2018 03:07	WG1127950
Dimethyl phthalate	U		0.000283	0.00300	1	06/27/2018 03:07	WG1127950
Di-n-octyl phthalate	U		0.000278	0.00300	1	06/27/2018 03:07	WG1127950
Pyrene	U		0.000330	0.00100	1	06/27/2018 03:07	WG1127950
1,2,4-Trichlorobenzene	U		0.000355	0.0100	1	06/27/2018 03:07	WG1127950
4-Chloro-3-methylphenol	U		0.000263	0.0100	1	06/27/2018 03:07	WG1127950
2-Chlorophenol	U		0.000283	0.0100	1	06/27/2018 03:07	WG1127950
2,4-Dichlorophenol	U		0.000284	0.0100	1	06/27/2018 03:07	WG1127950
2,4-Dimethylphenol	U		0.000624	0.0100	1	06/27/2018 03:07	WG1127950
4,6-Dinitro-2-methylphenol	U		0.00262	0.0100	1	06/27/2018 03:07	WG1127950
2,4-Dinitrophenol	U		0.00325	0.0100	1	06/27/2018 03:07	WG1127950
2-Nitrophenol	U		0.000320	0.0100	1	06/27/2018 03:07	WG1127950
4-Nitrophenol	U		0.00201	0.0100	1	06/27/2018 03:07	WG1127950
Pentachlorophenol	U		0.000313	0.0100	1	06/27/2018 03:07	WG1127950
Phenol	U		0.000334	0.0100	1	06/27/2018 03:07	WG1127950
2,4,6-Trichlorophenol	U		0.000297	0.0100	1	06/27/2018 03:07	WG1127950
(S) 2-Fluorophenol	49.2			10.0-120		06/27/2018 03:07	WG1127950
(S) Phenol-d5	38.4			10.0-120		06/27/2018 03:07	WG1127950
(S) Nitrobenzene-d5	66.8			10.0-126		06/27/2018 03:07	WG1127950

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



Collected date/time: 06/22/18 11:00

L1004431

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	64.8			22.0-127		06/27/2018 03:07	WG1127950
(S) 2,4,6-Tribromophenol	54.2			10.0-153		06/27/2018 03:07	WG1127950
(S) p-Terphenyl-d14	70.8			29.0-141		06/27/2018 03:07	WG1127950

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Mercury	U		0.0000490	0.000200	1	06/27/2018 13:31	WG1130267

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Aluminum	0.208		0.0350	0.200	1	06/27/2018 12:36	WG1130039
Arsenic	U		0.00650	0.0100	1	06/27/2018 12:36	WG1130039
Barium	0.0460		0.00170	0.00500	1	06/27/2018 12:36	WG1130039
Beryllium	U		0.000700	0.00200	1	06/27/2018 12:36	WG1130039
Cadmium	U		0.000700	0.00200	1	06/27/2018 12:36	WG1130039
Calcium	21.2		0.0463	1.00	1	06/27/2018 12:36	WG1130039
Chromium	U		0.00140	0.0100	1	06/27/2018 12:36	WG1130039
Cobalt	U		0.00230	0.0100	1	06/27/2018 12:36	WG1130039
Copper	0.00570	J	0.00530	0.0100	1	06/27/2018 12:36	WG1130039
Iron	0.544		0.0141	0.100	1	06/27/2018 12:36	WG1130039
Magnesium	5.94		0.0111	1.00	1	06/27/2018 12:36	WG1130039
Manganese	0.0214		0.00120	0.0100	1	06/27/2018 12:36	WG1130039
Nickel	U		0.00490	0.0100	1	06/27/2018 12:36	WG1130039
Potassium	2.37		0.102	1.00	1	06/27/2018 12:36	WG1130039
Silver	U		0.00280	0.00500	1	06/27/2018 12:36	WG1130039
Sodium	11.4		0.0985	1.00	1	06/27/2018 12:36	WG1130039
Vanadium	0.0141	B J	0.00240	0.0200	1	06/27/2018 12:36	WG1130039
Zinc	0.0123	B J	0.00590	0.0500	1	06/27/2018 12:36	WG1130039

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Antimony	U		0.000754	0.00200	1	06/27/2018 03:01	WG1130205
Lead	0.000770	J	0.000240	0.00200	1	06/27/2018 03:01	WG1130205
Selenium	U		0.000380	0.00200	1	06/27/2018 03:01	WG1130205
Thallium	U		0.000190	0.00200	1	06/27/2018 03:01	WG1130205

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	06/26/2018 14:35	WG1129856
Acrolein	U		0.00887	0.0500	1	06/26/2018 14:35	WG1129856
Acrylonitrile	U		0.00187	0.0100	1	06/26/2018 14:35	WG1129856
Benzene	U		0.000331	0.00100	1	06/26/2018 14:35	WG1129856
Bromobenzene	U		0.000352	0.00100	1	06/26/2018 14:35	WG1129856
Bromodichloromethane	U		0.000380	0.00100	1	06/26/2018 14:35	WG1129856
Bromoform	U		0.000469	0.00100	1	06/26/2018 14:35	WG1129856
Bromomethane	U		0.000866	0.00500	1	06/26/2018 14:35	WG1129856
n-Butylbenzene	U		0.000361	0.00100	1	06/26/2018 14:35	WG1129856
sec-Butylbenzene	U		0.000365	0.00100	1	06/26/2018 14:35	WG1129856
tert-Butylbenzene	U		0.000399	0.00100	1	06/26/2018 14:35	WG1129856
Carbon tetrachloride	U		0.000379	0.00100	1	06/26/2018 14:35	WG1129856
Chlorobenzene	U		0.000348	0.00100	1	06/26/2018 14:35	WG1129856
Chlorodibromomethane	U		0.000327	0.00100	1	06/26/2018 14:35	WG1129856
Chloroethane	U		0.000453	0.00500	1	06/26/2018 14:35	WG1129856
Chloroform	U		0.000324	0.00500	1	06/26/2018 14:35	WG1129856
Chloromethane	U		0.000276	0.00250	1	06/26/2018 14:35	WG1129856
2-Chlorotoluene	U		0.000375	0.00100	1	06/26/2018 14:35	WG1129856
4-Chlorotoluene	U		0.000351	0.00100	1	06/26/2018 14:35	WG1129856



Collected date/time: 06/22/18 11:50

L1004431

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	06/26/2018 14:35	WG1129856
1,2-Dibromoethane	U		0.000381	0.00100	1	06/26/2018 14:35	WG1129856
Dibromomethane	U		0.000346	0.00100	1	06/26/2018 14:35	WG1129856
1,2-Dichlorobenzene	U	J4	0.000349	0.00100	1	06/26/2018 14:35	WG1129856
1,3-Dichlorobenzene	U		0.000220	0.00100	1	06/26/2018 14:35	WG1129856
1,4-Dichlorobenzene	U		0.000274	0.00100	1	06/26/2018 14:35	WG1129856
Dichlorodifluoromethane	U		0.000551	0.00500	1	06/26/2018 14:35	WG1129856
1,1-Dichloroethane	U		0.000259	0.00100	1	06/26/2018 14:35	WG1129856
1,2-Dichloroethane	U		0.000361	0.00100	1	06/26/2018 14:35	WG1129856
1,1-Dichloroethene	U		0.000398	0.00100	1	06/26/2018 14:35	WG1129856
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	06/26/2018 14:35	WG1129856
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	06/26/2018 14:35	WG1129856
1,2-Dichloropropane	U		0.000306	0.00100	1	06/26/2018 14:35	WG1129856
1,1-Dichloropropene	U		0.000352	0.00100	1	06/26/2018 14:35	WG1129856
1,3-Dichloropropane	U	J4	0.000366	0.00100	1	06/26/2018 14:35	WG1129856
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	06/26/2018 14:35	WG1129856
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	06/26/2018 14:35	WG1129856
2,2-Dichloropropane	U		0.000321	0.00100	1	06/26/2018 14:35	WG1129856
Di-isopropyl ether	U		0.000320	0.00100	1	06/26/2018 14:35	WG1129856
Ethylbenzene	U		0.000384	0.00100	1	06/26/2018 14:35	WG1129856
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	06/26/2018 14:35	WG1129856
Isopropylbenzene	U		0.000326	0.00100	1	06/26/2018 14:35	WG1129856
p-Isopropyltoluene	U		0.000350	0.00100	1	06/26/2018 14:35	WG1129856
2-Butanone (MEK)	U		0.00393	0.0100	1	06/26/2018 14:35	WG1129856
Methylene Chloride	U		0.00100	0.00500	1	06/26/2018 14:35	WG1129856
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	06/26/2018 14:35	WG1129856
Methyl tert-butyl ether	U		0.000367	0.00100	1	06/26/2018 14:35	WG1129856
Naphthalene	U		0.00100	0.00500	1	06/26/2018 14:35	WG1129856
n-Propylbenzene	U		0.000349	0.00100	1	06/26/2018 14:35	WG1129856
Styrene	U		0.000307	0.00100	1	06/26/2018 14:35	WG1129856
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	06/26/2018 14:35	WG1129856
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	06/26/2018 14:35	WG1129856
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	06/26/2018 14:35	WG1129856
Tetrachloroethene	U		0.000372	0.00100	1	06/26/2018 14:35	WG1129856
Toluene	U		0.000412	0.00100	1	06/26/2018 14:35	WG1129856
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	06/26/2018 14:35	WG1129856
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	06/26/2018 14:35	WG1129856
1,1,1-Trichloroethane	U		0.000319	0.00100	1	06/26/2018 14:35	WG1129856
1,1,2-Trichloroethane	U		0.000383	0.00100	1	06/26/2018 14:35	WG1129856
Trichloroethene	U		0.000398	0.00100	1	06/26/2018 14:35	WG1129856
Trichlorofluoromethane	U		0.00120	0.00500	1	06/26/2018 14:35	WG1129856
1,2,3-Trichloropropane	U	J4	0.000807	0.00250	1	06/26/2018 14:35	WG1129856
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	06/26/2018 14:35	WG1129856
1,2,3-Trimethylbenzene	U		0.000321	0.00100	1	06/26/2018 14:35	WG1129856
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	06/26/2018 14:35	WG1129856
Vinyl chloride	U		0.000259	0.00100	1	06/26/2018 14:35	WG1129856
Xylenes, Total	U		0.00106	0.00300	1	06/26/2018 14:35	WG1129856
(S) Toluene-d8	96.0			80.0-120		06/26/2018 14:35	WG1129856
(S) Dibromofluoromethane	104			76.0-123		06/26/2018 14:35	WG1129856
(S) 4-Bromofluorobenzene	105			80.0-120		06/26/2018 14:35	WG1129856

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 06/22/18 11:50

L1004431

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.000316	0.00100	1	06/27/2018 03:30	WG1127950
Acenaphthylene	U		0.000309	0.00100	1	06/27/2018 03:30	WG1127950
Anthracene	U		0.000291	0.00100	1	06/27/2018 03:30	WG1127950
Benzidine	U		0.00432	0.0100	1	06/27/2018 03:30	WG1127950
Benzo(a)anthracene	U		0.0000975	0.00100	1	06/27/2018 03:30	WG1127950
Benzo(b)fluoranthene	U		0.0000896	0.00100	1	06/27/2018 03:30	WG1127950
Benzo(k)fluoranthene	U		0.000355	0.00100	1	06/27/2018 03:30	WG1127950
Benzo(g,h,i)perylene	U		0.000161	0.00100	1	06/27/2018 03:30	WG1127950
Benzo(a)pyrene	U		0.000340	0.00100	1	06/27/2018 03:30	WG1127950
Bis(2-chlorethoxy)methane	U		0.000329	0.0100	1	06/27/2018 03:30	WG1127950
Bis(2-chloroethyl)ether	U		0.00162	0.0100	1	06/27/2018 03:30	WG1127950
Bis(2-chloroisopropyl)ether	U		0.000445	0.0100	1	06/27/2018 03:30	WG1127950
4-Bromophenyl-phenylether	U		0.000335	0.0100	1	06/27/2018 03:30	WG1127950
2-Chloronaphthalene	U		0.000330	0.00100	1	06/27/2018 03:30	WG1127950
4-Chlorophenyl-phenylether	U		0.000303	0.0100	1	06/27/2018 03:30	WG1127950
Chrysene	U		0.000332	0.00100	1	06/27/2018 03:30	WG1127950
Dibenz(a,h)anthracene	U		0.000279	0.00100	1	06/27/2018 03:30	WG1127950
3,3-Dichlorobenzidine	U		0.00202	0.0100	1	06/27/2018 03:30	WG1127950
2,4-Dinitrotoluene	U		0.00165	0.0100	1	06/27/2018 03:30	WG1127950
2,6-Dinitrotoluene	U		0.000279	0.0100	1	06/27/2018 03:30	WG1127950
Fluoranthene	U		0.000310	0.00100	1	06/27/2018 03:30	WG1127950
Fluorene	U		0.000323	0.00100	1	06/27/2018 03:30	WG1127950
Hexachlorobenzene	U		0.000341	0.00100	1	06/27/2018 03:30	WG1127950
Hexachloro-1,3-butadiene	U		0.000329	0.0100	1	06/27/2018 03:30	WG1127950
Hexachlorocyclopentadiene	U		0.00233	0.0100	1	06/27/2018 03:30	WG1127950
Hexachloroethane	U		0.000365	0.0100	1	06/27/2018 03:30	WG1127950
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100	1	06/27/2018 03:30	WG1127950
Isophorone	U		0.000272	0.0100	1	06/27/2018 03:30	WG1127950
Naphthalene	U		0.000372	0.00100	1	06/27/2018 03:30	WG1127950
Nitrobenzene	U		0.000367	0.0100	1	06/27/2018 03:30	WG1127950
n-Nitrosodimethylamine	U		0.00126	0.0100	1	06/27/2018 03:30	WG1127950
n-Nitrosodiphenylamine	U		0.000304	0.0100	1	06/27/2018 03:30	WG1127950
n-Nitrosodi-n-propylamine	U		0.000403	0.0100	1	06/27/2018 03:30	WG1127950
Phenanthrene	U		0.000366	0.00100	1	06/27/2018 03:30	WG1127950
Benzylbutyl phthalate	U		0.000275	0.00300	1	06/27/2018 03:30	WG1127950
Bis(2-ethylhexyl)phthalate	U		0.000709	0.00300	1	06/27/2018 03:30	WG1127950
Di-n-butyl phthalate	U		0.000266	0.00300	1	06/27/2018 03:30	WG1127950
Diethyl phthalate	U		0.000282	0.00300	1	06/27/2018 03:30	WG1127950
Dimethyl phthalate	U		0.000283	0.00300	1	06/27/2018 03:30	WG1127950
Di-n-octyl phthalate	U		0.000278	0.00300	1	06/27/2018 03:30	WG1127950
Pyrene	U		0.000330	0.00100	1	06/27/2018 03:30	WG1127950
1,2,4-Trichlorobenzene	U		0.000355	0.0100	1	06/27/2018 03:30	WG1127950
4-Chloro-3-methylphenol	U		0.000263	0.0100	1	06/27/2018 03:30	WG1127950
2-Chlorophenol	U		0.000283	0.0100	1	06/27/2018 03:30	WG1127950
2,4-Dichlorophenol	U		0.000284	0.0100	1	06/27/2018 03:30	WG1127950
2,4-Dimethylphenol	U		0.000624	0.0100	1	06/27/2018 03:30	WG1127950
4,6-Dinitro-2-methylphenol	U		0.00262	0.0100	1	06/27/2018 03:30	WG1127950
2,4-Dinitrophenol	U		0.00325	0.0100	1	06/27/2018 03:30	WG1127950
2-Nitrophenol	U		0.000320	0.0100	1	06/27/2018 03:30	WG1127950
4-Nitrophenol	U		0.00201	0.0100	1	06/27/2018 03:30	WG1127950
Pentachlorophenol	U		0.000313	0.0100	1	06/27/2018 03:30	WG1127950
Phenol	U		0.000334	0.0100	1	06/27/2018 03:30	WG1127950
2,4,6-Trichlorophenol	U		0.000297	0.0100	1	06/27/2018 03:30	WG1127950
(S) 2-Fluorophenol	39.1			10.0-120		06/27/2018 03:30	WG1127950
(S) Phenol-d5	31.1			10.0-120		06/27/2018 03:30	WG1127950
(S) Nitrobenzene-d5	53.2			10.0-126		06/27/2018 03:30	WG1127950

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



Collected date/time: 06/22/18 11:50

L1004431

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) 2-Fluorobiphenyl	54.6			22.0-127		06/27/2018 03:30	WG1127950
(S) 2,4,6-Tribromophenol	44.6			10.0-153		06/27/2018 03:30	WG1127950
(S) p-Terphenyl-d14	57.0			29.0-141		06/27/2018 03:30	WG1127950

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	06/26/2018 14:54	WG1129856
Acrolein	U		0.00887	0.0500	1	06/26/2018 14:54	WG1129856
Acrylonitrile	U		0.00187	0.0100	1	06/26/2018 14:54	WG1129856
Benzene	U		0.000331	0.00100	1	06/26/2018 14:54	WG1129856
Bromobenzene	U		0.000352	0.00100	1	06/26/2018 14:54	WG1129856
Bromodichloromethane	U		0.000380	0.00100	1	06/26/2018 14:54	WG1129856
Bromoform	U		0.000469	0.00100	1	06/26/2018 14:54	WG1129856
Bromomethane	U		0.000866	0.00500	1	06/26/2018 14:54	WG1129856
n-Butylbenzene	U		0.000361	0.00100	1	06/26/2018 14:54	WG1129856
sec-Butylbenzene	U		0.000365	0.00100	1	06/26/2018 14:54	WG1129856
tert-Butylbenzene	U		0.000399	0.00100	1	06/26/2018 14:54	WG1129856
Carbon tetrachloride	U		0.000379	0.00100	1	06/26/2018 14:54	WG1129856
Chlorobenzene	U		0.000348	0.00100	1	06/26/2018 14:54	WG1129856
Chlorodibromomethane	U		0.000327	0.00100	1	06/26/2018 14:54	WG1129856
Chloroethane	U		0.000453	0.00500	1	06/26/2018 14:54	WG1129856
Chloroform	U		0.000324	0.00500	1	06/26/2018 14:54	WG1129856
Chloromethane	U		0.000276	0.00250	1	06/26/2018 14:54	WG1129856
2-Chlorotoluene	U		0.000375	0.00100	1	06/26/2018 14:54	WG1129856
4-Chlorotoluene	U		0.000351	0.00100	1	06/26/2018 14:54	WG1129856
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500	1	06/26/2018 14:54	WG1129856
1,2-Dibromoethane	U		0.000381	0.00100	1	06/26/2018 14:54	WG1129856
Dibromomethane	U		0.000346	0.00100	1	06/26/2018 14:54	WG1129856
1,2-Dichlorobenzene	U	J4	0.000349	0.00100	1	06/26/2018 14:54	WG1129856
1,3-Dichlorobenzene	U		0.000220	0.00100	1	06/26/2018 14:54	WG1129856
1,4-Dichlorobenzene	U		0.000274	0.00100	1	06/26/2018 14:54	WG1129856
Dichlorodifluoromethane	U		0.000551	0.00500	1	06/26/2018 14:54	WG1129856
1,1-Dichloroethane	U		0.000259	0.00100	1	06/26/2018 14:54	WG1129856
1,2-Dichloroethane	U		0.000361	0.00100	1	06/26/2018 14:54	WG1129856
1,1-Dichloroethene	U		0.000398	0.00100	1	06/26/2018 14:54	WG1129856
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	06/26/2018 14:54	WG1129856
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	06/26/2018 14:54	WG1129856
1,2-Dichloropropane	U		0.000306	0.00100	1	06/26/2018 14:54	WG1129856
1,1-Dichloropropene	U		0.000352	0.00100	1	06/26/2018 14:54	WG1129856
1,3-Dichloropropane	U	J4	0.000366	0.00100	1	06/26/2018 14:54	WG1129856
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	06/26/2018 14:54	WG1129856
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	06/26/2018 14:54	WG1129856
2,2-Dichloropropane	U		0.000321	0.00100	1	06/26/2018 14:54	WG1129856
Di-isopropyl ether	U		0.000320	0.00100	1	06/26/2018 14:54	WG1129856
Ethylbenzene	U		0.000384	0.00100	1	06/26/2018 14:54	WG1129856
Hexachloro-1,3-butadiene	U		0.000256	0.00100	1	06/26/2018 14:54	WG1129856
Isopropylbenzene	U		0.000326	0.00100	1	06/26/2018 14:54	WG1129856
p-Isopropyltoluene	U		0.000350	0.00100	1	06/26/2018 14:54	WG1129856
2-Butanone (MEK)	U		0.00393	0.0100	1	06/26/2018 14:54	WG1129856
Methylene Chloride	U		0.00100	0.00500	1	06/26/2018 14:54	WG1129856
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	06/26/2018 14:54	WG1129856
Methyl tert-butyl ether	U		0.000367	0.00100	1	06/26/2018 14:54	WG1129856
Naphthalene	U		0.00100	0.00500	1	06/26/2018 14:54	WG1129856
n-Propylbenzene	U		0.000349	0.00100	1	06/26/2018 14:54	WG1129856
Styrene	U		0.000307	0.00100	1	06/26/2018 14:54	WG1129856
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	06/26/2018 14:54	WG1129856
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	06/26/2018 14:54	WG1129856
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100	1	06/26/2018 14:54	WG1129856
Tetrachloroethene	U		0.000372	0.00100	1	06/26/2018 14:54	WG1129856
Toluene	U		0.000412	0.00100	1	06/26/2018 14:54	WG1129856
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	06/26/2018 14:54	WG1129856
1,2,4-Trichlorobenzene	U		0.000355	0.00100	1	06/26/2018 14:54	WG1129856

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 06/22/18 00:00

L1004431

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.000319	0.00100	1	06/26/2018 14:54	WG1129856
1,1,2-Trichloroethane	U		0.000383	0.00100	1	06/26/2018 14:54	WG1129856
Trichloroethene	U		0.000398	0.00100	1	06/26/2018 14:54	WG1129856
Trichlorofluoromethane	U		0.00120	0.00500	1	06/26/2018 14:54	WG1129856
1,2,3-Trichloropropane	U	J4	0.000807	0.00250	1	06/26/2018 14:54	WG1129856
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	06/26/2018 14:54	WG1129856
1,2,3-Trimethylbenzene	U		0.000321	0.00100	1	06/26/2018 14:54	WG1129856
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	06/26/2018 14:54	WG1129856
Vinyl chloride	U		0.000259	0.00100	1	06/26/2018 14:54	WG1129856
Xylenes, Total	U		0.00106	0.00300	1	06/26/2018 14:54	WG1129856
(S) Toluene-d8	96.1			80.0-120		06/26/2018 14:54	WG1129856
(S) Dibromofluoromethane	103			76.0-123		06/26/2018 14:54	WG1129856
(S) 4-Bromofluorobenzene	104			80.0-120		06/26/2018 14:54	WG1129856

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3321329-1 06/27/18 12:48

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Mercury	U		0.0000490	0.000200

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

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

(LCS) R3321329-2 06/27/18 12:50 • (LCSD) R3321329-3 06/27/18 12:53

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%
Mercury	0.00300	0.00251	0.00244	83.6	81.3	80.0-120			2.71	20

L1004378-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1004378-01 06/27/18 12:55 • (MS) R3321329-4 06/27/18 12:57 • (MSD) R3321329-5 06/27/18 13:00

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Mercury	0.00300	U	0.00259	0.00253	86.3	84.3	1	75.0-125			2.39	20



Method Blank (MB)

(MB) R3321304-1 06/27/18 11:36

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Aluminum	U		0.0350	0.200
Arsenic	U		0.00650	0.0100
Barium	U		0.00170	0.00500
Beryllium	U		0.000700	0.00200
Cadmium	U		0.000700	0.00200
Calcium	0.0764	U	0.0463	1.00
Chromium	U		0.00140	0.0100
Cobalt	U		0.00230	0.0100
Copper	U		0.00530	0.0100
Iron	U		0.0141	0.100
Magnesium	0.0521	U	0.0111	1.00
Manganese	U		0.00120	0.0100
Nickel	U		0.00490	0.0100
Potassium	U		0.102	1.00
Silver	U		0.00280	0.00500
Sodium	U		0.0985	1.00
Vanadium	0.00844	U	0.00240	0.0200
Zinc	0.00724	U	0.00590	0.0500

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3321304-2 06/27/18 11:39 • (LCSD) R3321304-3 06/27/18 11:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Aluminum	10.0	10.0	9.82	100	98.2	80.0-120			2.02	20
Arsenic	1.00	1.03	1.02	103	102	80.0-120			0.702	20
Barium	1.00	1.04	1.03	104	103	80.0-120			0.771	20
Beryllium	1.00	1.01	0.991	101	99.1	80.0-120			1.58	20
Cadmium	1.00	0.988	0.979	98.8	97.9	80.0-120			0.882	20
Calcium	10.0	10.2	9.96	102	99.6	80.0-120			2.10	20
Chromium	1.00	0.997	0.988	99.7	98.8	80.0-120			0.849	20
Cobalt	1.00	1.01	1.00	101	100	80.0-120			0.810	20
Copper	1.00	1.00	0.990	100	99.0	80.0-120			1.17	20
Iron	10.0	10.0	9.95	100	99.5	80.0-120			0.692	20
Magnesium	10.0	10.0	10.2	100	102	80.0-120			1.23	20
Manganese	1.00	1.01	0.998	101	99.8	80.0-120			0.705	20
Nickel	1.00	1.01	0.999	101	99.9	80.0-120			1.06	20
Potassium	10.0	9.84	9.73	98.4	97.3	80.0-120			1.15	20
Silver	0.200	0.192	0.190	96.1	95.1	80.0-120			1.11	20



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

(LCS) R3321304-2 06/27/18 11:39 • (LCSD) R3321304-3 06/27/18 11:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Sodium	10.0	9.97	9.88	99.7	98.8	80.0-120			0.911	20
Vanadium	1.00	1.03	1.01	103	101	80.0-120			1.98	20
Zinc	1.00	0.992	0.985	99.2	98.5	80.0-120			0.757	20

L1004317-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1004317-01 06/27/18 11:45 • (MS) R3321304-5 06/27/18 11:52 • (MSD) R3321304-6 06/27/18 11:55

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	10.0	ND	9.91	9.94	99.1	99.4	1	75.0-125			0.357	20
Arsenic	1.00	ND	1.07	1.07	106	107	1	75.0-125			0.400	20
Barium	1.00	0.144	1.17	1.17	103	102	1	75.0-125			0.237	20
Beryllium	1.00	ND	1.01	0.998	101	99.8	1	75.0-125			0.786	20
Cadmium	1.00	ND	1.01	1.01	101	101	1	75.0-125			0.248	20
Calcium	10.0	107	115	115	78.8	81.4	1	75.0-125			0.227	20
Chromium	1.00	ND	0.991	0.994	99.1	99.4	1	75.0-125			0.265	20
Cobalt	1.00	ND	1.03	1.03	103	103	1	75.0-125			0.0503	20
Copper	1.00	ND	1.01	1.01	101	101	1	75.0-125			0.458	20
Iron	10.0	1.27	11.2	11.2	98.8	99.2	1	75.0-125			0.331	20
Magnesium	10.0	90.3	98.4	98.8	80.3	84.4	1	75.0-125			0.413	20
Manganese	1.00	0.118	1.11	1.10	98.7	98.6	1	75.0-125			0.0560	20
Nickel	1.00	ND	1.03	1.03	103	103	1	75.0-125			0.201	20
Potassium	10.0	2.73	12.6	12.5	98.3	97.6	1	75.0-125			0.565	20
Silver	0.200	ND	0.197	0.196	98.4	98.0	1	75.0-125			0.396	20
Sodium	10.0	55.0	64.2	64.0	92.3	90.6	1	75.0-125			0.254	20
Vanadium	1.00	ND	1.02	1.01	101	100	1	75.0-125			0.843	20
Zinc	1.00	ND	0.994	0.990	98.8	98.3	1	75.0-125			0.437	20

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Cp

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Tc

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Method Blank (MB)

(MB) R3321111-1 06/27/18 02:08

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Antimony	U		0.000754	0.00200
Lead	U		0.000240	0.00200
Selenium	U		0.000380	0.00200
Thallium	U		0.000190	0.00200

1Cp

2Tc

3Ss

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5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3321111-2 06/27/18 02:12 • (LCSD) R3321111-3 06/27/18 02:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Antimony	0.0500	0.0493	0.0500	98.7	100	80.0-120			1.41	20
Lead	0.0500	0.0480	0.0461	96.0	92.3	80.0-120			4.03	20
Selenium	0.0500	0.0509	0.0477	102	95.4	80.0-120			6.59	20
Thallium	0.0500	0.0468	0.0463	93.7	92.6	80.0-120			1.19	20

L1004412-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1004412-01 06/27/18 02:20 • (MS) R3321111-5 06/27/18 02:29 • (MSD) R3321111-6 06/27/18 02:33

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Antimony	0.0500	ND	0.0480	0.0470	96.1	94.0	1	75.0-125			2.22	20
Lead	0.0500	ND	0.0468	0.0478	92.4	94.4	1	75.0-125			2.11	20
Selenium	0.0500	ND	0.0487	0.0473	97.3	94.7	1	75.0-125			2.73	20
Thallium	0.0500	ND	0.0460	0.0467	92.1	93.3	1	75.0-125			1.36	20

Method Blank (MB)

(MB) R3321032-3 06/26/18 10:35

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Acrolein	U		0.00887	0.0500
Acrylonitrile	U		0.00187	0.0100
Benzene	U		0.000331	0.00100
Bromobenzene	U		0.000352	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
tert-Butylbenzene	U		0.000399	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
2-Chlorotoluene	U		0.000375	0.00100
4-Chlorotoluene	U		0.000351	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500
1,2-Dibromoethane	U		0.000381	0.00100
Dibromomethane	U		0.000346	0.00100
1,2-Dichlorobenzene	U		0.000349	0.00100
1,3-Dichlorobenzene	U		0.000220	0.00100
1,4-Dichlorobenzene	U		0.000274	0.00100
Dichlorodifluoromethane	U		0.000551	0.00500
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
1,1-Dichloropropene	U		0.000352	0.00100
1,3-Dichloropropane	U		0.000366	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
2,2-Dichloropropane	U		0.000321	0.00100
Di-isopropyl ether	U		0.000320	0.00100
Ethylbenzene	U		0.000384	0.00100
Hexachloro-1,3-butadiene	U		0.000256	0.00100

¹Cp

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⁸Al

⁹Sc

Method Blank (MB)

(MB) R3321032-3 06/26/18 10:35

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000355	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	0.00100
Trichlorofluoromethane	U		0.00120	0.00500
1,2,3-Trichloropropane	U		0.000807	0.00250
1,2,3-Trimethylbenzene	U		0.000321	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	95.7			80.0-120
(S) Dibromofluoromethane	101			76.0-123
(S) 4-Bromofluorobenzene	105			80.0-120

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Cp

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Laboratory Control Sample (LCS)

(LCS) R3321032-1 06/26/18 09:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.125	0.124	98.9	10.0-160	
Acrolein	0.125	0.160	128	10.0-160	
Acrylonitrile	0.125	0.144	115	60.0-142	
Benzene	0.0250	0.0290	116	69.0-123	



Laboratory Control Sample (LCS)

(LCS) R3321032-1 06/26/18 09:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromobenzene	0.0250	0.0291	116	79.0-120	
Bromodichloromethane	0.0250	0.0251	100	76.0-120	
Bromoform	0.0250	0.0316	127	67.0-132	
Bromomethane	0.0250	0.0126	50.5	18.0-160	
n-Butylbenzene	0.0250	0.0244	97.8	72.0-126	
sec-Butylbenzene	0.0250	0.0265	106	74.0-121	
tert-Butylbenzene	0.0250	0.0253	101	75.0-122	
Carbon tetrachloride	0.0250	0.0270	108	63.0-122	
Chlorobenzene	0.0250	0.0254	102	79.0-121	
Chlorodibromomethane	0.0250	0.0248	99.1	75.0-125	
Chloroethane	0.0250	0.0268	107	47.0-152	
Chloroform	0.0250	0.0270	108	72.0-121	
Chloromethane	0.0250	0.0206	82.4	48.0-139	
2-Chlorotoluene	0.0250	0.0296	119	74.0-122	
4-Chlorotoluene	0.0250	0.0289	115	79.0-120	
1,2-Dibromo-3-Chloropropane	0.0250	0.0269	107	64.0-127	
1,2-Dibromoethane	0.0250	0.0270	108	77.0-123	
Dibromomethane	0.0250	0.0268	107	78.0-120	
1,2-Dichlorobenzene	0.0250	0.0308	123	80.0-120	J4
1,3-Dichlorobenzene	0.0250	0.0291	116	72.0-123	
1,4-Dichlorobenzene	0.0250	0.0279	112	77.0-120	
Dichlorodifluoromethane	0.0250	0.0199	79.6	49.0-155	
1,1-Dichloroethane	0.0250	0.0299	120	70.0-126	
1,2-Dichloroethane	0.0250	0.0284	114	67.0-126	
1,1-Dichloroethene	0.0250	0.0251	100	64.0-129	
cis-1,2-Dichloroethene	0.0250	0.0265	106	73.0-120	
trans-1,2-Dichloroethene	0.0250	0.0264	105	71.0-121	
1,2-Dichloropropane	0.0250	0.0288	115	75.0-125	
1,1-Dichloropropene	0.0250	0.0294	118	71.0-129	
1,3-Dichloropropane	0.0250	0.0305	122	80.0-121	J4
cis-1,3-Dichloropropene	0.0250	0.0279	112	79.0-123	
trans-1,3-Dichloropropene	0.0250	0.0286	115	74.0-127	
2,2-Dichloropropane	0.0250	0.0223	89.4	60.0-125	
Di-isopropyl ether	0.0250	0.0288	115	59.0-133	
Ethylbenzene	0.0250	0.0251	100	77.0-120	
Hexachloro-1,3-butadiene	0.0250	0.0277	111	64.0-131	
Isopropylbenzene	0.0250	0.0273	109	75.0-120	
p-Isopropyltoluene	0.0250	0.0251	101	74.0-126	
2-Butanone (MEK)	0.125	0.148	118	37.0-158	
Methylene Chloride	0.0250	0.0272	109	66.0-121	

¹Cp

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Laboratory Control Sample (LCS)

(LCS) R3321032-1 06/26/18 09:37

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
4-Methyl-2-pentanone (MIBK)	0.125	0.147	117	59.0-143	
Methyl tert-butyl ether	0.0250	0.0277	111	64.0-123	
Naphthalene	0.0250	0.0246	98.6	62.0-128	
n-Propylbenzene	0.0250	0.0266	106	79.0-120	
Styrene	0.0250	0.0307	123	78.0-124	
1,1,1,2-Tetrachloroethane	0.0250	0.0246	98.5	75.0-122	
1,1,2,2-Tetrachloroethane	0.0250	0.0277	111	71.0-122	
Tetrachloroethene	0.0250	0.0248	99.3	70.0-127	
Toluene	0.0250	0.0257	103	77.0-120	
1,1,2-Trichlorotrifluoroethane	0.0250	0.0282	113	61.0-136	
1,2,3-Trichlorobenzene	0.0250	0.0267	107	61.0-133	
1,2,4-Trichlorobenzene	0.0250	0.0281	112	69.0-129	
1,1,1-Trichloroethane	0.0250	0.0248	99.3	68.0-122	
1,1,2-Trichloroethane	0.0250	0.0268	107	78.0-120	
Trichloroethene	0.0250	0.0280	112	78.0-120	
Trichlorofluoromethane	0.0250	0.0247	98.9	56.0-137	
1,2,3-Trichloropropane	0.0250	0.0320	128	72.0-124	J4
1,2,3-Trimethylbenzene	0.0250	0.0280	112	75.0-120	
1,2,4-Trimethylbenzene	0.0250	0.0271	108	75.0-120	
1,3,5-Trimethylbenzene	0.0250	0.0261	105	75.0-120	
Vinyl chloride	0.0250	0.0257	103	64.0-133	
Xylenes, Total	0.0750	0.0758	101	77.0-120	
(S) Toluene-d8			95.3	80.0-120	
(S) Dibromofluoromethane			102	76.0-123	
(S) 4-Bromofluorobenzene			103	80.0-120	

¹ Cp

² Tc

³ Ss

⁴ Cn

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⁹ Sc

Method Blank (MB)

(MB) R3321154-3 06/27/18 02:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acenaphthene	U		0.000316	0.00100
Acenaphthylene	U		0.000309	0.00100
Anthracene	U		0.000291	0.00100
Benzidine	U		0.00432	0.0100
Benzo(a)anthracene	U		0.0000975	0.00100
Benzo(b)fluoranthene	U		0.0000896	0.00100
Benzo(k)fluoranthene	U		0.000355	0.00100
Benzo(g,h,i)perylene	U		0.000161	0.00100
Benzo(a)pyrene	U		0.000340	0.00100
Bis(2-chlorethoxy)methane	U		0.000329	0.0100
Bis(2-chloroethyl)ether	U		0.00162	0.0100
Bis(2-chloroisopropyl)ether	U		0.000445	0.0100
4-Bromophenyl-phenylether	U		0.000335	0.0100
2-Chloronaphthalene	U		0.000330	0.00100
4-Chlorophenyl-phenylether	U		0.000303	0.0100
Chrysene	U		0.000332	0.00100
Dibenz(a,h)anthracene	U		0.000279	0.00100
3,3-Dichlorobenzidine	U		0.00202	0.0100
2,4-Dinitrotoluene	U		0.00165	0.0100
2,6-Dinitrotoluene	U		0.000279	0.0100
Fluoranthene	U		0.000310	0.00100
Fluorene	U		0.000323	0.00100
Hexachlorobenzene	U		0.000341	0.00100
Hexachloro-1,3-butadiene	U		0.000329	0.0100
Hexachlorocyclopentadiene	U		0.00233	0.0100
Hexachloroethane	U		0.000365	0.0100
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100
Isophorone	U		0.000272	0.0100
Naphthalene	U		0.000372	0.00100
Nitrobenzene	U		0.000367	0.0100
n-Nitrosodimethylamine	U		0.00126	0.0100
n-Nitrosodiphenylamine	U		0.000304	0.0100
n-Nitrosodi-n-propylamine	U		0.000403	0.0100
Phenanthrene	U		0.000366	0.00100
Benzylbutyl phthalate	U		0.000275	0.00300
Bis(2-ethylhexyl)phthalate	0.000887	U	0.000709	0.00300
Di-n-butyl phthalate	U		0.000266	0.00300
Diethyl phthalate	U		0.000282	0.00300
Dimethyl phthalate	U		0.000283	0.00300
Di-n-octyl phthalate	U		0.000278	0.00300

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3321154-3 06/27/18 02:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Pyrene	U		0.000330	0.00100
1,2,4-Trichlorobenzene	U		0.000355	0.0100
4-Chloro-3-methylphenol	U		0.000263	0.0100
2-Chlorophenol	U		0.000283	0.0100
2-Nitrophenol	U		0.000320	0.0100
4-Nitrophenol	U		0.00201	0.0100
Pentachlorophenol	U		0.000313	0.0100
Phenol	U		0.000334	0.0100
2,4,6-Trichlorophenol	U		0.000297	0.0100
2,4-Dichlorophenol	U		0.000284	0.0100
2,4-Dimethylphenol	U		0.000624	0.0100
4,6-Dinitro-2-methylphenol	U		0.00262	0.0100
2,4-Dinitrophenol	U		0.00325	0.0100
(S) Nitrobenzene-d5	62.1			10.0-126
(S) 2-Fluorobiphenyl	64.4			22.0-127
(S) p-Terphenyl-d14	71.8			29.0-141
(S) Phenol-d5	36.9			10.0-120
(S) 2-Fluorophenol	52.7			10.0-120
(S) 2,4,6-Tribromophenol	53.3			10.0-153

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3321154-1 06/27/18 01:56 • (LCSD) R3321154-2 06/27/18 02:19

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.0500	0.0341	0.0329	68.2	65.8	42.0-120			3.52	22
Acenaphthylene	0.0500	0.0359	0.0336	71.9	67.2	43.0-120			6.67	22
Anthracene	0.0500	0.0332	0.0330	66.4	66.0	44.0-120			0.619	20
Benzidine	0.0500	0.00522	0.00489	10.4	9.78	1.00-120			6.40	36
Benzo(a)anthracene	0.0500	0.0352	0.0334	70.4	66.9	44.0-120			5.17	20
Benzo(b)fluoranthene	0.0500	0.0353	0.0342	70.7	68.4	40.0-120			3.33	21
Benzo(k)fluoranthene	0.0500	0.0351	0.0334	70.2	66.7	41.0-120			5.03	22
Benzo(g,h,i)perylene	0.0500	0.0359	0.0342	71.9	68.4	45.0-121			4.92	20
Benzo(a)pyrene	0.0500	0.0357	0.0340	71.3	67.9	41.0-120			4.87	20
Bis(2-chlorethoxy)methane	0.0500	0.0292	0.0287	58.3	57.3	36.0-120			1.74	25
Bis(2-chloroethyl)ether	0.0500	0.0325	0.0320	64.9	64.1	24.0-120			1.35	29
Bis(2-chloroisopropyl)ether	0.0500	0.0324	0.0310	64.9	62.1	32.0-120			4.40	29
4-Bromophenyl-phenylether	0.0500	0.0333	0.0326	66.5	65.3	42.0-121			1.87	21
2-Chloronaphthalene	0.0500	0.0327	0.0309	65.5	61.8	37.0-120			5.79	24

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

(LCS) R3321154-1 06/27/18 01:56 • (LCSD) R3321154-2 06/27/18 02:19

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
4-Chlorophenyl-phenylether	0.0500	0.0340	0.0328	68.0	65.6	44.0-120			3.51	21
Chrysene	0.0500	0.0362	0.0343	72.5	68.5	45.0-120			5.65	20
Dibenz(a,h)anthracene	0.0500	0.0337	0.0319	67.3	63.9	44.0-121			5.28	21
3,3-Dichlorobenzidine	0.0500	0.0370	0.0368	74.1	73.7	29.0-153			0.541	23
2,4-Dinitrotoluene	0.0500	0.0356	0.0354	71.2	70.8	47.0-127			0.623	21
2,6-Dinitrotoluene	0.0500	0.0336	0.0339	67.1	67.8	42.0-120			0.952	22
Fluoranthene	0.0500	0.0377	0.0377	75.5	75.4	46.0-121			0.0256	20
Fluorene	0.0500	0.0356	0.0340	71.3	68.1	45.0-120			4.57	21
Hexachlorobenzene	0.0500	0.0337	0.0335	67.4	66.9	41.0-124			0.767	21
Hexachloro-1,3-butadiene	0.0500	0.0276	0.0274	55.1	54.8	26.0-120			0.493	31
Hexachlorocyclopentadiene	0.0500	0.0233	0.0220	46.6	44.0	10.0-120			5.82	31
Hexachloroethane	0.0500	0.0307	0.0304	61.4	60.9	22.0-120			0.963	34
Indeno(1,2,3-cd)pyrene	0.0500	0.0353	0.0333	70.6	66.6	45.0-123			5.75	21
Isophorone	0.0500	0.0309	0.0309	61.9	61.8	37.0-120			0.181	24
Naphthalene	0.0500	0.0296	0.0285	59.1	57.0	33.0-120			3.62	28
Nitrobenzene	0.0500	0.0297	0.0284	59.5	56.8	31.0-120			4.61	28
n-Nitrosodimethylamine	0.0500	0.0184	0.0196	36.8	39.1	10.0-120			6.17	34
n-Nitrosodiphenylamine	0.0500	0.0358	0.0362	71.7	72.4	44.0-120			1.05	21
n-Nitrosodi-n-propylamine	0.0500	0.0355	0.0344	71.0	68.7	29.0-120			3.28	27
Phenanthrene	0.0500	0.0348	0.0348	69.6	69.6	42.0-120			0.0286	20
Benzylbutyl phthalate	0.0500	0.0348	0.0341	69.7	68.1	36.0-123			2.28	22
Bis(2-ethylhexyl)phthalate	0.0500	0.0362	0.0332	72.5	66.4	37.0-121			8.82	21
Di-n-butyl phthalate	0.0500	0.0382	0.0373	76.4	74.6	43.0-122			2.36	21
Diethyl phthalate	0.0500	0.0367	0.0364	73.5	72.8	48.0-123			0.990	20
Dimethyl phthalate	0.0500	0.0346	0.0348	69.3	69.5	47.0-120			0.370	20
Di-n-octyl phthalate	0.0500	0.0343	0.0319	68.5	63.8	38.0-120			7.24	22
Pyrene	0.0500	0.0362	0.0357	72.4	71.4	43.0-120			1.45	21
1,2,4-Trichlorobenzene	0.0500	0.0276	0.0280	55.3	56.0	29.0-120			1.38	29
4-Chloro-3-methylphenol	0.0500	0.0311	0.0319	62.2	63.9	39.0-120			2.68	22
2-Chlorophenol	0.0500	0.0306	0.0310	61.2	61.9	28.0-120			1.27	29
2,4-Dichlorophenol	0.0500	0.0302	0.0299	60.3	59.8	37.0-120			0.824	26
2,4-Dimethylphenol	0.0500	0.0298	0.0298	59.6	59.7	35.0-120			0.0816	25
4,6-Dinitro-2-methylphenol	0.0500	0.0386	0.0381	77.1	76.2	34.0-125			1.18	27
2,4-Dinitrophenol	0.0500	0.0247	0.0258	49.3	51.6	10.0-120			4.61	40
2-Nitrophenol	0.0500	0.0314	0.0298	62.7	59.7	35.0-120			5.02	28
4-Nitrophenol	0.0500	0.0158	0.0160	31.5	32.0	10.0-120			1.56	35
Pentachlorophenol	0.0500	0.0253	0.0261	50.6	52.1	20.0-126			2.93	32
Phenol	0.0500	0.0185	0.0199	37.0	39.9	10.0-120			7.32	34
2,4,6-Trichlorophenol	0.0500	0.0334	0.0318	66.9	63.5	40.0-122			5.14	24
(S) Nitrobenzene-d5				61.1	58.4	10.0-126				

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



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

(LCS) R3321154-1 06/27/18 01:56 • (LCSD) R3321154-2 06/27/18 02:19

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
(S) 2-Fluorobiphenyl				66.5	62.6	22.0-127				
(S) p-Terphenyl-d14				71.7	68.7	29.0-141				
(S) Phenol-d5				38.0	38.9	10.0-120				
(S) 2-Fluorophenol				50.3	51.1	10.0-120				
(S) 2,4,6-Tribromophenol				67.2	64.5	10.0-153				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



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

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
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.
J4	The associated batch QC was outside the established quality control range for accuracy.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gi

8 Ai

9 Sc



ESC Lab Sciences 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 ESC Lab Sciences.

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

ESC Lab Sciences 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. ESC Lab Sciences performs all testing at our central laboratory.



Weston Solutions
1435 Garrison Street
Suite 100
Lakewood, CO 80215

Billing Information:
Same

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page ____ of ____



12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859



L# **L1604431**
E219

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Remarks

Sample # (lab only)

Report to:
Eric Sandusky
Email To:
eric.sandusky@westonsolutions.com

Project
Norris Labs
Description:

City/State
Collected: Montana

Phone: 303-729-6132
Fax:

Client Project #
20408.012.001.0809.00

Lab Project #

Collected by (print):
JR

Site/Facility ID #
NL

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

Same Day _____ Five Day _____
☒ Next Day _____ 5 Day (Rad Only) _____
Two Day _____ 10 Day (Rad Only) _____
Three Day _____

Quote #

Date Results Needed

Immediately
Packed on Ice N _____ Y _____

No.
of
Cnts

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

Total Metals

TCLP

VOC 8260

SVOC 8270

Total Metals

NL-LP-01

Grab ☐ OT ☐

6-22-2018 0800

X X

NL-LX-02

Comp ☐ SS ☐

6-22-2018 0850

X X

NL-DH-03

Comp ☐ SS ☐

6-22-2018 0900

X X

NL-HS-04

Comp ☐ SS ☐

6-22-2018 0930

X X

NL-FC-05

Comp ☐ SS ☐

6-22-2018 0945

X X

NL-SW-06

Grab ☐ GW ☐

6-22-2018 0955

X X

NL-PD-07

Grab ☐ GW ☐

6-22-2018 1018

X X

NL-DS-08

Grab ☐ GW ☐

6-22-2018 1100

X X

NL-UP-09

Grab ☐ GW ☐

6-22-2018 1150

X X

NL-LB-10

Comp ☐ SS ☐

6-22-2018 1201

X X

* Matrix: SS - Soil AIR - Air F - Filter

GW - Groundwater B - Bioassay

WW - WasteWater

DW - Drinking Water

OT - Other

Remarks:

Samples returned via:

UPS FedEx ☒ Courier

pH _____ Temp _____

Flow _____ Other _____

Tracking # 7384 4199 0588 / 7136 2665 0062

Received by: (Signature)

Trip Blank Received: Yes / No

2 HCl / MeOH

TBR

Received by: (Signature)

Temp: °C Bottles Received:

3.6 24

Received for lab by: (Signature)

Date: 6/26/18 Time: 8:45

Sample Receipt Checklist

COC Seal Present/Intact: ☒ N

COC Signed/Accurate: ☒ N

Bottles arrive intact: ☒ N

Correct bottles used: ☒ N

Sufficient volume sent: ☒ N

If Applicable

VOA Zero HeadSpace: ☒ N

Preservation Correct/Checked: ☒ N

If preservation required by Login: Date/Time

Hold:

Condition:

NCF / OK

Jeremy W. Watkins

ESC Lab Sciences
Non-Conformance Form

Login #: L1004431	Client: WESSOLCO	Date: 6/26/18	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	<input checked="" type="checkbox"/> Login Clarification Needed	
Improper temperature	Chain of custody is incomplete	Insufficient packing material around container
Improper container type	Please specify Metals requested.	Insufficient packing material inside cooler
Improper preservation	Please specify TCLP requested.	Improper handling by carrier (FedEx / UPS / Courier)
Insufficient sample volume.	Received additional samples not listed on coc.	Sample was frozen
Sample is biphasic.	Sample ids on containers do not match ids on coc	Container lid not intact
Vials received with headspace.	Trip Blank not received.	If no Chain of Custody:
Broken container	Client did not "X" analysis.	Received by:
Broken container:	Chain of Custody is missing	Date /Time:
Sufficient sample remains		Temp./Cont. Rec./pH:
		Carrier:
		Tracking#

Login Comments:

1. What Metals?
2. What TCLP?
3. Did not receive Soil Samples. (missing cooler stuck in INDY 713626650062)

Client informed by:	Call	X	Email	Voice Mail	Date: 06/26/18	Time: 1110
TSR Initials: JCR Client Contact: Eric Sandusky						

Login Instructions:

- 1) TAL Metals
- 2) TCLP Metals
- 3) FedEx Delivery Error – cooler will arrive tomorrow. Log the soils to a separate SDG upon arrival on 6/27

This E-mail and any attached files are confidential, and may be copyright protected. If you are not the addressee, any dissemination of this communication is strictly prohibited. If you have received this message in error, please contact the sender immediately and delete/destroy all information received.