

GW – 028

2015 AGWMR

PART 4 OF 25

03 / 2016

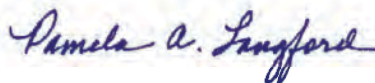
ARCADIS, Inc. 2929 Briarpark Drive, Suite 300 Houston, TX 77042				Billing Information: Report to: Pam Krueger Email To: pam.krueger@arcadis-us.com; maisha.turner@arcadis-us.com; melissa.osborne@arcadis-us.com				Analysis / Container / Preservative												Chain of Custody Page 19 of 20 ESC LAB SCIENCES YOUR LAB OF CHOICE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859													
Project Navajo Refining Company Phone: 713-953-4816 Fax: 713-977-4620 Collected by (print): <u>Mason Bond + HMI</u> Collected by (signature): <u>[Signature]</u> Immediately Iced? N ☒ Y ☒				City/State Artesia, NM Collected: Lab Project # ARCADHTX-NAVAJO FULL Site/Facility ID # EP TX000836.0007.15004 ✓ P.O. # Date Results Needed Rush? (Lab MUST Be Notified) Next Day100% Two Day50% Three Day25% Email? ☐ No ☐ Yes FAX? ☐ No ☐ Yes No. of Cntr				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:5%;">DRO 8015</td> <td style="width:5%;">GRO 8015</td> <td style="width:10%;">Volatiles 8260 (Extended List)</td> <td style="width:10%;">Total Metals: As, Ba, Cr, Fe, Pb, Mn, Se</td> <td style="width:10%;">Total Metals: As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V, Hg</td> <td style="width:10%;">Dis Metals: (FFiltered) As, Ba, Cr, Fe, Pb, Mn, Se</td> <td style="width:10%;">Dis Metals: (FFiltered) As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V</td> <td style="width:5%;">Cyanide</td> <td style="width:10%;">Anions: Chloride, Fluoride, Sulfate</td> <td style="width:10%;">Cations: Ca, K, Na (from Total Metals container)</td> <td style="width:10%;">NO2 / NO3</td> <td style="width:5%;">TDS</td> </tr> </table>												DRO 8015	GRO 8015	Volatiles 8260 (Extended List)	Total Metals: As, Ba, Cr, Fe, Pb, Mn, Se	Total Metals: As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V, Hg	Dis Metals: (FFiltered) As, Ba, Cr, Fe, Pb, Mn, Se	Dis Metals: (FFiltered) As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V	Cyanide	Anions: Chloride, Fluoride, Sulfate	Cations: Ca, K, Na (from Total Metals container)	NO2 / NO3	TDS	L# <u>L760074</u> Table # Acctnum: ARCADHTX Template: T101410 Prelogin: TSR: Pam Langford PB: <u>3-31-15</u> <u>mb</u> Shipped Via:	
DRO 8015	GRO 8015	Volatiles 8260 (Extended List)	Total Metals: As, Ba, Cr, Fe, Pb, Mn, Se	Total Metals: As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V, Hg	Dis Metals: (FFiltered) As, Ba, Cr, Fe, Pb, Mn, Se	Dis Metals: (FFiltered) As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V	Cyanide	Anions: Chloride, Fluoride, Sulfate	Cations: Ca, K, Na (from Total Metals container)	NO2 / NO3	TDS																						
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntr	DRO 8015	GRO 8015	Volatiles 8260 (Extended List)	Total Metals: As, Ba, Cr, Fe, Pb, Mn, Se	Total Metals: As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V, Hg	Dis Metals: (FFiltered) As, Ba, Cr, Fe, Pb, Mn, Se	Dis Metals: (FFiltered) As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V	Cyanide	Anions: Chloride, Fluoride, Sulfate	Cations: Ca, K, Na (from Total Metals container)	NO2 / NO3	TDS	Remarks/Comments	Sample # (lab only)													
MW-79	6	GW					✓	✓	✓	✓		✓			✓	✓	✓	✓	S4														
MW-82							✓	✓	✓	✓		✓			✓	✓	✓	✓	S4														
MW-74							✓	✓	✓	✓		✓			✓	✓	✓	✓	S4														
MW-73							✓	✓	✓	✓		✓			✓	✓	✓	✓	S4														
MW-2A				4/15/15	1555	12	✓	✓	✓	✓		✓			✓	✓	✓	✓		-18													
MW-72							✓	✓	✓	✓		✓			✓	✓	✓	✓	S4														
OC-D-6							✓	✓	✓	✓		✓			✓	✓	✓	✓	S4														
OC-D-7AR				4/15/15	1725	12	✓	✓	✓	✓		✓			✓	✓	✓	✓		-19													
OC-D-7B	✓	✓					✓	✓	✓	✓		✓			✓	✓	✓	✓	S4														

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____				pH _____ Temp _____ Flow _____ Other _____		Hold # _____	
Remarks: _____							
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____	Condition: (lab use only) COC Seal Intact: ☒ Y ☐ N ☐ NA pH Checked: <u>4.2</u> NCF: _____		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: <u>23°C</u> <u>227</u>			
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: <u>4/17/15</u> <u>0900</u>			

ARCADIS US - TX

Sample Delivery Group: L760088
Samples Received: 04/17/2015
Project Number: TX000836.0007.15008
Description: Navajo Refining Company - Artesia, NM
Site: REST
Report To: Pam Krueger
2929 Briarpark Dr., Suite 300
Houston, TX 77042

Entire Report Reviewed By:



Pam Langford

Pam Langford

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.



¹Cp: Cover Page	1
²Tc: Table of Contents	2
³Ss: Sample Summary	3
⁴Cn: Case Narrative	5
⁵Sr: Sample Results	6
MW-131 L760088-01	6
KWB-5 L760088-02	8
MW-111 L760088-03	10
KWB-6 L760088-04	12
MW-29 L760088-05	14
TRIP BLANK-REST-04 L760088-06	16
⁶Qc: Quality Control Summary	17
Gravimetric Analysis by Method 2540 C-2011	17
Wet Chemistry by Method 353.2	18
Wet Chemistry by Method 9056MOD	19
Metals (ICPMS) by Method 6020	22
Volatile Organic Compounds (GC) by Method 8015D/GRO	25
Volatile Organic Compounds (GC/MS) by Method 8260B	26
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	37
⁷Gl: Glossary of Terms	38
⁸Al: Accreditations & Locations	39
⁹Sc: Chain of Custody	40



SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-131 L760088-01 GW

			Collected by GS/TB	Collected date/time 04/15/15 14:55	Received date/time 04/17/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG783399	1	04/21/15 14:20	04/23/15 10:32	JG	¹ Cp
Metals (ICPMS) by Method 6020	WG783162	1	04/27/15 20:39	04/29/15 12:37	LAT	² Tc
Metals (ICPMS) by Method 6020	WG783439	1	04/29/15 09:10	04/30/15 02:13	AB	³ Ss
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783174	1	04/20/15 12:06	04/22/15 19:16	JNS	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783018	1	04/24/15 23:11	04/24/15 23:11	MCB	⁴ Cn
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783005	1	04/23/15 16:17	04/23/15 16:17	MCB	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG784046	100	04/29/15 17:53	04/29/15 17:53	MCB	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785314	5	04/29/15 03:07	04/29/15 03:07	MCB	⁵ Sr
Wet Chemistry by Method 353.2	WG785019	1	04/30/15 01:00	04/30/15 01:00	JAL	
Wet Chemistry by Method 9056MOD	WG783903	1	04/23/15 15:46	04/23/15 15:46	NJM	⁶ Qc
Wet Chemistry by Method 9056MOD	WG783903	100	04/23/15 19:01	04/23/15 19:01	NJM	

KWB-5 L760088-02 GW

			Collected by GS/TB	Collected date/time 04/15/15 15:45	Received date/time 04/17/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG783399	1	04/21/15 14:20	04/23/15 10:34	JG	⁷ Gl
Metals (ICPMS) by Method 6020	WG783162	1	04/27/15 20:39	04/29/15 12:39	LAT	⁸ Al
Metals (ICPMS) by Method 6020	WG783439	1	04/29/15 09:10	04/30/15 02:15	AB	
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783174	1	04/20/15 12:06	04/22/15 19:34	JNS	⁹ Sc
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783005	1	04/23/15 16:35	04/23/15 16:35	MCB	
Wet Chemistry by Method 353.2	WG785019	1	04/30/15 01:01	04/30/15 01:01	JAL	
Wet Chemistry by Method 9056MOD	WG783903	1	04/23/15 16:56	04/23/15 16:56	NJM	
Wet Chemistry by Method 9056MOD	WG783903	100	04/23/15 19:15	04/23/15 19:15	NJM	

MW-111 L760088-03 GW

			Collected by GS/TB	Collected date/time 04/15/15 16:40	Received date/time 04/17/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG783399	1	04/21/15 14:20	04/23/15 10:33	JG	
Metals (ICPMS) by Method 6020	WG783162	1	04/27/15 20:39	04/29/15 12:43	LAT	
Metals (ICPMS) by Method 6020	WG783439	1	04/29/15 09:10	04/30/15 02:23	JD	
Metals (ICPMS) by Method 6020	WG783439	1	04/29/15 09:10	04/30/15 12:50	LAT	
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783174	1	04/20/15 12:06	04/22/15 19:52	JNS	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783018	1	04/24/15 23:32	04/24/15 23:32	MCB	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783005	1	04/23/15 16:54	04/23/15 16:54	MCB	
Wet Chemistry by Method 353.2	WG785019	1	04/30/15 01:02	04/30/15 01:02	JAL	
Wet Chemistry by Method 9056MOD	WG783903	1	04/23/15 18:19	04/23/15 18:19	NJM	
Wet Chemistry by Method 9056MOD	WG783903	100	04/23/15 19:29	04/23/15 19:29	NJM	
Wet Chemistry by Method 9056MOD	WG784715	10	04/28/15 10:18	04/28/15 10:18	NJM	

KWB-6 L760088-04 GW

			Collected by GS/TB	Collected date/time 04/15/15 17:40	Received date/time 04/17/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG783399	1	04/21/15 14:20	04/23/15 10:39	JG	
Metals (ICPMS) by Method 6020	WG783162	1	04/27/15 20:39	04/29/15 13:05	LAT	
Metals (ICPMS) by Method 6020	WG783439	1	04/29/15 09:10	04/30/15 02:26	JD	
Metals (ICPMS) by Method 6020	WG783439	1	04/29/15 09:10	04/30/15 12:53	LAT	
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783174	1	04/20/15 12:06	04/22/15 20:10	JNS	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG784046	25	04/29/15 18:12	04/29/15 18:12	MCB	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785640	500	04/29/15 23:18	04/29/15 23:18	JC	
Wet Chemistry by Method 353.2	WG785019	1	04/30/15 01:03	04/30/15 01:03	JAL	
Wet Chemistry by Method 9056MOD	WG783903	1	04/23/15 18:33	04/23/15 18:33	NJM	

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



KWB-6 L760088-04 GW

			Collected by GS/TB	Collected date/time 04/15/15 17:40	Received date/time 04/17/15 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Wet Chemistry by Method 9056MOD	WG783903	100	04/23/15 19:42	04/23/15 19:42	NJM

¹Cp²Tc³Ss

MW-29 L760088-05 GW

			Collected by GS/TB	Collected date/time 04/15/15 18:35	Received date/time 04/17/15 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Gravimetric Analysis by Method 2540 C-2011	WG783399	1	04/21/15 14:20	04/23/15 10:46	JG
Metals (ICPMS) by Method 6020	WG783162	1	04/27/15 20:39	04/29/15 13:08	LAT
Metals (ICPMS) by Method 6020	WG783439	1	04/29/15 09:10	04/30/15 02:28	JD
Metals (ICPMS) by Method 6020	WG783439	1	04/29/15 09:10	04/30/15 12:55	LAT
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783174	1	04/20/15 12:06	04/22/15 20:28	JNS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783018	1	04/24/15 23:53	04/24/15 23:53	MCB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG784046	1	04/29/15 18:31	04/29/15 18:31	MCB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785640	1	04/29/15 23:39	04/29/15 23:39	JC
Wet Chemistry by Method 353.2	WG785019	1	04/30/15 01:05	04/30/15 01:05	JAL
Wet Chemistry by Method 9056MOD	WG783903	1	04/23/15 18:47	04/23/15 18:47	NJM
Wet Chemistry by Method 9056MOD	WG783903	100	04/23/15 19:56	04/23/15 19:56	NJM

⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

TRIP BLANK-REST-04 L760088-06 GW

			Collected by GS/TB	Collected date/time 04/15/15 00:00	Received date/time 04/17/15 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785640	1	04/30/15 00:00	04/30/15 00:00	JC



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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.

Pam Langford

Pam Langford
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	1980000		2800	10000	1	04/23/2015 10:32	WG783399

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		20.0	100	1	04/30/2015 01:00	WG785019

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	271000		5200	100000	100	04/23/2015 19:01	WG783903
Fluoride	683		9.90	100	1	04/23/2015 15:46	WG783903
Sulfate	9570		77.0	5000	1	04/23/2015 15:46	WG783903

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	22.0		0.250	2.00	1	04/29/2015 12:37	WG783162
Arsenic,Dissolved	21.9		0.250	2.00	1	04/30/2015 02:13	WG783439
Barium	2670		0.360	5.00	1	04/29/2015 12:37	WG783162
Barium,Dissolved	2820		0.360	5.00	1	04/30/2015 02:13	WG783439
Calcium	168000		46.0	1000	1	04/29/2015 12:37	WG783162
Chromium	0.747	U	0.540	2.00	1	04/29/2015 12:37	WG783162
Chromium,Dissolved	U		0.540	2.00	1	04/30/2015 02:13	WG783439
Iron	2340		15.0	100	1	04/29/2015 12:37	WG783162
Iron,Dissolved	1840		15.0	100	1	04/30/2015 02:13	WG783439
Lead	0.919	U	0.240	2.00	1	04/29/2015 12:37	WG783162
Lead,Dissolved	0.414	U	0.240	2.00	1	04/30/2015 02:13	WG783439
Manganese	316		0.250	5.00	1	04/29/2015 12:37	WG783162
Manganese,Dissolved	323		0.250	5.00	1	04/30/2015 02:13	WG783439
Potassium	328	U	37.0	1000	1	04/29/2015 12:37	WG783162
Selenium	U		0.380	2.00	1	04/29/2015 12:37	WG783162
Selenium,Dissolved	U		0.380	2.00	1	04/30/2015 02:13	WG783439
Sodium	157000		110	1000	1	04/29/2015 12:37	WG783162

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	7680		31.0	100	1	04/24/2015 23:11	WG783018
(S) a,a,a-Trifluorotoluene(FID)	89.6			62.0-128		04/24/2015 23:11	WG783018

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/23/2015 16:17	WG783005
Benzene	1910		33.0	100	100	04/29/2015 17:53	WG784046
Bromodichloromethane	U		0.380	1.00	1	04/23/2015 16:17	WG783005
Bromoform	U		0.470	1.00	1	04/23/2015 16:17	WG783005
Bromomethane	U		0.870	5.00	1	04/23/2015 16:17	WG783005
n-Butylbenzene	3.68		0.360	1.00	1	04/23/2015 16:17	WG783005
sec-Butylbenzene	3.66		0.360	1.00	1	04/23/2015 16:17	WG783005
Carbon disulfide	U		0.280	1.00	1	04/23/2015 16:17	WG783005
Carbon tetrachloride	U		0.380	1.00	1	04/23/2015 16:17	WG783005
Chlorobenzene	U		0.350	1.00	1	04/23/2015 16:17	WG783005



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/23/2015 16:17	WG783005
Chloroethane	U		0.450	5.00	1	04/23/2015 16:17	WG783005
Chloroform	U		0.320	5.00	1	04/23/2015 16:17	WG783005
Chloromethane	U		0.280	2.50	1	04/23/2015 16:17	WG783005
1,2-Dibromoethane	U		0.380	1.00	1	04/23/2015 16:17	WG783005
1,1-Dichloroethane	U		0.260	1.00	1	04/23/2015 16:17	WG783005
1,2-Dichloroethane	U		0.360	1.00	1	04/23/2015 16:17	WG783005
1,1-Dichloroethene	U		0.400	1.00	1	04/23/2015 16:17	WG783005
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/23/2015 16:17	WG783005
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/23/2015 16:17	WG783005
1,2-Dichloropropane	U		0.310	1.00	1	04/23/2015 16:17	WG783005
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/23/2015 16:17	WG783005
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/23/2015 16:17	WG783005
Ethylbenzene	69.2		0.380	1.00	1	04/23/2015 16:17	WG783005
Isopropylbenzene	16.2		0.330	1.00	1	04/23/2015 16:17	WG783005
p-Isopropyltoluene	1.03		0.350	1.00	1	04/23/2015 16:17	WG783005
2-Butanone (MEK)	U		3.90	10.0	1	04/23/2015 16:17	WG783005
2-Hexanone	U		3.80	10.0	1	04/23/2015 16:17	WG783005
Methylene Chloride	U		1.00	5.00	1	04/23/2015 16:17	WG783005
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/23/2015 16:17	WG783005
Methyl tert-butyl ether	5230		37.0	100	100	04/29/2015 17:53	WG784046
Naphthalene	46.8		1.00	5.00	1	04/23/2015 16:17	WG783005
n-Propylbenzene	28.0		0.350	1.00	1	04/23/2015 16:17	WG783005
Styrene	U		0.310	1.00	1	04/23/2015 16:17	WG783005
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/23/2015 16:17	WG783005
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/23/2015 16:17	WG783005
Tetrachloroethene	U		0.370	1.00	1	04/23/2015 16:17	WG783005
Toluene	215		3.90	25.0	5	04/29/2015 03:07	WG785314
1,1,1-Trichloroethane	U		0.319	1.00	1	04/23/2015 16:17	WG783005
1,1,2-Trichloroethane	U		0.380	1.00	1	04/23/2015 16:17	WG783005
Trichloroethene	U		0.400	1.00	1	04/23/2015 16:17	WG783005
1,2,4-Trimethylbenzene	48.6		0.370	1.00	1	04/23/2015 16:17	WG783005
1,3,5-Trimethylbenzene	11.9		0.390	1.00	1	04/23/2015 16:17	WG783005
Vinyl chloride	U		0.260	1.00	1	04/23/2015 16:17	WG783005
o-Xylene	60.6		0.340	1.00	1	04/23/2015 16:17	WG783005
m&p-Xylene	84.0		0.720	1.00	1	04/23/2015 16:17	WG783005
Xylenes, Total	145		1.10	3.00	1	04/23/2015 16:17	WG783005
(S) Toluene-d8	100			88.5-111		04/23/2015 16:17	WG783005
(S) Dibromofluoromethane	52.0	J2		78.3-121		04/23/2015 16:17	WG783005
(S) 4-Bromofluorobenzene	98.9			71.0-126		04/23/2015 16:17	WG783005

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2800		25.0	100	1	04/22/2015 19:16	WG783174
(S) o-Terphenyl	104			50.0-150		04/22/2015 19:16	WG783174



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1500000		2800	10000	1	04/23/2015 10:34	WG783399

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		20.0	100	1	04/30/2015 01:01	WG785019

Wet Chemistry by Method 9056MOD

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	518000		5200	100000	100	04/23/2015 19:15	WG783903
Fluoride	687		9.90	100	1	04/23/2015 16:56	WG783903
Sulfate	8080		77.0	5000	1	04/23/2015 16:56	WG783903

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	22.5		0.250	2.00	1	04/29/2015 12:39	WG783162
Arsenic,Dissolved	22.7		0.250	2.00	1	04/30/2015 02:15	WG783439
Barium	3420		0.360	5.00	1	04/29/2015 12:39	WG783162
Barium,Dissolved	3640		0.360	5.00	1	04/30/2015 02:15	WG783439
Calcium	237000		46.0	1000	1	04/29/2015 12:39	WG783162
Chromium	U		0.540	2.00	1	04/29/2015 12:39	WG783162
Chromium,Dissolved	U		0.540	2.00	1	04/30/2015 02:15	WG783439
Iron	3390		15.0	100	1	04/29/2015 12:39	WG783162
Iron,Dissolved	3640		15.0	100	1	04/30/2015 02:15	WG783439
Lead	0.632	L	0.240	2.00	1	04/29/2015 12:39	WG783162
Lead,Dissolved	0.353	L	0.240	2.00	1	04/30/2015 02:15	WG783439
Manganese	1570		0.250	5.00	1	04/29/2015 12:39	WG783162
Manganese,Dissolved	1740		0.250	5.00	1	04/30/2015 02:15	WG783439
Potassium	1790		37.0	1000	1	04/29/2015 12:39	WG783162
Selenium	U		0.380	2.00	1	04/29/2015 12:39	WG783162
Selenium,Dissolved	U		0.380	2.00	1	04/30/2015 02:15	WG783439
Sodium	198000		110	1000	1	04/29/2015 12:39	WG783162

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		10.0	50.0	1	04/23/2015 16:35	WG783005
Benzene	U		0.330	1.00	1	04/23/2015 16:35	WG783005
Bromodichloromethane	U		0.380	1.00	1	04/23/2015 16:35	WG783005
Bromoform	U		0.470	1.00	1	04/23/2015 16:35	WG783005
Bromomethane	U		0.870	5.00	1	04/23/2015 16:35	WG783005
n-Butylbenzene	2.20		0.360	1.00	1	04/23/2015 16:35	WG783005
sec-Butylbenzene	2.91		0.360	1.00	1	04/23/2015 16:35	WG783005
Carbon disulfide	U		0.280	1.00	1	04/23/2015 16:35	WG783005
Carbon tetrachloride	U		0.380	1.00	1	04/23/2015 16:35	WG783005
Chlorobenzene	U		0.350	1.00	1	04/23/2015 16:35	WG783005
Chlorodibromomethane	U		0.330	1.00	1	04/23/2015 16:35	WG783005
Chloroethane	U		0.450	5.00	1	04/23/2015 16:35	WG783005
Chloroform	U		0.320	5.00	1	04/23/2015 16:35	WG783005
Chloromethane	U		0.280	2.50	1	04/23/2015 16:35	WG783005
1,2-Dibromoethane	U		0.380	1.00	1	04/23/2015 16:35	WG783005
1,1-Dichloroethane	U		0.260	1.00	1	04/23/2015 16:35	WG783005



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.360	1.00	1	04/23/2015 16:35	WG783005
1,1-Dichloroethene	U		0.400	1.00	1	04/23/2015 16:35	WG783005
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/23/2015 16:35	WG783005
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/23/2015 16:35	WG783005
1,2-Dichloropropane	U		0.310	1.00	1	04/23/2015 16:35	WG783005
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/23/2015 16:35	WG783005
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/23/2015 16:35	WG783005
Ethylbenzene	39.5		0.380	1.00	1	04/23/2015 16:35	WG783005
Isopropylbenzene	14.6		0.330	1.00	1	04/23/2015 16:35	WG783005
p-Isopropyltoluene	0.613	J	0.350	1.00	1	04/23/2015 16:35	WG783005
2-Butanone (MEK)	U		3.90	10.0	1	04/23/2015 16:35	WG783005
2-Hexanone	U		3.80	10.0	1	04/23/2015 16:35	WG783005
Methylene Chloride	U		1.00	5.00	1	04/23/2015 16:35	WG783005
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/23/2015 16:35	WG783005
Methyl tert-butyl ether	U		0.370	1.00	1	04/23/2015 16:35	WG783005
Naphthalene	39.2		1.00	5.00	1	04/23/2015 16:35	WG783005
n-Propylbenzene	22.6		0.350	1.00	1	04/23/2015 16:35	WG783005
Styrene	U		0.310	1.00	1	04/23/2015 16:35	WG783005
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/23/2015 16:35	WG783005
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/23/2015 16:35	WG783005
Tetrachloroethene	U		0.370	1.00	1	04/23/2015 16:35	WG783005
Toluene	13.0		0.780	5.00	1	04/23/2015 16:35	WG783005
1,1,1-Trichloroethane	U		0.319	1.00	1	04/23/2015 16:35	WG783005
1,1,2-Trichloroethane	U		0.380	1.00	1	04/23/2015 16:35	WG783005
Trichloroethene	U		0.400	1.00	1	04/23/2015 16:35	WG783005
1,2,4-Trimethylbenzene	15.8		0.370	1.00	1	04/23/2015 16:35	WG783005
1,3,5-Trimethylbenzene	4.19		0.390	1.00	1	04/23/2015 16:35	WG783005
Vinyl chloride	U		0.260	1.00	1	04/23/2015 16:35	WG783005
o-Xylene	7.13		0.340	1.00	1	04/23/2015 16:35	WG783005
m&p-Xylene	32.3		0.720	1.00	1	04/23/2015 16:35	WG783005
Xylenes, Total	39.4		1.10	3.00	1	04/23/2015 16:35	WG783005
(S) Toluene-d8	101			88.5-111		04/23/2015 16:35	WG783005
(S) Dibromofluoromethane	66.6	J2		78.3-121		04/23/2015 16:35	WG783005
(S) 4-Bromofluorobenzene	99.4			71.0-126		04/23/2015 16:35	WG783005

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2300		25.0	100	1	04/22/2015 19:34	WG783174
(S) o-Terphenyl	108			50.0-150		04/22/2015 19:34	WG783174



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	1600000		2800	10000	1	04/23/2015 10:33	WG783399

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		20.0	100	1	04/30/2015 01:02	WG785019

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	427000		5200	100000	100	04/23/2015 19:29	WG783903
Fluoride	1010		9.90	100	1	04/23/2015 18:19	WG783903
Sulfate	294000		770	50000	10	04/28/2015 10:18	WG784715

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	20.1		0.250	2.00	1	04/29/2015 12:43	WG783162
Arsenic,Dissolved	12.3		0.250	2.00	1	04/30/2015 02:23	WG783439
Barium	147		0.360	5.00	1	04/29/2015 12:43	WG783162
Barium,Dissolved	239		0.360	5.00	1	04/30/2015 02:23	WG783439
Calcium	270000		46.0	1000	1	04/29/2015 12:43	WG783162
Chromium	1.67	J	0.540	2.00	1	04/29/2015 12:43	WG783162
Chromium,Dissolved	U		0.540	2.00	1	04/30/2015 02:23	WG783439
Iron	5030		15.0	100	1	04/29/2015 12:43	WG783162
Iron,Dissolved	5920		15.0	100	1	04/30/2015 02:23	WG783439
Lead	1.41	J	0.240	2.00	1	04/29/2015 12:43	WG783162
Lead,Dissolved	U		0.240	2.00	1	04/30/2015 12:50	WG783439
Manganese	1720		0.250	5.00	1	04/29/2015 12:43	WG783162
Manganese,Dissolved	1600		0.250	5.00	1	04/30/2015 02:23	WG783439
Potassium	521	J	37.0	1000	1	04/29/2015 12:43	WG783162
Selenium	U		0.380	2.00	1	04/29/2015 12:43	WG783162
Selenium,Dissolved	U		0.380	2.00	1	04/30/2015 02:23	WG783439
Sodium	172000		110	1000	1	04/29/2015 12:43	WG783162

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	1370		31.0	100	1	04/24/2015 23:32	WG783018
(S) a,a,a-Trifluorotoluene(FID) 104				62.0-128		04/24/2015 23:32	WG783018

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/23/2015 16:54	WG783005
Benzene	75.5		0.330	1.00	1	04/23/2015 16:54	WG783005
Bromodichloromethane	U		0.380	1.00	1	04/23/2015 16:54	WG783005
Bromoform	U		0.470	1.00	1	04/23/2015 16:54	WG783005
Bromomethane	U		0.870	5.00	1	04/23/2015 16:54	WG783005
n-Butylbenzene	U		0.360	1.00	1	04/23/2015 16:54	WG783005
sec-Butylbenzene	U		0.360	1.00	1	04/23/2015 16:54	WG783005
Carbon disulfide	U		0.280	1.00	1	04/23/2015 16:54	WG783005
Carbon tetrachloride	U		0.380	1.00	1	04/23/2015 16:54	WG783005
Chlorobenzene	U		0.350	1.00	1	04/23/2015 16:54	WG783005



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/23/2015 16:54	WG783005
Chloroethane	U		0.450	5.00	1	04/23/2015 16:54	WG783005
Chloroform	U		0.320	5.00	1	04/23/2015 16:54	WG783005
Chloromethane	U		0.280	2.50	1	04/23/2015 16:54	WG783005
1,2-Dibromoethane	U		0.380	1.00	1	04/23/2015 16:54	WG783005
1,1-Dichloroethane	U		0.260	1.00	1	04/23/2015 16:54	WG783005
1,2-Dichloroethane	0.724	L	0.360	1.00	1	04/23/2015 16:54	WG783005
1,1-Dichloroethene	U		0.400	1.00	1	04/23/2015 16:54	WG783005
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/23/2015 16:54	WG783005
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/23/2015 16:54	WG783005
1,2-Dichloropropane	U		0.310	1.00	1	04/23/2015 16:54	WG783005
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/23/2015 16:54	WG783005
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/23/2015 16:54	WG783005
Ethylbenzene	8.24		0.380	1.00	1	04/23/2015 16:54	WG783005
Isopropylbenzene	0.607	L	0.330	1.00	1	04/23/2015 16:54	WG783005
p-Isopropyltoluene	U		0.350	1.00	1	04/23/2015 16:54	WG783005
2-Butanone (MEK)	U		3.90	10.0	1	04/23/2015 16:54	WG783005
2-Hexanone	U		3.80	10.0	1	04/23/2015 16:54	WG783005
Methylene Chloride	U		1.00	5.00	1	04/23/2015 16:54	WG783005
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/23/2015 16:54	WG783005
Methyl tert-butyl ether	U		0.370	1.00	1	04/23/2015 16:54	WG783005
Naphthalene	2.94	L	1.00	5.00	1	04/23/2015 16:54	WG783005
n-Propylbenzene	0.827	L	0.350	1.00	1	04/23/2015 16:54	WG783005
Styrene	U		0.310	1.00	1	04/23/2015 16:54	WG783005
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/23/2015 16:54	WG783005
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/23/2015 16:54	WG783005
Tetrachloroethene	U		0.370	1.00	1	04/23/2015 16:54	WG783005
Toluene	U		0.780	5.00	1	04/23/2015 16:54	WG783005
1,1,1-Trichloroethane	U		0.319	1.00	1	04/23/2015 16:54	WG783005
1,1,2-Trichloroethane	U		0.380	1.00	1	04/23/2015 16:54	WG783005
Trichloroethene	U		0.400	1.00	1	04/23/2015 16:54	WG783005
1,2,4-Trimethylbenzene	2.56		0.370	1.00	1	04/23/2015 16:54	WG783005
1,3,5-Trimethylbenzene	0.567	L	0.390	1.00	1	04/23/2015 16:54	WG783005
Vinyl chloride	U		0.260	1.00	1	04/23/2015 16:54	WG783005
o-Xylene	1.58		0.340	1.00	1	04/23/2015 16:54	WG783005
m&p-Xylene	7.23		0.720	1.00	1	04/23/2015 16:54	WG783005
Xylenes, Total	8.81		1.10	3.00	1	04/23/2015 16:54	WG783005
(S) Toluene-d8	102			88.5-111		04/23/2015 16:54	WG783005
(S) Dibromofluoromethane	95.4			78.3-121		04/23/2015 16:54	WG783005
(S) 4-Bromofluorobenzene	102			71.0-126		04/23/2015 16:54	WG783005

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1900		25.0	100	1	04/22/2015 19:52	WG783174
(S) o-Terphenyl	105			50.0-150		04/22/2015 19:52	WG783174



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1460000		2800	10000	1	04/23/2015 10:39	WG783399

Wet Chemistry by Method 353.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	148		20.0	100	1	04/30/2015 01:03	WG785019

Wet Chemistry by Method 9056MOD

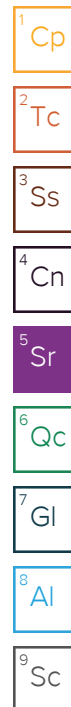
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	305000		5200	100000	100	04/23/2015 19:42	WG783903
Fluoride	366		9.90	100	1	04/23/2015 18:33	WG783903
Sulfate	16200		77.0	5000	1	04/23/2015 18:33	WG783903

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	6.21		0.250	2.00	1	04/29/2015 13:05	WG783162
Arsenic,Dissolved	5.81		0.250	2.00	1	04/30/2015 02:26	WG783439
Barium	294		0.360	5.00	1	04/29/2015 13:05	WG783162
Barium,Dissolved	293		0.360	5.00	1	04/30/2015 02:26	WG783439
Calcium	212000		46.0	1000	1	04/29/2015 13:05	WG783162
Chromium	U		0.540	2.00	1	04/29/2015 13:05	WG783162
Chromium,Dissolved	U		0.540	2.00	1	04/30/2015 02:26	WG783439
Iron	870		15.0	100	1	04/29/2015 13:05	WG783162
Iron,Dissolved	629		15.0	100	1	04/30/2015 02:26	WG783439
Lead	1.82	U	0.240	2.00	1	04/29/2015 13:05	WG783162
Lead,Dissolved	1.16	U	0.240	2.00	1	04/30/2015 12:53	WG783439
Manganese	2160		0.250	5.00	1	04/29/2015 13:05	WG783162
Manganese,Dissolved	2180		0.250	5.00	1	04/30/2015 02:26	WG783439
Potassium	220	U	37.0	1000	1	04/29/2015 13:05	WG783162
Selenium	U		0.380	2.00	1	04/29/2015 13:05	WG783162
Selenium,Dissolved	U		0.380	2.00	1	04/30/2015 02:26	WG783439
Sodium	193000		110	1000	1	04/29/2015 13:05	WG783162

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		250	1250	25	04/29/2015 18:12	WG784046
Benzene	15900		160	500	500	04/29/2015 23:18	WG785640
Bromodichloromethane	U		9.50	25.0	25	04/29/2015 18:12	WG784046
Bromoform	U		12.0	25.0	25	04/29/2015 18:12	WG784046
Bromomethane	U		22.0	125	25	04/29/2015 18:12	WG784046
n-Butylbenzene	U		9.00	25.0	25	04/29/2015 18:12	WG784046
sec-Butylbenzene	9.54	U	9.10	25.0	25	04/29/2015 18:12	WG784046
Carbon disulfide	U		6.90	25.0	25	04/29/2015 18:12	WG784046
Carbon tetrachloride	U		9.50	25.0	25	04/29/2015 18:12	WG784046
Chlorobenzene	U		8.70	25.0	25	04/29/2015 18:12	WG784046
Chlorodibromomethane	U		8.20	25.0	25	04/29/2015 18:12	WG784046
Chloroethane	U		11.0	125	25	04/29/2015 18:12	WG784046
Chloroform	U		8.10	125	25	04/29/2015 18:12	WG784046
Chloromethane	U		6.90	62.5	25	04/29/2015 18:12	WG784046
1,2-Dibromoethane	U		9.50	25.0	25	04/29/2015 18:12	WG784046
1,1-Dichloroethane	U		6.50	25.0	25	04/29/2015 18:12	WG784046





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	11.9	J	9.00	25.0	25	04/29/2015 18:12	WG784046
1,1-Dichloroethene	U		10.0	25.0	25	04/29/2015 18:12	WG784046
cis-1,2-Dichloroethene	U		6.50	25.0	25	04/29/2015 18:12	WG784046
trans-1,2-Dichloroethene	U		9.90	25.0	25	04/29/2015 18:12	WG784046
1,2-Dichloropropane	U		7.60	25.0	25	04/29/2015 18:12	WG784046
cis-1,3-Dichloropropene	U		10.0	25.0	25	04/29/2015 18:12	WG784046
trans-1,3-Dichloropropene	U		10.0	25.0	25	04/29/2015 18:12	WG784046
Ethylbenzene	2040		9.60	25.0	25	04/29/2015 18:12	WG784046
Isopropylbenzene	73.8		8.20	25.0	25	04/29/2015 18:12	WG784046
p-Isopropyltoluene	U		8.80	25.0	25	04/29/2015 18:12	WG784046
2-Butanone (MEK)	U		98.0	250	25	04/29/2015 18:12	WG784046
2-Hexanone	U		96.0	250	25	04/29/2015 18:12	WG784046
Methylene Chloride	U		25.0	125	25	04/29/2015 18:12	WG784046
4-Methyl-2-pentanone (MIBK)	U		54.0	250	25	04/29/2015 18:12	WG784046
Methyl tert-butyl ether	119		9.20	25.0	25	04/29/2015 18:12	WG784046
Naphthalene	239		25.0	125	25	04/29/2015 18:12	WG784046
n-Propylbenzene	121		8.70	25.0	25	04/29/2015 18:12	WG784046
Styrene	U		7.70	25.0	25	04/29/2015 18:12	WG784046
1,1,1,2-Tetrachloroethane	U		9.60	25.0	25	04/29/2015 18:12	WG784046
1,1,2,2-Tetrachloroethane	U		3.20	25.0	25	04/29/2015 18:12	WG784046
Tetrachloroethene	U		9.30	25.0	25	04/29/2015 18:12	WG784046
Toluene	1700		20.0	125	25	04/29/2015 18:12	WG784046
1,1,1-Trichloroethane	U		7.98	25.0	25	04/29/2015 18:12	WG784046
1,1,2-Trichloroethane	U		9.60	25.0	25	04/29/2015 18:12	WG784046
Trichloroethene	U		10.0	25.0	25	04/29/2015 18:12	WG784046
1,2,4-Trimethylbenzene	680		9.30	25.0	25	04/29/2015 18:12	WG784046
1,3,5-Trimethylbenzene	124		9.70	25.0	25	04/29/2015 18:12	WG784046
Vinyl chloride	U		6.50	25.0	25	04/29/2015 18:12	WG784046
o-Xylene	760		8.50	25.0	25	04/29/2015 18:12	WG784046
m&p-Xylene	2710		18.0	25.0	25	04/29/2015 18:12	WG784046
Xylenes, Total	3470		26.0	75.0	25	04/29/2015 18:12	WG784046
(S) Toluene-d8	105			88.5-111		04/29/2015 18:12	WG784046
(S) Dibromofluoromethane	91.5			78.3-121		04/29/2015 18:12	WG784046
(S) 4-Bromofluorobenzene	106			71.0-126		04/29/2015 18:12	WG784046

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	4500		25.0	100	1	04/22/2015 20:10	WG783174
(S) o-Terphenyl	102			50.0-150		04/22/2015 20:10	WG783174



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	1000000		2800	10000	1	04/23/2015 10:46	WG783399

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		20.0	100	1	04/30/2015 01:05	WG785019

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	283000		5200	100000	100	04/23/2015 19:56	WG783903
Fluoride	795		9.90	100	1	04/23/2015 18:47	WG783903
Sulfate	2100000		7700	500000	100	04/23/2015 19:56	WG783903

Metals (ICPMS) by Method 6020

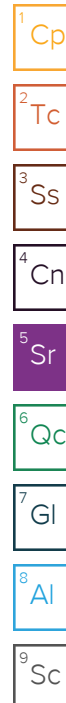
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	0.896	J	0.250	2.00	1	04/29/2015 13:08	WG783162
Arsenic,Dissolved	0.886	J	0.250	2.00	1	04/30/2015 02:28	WG783439
Barium	17.0		0.360	5.00	1	04/29/2015 13:08	WG783162
Barium,Dissolved	18.5		0.360	5.00	1	04/30/2015 02:28	WG783439
Calcium	427000		46.0	1000	1	04/29/2015 13:08	WG783162
Chromium	U		0.540	2.00	1	04/29/2015 13:08	WG783162
Chromium,Dissolved	U		0.540	2.00	1	04/30/2015 02:28	WG783439
Iron	67.8	J	15.0	100	1	04/29/2015 13:08	WG783162
Iron,Dissolved	U		15.0	100	1	04/30/2015 02:28	WG783439
Lead	U		0.240	2.00	1	04/29/2015 13:08	WG783162
Lead,Dissolved	U		0.240	2.00	1	04/30/2015 12:55	WG783439
Manganese	382		0.250	5.00	1	04/29/2015 13:08	WG783162
Manganese,Dissolved	378		0.250	5.00	1	04/30/2015 02:28	WG783439
Potassium	1520		37.0	1000	1	04/29/2015 13:08	WG783162
Selenium	U		0.380	2.00	1	04/29/2015 13:08	WG783162
Selenium,Dissolved	4.32		0.380	2.00	1	04/30/2015 02:28	WG783439
Sodium	207000		110	1000	1	04/29/2015 13:08	WG783162

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	U		31.0	100	1	04/24/2015 23:53	WG783018
(S) a,a,a-Trifluorotoluene(FID)	99.9			62.0-128		04/24/2015 23:53	WG783018

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/29/2015 18:31	WG784046
Benzene	U		0.330	1.00	1	04/29/2015 23:39	WG785640
Bromodichloromethane	U		0.380	1.00	1	04/29/2015 18:31	WG784046
Bromoform	U		0.470	1.00	1	04/29/2015 18:31	WG784046
Bromomethane	U		0.870	5.00	1	04/29/2015 18:31	WG784046
n-Butylbenzene	U		0.360	1.00	1	04/29/2015 18:31	WG784046
sec-Butylbenzene	0.750	J	0.360	1.00	1	04/29/2015 18:31	WG784046
Carbon disulfide	0.401	J	0.280	1.00	1	04/29/2015 18:31	WG784046
Carbon tetrachloride	U		0.380	1.00	1	04/29/2015 18:31	WG784046
Chlorobenzene	U		0.350	1.00	1	04/29/2015 18:31	WG784046





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/29/2015 18:31	WG784046
Chloroethane	U		0.450	5.00	1	04/29/2015 18:31	WG784046
Chloroform	U		0.320	5.00	1	04/29/2015 18:31	WG784046
Chloromethane	U		0.280	2.50	1	04/29/2015 18:31	WG784046
1,2-Dibromoethane	U		0.380	1.00	1	04/29/2015 18:31	WG784046
1,1-Dichloroethane	U		0.260	1.00	1	04/29/2015 18:31	WG784046
1,2-Dichloroethane	U		0.360	1.00	1	04/29/2015 18:31	WG784046
1,1-Dichloroethene	U		0.400	1.00	1	04/29/2015 18:31	WG784046
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/29/2015 18:31	WG784046
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/29/2015 18:31	WG784046
1,2-Dichloropropane	U		0.310	1.00	1	04/29/2015 18:31	WG784046
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/29/2015 18:31	WG784046
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/29/2015 18:31	WG784046
Ethylbenzene	U		0.380	1.00	1	04/29/2015 18:31	WG784046
Isopropylbenzene	1.09		0.330	1.00	1	04/29/2015 18:31	WG784046
p-Isopropyltoluene	U		0.350	1.00	1	04/29/2015 18:31	WG784046
2-Butanone (MEK)	U		3.90	10.0	1	04/29/2015 18:31	WG784046
2-Hexanone	U		3.80	10.0	1	04/29/2015 18:31	WG784046
Methylene Chloride	U		1.00	5.00	1	04/29/2015 18:31	WG784046
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/29/2015 18:31	WG784046
Methyl tert-butyl ether	U		0.370	1.00	1	04/29/2015 18:31	WG784046
Naphthalene	U		1.00	5.00	1	04/29/2015 18:31	WG784046
n-Propylbenzene	U		0.350	1.00	1	04/29/2015 18:31	WG784046
Styrene	U		0.310	1.00	1	04/29/2015 18:31	WG784046
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/29/2015 18:31	WG784046
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/29/2015 18:31	WG784046
Tetrachloroethene	U		0.370	1.00	1	04/29/2015 18:31	WG784046
Toluene	U		0.780	5.00	1	04/29/2015 18:31	WG784046
1,1,1-Trichloroethane	U		0.319	1.00	1	04/29/2015 18:31	WG784046
1,1,2-Trichloroethane	0.819	U	0.380	1.00	1	04/29/2015 18:31	WG784046
Trichloroethene	U		0.400	1.00	1	04/29/2015 18:31	WG784046
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/29/2015 18:31	WG784046
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/29/2015 18:31	WG784046
Vinyl chloride	U		0.260	1.00	1	04/29/2015 18:31	WG784046
o-Xylene	U		0.340	1.00	1	04/29/2015 18:31	WG784046
m&p-Xylene	U		0.720	1.00	1	04/29/2015 18:31	WG784046
Xylenes, Total	U		1.10	3.00	1	04/29/2015 18:31	WG784046
(S) Toluene-d8	104			88.5-111		04/29/2015 18:31	WG784046
(S) Dibromofluoromethane	96.3			78.3-121		04/29/2015 18:31	WG784046
(S) 4-Bromofluorobenzene	121			71.0-126		04/29/2015 18:31	WG784046

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1200		25.0	100	1	04/22/2015 20:28	WG783174
(S) o-Terphenyl	105			50.0-150		04/22/2015 20:28	WG783174



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		10.0	50.0	1	04/30/2015 00:00	WG785640
Benzene	U		0.330	1.00	1	04/30/2015 00:00	WG785640
Bromodichloromethane	U		0.380	1.00	1	04/30/2015 00:00	WG785640
Bromoform	U		0.470	1.00	1	04/30/2015 00:00	WG785640
Bromomethane	U		0.870	5.00	1	04/30/2015 00:00	WG785640
n-Butylbenzene	U		0.360	1.00	1	04/30/2015 00:00	WG785640
sec-Butylbenzene	U		0.360	1.00	1	04/30/2015 00:00	WG785640
Carbon disulfide	U		0.280	1.00	1	04/30/2015 00:00	WG785640
Carbon tetrachloride	U		0.380	1.00	1	04/30/2015 00:00	WG785640
Chlorobenzene	U		0.350	1.00	1	04/30/2015 00:00	WG785640
Chlorodibromomethane	U		0.330	1.00	1	04/30/2015 00:00	WG785640
Chloroethane	U		0.450	5.00	1	04/30/2015 00:00	WG785640
Chloroform	U	<u>J4</u>	0.320	5.00	1	04/30/2015 00:00	WG785640
Chloromethane	U		0.280	2.50	1	04/30/2015 00:00	WG785640
1,2-Dibromoethane	U		0.380	1.00	1	04/30/2015 00:00	WG785640
1,1-Dichloroethane	U		0.260	1.00	1	04/30/2015 00:00	WG785640
1,2-Dichloroethane	U		0.360	1.00	1	04/30/2015 00:00	WG785640
1,1-Dichloroethene	U		0.400	1.00	1	04/30/2015 00:00	WG785640
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/30/2015 00:00	WG785640
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/30/2015 00:00	WG785640
1,2-Dichloropropane	U		0.310	1.00	1	04/30/2015 00:00	WG785640
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/30/2015 00:00	WG785640
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/30/2015 00:00	WG785640
Ethylbenzene	U		0.380	1.00	1	04/30/2015 00:00	WG785640
Isopropylbenzene	U		0.330	1.00	1	04/30/2015 00:00	WG785640
p-Isopropyltoluene	U		0.350	1.00	1	04/30/2015 00:00	WG785640
2-Butanone (MEK)	U		3.90	10.0	1	04/30/2015 00:00	WG785640
2-Hexanone	U		3.80	10.0	1	04/30/2015 00:00	WG785640
Methylene Chloride	U		1.00	5.00	1	04/30/2015 00:00	WG785640
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/30/2015 00:00	WG785640
Methyl tert-butyl ether	U		0.370	1.00	1	04/30/2015 00:00	WG785640
Naphthalene	U		1.00	5.00	1	04/30/2015 00:00	WG785640
n-Propylbenzene	U		0.350	1.00	1	04/30/2015 00:00	WG785640
Styrene	U	<u>J4</u>	0.310	1.00	1	04/30/2015 00:00	WG785640
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/30/2015 00:00	WG785640
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/30/2015 00:00	WG785640
Tetrachloroethene	U		0.370	1.00	1	04/30/2015 00:00	WG785640
Toluene	U	<u>J3</u>	0.780	5.00	1	04/30/2015 00:00	WG785640
1,1,1-Trichloroethane	U		0.319	1.00	1	04/30/2015 00:00	WG785640
1,1,2-Trichloroethane	U		0.380	1.00	1	04/30/2015 00:00	WG785640
Trichloroethene	U		0.400	1.00	1	04/30/2015 00:00	WG785640
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/30/2015 00:00	WG785640
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/30/2015 00:00	WG785640
Vinyl chloride	U		0.260	1.00	1	04/30/2015 00:00	WG785640
o-Xylene	U		0.340	1.00	1	04/30/2015 00:00	WG785640
m&p-Xylene	U		0.720	1.00	1	04/30/2015 00:00	WG785640
Xylenes, Total	U		1.10	3.00	1	04/30/2015 00:00	WG785640
(S) Toluene-d8	98.7			88.5-111		04/30/2015 00:00	WG785640
(S) Dibromofluoromethane	92.8			78.3-121		04/30/2015 00:00	WG785640
(S) 4-Bromofluorobenzene	96.3			71.0-126		04/30/2015 00:00	WG785640

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) 04/23/15 10:38

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		2.82	10.0

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

L760094-06 Original Sample (OS) • Duplicate (DUP)

(OS) 04/23/15 10:30 • (DUP) 04/23/15 10:50

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1710	1570	1	8.38	J3	5

⁷ Gl

⁸ Al

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

(LCS) 04/23/15 10:33 • (LCSD) 04/23/15 10:33

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 %
Dissolved Solids	8800	7830	7890	89.0	89.7	85.0-115			0.763	5

⁹ Sc

Method Blank (MB)

(MB) 04/30/15 12:43

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Nitrate-Nitrite	U		0.0197	0.100

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L760094-03 Original Sample (OS) • Duplicate (DUP)

(OS) 04/30/15 01:12 • (DUP) 04/30/15 01:13

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Nitrate-Nitrite	ND	ND	1	200		20

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

(LCS) 04/30/15 12:47 • (LCSD) 04/30/15 12:48

	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	%	%	%			%	%
Nitrate-Nitrite	5.00	5.03	4.62	101	92.4	90.0-110			8.50	20

L760074-16 Original Sample (OS) • Matrix Spike (MS)

(OS) 04/30/15 12:53 • (MS) 04/30/15 12:54

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/l	mg/l	mg/l	%		%	
Nitrate-Nitrite	5.00	2.08	6.81	94.2	1	90.0-110	

Method Blank (MB)

(MB) 04/23/15 03:16

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L760082-07 Original Sample (OS) • Duplicate (DUP)

(OS) 04/23/15 14:37 • (DUP) 04/23/15 14:51

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	115	117	2	1		20
Fluoride	0.0693	0.115	2	50	P1	20
Sulfate	173	175	2	1		20

L760082-12 Original Sample (OS) • Duplicate (DUP)

(OS) 04/23/15 20:10 • (DUP) 04/23/15 20:24

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	161	163	10	1		20
Fluoride	0.561	0.365	10	42	P1	20
Sulfate	281	287	10	2		20

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

(LCS) 04/23/15 03:33 • (LCSD) 04/23/15 03:50

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 %
Chloride	40.0	40.4	40.3	101	101	90-110			0	20
Fluoride	8.00	8.38	8.38	105	105	90-110			0	20
Sulfate	40.0	41.4	41.4	103	103	90-110			0	20

L760082-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/23/15 17:09 • (MS) 04/23/15 17:23 • (MSD) 04/23/15 17:37

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 %
Chloride	5.00	216	704	724	98	102	10	80-120			3	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



L760082-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/23/15 17:09 • (MS) 04/23/15 17:23 • (MSD) 04/23/15 17:37

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 %
Fluoride	0.500	0.222	38.5	53.1	77	106	10	80-120	J6	J3	32	20
Sulfate	5.00	311	777	796	93	97	10	80-120			2	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) 04/27/15 15:23

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Sulfate	U		0.0774	5.00

L760247-18 Original Sample (OS) • Duplicate (DUP)

(OS) 04/27/15 20:01 • (DUP) 04/27/15 20:15

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Sulfate	0.0248	-0.0843	1	0		20

L760088-03 Original Sample (OS) • Duplicate (DUP)

(OS) 04/28/15 10:18 • (DUP) 04/28/15 10:32

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Sulfate	294	290	10	1		20

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

(LCS) 04/27/15 15:37 • (LCSD) 04/27/15 15:51

	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	%	%	%			%	%
Sulfate	40.0	40.4	40.4	101	101	90-110			0	20

L760247-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/27/15 20:29 • (MS) 04/27/15 20:43 • (MSD) 04/27/15 20:57

	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	%	%		%			%	%
Sulfate	50.0	ND	51.7	52.3	103	105	1	80-120			1	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



Method Blank (MB)

(MB) 04/29/15 12:19

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Iron	0.0234		0.015	0.100
Lead	U		0.00024	0.00200
Manganese	0.000479		0.00025	0.00500
Potassium	U		0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00

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) 04/29/15 12:21 • (LCSD) 04/29/15 12:24

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 %
Arsenic	0.0500	0.0485	0.0480	97	96	80-120			1	20
Barium	0.0500	0.0509	0.0515	102	103	80-120			1	20
Calcium	5.00	5.07	5.05	101	101	80-120			1	20
Chromium	0.0500	0.0504	0.0506	101	101	80-120			0	20
Iron	5.00	4.71	4.65	94	93	80-120			1	20
Lead	0.0500	0.0517	0.0515	103	103	80-120			0	20
Manganese	0.0500	0.0511	0.0503	102	101	80-120			2	20
Potassium	5.00	5.00	4.92	100	98	80-120			2	20
Selenium	0.0500	0.0492	0.0498	98	100	80-120			1	20
Sodium	5.00	5.31	5.22	106	104	80-120			2	20

L760282-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/29/15 12:27 • (MS) 04/29/15 12:32 • (MSD) 04/29/15 12:34

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 %
Arsenic	0.0500	0.00621	0.0577	0.0578	103	103	1	75-125			0	20
Barium	0.0500	0.0104	0.0624	0.0621	104	103	1	75-125			0	20
Calcium	5.00	510	513	507	65	0	1	75-125	V	V	1	20
Chromium	0.0500	0.000346	0.0505	0.0479	100	95	1	75-125			5	20
Potassium	5.00	0.398	5.26	5.17	97	95	1	75-125			2	20
Iron	5.00	0.0746	4.71	4.34	93	85	1	75-125			8	20



L760282-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/29/15 12:27 • (MS) 04/29/15 12:32 • (MSD) 04/29/15 12:34

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 %
Lead	0.0500	0.000148	0.0515	0.0501	103	100	1	75-125			3	20
Manganese	0.0500	0.00743	0.0575	0.0544	100	94	1	75-125			6	20
Selenium	0.0500	0.0289	0.0833	0.0793	109	101	1	75-125			5	20
Sodium	5.00	232	236	234	87	37	1	75-125		V	1	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 04/30/15 01:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Chromium,Dissolved	U		0.00054	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	U		0.00025	0.00500
Selenium,Dissolved	U		0.00038	0.00200

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) 04/30/15 01:31 • (LCSD) 04/30/15 01:33

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 %
Arsenic,Dissolved	0.0500	0.0484	0.0485	97	97	80-120			0	20
Barium,Dissolved	0.0500	0.0537	0.0534	107	107	80-120			0	20
Chromium,Dissolved	0.0500	0.0506	0.0499	101	100	80-120			1	20
Iron,Dissolved	5.00	4.71	4.64	94	93	80-120			1	20
Lead,Dissolved	0.0500	0.0515	0.0525	103	105	80-120			2	20
Manganese,Dissolved	0.0500	0.0513	0.0517	103	103	80-120			1	20
Selenium,Dissolved	0.0500	0.0504	0.0499	101	100	80-120			1	20

L760074-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/30/15 01:36 • (MS) 04/30/15 01:41 • (MSD) 04/30/15 01:44

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 %
Arsenic,Dissolved	0.0500	0.0930	0.144	0.143	102	100	1	75-125			1	20
Barium,Dissolved	0.0500	0.0202	0.0766	0.0780	113	116	1	75-125			2	20
Chromium,Dissolved	0.0500	ND	0.0479	0.0492	96	98	1	75-125			3	20
Iron,Dissolved	5.00	2.05	6.54	6.56	90	90	1	75-125			0	20
Lead,Dissolved	0.0500	0.0000778	0.0519	0.0527	104	105	1	75-125			2	20
Manganese,Dissolved	0.0500	8.49	8.51	8.51	31	41	1	75-125	V	V	0	20
Selenium,Dissolved	0.0500	0.000414	0.0540	0.0533	107	106	1	75-125			1	20



Method Blank (MB)

(MB) 04/24/15 17:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	101			62.0-128

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) 04/24/15 15:39 • (LCSD) 04/24/15 16:00

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 %
TPH (GC/FID) Low Fraction	5.50	5.90	6.14	107	112	67.0-132			3.93	20
(S) a,a,a-Trifluorotoluene(FID)				98.7	98.8	62.0-128				

L760074-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/24/15 17:46 • (MS) 04/24/15 16:22 • (MSD) 04/24/15 16:43

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 %
TPH (GC/FID) Low Fraction	5.50	1.90	7.60	7.49	104	102	1	50.0-143			1.39	20
(S) a,a,a-Trifluorotoluene(FID)					98.1	97.0		62.0-128				



Method Blank (MB)

(MB) 04/23/15 10:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	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
Carbon disulfide	U		0.000275	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
1,2-Dibromoethane	U		0.000381	0.00100
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
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
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		0.000780	0.00500
1,1,1-Trichloroethane	U		0.000319	0.00100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) 04/23/15 10:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	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
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	104			88.5-111
(S) Dibromofluoromethane	101			78.3-121
(S) 4-Bromofluorobenzene	102			71.0-126

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) 04/23/15 09:51 • (LCSD) 04/23/15 10:10

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 %
Acetone	0.125	0.197	0.179	158	143	35.6-163			9.88	23.9
Benzene	0.0250	0.0254	0.0230	102	91.9	74.8-121			10.0	20
Bromodichloromethane	0.0250	0.0267	0.0244	107	97.6	75.1-116			9.02	20
Bromoform	0.0250	0.0278	0.0262	111	105	67.5-130			6.04	20
Bromomethane	0.0250	0.0221	0.0191	88.4	76.3	49.9-162			14.7	20
n-Butylbenzene	0.0250	0.0256	0.0232	102	93.0	76.2-126			9.66	20
sec-Butylbenzene	0.0250	0.0276	0.0248	110	99.0	74.4-127			10.9	20
Carbon disulfide	0.0250	0.0251	0.0209	100	83.8	64.6-140			17.9	20
Carbon tetrachloride	0.0250	0.0263	0.0237	105	94.7	70.2-123			10.5	20
Chlorobenzene	0.0250	0.0271	0.0248	109	99.3	78.1-119			8.89	20
Chlorodibromomethane	0.0250	0.0275	0.0261	110	104	74.0-121			5.22	20
Chloroethane	0.0250	0.0213	0.0187	85.0	74.7	61.7-135			12.9	20
Chloroform	0.0250	0.0267	0.0240	107	95.8	76.0-121			10.7	20
Chloromethane	0.0250	0.0254	0.0219	102	87.5	61.5-129			15.1	20
1,2-Dibromoethane	0.0250	0.0262	0.0241	105	96.3	76.6-121			8.27	20
1,1-Dichloroethane	0.0250	0.0258	0.0236	103	94.4	70.7-126			8.72	20
1,2-Dichloroethane	0.0250	0.0265	0.0241	106	96.6	68.8-124			9.22	20
1,1-Dichloroethene	0.0250	0.0251	0.0219	100	87.7	67.8-129			13.4	20
cis-1,2-Dichloroethene	0.0250	0.0258	0.0239	103	95.5	76.0-119			7.89	20
trans-1,2-Dichloroethene	0.0250	0.0245	0.0224	98.1	89.6	72.6-121			9.14	20
1,2-Dichloropropane	0.0250	0.0259	0.0234	103	93.8	76.5-119			9.87	20



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

(LCS) 04/23/15 09:51 • (LCSD) 04/23/15 10:10

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 %
cis-1,3-Dichloropropene	0.0250	0.0272	0.0242	109	96.9	78.2-120			11.4	20
trans-1,3-Dichloropropene	0.0250	0.0280	0.0248	112	99.3	74.3-123			11.8	20
Ethylbenzene	0.0250	0.0258	0.0237	103	95.0	78.8-122			8.41	20
2-Hexanone	0.125	0.141	0.127	113	102	65.6-144			10.7	20
Isopropylbenzene	0.0250	0.0266	0.0244	106	97.6	78.6-132			8.65	20
p-Isopropyltoluene	0.0250	0.0272	0.0244	109	97.8	74.0-131			10.8	20
2-Butanone (MEK)	0.125	0.143	0.134	115	107	55.0-149			6.77	20
Methylene Chloride	0.0250	0.0234	0.0217	93.6	86.6	70.3-120			7.72	20
4-Methyl-2-pentanone (MIBK)	0.125	0.133	0.120	107	96.0	70.5-133			10.5	20
Methyl tert-butyl ether	0.0250	0.0244	0.0225	97.7	90.2	71.2-126			8.02	20
Naphthalene	0.0250	0.0255	0.0240	102	96.0	68.4-128			6.29	20
n-Propylbenzene	0.0250	0.0263	0.0242	105	96.7	78.2-122			8.43	20
Styrene	0.0250	0.0262	0.0244	105	97.5	80.4-126			7.35	20
1,1,1,2-Tetrachloroethane	0.0250	0.0278	0.0253	111	101	74.2-124			9.26	20
1,1,2,2-Tetrachloroethane	0.0250	0.0265	0.0247	106	98.8	70.7-122			7.21	20
Tetrachloroethene	0.0250	0.0269	0.0246	108	98.2	72.6-126			9.29	20
Toluene	0.0250	0.0258	0.0232	103	92.9	79.7-116			10.7	20
1,1,1-Trichloroethane	0.0250	0.0270	0.0234	108	93.8	73.2-123			14.2	20
1,1,2-Trichloroethane	0.0250	0.0269	0.0250	107	99.8	77.7-118			7.34	20
Trichloroethene	0.0250	0.0271	0.0243	108	97.2	77.7-118			10.9	20
1,2,4-Trimethylbenzene	0.0250	0.0264	0.0242	106	96.7	75.0-123			8.93	20
1,3,5-Trimethylbenzene	0.0250	0.0265	0.0244	106	97.6	75.6-124			8.30	20
Vinyl chloride	0.0250	0.0236	0.0209	94.6	83.7	65.9-128			12.2	20
Xylenes, Total	0.0750	0.0776	0.0718	103	95.8	78.7-121			7.76	20
o-Xylene	0.0250	0.0260	0.0245	104	97.9	77.6-122			6.21	20
m&p-Xylenes	0.0500	0.0516	0.0474	103	94.7	78.8-121			8.56	20
(S) Toluene-d8				102	104	88.5-111				
(S) Dibromofluoromethane				96.2	96.6	78.3-121				
(S) 4-Bromofluorobenzene				99.5	102	71.0-126				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 04/29/15 11:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
Carbon disulfide	U		0.000275	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
1,2-Dibromoethane	U		0.000381	0.00100
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
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	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
Styrene	U		0.000307	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000780	0.00500
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) 04/29/15 11:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
(S) Toluene-d8	104			88.5-111
(S) Dibromofluoromethane	95.5			78.3-121
(S) 4-Bromofluorobenzene	114			71.0-126

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

(LCS) 04/29/15 10:03 • (LCSD) 04/29/15 10:23

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 %
Acetone	0.125	0.156	0.146	125	117	35.6-163			6.43	23.9
Benzene	0.0250	0.0232	0.0219	92.7	87.5	74.8-121			5.76	20
Bromodichloromethane	0.0250	0.0225	0.0220	90.1	88.1	75.1-116			2.23	20
Bromoform	0.0250	0.0241	0.0266	96.2	106	67.5-130			9.99	20
Bromomethane	0.0250	0.0173	0.0201	69.1	80.3	49.9-162			15.0	20
Carbon disulfide	0.0250	0.0233	0.0212	93.1	84.6	64.6-140			9.50	20
Carbon tetrachloride	0.0250	0.0239	0.0236	95.7	94.4	70.2-123			1.36	20
Chlorobenzene	0.0250	0.0240	0.0254	95.9	101	78.1-119			5.55	20
Chlorodibromomethane	0.0250	0.0235	0.0250	93.9	100	74.0-121			6.48	20
Chloroethane	0.0250	0.0208	0.0207	83.1	83.0	61.7-135			0.180	20
Chloroform	0.0250	0.0225	0.0211	89.9	84.3	76.0-121			6.45	20
Chloromethane	0.0250	0.0175	0.0177	70.0	70.9	61.5-129			1.27	20
1,2-Dibromoethane	0.0250	0.0238	0.0252	95.3	101	76.6-121			5.77	20
1,1-Dichloroethane	0.0250	0.0236	0.0214	94.3	85.4	70.7-126			9.85	20
1,2-Dichloroethane	0.0250	0.0231	0.0221	92.3	88.5	68.8-124			4.13	20
1,1-Dichloroethene	0.0250	0.0230	0.0206	92.0	82.5	67.8-129			10.9	20
cis-1,2-Dichloroethene	0.0250	0.0243	0.0227	97.4	90.8	76.0-119			7.00	20
trans-1,2-Dichloroethene	0.0250	0.0240	0.0218	96.0	87.2	72.6-121			9.63	20
1,2-Dichloropropane	0.0250	0.0238	0.0229	95.3	91.5	76.5-119			4.14	20
cis-1,3-Dichloropropene	0.0250	0.0247	0.0240	98.9	95.8	78.2-120			3.17	20
trans-1,3-Dichloropropene	0.0250	0.0245	0.0246	98.1	98.6	74.3-123			0.470	20
Ethylbenzene	0.0250	0.0241	0.0249	96.3	99.6	78.8-122			3.34	20
2-Hexanone	0.125	0.130	0.132	104	106	65.6-144			1.73	20
Isopropylbenzene	0.0250	0.0242	0.0277	96.7	111	78.6-132			13.6	20
2-Butanone (MEK)	0.125	0.135	0.127	108	102	55.0-149			6.24	20
Methylene Chloride	0.0250	0.0233	0.0216	93.1	86.6	70.3-120			7.22	20
4-Methyl-2-pentanone (MIBK)	0.125	0.114	0.113	91.4	90.3	70.5-133			1.24	20
Methyl tert-butyl ether	0.0250	0.0245	0.0235	97.9	93.9	71.2-126			4.12	20
Styrene	0.0250	0.0251	0.0262	100	105	80.4-126			4.53	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



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

(LCS) 04/29/15 10:03 • (LCSD) 04/29/15 10:23

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 %
1,1,2,2-Tetrachloroethane	0.0250	0.0238	0.0280	95.2	112	70.7-122			16.3	20
Tetrachloroethene	0.0250	0.0239	0.0251	95.5	100	72.6-126			4.96	20
Toluene	0.0250	0.0232	0.0230	92.9	91.9	79.7-116			1.05	20
1,1,1-Trichloroethane	0.0250	0.0241	0.0220	96.3	87.9	73.2-123			9.11	20
1,1,2-Trichloroethane	0.0250	0.0226	0.0236	90.5	94.3	77.7-118			4.06	20
Trichloroethene	0.0250	0.0244	0.0243	97.8	97.2	77.7-118			0.580	20
Vinyl chloride	0.0250	0.0200	0.0202	79.9	80.6	65.9-128			0.950	20
Xylenes, Total	0.0750	0.0726	0.0761	96.7	101	78.7-121			4.75	20
o-Xylene	0.0250	0.0242	0.0258	96.6	103	77.6-122			6.41	20
m&p-Xylenes	0.0500	0.0484	0.0503	96.8	101	78.8-121			3.92	20
(S) Toluene-d8				105	103	88.5-111				
(S) Dibromofluoromethane				100	95.5	78.3-121				
(S) 4-Bromofluorobenzene				105	121	71.0-126				

L760701-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/29/15 14:19 • (MS) 04/29/15 12:03 • (MSD) 04/29/15 12:23

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 %
Acetone	0.125	0.00550	0.0973	0.0996	73.4	75.3	1	10.0-130			2.39	27.9
Benzene	0.0250	ND	0.0226	0.0224	90.3	89.5	1	54.3-133			0.900	20
Bromodichloromethane	0.0250	ND	0.0230	0.0226	91.9	90.5	1	63.9-121			1.61	20
Bromoform	0.0250	ND	0.0256	0.0300	102	120	1	59.5-134			16.2	20.5
Bromomethane	0.0250	ND	0.0191	0.0218	76.5	87.1	1	41.7-155			12.9	21.9
Carbon disulfide	0.0250	ND	0.0219	0.0222	87.6	88.6	1	43.3-149			1.20	20.3
Carbon tetrachloride	0.0250	ND	0.0235	0.0245	94.1	98.2	1	55.7-134			4.22	20
Chlorobenzene	0.0250	ND	0.0250	0.0283	99.8	113	1	67.0-125			12.5	20
Chlorodibromomethane	0.0250	ND	0.0247	0.0257	98.6	103	1	64.3-125			4.05	20.8
Chloroethane	0.0250	ND	0.0221	0.0232	88.2	92.7	1	51.5-136			4.90	40
Chloroform	0.0250	ND	0.0221	0.0218	88.4	87.4	1	63.0-129			1.17	20
Chloromethane	0.0250	ND	0.0190	0.0220	75.9	88.1	1	42.4-135			14.9	20
1,2-Dibromoethane	0.0250	ND	0.0258	0.0265	103	106	1	67.1-125			2.64	20
1,1-Dichloroethane	0.0250	ND	0.0221	0.0227	88.3	90.8	1	58.5-132			2.79	20
1,2-Dichloroethane	0.0250	ND	0.0254	0.0238	101	95.4	1	60.0-126			6.20	20
1,1-Dichloroethene	0.0250	ND	0.0215	0.0216	85.9	86.4	1	51.1-140			0.560	20.2
cis-1,2-Dichloroethene	0.0250	ND	0.0239	0.0239	95.7	95.7	1	59.2-129			0.000	20
trans-1,2-Dichloroethene	0.0250	ND	0.0232	0.0230	92.7	92.0	1	56.5-129			0.700	20
1,2-Dichloropropane	0.0250	0.00212	0.0243	0.0235	88.9	85.7	1	64.2-123			3.32	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



L760701-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/29/15 14:19 • (MS) 04/29/15 12:03 • (MSD) 04/29/15 12:23

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 %
cis-1,3-Dichloropropene	0.0250	ND	0.0253	0.0245	101	98.1	1	66.4-125			3.00	20
trans-1,3-Dichloropropene	0.0250	ND	0.0260	0.0253	104	101	1	64.1-128			2.88	20
Ethylbenzene	0.0250	ND	0.0248	0.0275	99.2	110	1	61.4-133			10.4	20
2-Hexanone	0.125	ND	0.123	0.126	98.7	101	1	43.3-137			2.30	25.5
Isopropylbenzene	0.0250	ND	0.0250	0.0284	100	114	1	66.8-141			12.7	20
2-Butanone (MEK)	0.125	0.000537	0.107	0.111	85.5	88.5	1	22.4-138			3.46	27
Methylene Chloride	0.0250	0.000398	0.0225	0.0226	88.5	88.8	1	58.1-122			0.350	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.122	0.123	97.3	98.3	1	60.8-140			1.00	25.1
Methyl tert-butyl ether	0.0250	ND	0.0247	0.0248	98.8	99.1	1	57.7-134			0.330	20
Styrene	0.0250	ND	0.0256	0.0298	102	119	1	66.8-133			15.2	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0253	0.0301	101	120	1	56.0-132			17.2	22.2
Tetrachloroethene	0.0250	0.000334	0.0248	0.0258	97.9	102	1	53.0-139			3.85	20
Toluene	0.0250	ND	0.0238	0.0235	95.0	93.8	1	61.4-130			1.29	20
1,1,1-Trichloroethane	0.0250	ND	0.0228	0.0231	91.3	92.6	1	58.7-134			1.39	20
1,1,2-Trichloroethane	0.0250	ND	0.0239	0.0245	95.7	98.2	1	66.3-125			2.55	20
Trichloroethene	0.0250	ND	0.0250	0.0251	100	100	1	44.1-149			0.390	20
Vinyl chloride	0.0250	ND	0.0212	0.0228	84.9	91.1	1	47.8-137			7.02	20
Xylenes, Total	0.0750	ND	0.0745	0.0866	99.3	115	1	63.3-131			15.0	20
o-Xylene	0.0250	ND	0.0247	0.0289	99.0	116	1	63.3-130			15.5	20
m&p-Xylenes	0.0500	ND	0.0497	0.0577	99.5	115	1	61.7-133			14.8	20
(S) Toluene-d8					105	104		88.5-111				
(S) Dibromofluoromethane					95.3	97.9		78.3-121				
(S) 4-Bromofluorobenzene					106	122		71.0-126				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 04/29/15 00:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Toluene	U		0.000780	0.00500

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

(LCS) 04/28/15 23:03 • (LCSD) 04/28/15 23:23

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 %
Toluene	0.0250	0.0244	0.0263	97.6	105	79.7-116			7.44	20

L760094-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/29/15 02:28 • (MS) 04/29/15 01:10 • (MSD) 04/29/15 01:29

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 %
Toluene	0.0500	ND	0.0453	0.0463	90.6	92.6	1	61.4-130			2.24	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 04/29/15 17:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	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
Carbon disulfide	U		0.000275	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
1,2-Dibromoethane	U		0.000381	0.00100
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
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
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		0.000780	0.00500
1,1,1-Trichloroethane	U		0.000319	0.00100

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Method Blank (MB)

(MB) 04/29/15 17:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	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
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	98.7			88.5-111
(S) Dibromofluoromethane	91.0			78.3-121
(S) 4-Bromofluorobenzene	97.6			71.0-126

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) 04/29/15 16:13 • (LCSD) 04/29/15 16:34

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 %
Acetone	0.125	0.144	0.121	115	96.8	35.6-163			17.4	23.9
Benzene	0.0250	0.0225	0.0195	89.9	78.0	74.8-121			14.1	20
Bromodichloromethane	0.0250	0.0250	0.0213	99.9	85.4	75.1-116			15.7	20
Bromoform	0.0250	0.0286	0.0246	115	98.3	67.5-130			15.2	20
Bromomethane	0.0250	0.0251	0.0213	100	85.0	49.9-162			16.4	20
n-Butylbenzene	0.0250	0.0251	0.0214	100	85.7	76.2-126			15.9	20
sec-Butylbenzene	0.0250	0.0244	0.0215	97.6	85.8	74.4-127			12.8	20
Carbon disulfide	0.0250	0.0248	0.0210	99.0	84.1	64.6-140			16.3	20
Carbon tetrachloride	0.0250	0.0252	0.0222	101	89.0	70.2-123			12.5	20
Chlorobenzene	0.0250	0.0257	0.0220	103	88.1	78.1-119			15.4	20
Chlorodibromomethane	0.0250	0.0269	0.0239	107	95.8	74.0-121			11.4	20
Chloroethane	0.0250	0.0231	0.0198	92.3	79.2	61.7-135			15.3	20
Chloroform	0.0250	0.0227	0.0189	90.8	75.8	76.0-121		J4	18.0	20
Chloromethane	0.0250	0.0196	0.0171	78.3	68.2	61.5-129			13.7	20
1,2-Dibromoethane	0.0250	0.0251	0.0216	100	86.2	76.6-121			15.1	20
1,1-Dichloroethane	0.0250	0.0234	0.0197	93.5	78.8	70.7-126			17.0	20
1,2-Dichloroethane	0.0250	0.0238	0.0204	95.2	81.7	68.8-124			15.3	20
1,1-Dichloroethene	0.0250	0.0247	0.0209	98.9	83.7	67.8-129			16.7	20
cis-1,2-Dichloroethene	0.0250	0.0231	0.0197	92.5	78.8	76.0-119			16.1	20
trans-1,2-Dichloroethene	0.0250	0.0236	0.0202	94.6	80.7	72.6-121			15.8	20
1,2-Dichloropropane	0.0250	0.0243	0.0210	97.3	83.9	76.5-119			14.8	20

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

(LCS) 04/29/15 16:13 • (LCSD) 04/29/15 16:34

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 %
cis-1,3-Dichloropropene	0.0250	0.0250	0.0216	99.9	86.6	78.2-120			14.3	20
trans-1,3-Dichloropropene	0.0250	0.0239	0.0214	95.6	85.6	74.3-123			11.1	20
Ethylbenzene	0.0250	0.0258	0.0218	103	87.4	78.8-122			16.8	20
2-Hexanone	0.125	0.138	0.116	110	92.8	65.6-144			17.3	20
Isopropylbenzene	0.0250	0.0253	0.0218	101	87.2	78.6-132			14.7	20
p-Isopropyltoluene	0.0250	0.0255	0.0219	102	87.8	74.0-131			15.0	20
2-Butanone (MEK)	0.125	0.136	0.118	109	94.5	55.0-149			13.9	20
Methylene Chloride	0.0250	0.0222	0.0193	88.9	77.1	70.3-120			14.3	20
4-Methyl-2-pentanone (MIBK)	0.125	0.126	0.111	101	88.8	70.5-133			12.8	20
Methyl tert-butyl ether	0.0250	0.0224	0.0199	89.4	79.5	71.2-126			11.8	20
Naphthalene	0.0250	0.0224	0.0196	89.7	78.5	68.4-128			13.3	20
n-Propylbenzene	0.0250	0.0249	0.0214	99.8	85.7	78.2-122			15.2	20
Styrene	0.0250	0.0215	0.0199	86.0	79.5	80.4-126		J4	7.92	20
1,1,1,2-Tetrachloroethane	0.0250	0.0273	0.0238	109	95.2	74.2-124			13.7	20
1,1,2,2-Tetrachloroethane	0.0250	0.0240	0.0212	96.2	84.8	70.7-122			12.6	20
Tetrachloroethene	0.0250	0.0276	0.0239	111	95.7	72.6-126			14.4	20
Toluene	0.0250	0.0249	0.0203	99.5	81.2	79.7-116		J3	20.3	20
1,1,1-Trichloroethane	0.0250	0.0247	0.0213	98.6	85.4	73.2-123			14.4	20
1,1,2-Trichloroethane	0.0250	0.0245	0.0219	98.0	87.4	77.7-118			11.4	20
Trichloroethene	0.0250	0.0244	0.0211	97.4	84.5	77.7-118			14.2	20
1,2,4-Trimethylbenzene	0.0250	0.0246	0.0209	98.5	83.4	75.0-123			16.6	20
1,3,5-Trimethylbenzene	0.0250	0.0245	0.0209	97.8	83.4	75.6-124			15.9	20
Vinyl chloride	0.0250	0.0221	0.0190	88.5	76.1	65.9-128			15.1	20
Xylenes, Total	0.0750	0.0758	0.0656	101	87.4	78.7-121			14.6	20
o-Xylene	0.0250	0.0251	0.0216	101	86.2	77.6-122			15.4	20
m&p-Xylenes	0.0500	0.0507	0.0440	101	88.0	78.8-121			14.2	20
(S) Toluene-d8				98.2	97.9	88.5-111				
(S) Dibromofluoromethane				93.5	93.0	78.3-121				
(S) 4-Bromofluorobenzene				97.8	96.4	71.0-126				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 04/22/15 17:12

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	103			50.0-150

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) 04/22/15 17:29 • (LCSD) 04/22/15 17:47

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 %
TPH (GC/FID) High Fraction	1.50	1.56	1.58	104	105	50.0-150			1.12	20
(S) o-Terphenyl				104	104	50.0-150				



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
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.
(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.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
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



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**.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

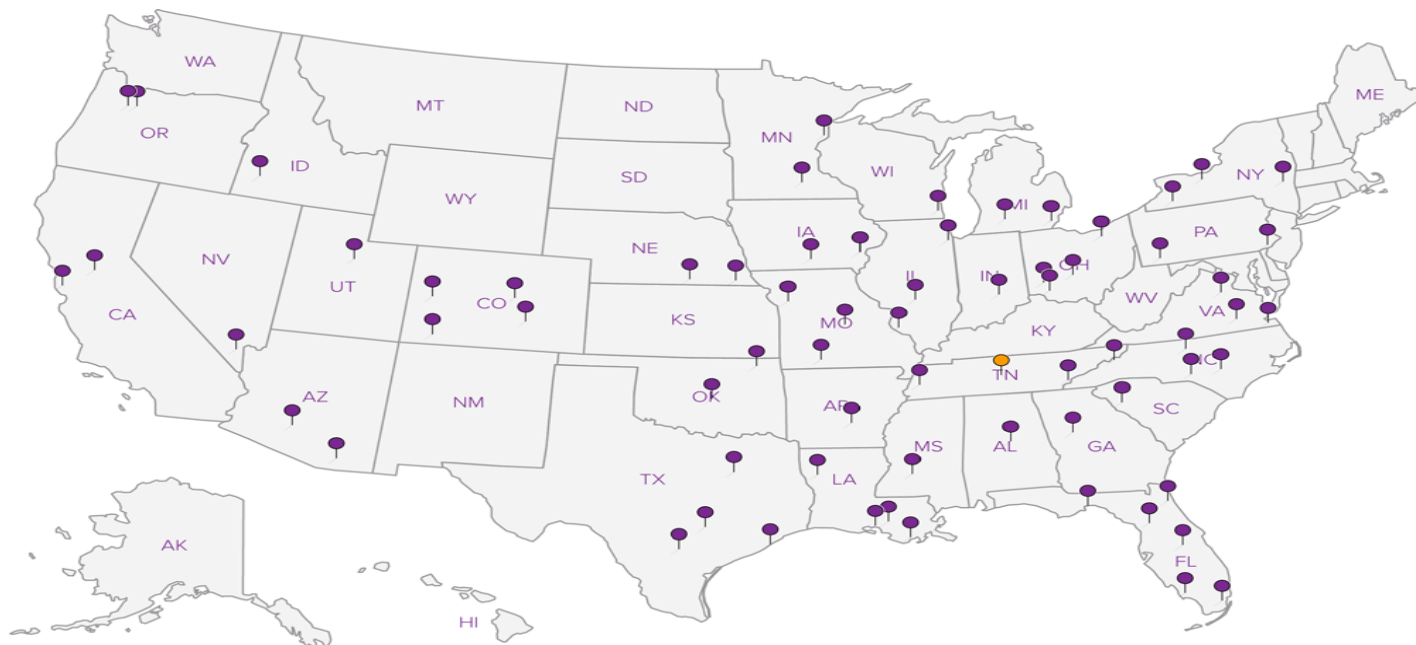
¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
Canada	1461.01	DOD	1461.01
EPA–Crypto	TN00003	USDA	S-67674

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.**



ARCADIS, Inc.
2929 Briarpark Drive,
Suite 300
Houston, TX 77042

Report to: Pam Krueger

Billing Information:

Email To: pam.krueger@arcadis-us.com;
 maisha.turner@arcadis-us.com;
 melissa.osborne@arcadis-us.com

Project Navajo Refining Company

City/State Artesia, NM
 Collected:

Phone: 713-953-4816
 Fax: 713-977-4620

REST TX000836.0007.1500

Lab Project # ARCADHTX-
 NAVAJO FULL

Collected by (print):
 G. Scherbonske + HMI

Site/Facility ID #

P.O. #

Collected by (signature):
 Scott Ude

Rush? (Lab MUST Be
 Notified)

Date Results Needed

Immediately Iced?
 N Y ✓

Next Day100%
 Two Day50%
 Three Day25%

Email? No Yes
 FAX? No Yes

No.
 of
 Cntr

Sample ID	Comp/ Grab	Matrix *	Depth	Date	Time	Cntr	DRC	GRC	Volat	Total	Total	Dis	Dis Sei	Cya	Anic	Cati	NO ₃	TDS	Remarks/Comments	Sample # (lab only)
KWB-10R	G	GW					✓		✓	✓		✓			✓	✓	✓	✓	S4	
MW-131	↓	↓		4/15/15	1455	12	✓	✓	✓	✓		✓			✓	✓	✓	✓		-01
KWB-5	↓	↓		↓	1545	10	✓		✓	✓		✓			✓	✓	✓	✓		-02
MW-111	↓	↓			1640	12	✓	✓	✓	✓		✓			✓	✓	✓	✓		-03
KWB-6	↓	↓		↓	1740	10	✓		✓	✓		✓			✓	✓	✓	✓		-04
MW-112	↓	↓					✓	✓	✓	✓		✓			✓	✓	✓	✓	S4	
MW-132	↓	↓					✓	✓	✓	✓		✓			✓	✓	✓	✓	NO SAMPLE (LWAPL)	
MW-57	↓	↓					✓	✓	✓	✓		✓			✓	✓	✓	✓	S4	
RW-#11-0	↓	↓					✓		✓	✓		✓			✓	✓	✓	✓	NO SAMPLE (DRY)	
KWB-9	↓	↓					✓		✓		✓		✓	✓	✓	✓	✓	✓	NO SAMPLE (OBSTRUCTION)	

(m)

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

pH _____ Temp _____
 Flow _____ Other _____

Hold #

Remarks:

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Samples returned via: ☐ UPS

☒ FedEx ☐ Courier ☐ _____

Condition: (lab use only)

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: 23°C

57

COC Seal Intact: Y N NA

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

4/17/15

0900

pH Checked:

NCE:

Chain of Custody Page 13 of 20



YOUR LAB OF CHOICE

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



L# L760088

Tal J153

Acctnum: ARCADHTX

Template: T101460

Prelogin:

TSR: Pam Langford

PB:

Shipped Via:

Remarks/Comments Sample # (lab only)

Su
 -01
 -02
 -03
 -04
 Su
 NO SAMPLE (LUNAPL)
 Su
 NO SAMPLE (DRY)
 NO SAMPLE (OBSTRUCTION)

TDI

ARCADIS, Inc. 2929 Briarpark Drive, Suite 300 Houston, TX 77042				Billing Information: Report to: Pam Krueger Email To: pam.krueger@arcadis-us.com; maisha.turner@arcadis-us.com; melissa.osborne@arcadis-us.com				Analysis / Container / Preservative												Chain of Custody Page 8 of 26 L.A.B S.C.I.E.N.C.E.S YOUR LAB OF CHOICE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 L# L760088 Table # Acctnum: ARCADHTX Template: T101476 Prelogin: TSR: Pam Langford PB: Shipped Via:											
Project Navajo Refining Company Phone: 713-953-4816 Fax: 713-977-4620				City/State Artesia, NM Collected: Lab Project # ARCADHTX- NAVAJO FULL				DRO 8015 GRO 8015 Volatiles 8260 (Extended List) Total Metals: As, Ba, Cr, Fe, Pb, Mn, Se Total Metals: As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V, Hg Dis Metals: (FFiltered) As, Ba, Cr, Fe, Pb, Mn, Se Dis Metals: (FFiltered) As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V Cyanide Anions: Chloride, Fluoride, Sulfate Cations: Ca, K, Na (from Total Metals container) NO2 / NO3 TDS												L# L760088 Table # Acctnum: ARCADHTX Template: T101476 Prelogin: TSR: Pam Langford PB: Shipped Via:											
Collected by (print): Terrance Barry HMM				Site/Facility ID # P.O. #																											
Collected by (signature): Scott Uck				Rush? (Lab MUST Be Notified) Next Day100% Two Day50% Three Day25%																		Date Results Needed Email? ☐ No ☐ Yes FAX? ☐ No ☐ Yes No. of Cntr									
Immediately Iced? N ☐ Y ☒				Matrix * Depth Date Time No. of Cntr																											
Sample ID				Comp/Grab				Matrix *				Depth				Date				Time				No. of Cntr				Remarks/Comments		Sample # (lab only)	
RW-10				G				GW																				SV			
MW-40																												SV			
MW-41																												SV			
RW-9																												SV			
MW-42																												SV			
MW-29																4/15/15				1835				12				SV		-05	
RW-#16B																												SV			
MW-106				✓				✓																				SV			

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other				pH _____ Temp _____ Flow _____ Other _____				Hold #											
Remarks:																			
Relinquished by: (Signature) Scott Uck				Date: 4/16/15		Time: 0800		Received by: (Signature)				Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____				Condition: (lab use only)			
Relinquished by: (Signature)				Date:		Time:		Received by: (Signature)				Temp: 23°C 57				COC Seal Intact: ☒ Y ☐ N ☐ NA			
Relinquished by: (Signature)				Date:		Time:		Received for lab by: (Signature) [Signature]				Date: 4/17/15				pH Checked: 42 NCF:			

ARCADIS, Inc. 2929 Briarpark Drive, Suite 300 Houston, TX 77042				Billing Information: 				Analysis / Container / Preservative												Chain of Custody Page <u>9</u> of <u>20</u>	
								 ESC L.A.B S.C.I.E.N.C.E.S YOUR LAB OF CHOICE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859													
Report to: Pam Krueger				Email To: pam.krueger@arcadis-us.com; maisha.turner@arcadis-us.com; melissa.nashome@arcadis-us.com				DRO 8015 GRO 8015 Volatiles 8260 (Extended List) Total Metals: As, Ba, Cr, Fe, Pb, Mn, Se Total Metals: As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V, Hg Dis Metals: (FFiltered) As, Ba, Cr, Fe, Pb, Mn, Se Dis Metals: (FFiltered) As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V Cyanide Anions: Chloride, Fluoride, Sulfate Cations: Ca, K, Na (from Total Metals container) NO2 / NO3 TDS												L # <u>L760088</u>	
Project Navajo Refining Company				City/State Artesia, NM Collected:																Table #	
Phone: 713-953-4816 Fax: 713-977-4620		REST TX000836.0007.15006 SU		Lab Project # ARCADHTX- NAVAJO FULL				Acctnum: ARCADHTX Template: T101476 Prelogin:													
Collected by (print): <u>Terrance Barry + HMI</u>		Site/Facility ID #		P.O. #				TSR: Pam Langford PB:													
Collected by (signature): <u>Scott Ude</u>		Rush? (Lab MUST Be Notified) Next Day100% Two Day50% Three Day25%		Date Results Needed				Shipped Via:													
Immediately Iced? N ___ Y ☒				Email? ___ No ___ Yes FAX? ___ No ___ Yes				Remarks/Comments Sample # (lab only)													
Sample ID		Comp/ Grab	Matrix *	Depth	Date	Time	No. of Cntr														
Trip Blank - REST - 04		G	GW		4/15/15	-	1	-06													

(3)

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other ___				pH _____ Temp _____ Flow _____ Other _____		Hold #			
Remarks:									
Relinquished by: (Signature) <u>Scott Ude</u>		Date: <u>4/16/15</u>	Time: <u>0800</u>	Received by: (Signature)		Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____		Condition: (lab use only)	
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Temp: <u>23</u> °C		COC Seal Intact: ☒ Y ☐ N ☐ NA	
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature)		Date: <u>4/17/15</u>		pH Checked: <u>4.2</u>	

ARCADIS US - TX

Sample Delivery Group: L760094
Samples Received: 04/17/2015
Project Number: TX000836.0007.15008
Description: Navajo Refining Company - Artesia, NM
Site: REST
Report To: Pam Krueger
2929 Briarpark Dr., Suite 300
Houston, TX 77042

Entire Report Reviewed By:



Pam Langford

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.



¹Cp: Cover Page	1
²Tc: Table of Contents	2
³Ss: Sample Summary	3
⁴Cn: Case Narrative	8
⁵Sr: Sample Results	9
MW-103 L760094-01	9
MW-104 L760094-02	11
MW-65 L760094-03	13
RW-5R L760094-04	15
MW-102 L760094-05	17
RW-4 L760094-06	19
RW-6 L760094-07	21
MW-99 L760094-08	23
MW-66 L760094-09	25
DUP-REST-02 L760094-10	28
EB-REST-02 L760094-11	30
MW-50 L760094-12	32
MW-91 L760094-13	34
MW-90 L760094-14	36
MW-96 L760094-15	38
MW-67 L760094-16	40
MW-95 L760094-17	43
⁶Qc: Quality Control Summary	45
Gravimetric Analysis by Method 2540 C-2011	45
Wet Chemistry by Method 353.2	47
Wet Chemistry by Method 9012B	49
Wet Chemistry by Method 9056MOD	50
Mercury by Method 7470A	54
Metals (ICPMS) by Method 6020	55
Volatile Organic Compounds (GC) by Method 8015D/GRO	60
Volatile Organic Compounds (GC/MS) by Method 8260B	66
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	78
⁷Gl: Glossary of Terms	79
⁸Al: Accreditations & Locations	80
⁹Sc: Chain of Custody	81



SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-103 L760094-01 GW

			Collected by SU/CH	Collected date/time 04/15/15 09:05	Received date/time 04/17/15 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Gravimetric Analysis by Method 2540 C-2011	WG783399	1	04/21/15 14:20	04/23/15 10:37	JG
Metals (ICPMS) by Method 6020	WG783154	20	04/21/15 14:42	04/24/15 02:56	LAT
Metals (ICPMS) by Method 6020	WG783439	1	04/29/15 09:10	04/30/15 02:31	JD
Metals (ICPMS) by Method 6020	WG783439	1	04/29/15 09:10	04/30/15 12:58	LAT
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783176	1	04/20/15 11:18	04/21/15 20:31	JNS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783018	1	04/25/15 00:14	04/25/15 00:14	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783005	1	04/23/15 18:27	04/23/15 18:27	HJF
Wet Chemistry by Method 353.2	WG785019	1	04/30/15 01:09	04/30/15 01:09	JAL
Wet Chemistry by Method 9056MOD	WG783903	1	04/23/15 21:06	04/23/15 21:06	NJM
Wet Chemistry by Method 9056MOD	WG783903	100	04/23/15 22:43	04/23/15 22:43	NJM

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

MW-104 L760094-02 GW

			Collected by SU/CH	Collected date/time 04/15/15 09:55	Received date/time 04/17/15 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Gravimetric Analysis by Method 2540 C-2011	WG783399	1	04/21/15 14:20	04/23/15 10:35	JG
Metals (ICPMS) by Method 6020	WG783154	1	04/21/15 14:42	04/24/15 03:06	LAT
Metals (ICPMS) by Method 6020	WG783439	1	04/29/15 09:10	04/30/15 02:34	JD
Metals (ICPMS) by Method 6020	WG783439	1	04/29/15 09:10	04/30/15 13:01	LAT
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783176	1	04/20/15 11:18	04/21/15 20:50	JNS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783018	1	04/25/15 00:35	04/25/15 00:35	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785640	1	04/29/15 21:11	04/29/15 21:11	JAH
Wet Chemistry by Method 353.2	WG785019	1	04/30/15 01:10	04/30/15 01:10	JAL
Wet Chemistry by Method 9056MOD	WG783903	1	04/23/15 21:20	04/23/15 21:20	NJM
Wet Chemistry by Method 9056MOD	WG783903	20	04/23/15 22:57	04/23/15 22:57	NJM

⁷ Gl

⁸ Al

⁹ Sc

MW-65 L760094-03 GW

			Collected by SU/CH	Collected date/time 04/15/15 11:40	Received date/time 04/17/15 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Gravimetric Analysis by Method 2540 C-2011	WG783399	1	04/21/15 14:20	04/23/15 10:35	JG
Metals (ICPMS) by Method 6020	WG783154	1	04/21/15 14:42	04/24/15 03:09	LAT
Metals (ICPMS) by Method 6020	WG783439	1	04/29/15 09:10	04/30/15 02:36	JD
Metals (ICPMS) by Method 6020	WG783439	1	04/29/15 09:10	04/30/15 13:03	LAT
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783176	5	04/20/15 11:18	04/23/15 04:51	JNS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG785570	50	04/29/15 22:27	04/29/15 22:27	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783006	10	04/23/15 20:40	04/23/15 20:40	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785314	200	04/29/15 03:26	04/29/15 03:26	JAH
Wet Chemistry by Method 353.2	WG785019	1	04/30/15 01:12	04/30/15 01:12	JAL
Wet Chemistry by Method 9056MOD	WG783903	1	04/23/15 21:34	04/23/15 21:34	NJM
Wet Chemistry by Method 9056MOD	WG783903	20	04/23/15 23:11	04/23/15 23:11	NJM

RW-5R L760094-04 GW

			Collected by SU/CH	Collected date/time 04/15/15 12:55	Received date/time 04/17/15 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Gravimetric Analysis by Method 2540 C-2011	WG783399	1	04/21/15 14:20	04/23/15 10:36	JG
Metals (ICPMS) by Method 6020	WG783154	1	04/21/15 14:42	04/24/15 03:11	LAT
Metals (ICPMS) by Method 6020	WG783439	1	04/29/15 09:10	04/30/15 02:39	JD
Metals (ICPMS) by Method 6020	WG783439	1	04/29/15 09:10	04/30/15 13:06	LAT
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783176	1	04/20/15 11:18	04/21/15 21:28	JNS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783006	10	04/23/15 20:57	04/23/15 20:57	BMB

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



RW-5R L760094-04 GW

			Collected by SU/CH	Collected date/time 04/15/15 12:55	Received date/time 04/17/15 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785314	100	04/29/15 03:46	04/29/15 03:46	JAH
Wet Chemistry by Method 353.2	WG785019	1	04/30/15 01:14	04/30/15 01:14	JAL
Wet Chemistry by Method 9056MOD	WG783903	1	04/23/15 21:48	04/23/15 21:48	NJM
Wet Chemistry by Method 9056MOD	WG783903	20	04/23/15 23:53	04/23/15 23:53	NJM

¹ Cp

² Tc

³ Ss

⁴ Cn

MW-102 L760094-05 GW

			Collected by SU/CH	Collected date/time 04/15/15 13:50	Received date/time 04/17/15 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Gravimetric Analysis by Method 2540 C-2011	WG783399	1	04/21/15 14:20	04/23/15 10:34	JG
Metals (ICPMS) by Method 6020	WG783154	1	04/21/15 14:42	04/24/15 03:19	LAT
Metals (ICPMS) by Method 6020	WG783439	1	04/29/15 09:10	04/30/15 02:42	AB
Metals (ICPMS) by Method 6020	WG783439	1	04/29/15 09:10	04/30/15 06:59	AB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783176	1	04/20/15 11:18	04/21/15 21:46	JNS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG784848	50	04/29/15 18:59	04/29/15 18:59	JAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783006	10	04/23/15 21:15	04/23/15 21:15	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785314	200	04/29/15 04:05	04/29/15 04:05	JAH
Wet Chemistry by Method 353.2	WG785019	1	04/30/15 01:15	04/30/15 01:15	JAL
Wet Chemistry by Method 9056MOD	WG783903	1	04/23/15 22:02	04/23/15 22:02	NJM
Wet Chemistry by Method 9056MOD	WG783903	20	04/24/15 00:07	04/24/15 00:07	NJM

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

RW-4 L760094-06 GW

			Collected by SU/CH	Collected date/time 04/15/15 15:30	Received date/time 04/17/15 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Gravimetric Analysis by Method 2540 C-2011	WG783399	1	04/21/15 14:20	04/23/15 10:30	JG
Metals (ICPMS) by Method 6020	WG783154	1	04/21/15 14:42	04/24/15 03:22	LAT
Metals (ICPMS) by Method 6020	WG783439	1	04/29/15 09:10	04/30/15 02:44	JD
Metals (ICPMS) by Method 6020	WG783439	1	04/29/15 09:10	04/30/15 13:08	LAT
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783176	1	04/20/15 11:18	04/21/15 22:05	JNS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785640	1	04/29/15 21:32	04/29/15 21:32	JAH
Wet Chemistry by Method 353.2	WG785019	1	04/30/15 01:16	04/30/15 01:16	JAL
Wet Chemistry by Method 9056MOD	WG783903	1	04/23/15 22:16	04/23/15 22:16	NJM
Wet Chemistry by Method 9056MOD	WG783903	20	04/24/15 00:21	04/24/15 00:21	NJM

RW-6 L760094-07 GW

			Collected by SU/CH	Collected date/time 04/15/15 14:35	Received date/time 04/17/15 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Gravimetric Analysis by Method 2540 C-2011	WG783402	1	04/21/15 12:51	04/23/15 10:09	MF
Metals (ICPMS) by Method 6020	WG783154	1	04/21/15 14:42	04/24/15 03:24	LAT
Metals (ICPMS) by Method 6020	WG783442	1	04/22/15 07:31	04/28/15 13:36	LAT
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783176	5	04/20/15 11:18	04/23/15 05:10	JNS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783006	10	04/23/15 21:50	04/23/15 21:50	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785314	100	04/29/15 04:25	04/29/15 04:25	JAH
Wet Chemistry by Method 353.2	WG785019	1	04/30/15 01:18	04/30/15 01:18	JAL
Wet Chemistry by Method 9056MOD	WG783903	1	04/23/15 22:29	04/23/15 22:29	NJM
Wet Chemistry by Method 9056MOD	WG783903	20	04/24/15 00:35	04/24/15 00:35	NJM

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-99 L760094-08 GW

			Collected by SU/CH	Collected date/time 04/15/15 16:10	Received date/time 04/17/15 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Gravimetric Analysis by Method 2540 C-2011	WG783402	1	04/21/15 12:51	04/23/15 10:11	MF
Metals (ICPMS) by Method 6020	WG783154	1	04/21/15 14:42	04/24/15 03:27	LAT
Metals (ICPMS) by Method 6020	WG783442	1	04/22/15 07:31	04/28/15 13:46	LAT
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783176	1	04/20/15 11:18	04/21/15 22:43	JNS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783018	1	04/25/15 01:38	04/25/15 01:38	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785640	25	04/29/15 21:54	04/29/15 21:54	JAH
Wet Chemistry by Method 353.2	WG785019	1	04/30/15 01:19	04/30/15 01:19	JAL
Wet Chemistry by Method 9056MOD	WG784232	1	04/23/15 20:17	04/23/15 20:17	NJM

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

MW-66 L760094-09 GW

			Collected by SU/CH	Collected date/time 04/15/15 17:15	Received date/time 04/17/15 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Gravimetric Analysis by Method 2540 C-2011	WG783402	1	04/21/15 12:51	04/23/15 10:11	MF
Mercury by Method 7470A	WG783254	1	04/20/15 11:25	04/20/15 20:24	MPT
Metals (ICPMS) by Method 6020	WG783154	1	04/21/15 14:42	04/24/15 03:29	LAT
Metals (ICPMS) by Method 6020	WG783442	1	04/22/15 07:31	04/28/15 13:49	LAT
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783176	1	04/20/15 11:18	04/21/15 23:02	JNS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783018	1	04/25/15 01:59	04/25/15 01:59	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785640	50	04/29/15 22:15	04/29/15 22:15	JAH
Wet Chemistry by Method 353.2	WG785019	1	04/30/15 01:20	04/30/15 01:20	JAL
Wet Chemistry by Method 9012B	WG785489	1	04/29/15 12:41	04/29/15 14:56	ASK
Wet Chemistry by Method 9056MOD	WG784232	1	04/23/15 20:47	04/23/15 20:47	NJM
Wet Chemistry by Method 9056MOD	WG784232	2	04/24/15 22:52	04/24/15 22:52	NJM

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

DUP-REST-02 L760094-10 GW

			Collected by SU/CH	Collected date/time 04/15/15 11:00	Received date/time 04/17/15 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Gravimetric Analysis by Method 2540 C-2011	WG783402	1	04/21/15 12:51	04/23/15 10:10	MF
Metals (ICPMS) by Method 6020	WG783154	1	04/21/15 14:42	04/24/15 03:32	LAT
Metals (ICPMS) by Method 6020	WG783442	1	04/22/15 07:31	04/28/15 13:51	LAT
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783176	1	04/20/15 11:18	04/21/15 23:20	JNS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783211	1	04/20/15 16:26	04/20/15 16:26	JAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785640	1	04/29/15 22:36	04/29/15 22:36	JAH
Wet Chemistry by Method 353.2	WG785019	1	04/30/15 01:21	04/30/15 01:21	JAL
Wet Chemistry by Method 9056MOD	WG784232	1	04/23/15 21:02	04/23/15 21:02	NJM
Wet Chemistry by Method 9056MOD	WG784232	10	04/24/15 23:07	04/24/15 23:07	NJM

EB-REST-02 L760094-11 GW

			Collected by SU/CH	Collected date/time 04/15/15 10:15	Received date/time 04/17/15 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Gravimetric Analysis by Method 2540 C-2011	WG783402	1	04/21/15 12:51	04/23/15 10:19	MF
Metals (ICPMS) by Method 6020	WG783154	1	04/21/15 14:42	04/24/15 03:35	LAT
Metals (ICPMS) by Method 6020	WG783442	1	04/22/15 07:31	04/28/15 14:00	LAT
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783176	1	04/20/15 11:18	04/21/15 23:39	JNS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783211	1	04/20/15 17:55	04/20/15 17:55	JAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783006	1	04/23/15 23:00	04/23/15 23:00	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785314	1	04/29/15 04:44	04/29/15 04:44	JAH
Wet Chemistry by Method 353.2	WG785021	1	05/04/15 12:21	05/04/15 12:21	JAL
Wet Chemistry by Method 9056MOD	WG784232	1	04/23/15 21:17	04/23/15 21:17	NJM



MW-50 L760094-12 GW

			Collected by SU/CH	Collected date/time 04/15/15 08:45	Received date/time 04/17/15 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Gravimetric Analysis by Method 2540 C-2011	WG783402	1	04/21/15 12:51	04/23/15 10:08	MF
Metals (ICPMS) by Method 6020	WG783154	1	04/21/15 14:42	04/24/15 03:37	LAT
Metals (ICPMS) by Method 6020	WG783442	1	04/22/15 07:31	04/28/15 14:02	LAT
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783176	1	04/20/15 11:18	04/21/15 23:58	JNS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783006	1	04/23/15 23:17	04/23/15 23:17	BMB
Wet Chemistry by Method 353.2	WG785021	10	05/04/15 12:23	05/04/15 12:23	JAL
Wet Chemistry by Method 9056MOD	WG784232	1	04/23/15 21:32	04/23/15 21:32	NJM
Wet Chemistry by Method 9056MOD	WG784232	50	04/24/15 23:22	04/24/15 23:22	NJM

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

MW-91 L760094-13 GW

			Collected by SU/CH	Collected date/time 04/15/15 09:40	Received date/time 04/17/15 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Gravimetric Analysis by Method 2540 C-2011	WG783402	1	04/21/15 12:51	04/23/15 10:13	MF
Metals (ICPMS) by Method 6020	WG783154	1	04/21/15 14:42	04/24/15 03:40	LAT
Metals (ICPMS) by Method 6020	WG783442	1	04/22/15 07:31	04/28/15 14:05	LAT
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783176	20	04/20/15 11:18	04/23/15 05:47	JNS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783211	10	04/20/15 18:17	04/20/15 18:17	JAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783006	10	04/23/15 23:35	04/23/15 23:35	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785314	100	04/29/15 05:04	04/29/15 05:04	JAH
Wet Chemistry by Method 353.2	WG785021	10	05/04/15 12:24	05/04/15 12:24	JAL
Wet Chemistry by Method 9056MOD	WG784232	1	04/23/15 21:47	04/23/15 21:47	NJM
Wet Chemistry by Method 9056MOD	WG784232	10	04/24/15 23:37	04/24/15 23:37	NJM

7 Gl

8 Al

9 Sc

MW-90 L760094-14 GW

			Collected by SU/CH	Collected date/time 04/15/15 10:40	Received date/time 04/17/15 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Gravimetric Analysis by Method 2540 C-2011	WG783402	1	04/21/15 12:51	04/23/15 10:10	MF
Metals (ICPMS) by Method 6020	WG783154	1	04/21/15 14:42	04/24/15 03:42	LAT
Metals (ICPMS) by Method 6020	WG783442	1	04/22/15 07:31	04/28/15 14:08	LAT
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783176	1	04/20/15 11:18	04/22/15 01:50	JNS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783211	1	04/20/15 18:41	04/20/15 18:41	JAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783006	1	04/23/15 23:52	04/23/15 23:52	BMB
Wet Chemistry by Method 353.2	WG785021	10	05/04/15 12:25	05/04/15 12:25	JAL
Wet Chemistry by Method 9056MOD	WG784232	1	04/23/15 22:02	04/23/15 22:02	NJM
Wet Chemistry by Method 9056MOD	WG784232	50	04/24/15 23:52	04/24/15 23:52	NJM

MW-96 L760094-15 GW

			Collected by SU/CH	Collected date/time 04/15/15 11:35	Received date/time 04/17/15 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Gravimetric Analysis by Method 2540 C-2011	WG783402	1	04/21/15 12:51	04/23/15 10:09	MF
Metals (ICPMS) by Method 6020	WG783154	1	04/21/15 14:42	04/24/15 03:50	LAT
Metals (ICPMS) by Method 6020	WG783442	1	04/22/15 07:31	04/28/15 14:10	LAT
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783176	5	04/20/15 11:18	04/23/15 05:28	JNS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG784069	25	04/23/15 14:43	04/23/15 14:43	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783006	1	04/24/15 00:10	04/24/15 00:10	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785314	500	04/29/15 05:23	04/29/15 05:23	JAH
Wet Chemistry by Method 353.2	WG785021	10	05/04/15 12:27	05/04/15 12:27	JAL
Wet Chemistry by Method 9056MOD	WG784232	1	04/23/15 22:17	04/23/15 22:17	NJM
Wet Chemistry by Method 9056MOD	WG784232	50	04/25/15 00:06	04/25/15 00:06	NJM

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-67 L760094-16 GW

Collected by
SU/CH

Collected date/time
04/15/15 12:30

Received date/time
04/17/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Gravimetric Analysis by Method 2540 C-2011	WG783402	1	04/21/15 12:51	04/23/15 10:11	MF
Mercury by Method 7470A	WG783254	1	04/20/15 11:25	04/20/15 20:27	MPT
Metals (ICPMS) by Method 6020	WG783154	1	04/21/15 14:42	04/24/15 03:53	LAT
Metals (ICPMS) by Method 6020	WG783442	1	04/22/15 07:31	04/28/15 14:13	LAT
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783176	1	04/20/15 11:18	04/22/15 02:28	JNS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783800	1	04/22/15 10:57	04/22/15 10:57	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783006	1	04/24/15 00:27	04/24/15 00:27	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785314	20	04/29/15 05:42	04/29/15 05:42	JAH
Wet Chemistry by Method 353.2	WG785021	10	05/04/15 12:28	05/04/15 12:28	JAL
Wet Chemistry by Method 9012B	WG785489	1	04/29/15 12:41	04/29/15 15:08	ASK
Wet Chemistry by Method 9056MOD	WG784232	1	04/23/15 22:32	04/23/15 22:32	NJM
Wet Chemistry by Method 9056MOD	WG784232	10	04/25/15 00:21	04/25/15 00:21	NJM

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

MW-95 L760094-17 GW

Collected by
SU/CH

Collected date/time
04/15/15 13:30

Received date/time
04/17/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Gravimetric Analysis by Method 2540 C-2011	WG783402	1	04/21/15 12:51	04/23/15 10:13	MF
Metals (ICPMS) by Method 6020	WG783154	1	04/21/15 14:42	04/24/15 03:55	LAT
Metals (ICPMS) by Method 6020	WG783442	1	04/22/15 07:31	04/28/15 14:15	LAT
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783176	1	04/20/15 11:18	04/22/15 02:47	JNS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG784069	1	04/23/15 15:05	04/23/15 15:05	JAH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783006	1	04/24/15 00:45	04/24/15 00:45	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785314	1	04/29/15 02:28	04/29/15 02:28	JAH
Wet Chemistry by Method 353.2	WG785021	10	05/04/15 12:29	05/04/15 12:29	JAL
Wet Chemistry by Method 9056MOD	WG784232	1	04/23/15 22:47	04/23/15 22:47	NJM
Wet Chemistry by Method 9056MOD	WG784232	10	04/25/15 00:36	04/25/15 00:36	NJM



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.

Pam Langford
Technical Service Representative

Sample Handling and Receiving

The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

ESC Sample ID	Project Sample ID	Method
L760094-01	MW-103	3511/8015
L760094-03	MW-65	3511/8015
L760094-05	MW-102	3511/8015
L760094-13	MW-91	3511/8015
L760094-15	MW-96	3511/8015

Sample quantity was not sufficient to complete analysis per recommended method guidelines for the following samples.

ESC Sample ID	Project Sample ID	Method
L760094-11	EB-REST-02	2540 C-2011

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	12500000		2800	10000	1	04/23/2015 10:37	WG783399

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		20.0	100	1	04/30/2015 01:09	WG785019

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	7890000		5200	100000	100	04/23/2015 22:43	WG783903
Fluoride	3440		9.90	100	1	04/23/2015 21:06	WG783903
Sulfate	19600		77.0	5000	1	04/23/2015 21:06	WG783903

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	6.17	F J O1	5.00	40.0	20	04/24/2015 02:56	WG783154
Arsenic,Dissolved	4.91		0.250	2.00	1	04/30/2015 02:31	WG783439
Barium	9360	4	7.20	100	20	04/24/2015 02:56	WG783154
Barium,Dissolved	8030		0.360	5.00	1	04/30/2015 02:31	WG783439
Calcium	192000	4	920	20000	20	04/24/2015 02:56	WG783154
Chromium	U		11.0	40.0	20	04/24/2015 02:56	WG783154
Chromium,Dissolved	U		0.540	2.00	1	04/30/2015 02:31	WG783439
Iron	U		300	2000	20	04/24/2015 02:56	WG783154
Iron,Dissolved	U		15.0	100	1	04/30/2015 02:31	WG783439
Lead	U		4.80	40.0	20	04/24/2015 02:56	WG783154
Lead,Dissolved	0.809	J	0.240	2.00	1	04/30/2015 12:58	WG783439
Manganese	12.5	J	5.00	100	20	04/24/2015 02:56	WG783154
Manganese,Dissolved	8.48		0.250	5.00	1	04/30/2015 02:31	WG783439
Potassium	2460	J	740	20000	20	04/24/2015 02:56	WG783154
Selenium	60.7	* F	7.60	40.0	20	04/24/2015 02:56	WG783154
Selenium,Dissolved	0.642	J	0.380	2.00	1	04/30/2015 02:31	WG783439
Sodium	6710000	4	2200	20000	20	04/24/2015 02:56	WG783154

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	4150		31.0	100	1	04/25/2015 00:14	WG783018
(S) a,a,q-Trifluorotoluene(FID) 87.7				62.0-128		04/25/2015 00:14	WG783018

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/23/2015 18:27	WG783005
Benzene	U		0.330	1.00	1	04/23/2015 18:27	WG783005
Bromodichloromethane	U		0.380	1.00	1	04/23/2015 18:27	WG783005
Bromoform	U		0.470	1.00	1	04/23/2015 18:27	WG783005
Bromomethane	U		0.870	5.00	1	04/23/2015 18:27	WG783005
n-Butylbenzene	2.91		0.360	1.00	1	04/23/2015 18:27	WG783005
sec-Butylbenzene	3.96		0.360	1.00	1	04/23/2015 18:27	WG783005
Carbon disulfide	0.597	J	0.280	1.00	1	04/23/2015 18:27	WG783005
Carbon tetrachloride	U		0.380	1.00	1	04/23/2015 18:27	WG783005



Collected date/time: 04/15/15 09:05

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	1 Cp
Chlorobenzene	U		0.350	1.00	1	04/23/2015 18:27	WG783005	2 Tc
Chlorodibromomethane	U		0.330	1.00	1	04/23/2015 18:27	WG783005	3 Ss
Chloroethane	U		0.450	5.00	1	04/23/2015 18:27	WG783005	4 Cn
Chloroform	U		0.320	5.00	1	04/23/2015 18:27	WG783005	5 Sr
Chloromethane	U		0.280	2.50	1	04/23/2015 18:27	WG783005	6 Qc
1,2-Dibromoethane	U		0.380	1.00	1	04/23/2015 18:27	WG783005	7 Gl
1,1-Dichloroethane	U		0.260	1.00	1	04/23/2015 18:27	WG783005	8 Al
1,2-Dichloroethane	U		0.360	1.00	1	04/23/2015 18:27	WG783005	9 Sc
1,1-Dichloroethene	U		0.400	1.00	1	04/23/2015 18:27	WG783005	
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/23/2015 18:27	WG783005	
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/23/2015 18:27	WG783005	
1,2-Dichloropropane	U		0.310	1.00	1	04/23/2015 18:27	WG783005	
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/23/2015 18:27	WG783005	
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/23/2015 18:27	WG783005	
Ethylbenzene	87.9		0.380	1.00	1	04/23/2015 18:27	WG783005	
Isopropylbenzene	24.7		0.330	1.00	1	04/23/2015 18:27	WG783005	
p-Isopropyltoluene	2.07		0.350	1.00	1	04/23/2015 18:27	WG783005	
2-Butanone (MEK)	U		3.90	10.0	1	04/23/2015 18:27	WG783005	
2-Hexanone	U		3.80	10.0	1	04/23/2015 18:27	WG783005	
Methylene Chloride	U		1.00	5.00	1	04/23/2015 18:27	WG783005	
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/23/2015 18:27	WG783005	
Methyl tert-butyl ether	0.441	J	0.370	1.00	1	04/23/2015 18:27	WG783005	
Naphthalene	22.0		1.00	5.00	1	04/23/2015 18:27	WG783005	
n-Propylbenzene	35.7		0.350	1.00	1	04/23/2015 18:27	WG783005	
Styrene	U		0.310	1.00	1	04/23/2015 18:27	WG783005	
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/23/2015 18:27	WG783005	
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/23/2015 18:27	WG783005	
Tetrachloroethene	U		0.370	1.00	1	04/23/2015 18:27	WG783005	
Toluene	15.4		0.780	5.00	1	04/23/2015 18:27	WG783005	
1,1,1-Trichloroethane	U		0.319	1.00	1	04/23/2015 18:27	WG783005	
1,1,2-Trichloroethane	U		0.380	1.00	1	04/23/2015 18:27	WG783005	
Trichloroethene	U		0.400	1.00	1	04/23/2015 18:27	WG783005	
1,2,4-Trimethylbenzene	10.2		0.370	1.00	1	04/23/2015 18:27	WG783005	
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/23/2015 18:27	WG783005	
Vinyl chloride	U		0.260	1.00	1	04/23/2015 18:27	WG783005	
o-Xylene	5.49		0.340	1.00	1	04/23/2015 18:27	WG783005	
m&p-Xylene	8.19		0.720	1.00	1	04/23/2015 18:27	WG783005	
Xylenes, Total	13.7		1.10	3.00	1	04/23/2015 18:27	WG783005	
(S) Toluene-d8	103			88.5-111		04/23/2015 18:27	WG783005	
(S) Dibromofluoromethane	69.4	X		78.3-121		04/23/2015 18:27	WG783005	
(S) 4-Bromofluorobenzene	104			71.0-126		04/23/2015 18:27	WG783005	

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	8660		25.0	100	1	04/21/2015 20:31	WG783176
(S) o-Terphenyl	93.6			50.0-150		04/21/2015 20:31	WG783176



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	1070000		2800	10000	1	04/23/2015 10:35	WG783399

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		20.0	100	1	04/30/2015 01:10	WG785019

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	31400		52.0	1000	1	04/23/2015 21:20	WG783903
Fluoride	1670		9.90	100	1	04/23/2015 21:20	WG783903
Sulfate	856000		1500	100000	20	04/23/2015 22:57	WG783903

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	0.408	J	0.250	2.00	1	04/24/2015 03:06	WG783154
Arsenic,Dissolved	0.481	J	0.250	2.00	1	04/30/2015 02:34	WG783439
Barium	19.5		0.360	5.00	1	04/24/2015 03:06	WG783154
Barium,Dissolved	21.2		0.360	5.00	1	04/30/2015 02:34	WG783439
Calcium	208000		46.0	1000	1	04/24/2015 03:06	WG783154
Chromium	U		0.540	2.00	1	04/24/2015 03:06	WG783154
Chromium,Dissolved	U		0.540	2.00	1	04/30/2015 02:34	WG783439
Iron	94.5	J	15.0	100	1	04/24/2015 03:06	WG783154
Iron,Dissolved	27.9	J	15.0	100	1	04/30/2015 02:34	WG783439
Lead	0.364	J	0.240	2.00	1	04/24/2015 03:06	WG783154
Lead,Dissolved	U		0.240	2.00	1	04/30/2015 13:01	WG783439
Manganese	22.8		0.250	5.00	1	04/24/2015 03:06	WG783154
Manganese,Dissolved	22.2		0.250	5.00	1	04/30/2015 02:34	WG783439
Potassium	4730		37.0	1000	1	04/24/2015 03:06	WG783154
Selenium	U		0.380	2.00	1	04/24/2015 03:06	WG783154
Selenium,Dissolved	0.603	J	0.380	2.00	1	04/30/2015 02:34	WG783439
Sodium	42700		110	1000	1	04/24/2015 03:06	WG783154

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	783		31.0	100	1	04/25/2015 00:35	WG783018
(S) a,a,a-Trifluorotoluene(FID) 92.3				62.0-128		04/25/2015 00:35	WG783018

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/29/2015 21:11	WG785640
Benzene	24.3		0.330	1.00	1	04/29/2015 21:11	WG785640
Bromodichloromethane	U		0.380	1.00	1	04/29/2015 21:11	WG785640
Bromoform	U		0.470	1.00	1	04/29/2015 21:11	WG785640
Bromomethane	U		0.870	5.00	1	04/29/2015 21:11	WG785640
n-Butylbenzene	U		0.360	1.00	1	04/29/2015 21:11	WG785640
sec-Butylbenzene	32.0		0.360	1.00	1	04/29/2015 21:11	WG785640
Carbon disulfide	0.469	J	0.280	1.00	1	04/29/2015 21:11	WG785640
Carbon tetrachloride	U		0.380	1.00	1	04/29/2015 21:11	WG785640



Collected date/time: 04/15/15 09:55

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.350	1.00	1	04/29/2015 21:11	WG785640
Chlorodibromomethane	U		0.330	1.00	1	04/29/2015 21:11	WG785640
Chloroethane	U		0.450	5.00	1	04/29/2015 21:11	WG785640
Chloroform	5.16	*	0.320	5.00	1	04/29/2015 21:11	WG785640
Chloromethane	U		0.280	2.50	1	04/29/2015 21:11	WG785640
1,2-Dibromoethane	U		0.380	1.00	1	04/29/2015 21:11	WG785640
1,1-Dichloroethane	U		0.260	1.00	1	04/29/2015 21:11	WG785640
1,2-Dichloroethane	U		0.360	1.00	1	04/29/2015 21:11	WG785640
1,1-Dichloroethene	U		0.400	1.00	1	04/29/2015 21:11	WG785640
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/29/2015 21:11	WG785640
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/29/2015 21:11	WG785640
1,2-Dichloropropane	U		0.310	1.00	1	04/29/2015 21:11	WG785640
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/29/2015 21:11	WG785640
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/29/2015 21:11	WG785640
Ethylbenzene	U		0.380	1.00	1	04/29/2015 21:11	WG785640
Isopropylbenzene	43.2		0.330	1.00	1	04/29/2015 21:11	WG785640
p-Isopropyltoluene	U		0.350	1.00	1	04/29/2015 21:11	WG785640
2-Butanone (MEK)	U		3.90	10.0	1	04/29/2015 21:11	WG785640
2-Hexanone	U		3.80	10.0	1	04/29/2015 21:11	WG785640
Methylene Chloride	U		1.00	5.00	1	04/29/2015 21:11	WG785640
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/29/2015 21:11	WG785640
Methyl tert-butyl ether	1.38		0.370	1.00	1	04/29/2015 21:11	WG785640
Naphthalene	U		1.00	5.00	1	04/29/2015 21:11	WG785640
n-Propylbenzene	3.24		0.350	1.00	1	04/29/2015 21:11	WG785640
Styrene	U	*	0.310	1.00	1	04/29/2015 21:11	WG785640
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/29/2015 21:11	WG785640
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/29/2015 21:11	WG785640
Tetrachloroethene	U		0.370	1.00	1	04/29/2015 21:11	WG785640
Toluene	U	*	0.780	5.00	1	04/29/2015 21:11	WG785640
1,1,1-Trichloroethane	U		0.319	1.00	1	04/29/2015 21:11	WG785640
1,1,2-Trichloroethane	U		0.380	1.00	1	04/29/2015 21:11	WG785640
Trichloroethene	U		0.400	1.00	1	04/29/2015 21:11	WG785640
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/29/2015 21:11	WG785640
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/29/2015 21:11	WG785640
Vinyl chloride	U		0.260	1.00	1	04/29/2015 21:11	WG785640
o-Xylene	U		0.340	1.00	1	04/29/2015 21:11	WG785640
m&p-Xylene	U		0.720	1.00	1	04/29/2015 21:11	WG785640
Xylenes, Total	U		1.10	3.00	1	04/29/2015 21:11	WG785640
(S) Toluene-d8	96.7			88.5-111		04/29/2015 21:11	WG785640
(S) Dibromofluoromethane	92.6			78.3-121		04/29/2015 21:11	WG785640
(S) 4-Bromofluorobenzene	93.6			71.0-126		04/29/2015 21:11	WG785640

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	813		25.0	100	1	04/21/2015 20:50	WG783176
(S) o-Terphenyl	112			50.0-150		04/21/2015 20:50	WG783176



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	1410000		2800	10000	1	04/23/2015 10:35	WG783399

1 Cp

2 Tc

3 Ss

4 Cn

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	61.3	J	20.0	100	1	04/30/2015 01:12	WG785019

5 Sr

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	382000		1000	20000	20	04/23/2015 23:11	WG783903
Fluoride	1210		9.90	100	1	04/23/2015 21:34	WG783903
Sulfate	U		77.0	5000	1	04/23/2015 21:34	WG783903

6 Qc

7 Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	18.6		0.250	2.00	1	04/24/2015 03:09	WG783154
Arsenic,Dissolved	20.2		0.250	2.00	1	04/30/2015 02:36	WG783439
Barium	3080		0.360	5.00	1	04/24/2015 03:09	WG783154
Barium,Dissolved	3380		0.360	5.00	1	04/30/2015 02:36	WG783439
Calcium	147000		46.0	1000	1	04/24/2015 03:09	WG783154
Chromium	U		0.540	2.00	1	04/24/2015 03:09	WG783154
Chromium,Dissolved	U		0.540	2.00	1	04/30/2015 02:36	WG783439
Iron	2880		15.0	100	1	04/24/2015 03:09	WG783154
Iron,Dissolved	2640		15.0	100	1	04/30/2015 02:36	WG783439
Lead	1.53	J	0.240	2.00	1	04/24/2015 03:09	WG783154
Lead,Dissolved	0.681	J	0.240	2.00	1	04/30/2015 13:03	WG783439
Manganese	790		0.250	5.00	1	04/24/2015 03:09	WG783154
Manganese,Dissolved	814		0.250	5.00	1	04/30/2015 02:36	WG783439
Potassium	783	J	37.0	1000	1	04/24/2015 03:09	WG783154
Selenium	U		0.380	2.00	1	04/24/2015 03:09	WG783154
Selenium,Dissolved	0.425	J	0.380	2.00	1	04/30/2015 02:36	WG783439
Sodium	257000		110	1000	1	04/24/2015 03:09	WG783154

8 Al

9 Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	33100		1600	5000	50	04/29/2015 22:27	WG785570
(S) a,a,a-Trifluorotoluene(FID) 99.6				62.0-128		04/29/2015 22:27	WG785570

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	*	100	500	10	04/23/2015 20:40	WG783006
Benzene	9990	-	66.0	200	200	04/29/2015 03:26	WG785314
Bromodichloromethane	U		3.80	10.0	10	04/23/2015 20:40	WG783006
Bromoform	U		4.70	10.0	10	04/23/2015 20:40	WG783006
Bromomethane	U		8.70	50.0	10	04/23/2015 20:40	WG783006
n-Butylbenzene	10.1		3.60	10.0	10	04/23/2015 20:40	WG783006
sec-Butylbenzene	10.5		3.60	10.0	10	04/23/2015 20:40	WG783006
Carbon disulfide	U		2.80	10.0	10	04/23/2015 20:40	WG783006
Carbon tetrachloride	U		3.80	10.0	10	04/23/2015 20:40	WG783006



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Chlorobenzene	U		3.50	10.0	10	04/23/2015 20:40	WG783006	¹ Cp
Chlorodibromomethane	U		3.30	10.0	10	04/23/2015 20:40	WG783006	² Tc
Chloroethane	U		4.50	50.0	10	04/23/2015 20:40	WG783006	
Chloroform	U		3.20	50.0	10	04/23/2015 20:40	WG783006	³ Ss
Chloromethane	U		2.80	25.0	10	04/23/2015 20:40	WG783006	
1,2-Dibromoethane	U		3.80	10.0	10	04/23/2015 20:40	WG783006	⁴ Cn
1,1-Dichloroethane	U		2.60	10.0	10	04/23/2015 20:40	WG783006	
1,2-Dichloroethane	U		3.60	10.0	10	04/23/2015 20:40	WG783006	
1,1-Dichloroethene	U		4.00	10.0	10	04/23/2015 20:40	WG783006	⁵ Sr
cis-1,2-Dichloroethene	U		2.60	10.0	10	04/23/2015 20:40	WG783006	
trans-1,2-Dichloroethene	U		4.00	10.0	10	04/23/2015 20:40	WG783006	⁶ Qc
1,2-Dichloropropane	U		3.10	10.0	10	04/23/2015 20:40	WG783006	
cis-1,3-Dichloropropene	U		4.20	10.0	10	04/23/2015 20:40	WG783006	⁷ Gl
trans-1,3-Dichloropropene	U		4.20	10.0	10	04/23/2015 20:40	WG783006	
Ethylbenzene	1030		3.80	10.0	10	04/23/2015 20:40	WG783006	⁸ Al
Isopropylbenzene	57.8		3.30	10.0	10	04/23/2015 20:40	WG783006	
p-Isopropyltoluene	U		3.50	10.0	10	04/23/2015 20:40	WG783006	⁹ Sc
2-Butanone (MEK)	U		39.0	100	10	04/23/2015 20:40	WG783006	
2-Hexanone	U		38.0	100	10	04/23/2015 20:40	WG783006	
Methylene Chloride	U		10.0	50.0	10	04/23/2015 20:40	WG783006	
4-Methyl-2-pentanone (MIBK)	U	*	21.0	100	10	04/23/2015 20:40	WG783006	
Methyl tert-butyl ether	3220		73.0	200	200	04/29/2015 03:26	WG785314	
Naphthalene	239		10.0	50.0	10	04/23/2015 20:40	WG783006	
n-Propylbenzene	85.0		3.50	10.0	10	04/23/2015 20:40	WG783006	
Styrene	U		3.10	10.0	10	04/23/2015 20:40	WG783006	
1,1,1,2-Tetrachloroethane	U		3.80	10.0	10	04/23/2015 20:40	WG783006	
1,1,2,2-Tetrachloroethane	U		1.30	10.0	10	04/23/2015 20:40	WG783006	
Tetrachloroethene	U		3.70	10.0	10	04/23/2015 20:40	WG783006	
Toluene	29.4	U	7.80	50.0	10	04/23/2015 20:40	WG783006	
1,1,1-Trichloroethane	U		3.19	10.0	10	04/23/2015 20:40	WG783006	
1,1,2-Trichloroethane	U		3.80	10.0	10	04/23/2015 20:40	WG783006	
Trichloroethene	U		4.00	10.0	10	04/23/2015 20:40	WG783006	
1,2,4-Trimethylbenzene	51.4		3.70	10.0	10	04/23/2015 20:40	WG783006	
1,3,5-Trimethylbenzene	22.8		3.90	10.0	10	04/23/2015 20:40	WG783006	
Vinyl chloride	U		2.60	10.0	10	04/23/2015 20:40	WG783006	
o-Xylene	22.8		3.40	10.0	10	04/23/2015 20:40	WG783006	
m&p-Xylene	135		7.20	10.0	10	04/23/2015 20:40	WG783006	
Xylenes, Total	158		11.0	30.0	10	04/23/2015 20:40	WG783006	
(S) Toluene-d8	96.0			88.5-111		04/23/2015 20:40	WG783006	
(S) Dibromofluoromethane	77.6	X		78.3-121		04/23/2015 20:40	WG783006	
(S) 4-Bromofluorobenzene	96.0			71.0-126		04/23/2015 20:40	WG783006	

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	12400		120	500	5	04/23/2015 04:51	WG783176
(S) o-Terphenyl	105			50.0-150		04/23/2015 04:51	WG783176



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	565000		2800	10000	1	04/23/2015 10:36	WG783399

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		20.0	100	1	04/30/2015 01:14	WG785019

⁶ Qc⁷ Gl⁸ Al⁹ Sc

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	260000		1000	20000	20	04/23/2015 23:53	WG783903
Fluoride	965		9.90	100	1	04/23/2015 21:48	WG783903
Sulfate	376	J	77.0	5000	1	04/23/2015 21:48	WG783903

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	1.36	J	0.250	2.00	1	04/24/2015 03:11	WG783154
Arsenic,Dissolved	1.36	J	0.250	2.00	1	04/30/2015 02:39	WG783439
Barium	25.9		0.360	5.00	1	04/24/2015 03:11	WG783154
Barium,Dissolved	27.5		0.360	5.00	1	04/30/2015 02:39	WG783439
Calcium	4820		46.0	1000	1	04/24/2015 03:11	WG783154
Chromium	U		0.540	2.00	1	04/24/2015 03:11	WG783154
Chromium,Dissolved	U		0.540	2.00	1	04/30/2015 02:39	WG783439
Iron	95.2	J	15.0	100	1	04/24/2015 03:11	WG783154
Iron,Dissolved	24.7	J	15.0	100	1	04/30/2015 02:39	WG783439
Lead	0.336	J	0.240	2.00	1	04/24/2015 03:11	WG783154
Lead,Dissolved	U		0.240	2.00	1	04/30/2015 13:06	WG783439
Manganese	17.7		0.250	5.00	1	04/24/2015 03:11	WG783154
Manganese,Dissolved	16.7		0.250	5.00	1	04/30/2015 02:39	WG783439
Potassium	461	J	37.0	1000	1	04/24/2015 03:11	WG783154
Selenium	U		0.380	2.00	1	04/24/2015 03:11	WG783154
Selenium,Dissolved	U		0.380	2.00	1	04/30/2015 02:39	WG783439
Sodium	189000		110	1000	1	04/24/2015 03:11	WG783154

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	*	100	500	10	04/23/2015 20:57	WG783006
Benzene	2920	-	33.0	100	100	04/29/2015 03:46	WG785314
Bromodichloromethane	U		3.80	10.0	10	04/23/2015 20:57	WG783006
Bromoform	U		4.70	10.0	10	04/23/2015 20:57	WG783006
Bromomethane	U		8.70	50.0	10	04/23/2015 20:57	WG783006
n-Butylbenzene	6.06	J	3.60	10.0	10	04/23/2015 20:57	WG783006
sec-Butylbenzene	6.91	J	3.60	10.0	10	04/23/2015 20:57	WG783006
Carbon disulfide	U		2.80	10.0	10	04/23/2015 20:57	WG783006
Carbon tetrachloride	U		3.80	10.0	10	04/23/2015 20:57	WG783006
Chlorobenzene	U		3.50	10.0	10	04/23/2015 20:57	WG783006
Chlorodibromomethane	U		3.30	10.0	10	04/23/2015 20:57	WG783006
Chloroethane	U		4.50	50.0	10	04/23/2015 20:57	WG783006
Chloroform	U		3.20	50.0	10	04/23/2015 20:57	WG783006
Chloromethane	U		2.80	25.0	10	04/23/2015 20:57	WG783006
1,2-Dibromoethane	U		3.80	10.0	10	04/23/2015 20:57	WG783006
1,1-Dichloroethane	U		2.60	10.0	10	04/23/2015 20:57	WG783006



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		3.60	10.0	10	04/23/2015 20:57	WG783006
1,1-Dichloroethene	U		4.00	10.0	10	04/23/2015 20:57	WG783006
cis-1,2-Dichloroethene	U		2.60	10.0	10	04/23/2015 20:57	WG783006
trans-1,2-Dichloroethene	U		4.00	10.0	10	04/23/2015 20:57	WG783006
1,2-Dichloropropane	U		3.10	10.0	10	04/23/2015 20:57	WG783006
cis-1,3-Dichloropropene	U		4.20	10.0	10	04/23/2015 20:57	WG783006
trans-1,3-Dichloropropene	U		4.20	10.0	10	04/23/2015 20:57	WG783006
Ethylbenzene	1030		3.80	10.0	10	04/23/2015 20:57	WG783006
Isopropylbenzene	39.8		3.30	10.0	10	04/23/2015 20:57	WG783006
p-Isopropyltoluene	U		3.50	10.0	10	04/23/2015 20:57	WG783006
2-Butanone (MEK)	U		39.0	100	10	04/23/2015 20:57	WG783006
2-Hexanone	U		38.0	100	10	04/23/2015 20:57	WG783006
Methylene Chloride	U		10.0	50.0	10	04/23/2015 20:57	WG783006
4-Methyl-2-pentanone (MIBK)	U	*	21.0	100	10	04/23/2015 20:57	WG783006
Methyl tert-butyl ether	2150		37.0	100	100	04/29/2015 03:46	WG785314
Naphthalene	174		10.0	50.0	10	04/23/2015 20:57	WG783006
n-Propylbenzene	59.8		3.50	10.0	10	04/23/2015 20:57	WG783006
Styrene	U		3.10	10.0	10	04/23/2015 20:57	WG783006
1,1,1,2-Tetrachloroethane	U		3.80	10.0	10	04/23/2015 20:57	WG783006
1,1,2,2-Tetrachloroethane	U		1.30	10.0	10	04/23/2015 20:57	WG783006
Tetrachloroethene	U		3.70	10.0	10	04/23/2015 20:57	WG783006
Toluene	2260		78.0	500	100	04/29/2015 03:46	WG785314
1,1,1-Trichloroethane	U		3.19	10.0	10	04/23/2015 20:57	WG783006
1,1,2-Trichloroethane	U		3.80	10.0	10	04/23/2015 20:57	WG783006
Trichloroethene	U		4.00	10.0	10	04/23/2015 20:57	WG783006
1,2,4-Trimethylbenzene	298		3.70	10.0	10	04/23/2015 20:57	WG783006
1,3,5-Trimethylbenzene	55.8		3.90	10.0	10	04/23/2015 20:57	WG783006
Vinyl chloride	U		2.60	10.0	10	04/23/2015 20:57	WG783006
o-Xylene	522		3.40	10.0	10	04/23/2015 20:57	WG783006
m&p-Xylene	1390		7.20	10.0	10	04/23/2015 20:57	WG783006
Xylenes, Total	1910		11.0	30.0	10	04/23/2015 20:57	WG783006
(S) Toluene-d8	104			88.5-111		04/23/2015 20:57	WG783006
(S) Dibromofluoromethane	86.4			78.3-121		04/23/2015 20:57	WG783006
(S) 4-Bromofluorobenzene	97.3			71.0-126		04/23/2015 20:57	WG783006

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	6420		25.0	100	1	04/21/2015 21:28	WG783176
(S) o-Terphenyl	104			50.0-150		04/21/2015 21:28	WG783176



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	1470000		2800	10000	1	04/23/2015 10:34	WG783399

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	64.2	J	20.0	100	1	04/30/2015 01:15	WG785019

⁶ Qc⁷ Gl

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	175000		1000	20000	20	04/24/2015 00:07	WG783903
Fluoride	825		9.90	100	1	04/23/2015 22:02	WG783903
Sulfate	1750	J	77.0	5000	1	04/23/2015 22:02	WG783903

⁸ Al

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	10.0		0.250	2.00	1	04/24/2015 03:19	WG783154
Arsenic,Dissolved	10.2		0.250	2.00	1	04/30/2015 02:42	WG783439
Barium	6210		0.360	5.00	1	04/24/2015 03:19	WG783154
Barium,Dissolved	6520		0.360	5.00	1	04/30/2015 02:42	WG783439
Calcium	94400		46.0	1000	1	04/24/2015 03:19	WG783154
Chromium	U		0.540	2.00	1	04/24/2015 03:19	WG783154
Chromium,Dissolved	U		0.540	2.00	1	04/30/2015 02:42	WG783439
Iron	138		15.0	100	1	04/24/2015 03:19	WG783154
Iron,Dissolved	78.0	J	15.0	100	1	04/30/2015 02:42	WG783439
Lead	3.44		0.240	2.00	1	04/24/2015 03:19	WG783154
Lead,Dissolved	2.73		0.240	2.00	1	04/30/2015 06:59	WG783439
Manganese	43.1		0.250	5.00	1	04/24/2015 03:19	WG783154
Manganese,Dissolved	43.3		0.250	5.00	1	04/30/2015 02:42	WG783439
Potassium	419	J	37.0	1000	1	04/24/2015 03:19	WG783154
Selenium	U		0.380	2.00	1	04/24/2015 03:19	WG783154
Selenium,Dissolved	3.10		0.380	2.00	1	04/30/2015 02:42	WG783439
Sodium	357000		110	1000	1	04/24/2015 03:19	WG783154

⁹ Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	24500		1600	5000	50	04/29/2015 18:59	WG784848
(S) a,a,a-Trifluorotoluene(FID) 96.5				62.0-128		04/29/2015 18:59	WG784848

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	*	100	500	10	04/23/2015 21:15	WG783006
Benzene	9830	-	66.0	200	200	04/29/2015 04:05	WG785314
Bromodichloromethane	U		3.80	10.0	10	04/23/2015 21:15	WG783006
Bromoform	U		4.70	10.0	10	04/23/2015 21:15	WG783006
Bromomethane	U		8.70	50.0	10	04/23/2015 21:15	WG783006
n-Butylbenzene	U		3.60	10.0	10	04/23/2015 21:15	WG783006
sec-Butylbenzene	5.09	J	3.60	10.0	10	04/23/2015 21:15	WG783006
Carbon disulfide	9.59	J	2.80	10.0	10	04/23/2015 21:15	WG783006
Carbon tetrachloride	U		3.80	10.0	10	04/23/2015 21:15	WG783006



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		3.50	10.0	10	04/23/2015 21:15	WG783006
Chlorodibromomethane	U		3.30	10.0	10	04/23/2015 21:15	WG783006
Chloroethane	U		4.50	50.0	10	04/23/2015 21:15	WG783006
Chloroform	U		3.20	50.0	10	04/23/2015 21:15	WG783006
Chloromethane	U		2.80	25.0	10	04/23/2015 21:15	WG783006
1,2-Dibromoethane	U		3.80	10.0	10	04/23/2015 21:15	WG783006
1,1-Dichloroethane	U		2.60	10.0	10	04/23/2015 21:15	WG783006
1,2-Dichloroethane	5.48	U	3.60	10.0	10	04/23/2015 21:15	WG783006
1,1-Dichloroethene	U		4.00	10.0	10	04/23/2015 21:15	WG783006
cis-1,2-Dichloroethene	U		2.60	10.0	10	04/23/2015 21:15	WG783006
trans-1,2-Dichloroethene	U		4.00	10.0	10	04/23/2015 21:15	WG783006
1,2-Dichloropropane	U		3.10	10.0	10	04/23/2015 21:15	WG783006
cis-1,3-Dichloropropene	U		4.20	10.0	10	04/23/2015 21:15	WG783006
trans-1,3-Dichloropropene	U		4.20	10.0	10	04/23/2015 21:15	WG783006
Ethylbenzene	602		3.80	10.0	10	04/23/2015 21:15	WG783006
Isopropylbenzene	20.7		3.30	10.0	10	04/23/2015 21:15	WG783006
p-Isopropyltoluene	U		3.50	10.0	10	04/23/2015 21:15	WG783006
2-Butanone (MEK)	U		39.0	100	10	04/23/2015 21:15	WG783006
2-Hexanone	U		38.0	100	10	04/23/2015 21:15	WG783006
Methylene Chloride	U		10.0	50.0	10	04/23/2015 21:15	WG783006
4-Methyl-2-pentanone (MIBK)	U	*	21.0	100	10	04/23/2015 21:15	WG783006
Methyl tert-butyl ether	1880		3.70	10.0	10	04/23/2015 21:15	WG783006
Naphthalene	129		10.0	50.0	10	04/23/2015 21:15	WG783006
n-Propylbenzene	25.7		3.50	10.0	10	04/23/2015 21:15	WG783006
Styrene	U		3.10	10.0	10	04/23/2015 21:15	WG783006
1,1,1,2-Tetrachloroethane	U		3.80	10.0	10	04/23/2015 21:15	WG783006
1,1,2,2-Tetrachloroethane	U		1.30	10.0	10	04/23/2015 21:15	WG783006
Tetrachloroethene	U		3.70	10.0	10	04/23/2015 21:15	WG783006
Toluene	1450		7.80	50.0	10	04/23/2015 21:15	WG783006
1,1,1-Trichloroethane	U		3.19	10.0	10	04/23/2015 21:15	WG783006
1,1,2-Trichloroethane	U		3.80	10.0	10	04/23/2015 21:15	WG783006
Trichloroethene	U		4.00	10.0	10	04/23/2015 21:15	WG783006
1,2,4-Trimethylbenzene	136		3.70	10.0	10	04/23/2015 21:15	WG783006
1,3,5-Trimethylbenzene	27.8		3.90	10.0	10	04/23/2015 21:15	WG783006
Vinyl chloride	U		2.60	10.0	10	04/23/2015 21:15	WG783006
o-Xylene	247		3.40	10.0	10	04/23/2015 21:15	WG783006
m&p-Xylene	598		7.20	10.0	10	04/23/2015 21:15	WG783006
Xylenes, Total	846		11.0	30.0	10	04/23/2015 21:15	WG783006
(S) Toluene-d8	107			88.5-111		04/23/2015 21:15	WG783006
(S) Dibromofluoromethane	80.2			78.3-121		04/23/2015 21:15	WG783006
(S) 4-Bromofluorobenzene	92.2			71.0-126		04/23/2015 21:15	WG783006

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	9960		25.0	100	1	04/21/2015 21:46	WG783176
(S) o-Terphenyl	81.1			50.0-150		04/21/2015 21:46	WG783176



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	1710000	*	2800	10000	1	04/23/2015 10:30	WG783399

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		20.0	100	1	04/30/2015 01:16	WG785019

⁶ Qc⁷ Gl

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	258000		1000	20000	20	04/24/2015 00:21	WG783903
Fluoride	845		9.90	100	1	04/23/2015 22:16	WG783903
Sulfate	468000		1500	100000	20	04/24/2015 00:21	WG783903

⁸ Al

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	1.83	J	0.250	2.00	1	04/24/2015 03:22	WG783154
Arsenic,Dissolved	1.89	J	0.250	2.00	1	04/30/2015 02:44	WG783439
Barium	52.1		0.360	5.00	1	04/24/2015 03:22	WG783154
Barium,Dissolved	57.3		0.360	5.00	1	04/30/2015 02:44	WG783439
Calcium	202000		46.0	1000	1	04/24/2015 03:22	WG783154
Chromium	U		0.540	2.00	1	04/24/2015 03:22	WG783154
Chromium,Dissolved	U		0.540	2.00	1	04/30/2015 02:44	WG783439
Iron	74.4	J	15.0	100	1	04/24/2015 03:22	WG783154
Iron,Dissolved	57.1	J	15.0	100	1	04/30/2015 02:44	WG783439
Lead	0.665	J	0.240	2.00	1	04/24/2015 03:22	WG783154
Lead,Dissolved	U		0.240	2.00	1	04/30/2015 13:08	WG783439
Manganese	104		0.250	5.00	1	04/24/2015 03:22	WG783154
Manganese,Dissolved	110		0.250	5.00	1	04/30/2015 02:44	WG783439
Potassium	1670		37.0	1000	1	04/24/2015 03:22	WG783154
Selenium	U		0.380	2.00	1	04/24/2015 03:22	WG783154
Selenium,Dissolved	0.503	J	0.380	2.00	1	04/30/2015 02:44	WG783439
Sodium	144000		110	1000	1	04/24/2015 03:22	WG783154

⁹ Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	28.9	J	10.0	50.0	1	04/29/2015 21:32	WG785640
Benzene	16.7		0.330	1.00	1	04/29/2015 21:32	WG785640
Bromodichloromethane	U		0.380	1.00	1	04/29/2015 21:32	WG785640
Bromoform	U		0.470	1.00	1	04/29/2015 21:32	WG785640
Bromomethane	U		0.870	5.00	1	04/29/2015 21:32	WG785640
n-Butylbenzene	0.393	J	0.360	1.00	1	04/29/2015 21:32	WG785640
sec-Butylbenzene	3.02		0.360	1.00	1	04/29/2015 21:32	WG785640
Carbon disulfide	0.854	J	0.280	1.00	1	04/29/2015 21:32	WG785640
Carbon tetrachloride	U		0.380	1.00	1	04/29/2015 21:32	WG785640
Chlorobenzene	U		0.350	1.00	1	04/29/2015 21:32	WG785640
Chlorodibromomethane	U		0.330	1.00	1	04/29/2015 21:32	WG785640
Chloroethane	U		0.450	5.00	1	04/29/2015 21:32	WG785640
Chloroform	U	*	0.320	5.00	1	04/29/2015 21:32	WG785640
Chloromethane	U		0.280	2.50	1	04/29/2015 21:32	WG785640
1,2-Dibromoethane	U		0.380	1.00	1	04/29/2015 21:32	WG785640
1,1-Dichloroethane	U		0.260	1.00	1	04/29/2015 21:32	WG785640



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.360	1.00	1	04/29/2015 21:32	WG785640
1,1-Dichloroethene	U		0.400	1.00	1	04/29/2015 21:32	WG785640
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/29/2015 21:32	WG785640
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/29/2015 21:32	WG785640
1,2-Dichloropropane	U		0.310	1.00	1	04/29/2015 21:32	WG785640
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/29/2015 21:32	WG785640
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/29/2015 21:32	WG785640
Ethylbenzene	2.45		0.380	1.00	1	04/29/2015 21:32	WG785640
Isopropylbenzene	9.66		0.330	1.00	1	04/29/2015 21:32	WG785640
p-Isopropyltoluene	U		0.350	1.00	1	04/29/2015 21:32	WG785640
2-Butanone (MEK)	U		3.90	10.0	1	04/29/2015 21:32	WG785640
2-Hexanone	U		3.80	10.0	1	04/29/2015 21:32	WG785640
Methylene Chloride	U		1.00	5.00	1	04/29/2015 21:32	WG785640
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/29/2015 21:32	WG785640
Methyl tert-butyl ether	90.2		0.370	1.00	1	04/29/2015 21:32	WG785640
Naphthalene	U		1.00	5.00	1	04/29/2015 21:32	WG785640
n-Propylbenzene	4.58		0.350	1.00	1	04/29/2015 21:32	WG785640
Styrene	U	*	0.310	1.00	1	04/29/2015 21:32	WG785640
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/29/2015 21:32	WG785640
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/29/2015 21:32	WG785640
Tetrachloroethene	U		0.370	1.00	1	04/29/2015 21:32	WG785640
Toluene	U	*	0.780	5.00	1	04/29/2015 21:32	WG785640
1,1,1-Trichloroethane	U		0.319	1.00	1	04/29/2015 21:32	WG785640
1,1,2-Trichloroethane	U		0.380	1.00	1	04/29/2015 21:32	WG785640
Trichloroethene	U		0.400	1.00	1	04/29/2015 21:32	WG785640
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/29/2015 21:32	WG785640
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/29/2015 21:32	WG785640
Vinyl chloride	U		0.260	1.00	1	04/29/2015 21:32	WG785640
o-Xylene	U		0.340	1.00	1	04/29/2015 21:32	WG785640
m&p-Xylene	U		0.720	1.00	1	04/29/2015 21:32	WG785640
Xylenes, Total	U		1.10	3.00	1	04/29/2015 21:32	WG785640
(S) Toluene-d8	99.6			88.5-111		04/29/2015 21:32	WG785640
(S) Dibromofluoromethane	90.6			78.3-121		04/29/2015 21:32	WG785640
(S) 4-Bromofluorobenzene	95.9			71.0-126		04/29/2015 21:32	WG785640

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	3720		25.0	100	1	04/21/2015 22:05	WG783176
(S) o-Terphenyl	116			50.0-150		04/21/2015 22:05	WG783176



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	1650000		2800	10000	1	04/23/2015 10:09	WG783402

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	33.5	J	20.0	100	1	04/30/2015 01:18	WG785019

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	414000		1000	20000	20	04/24/2015 00:35	WG783903
Fluoride	628		9.90	100	1	04/23/2015 22:29	WG783903
Sulfate	129000		1500	100000	20	04/24/2015 00:35	WG783903

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	33.2		0.250	2.00	1	04/24/2015 03:24	WG783154
Arsenic,Dissolved	35.4		0.250	2.00	1	04/28/2015 13:36	WG783442
Barium	1660		0.360	5.00	1	04/24/2015 03:24	WG783154
Barium,Dissolved	857		0.360	5.00	1	04/28/2015 13:36	WG783442
Calcium	168000		46.0	1000	1	04/24/2015 03:24	WG783154
Chromium	U		0.540	2.00	1	04/24/2015 03:24	WG783154
Chromium,Dissolved	0.677	J	0.540	2.00	1	04/28/2015 13:36	WG783442
Iron	13800		15.0	100	1	04/24/2015 03:24	WG783154
Iron,Dissolved	17500		15.0	100	1	04/28/2015 13:36	WG783442
Lead	0.574	J	0.240	2.00	1	04/24/2015 03:24	WG783154
Lead,Dissolved	1.29	J	0.240	2.00	1	04/28/2015 13:36	WG783442
Manganese	280		0.250	5.00	1	04/24/2015 03:24	WG783154
Manganese,Dissolved	284		0.250	5.00	1	04/28/2015 13:36	WG783442
Potassium	686	J	37.0	1000	1	04/24/2015 03:24	WG783154
Selenium	U		0.380	2.00	1	04/24/2015 03:24	WG783154
Selenium,Dissolved	U		0.380	2.00	1	04/28/2015 13:36	WG783442
Sodium	205000		110	1000	1	04/24/2015 03:24	WG783154

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	*	100	500	10	04/23/2015 21:50	WG783006
Benzene	636		3.30	10.0	10	04/23/2015 21:50	WG783006
Bromodichloromethane	U		3.80	10.0	10	04/23/2015 21:50	WG783006
Bromoform	U		4.70	10.0	10	04/23/2015 21:50	WG783006
Bromomethane	U		8.70	50.0	10	04/23/2015 21:50	WG783006
n-Butylbenzene	7.38	J	3.60	10.0	10	04/23/2015 21:50	WG783006
sec-Butylbenzene	9.44	J	3.60	10.0	10	04/23/2015 21:50	WG783006
Carbon disulfide	7.71	J	2.80	10.0	10	04/23/2015 21:50	WG783006
Carbon tetrachloride	U		3.80	10.0	10	04/23/2015 21:50	WG783006
Chlorobenzene	U		3.50	10.0	10	04/23/2015 21:50	WG783006
Chlorodibromomethane	U		3.30	10.0	10	04/23/2015 21:50	WG783006
Chloroethane	U		4.50	50.0	10	04/23/2015 21:50	WG783006
Chloroform	U		3.20	50.0	10	04/23/2015 21:50	WG783006
Chloromethane	U		2.80	25.0	10	04/23/2015 21:50	WG783006
1,2-Dibromoethane	U		3.80	10.0	10	04/23/2015 21:50	WG783006
1,1-Dichloroethane	U		2.60	10.0	10	04/23/2015 21:50	WG783006



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		3.60	10.0	10	04/23/2015 21:50	WG783006
1,1-Dichloroethene	U		4.00	10.0	10	04/23/2015 21:50	WG783006
cis-1,2-Dichloroethene	U		2.60	10.0	10	04/23/2015 21:50	WG783006
trans-1,2-Dichloroethene	U		4.00	10.0	10	04/23/2015 21:50	WG783006
1,2-Dichloropropane	U		3.10	10.0	10	04/23/2015 21:50	WG783006
cis-1,3-Dichloropropene	U		4.20	10.0	10	04/23/2015 21:50	WG783006
trans-1,3-Dichloropropene	U		4.20	10.0	10	04/23/2015 21:50	WG783006
Ethylbenzene	47.6		3.80	10.0	10	04/23/2015 21:50	WG783006
Isopropylbenzene	17.3		3.30	10.0	10	04/23/2015 21:50	WG783006
p-Isopropyltoluene	U		3.50	10.0	10	04/23/2015 21:50	WG783006
2-Butanone (MEK)	U		39.0	100	10	04/23/2015 21:50	WG783006
2-Hexanone	U		38.0	100	10	04/23/2015 21:50	WG783006
Methylene Chloride	U		10.0	50.0	10	04/23/2015 21:50	WG783006
4-Methyl-2-pentanone (MIBK)	U	*	21.0	100	10	04/23/2015 21:50	WG783006
Methyl tert-butyl ether	2270		37.0	100	100	04/29/2015 04:25	WG785314
Naphthalene	60.2		10.0	50.0	10	04/23/2015 21:50	WG783006
n-Propylbenzene	23.7		3.50	10.0	10	04/23/2015 21:50	WG783006
Styrene	U		3.10	10.0	10	04/23/2015 21:50	WG783006
1,1,1,2-Tetrachloroethane	U		3.80	10.0	10	04/23/2015 21:50	WG783006
1,1,2,2-Tetrachloroethane	U		1.30	10.0	10	04/23/2015 21:50	WG783006
Tetrachloroethene	U		3.70	10.0	10	04/23/2015 21:50	WG783006
Toluene	12.6	U	7.80	50.0	10	04/23/2015 21:50	WG783006
1,1,1-Trichloroethane	U		3.19	10.0	10	04/23/2015 21:50	WG783006
1,1,2-Trichloroethane	U		3.80	10.0	10	04/23/2015 21:50	WG783006
Trichloroethene	U		4.00	10.0	10	04/23/2015 21:50	WG783006
1,2,4-Trimethylbenzene	134		3.70	10.0	10	04/23/2015 21:50	WG783006
1,3,5-Trimethylbenzene	28.0		3.90	10.0	10	04/23/2015 21:50	WG783006
Vinyl chloride	U		2.60	10.0	10	04/23/2015 21:50	WG783006
o-Xylene	55.8		3.40	10.0	10	04/23/2015 21:50	WG783006
m&p-Xylene	102		7.20	10.0	10	04/23/2015 21:50	WG783006
Xylenes, Total	158		11.0	30.0	10	04/23/2015 21:50	WG783006
(S) Toluene-d8	106			88.5-111		04/23/2015 21:50	WG783006
(S) Dibromofluoromethane	92.4			78.3-121		04/23/2015 21:50	WG783006
(S) 4-Bromofluorobenzene	97.6			71.0-126		04/23/2015 21:50	WG783006

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	11400		120	500	5	04/23/2015 05:10	WG783176
(S) o-Terphenyl	116			50.0-150		04/23/2015 05:10	WG783176



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	267000		2800	10000	1	04/23/2015 10:11	WG783402

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	789		20.0	100	1	04/30/2015 01:19	WG785019

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	33400		52.0	1000	1	04/23/2015 20:17	WG784232
Fluoride	328		9.90	100	1	04/23/2015 20:17	WG784232
Sulfate	41300		77.0	5000	1	04/23/2015 20:17	WG784232

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	2.89		0.250	2.00	1	04/24/2015 03:27	WG783154
Arsenic,Dissolved	3.05		0.250	2.00	1	04/28/2015 13:46	WG783442
Barium	159		0.360	5.00	1	04/24/2015 03:27	WG783154
Barium,Dissolved	155		0.360	5.00	1	04/28/2015 13:46	WG783442
Calcium	48700		46.0	1000	1	04/24/2015 03:27	WG783154
Chromium	0.639	J	0.540	2.00	1	04/24/2015 03:27	WG783154
Chromium,Dissolved	U		0.540	2.00	1	04/28/2015 13:46	WG783442
Iron	457		15.0	100	1	04/24/2015 03:27	WG783154
Iron,Dissolved	317		15.0	100	1	04/28/2015 13:46	WG783442
Lead	5.71		0.240	2.00	1	04/24/2015 03:27	WG783154
Lead,Dissolved	2.00	J	0.240	2.00	1	04/28/2015 13:46	WG783442
Manganese	80.2		0.250	5.00	1	04/24/2015 03:27	WG783154
Manganese,Dissolved	82.8		0.250	5.00	1	04/28/2015 13:46	WG783442
Potassium	5300		37.0	1000	1	04/24/2015 03:27	WG783154
Selenium	0.808	J	0.380	2.00	1	04/24/2015 03:27	WG783154
Selenium,Dissolved	0.714	J	0.380	2.00	1	04/28/2015 13:46	WG783442
Sodium	23900		110	1000	1	04/24/2015 03:27	WG783154

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	6760		31.0	100	1	04/25/2015 01:38	WG783018
(S) a,a,a-Trifluorotoluene(FID) 83.6				62.0-128		04/25/2015 01:38	WG783018

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		250	1250	25	04/29/2015 21:54	WG785640
Benzene	973		8.30	25.0	25	04/29/2015 21:54	WG785640
Bromodichloromethane	U		9.50	25.0	25	04/29/2015 21:54	WG785640
Bromoform	U		12.0	25.0	25	04/29/2015 21:54	WG785640
Bromomethane	U		22.0	125	25	04/29/2015 21:54	WG785640
n-Butylbenzene	U		9.00	25.0	25	04/29/2015 21:54	WG785640
sec-Butylbenzene	10.8	J	9.10	25.0	25	04/29/2015 21:54	WG785640
Carbon disulfide	7.20	J	6.90	25.0	25	04/29/2015 21:54	WG785640
Carbon tetrachloride	U		9.50	25.0	25	04/29/2015 21:54	WG785640



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	1 Cp
Chlorobenzene	U		8.70	25.0	25	04/29/2015 21:54	WG785640	2 Tc
Chlorodibromomethane	U		8.20	25.0	25	04/29/2015 21:54	WG785640	3 Ss
Chloroethane	U		11.0	125	25	04/29/2015 21:54	WG785640	4 Cn
Chloroform	U	*	8.10	125	25	04/29/2015 21:54	WG785640	5 Sr
Chloromethane	U		6.90	62.5	25	04/29/2015 21:54	WG785640	6 Qc
1,2-Dibromoethane	U		9.50	25.0	25	04/29/2015 21:54	WG785640	7 Gl
1,1-Dichloroethane	U		6.50	25.0	25	04/29/2015 21:54	WG785640	8 Al
1,2-Dichloroethane	U		9.00	25.0	25	04/29/2015 21:54	WG785640	9 Sc
1,1-Dichloroethene	U		10.0	25.0	25	04/29/2015 21:54	WG785640	
cis-1,2-Dichloroethene	U		6.50	25.0	25	04/29/2015 21:54	WG785640	
trans-1,2-Dichloroethene	U		9.90	25.0	25	04/29/2015 21:54	WG785640	
1,2-Dichloropropane	U		7.60	25.0	25	04/29/2015 21:54	WG785640	
cis-1,3-Dichloropropene	U		10.0	25.0	25	04/29/2015 21:54	WG785640	
trans-1,3-Dichloropropene	U		10.0	25.0	25	04/29/2015 21:54	WG785640	
Ethylbenzene	252		9.60	25.0	25	04/29/2015 21:54	WG785640	
Isopropylbenzene	29.5		8.20	25.0	25	04/29/2015 21:54	WG785640	
p-Isopropyltoluene	U		8.80	25.0	25	04/29/2015 21:54	WG785640	
2-Butanone (MEK)	U		98.0	250	25	04/29/2015 21:54	WG785640	
2-Hexanone	U		96.0	250	25	04/29/2015 21:54	WG785640	
Methylene Chloride	U		25.0	125	25	04/29/2015 21:54	WG785640	
4-Methyl-2-pentanone (MIBK)	U		54.0	250	25	04/29/2015 21:54	WG785640	
Methyl tert-butyl ether	79.9		9.20	25.0	25	04/29/2015 21:54	WG785640	
Naphthalene	37.6	U	25.0	125	25	04/29/2015 21:54	WG785640	
n-Propylbenzene	33.8		8.70	25.0	25	04/29/2015 21:54	WG785640	
Styrene	U	*	7.70	25.0	25	04/29/2015 21:54	WG785640	
1,1,1,2-Tetrachloroethane	U		9.60	25.0	25	04/29/2015 21:54	WG785640	
1,1,2,2-Tetrachloroethane	U		3.20	25.0	25	04/29/2015 21:54	WG785640	
Tetrachloroethene	U		9.30	25.0	25	04/29/2015 21:54	WG785640	
Toluene	149	*	20.0	125	25	04/29/2015 21:54	WG785640	
1,1,1-Trichloroethane	U		7.98	25.0	25	04/29/2015 21:54	WG785640	
1,1,2-Trichloroethane	U		9.60	25.0	25	04/29/2015 21:54	WG785640	
Trichloroethene	U		10.0	25.0	25	04/29/2015 21:54	WG785640	
1,2,4-Trimethylbenzene	337		9.30	25.0	25	04/29/2015 21:54	WG785640	
1,3,5-Trimethylbenzene	70.6		9.70	25.0	25	04/29/2015 21:54	WG785640	
Vinyl chloride	U		6.50	25.0	25	04/29/2015 21:54	WG785640	
o-Xylene	315		8.50	25.0	25	04/29/2015 21:54	WG785640	
m&p-Xylene	622		18.0	25.0	25	04/29/2015 21:54	WG785640	
Xylenes, Total	937		26.0	75.0	25	04/29/2015 21:54	WG785640	
(S) Toluene-d8	97.6			88.5-111		04/29/2015 21:54	WG785640	
(S) Dibromofluoromethane	91.7			78.3-121		04/29/2015 21:54	WG785640	
(S) 4-Bromofluorobenzene	96.4			71.0-126		04/29/2015 21:54	WG785640	

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1940		25.0	100	1	04/21/2015 22:43	WG783176
(S) o-Terphenyl	111			50.0-150		04/21/2015 22:43	WG783176



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	948000		2800	10000	1	04/23/2015 10:11	WG783402

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	29.2	J	20.0	100	1	04/30/2015 01:20	WG785019

Wet Chemistry by Method 9012B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Cyanide	U		1.80	5.00	1	04/29/2015 14:56	WG785489

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	141000		100	2000	2	04/24/2015 22:52	WG784232
Fluoride	1530		9.90	100	1	04/23/2015 20:47	WG784232
Sulfate	596	J	77.0	5000	1	04/23/2015 20:47	WG784232

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	U		0.0490	0.200	1	04/20/2015 20:24	WG783254

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	2.98		0.250	2.00	1	04/24/2015 03:29	WG783154
Arsenic,Dissolved	2.97		0.250	2.00	1	04/28/2015 13:49	WG783442
Barium	2350		0.360	5.00	1	04/24/2015 03:29	WG783154
Barium,Dissolved	2170		0.360	5.00	1	04/28/2015 13:49	WG783442
Calcium	120000		46.0	1000	1	04/24/2015 03:29	WG783154
Chromium	U		0.540	2.00	1	04/24/2015 03:29	WG783154
Chromium,Dissolved	U		0.540	2.00	1	04/28/2015 13:49	WG783442
Iron	635		15.0	100	1	04/24/2015 03:29	WG783154
Iron,Dissolved	549		15.0	100	1	04/28/2015 13:49	WG783442
Lead	0.902	J	0.240	2.00	1	04/24/2015 03:29	WG783154
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 13:49	WG783442
Manganese	189		0.250	5.00	1	04/24/2015 03:29	WG783154
Manganese,Dissolved	201		0.250	5.00	1	04/28/2015 13:49	WG783442
Nickel	6.13		0.350	2.00	1	04/24/2015 03:29	WG783154
Nickel,Dissolved	5.65		0.350	2.00	1	04/28/2015 13:49	WG783442
Potassium	858	J	37.0	1000	1	04/24/2015 03:29	WG783154
Selenium	U		0.380	2.00	1	04/24/2015 03:29	WG783154
Selenium,Dissolved	U		0.380	2.00	1	04/28/2015 13:49	WG783442
Sodium	134000		110	1000	1	04/24/2015 03:29	WG783154
Vanadium	0.941	J	0.180	5.00	1	04/24/2015 03:29	WG783154
Vanadium,Dissolved	0.494	J	0.180	5.00	1	04/28/2015 13:49	WG783442

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	8180		31.0	100	1	04/25/2015 01:59	WG783018



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) a,a,a-Trifluorotoluene(FID)	76.4			62.0-128		04/25/2015 01:59	WG783018

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		500	2500	50	04/29/2015 22:15	WG785640
Benzene	3160		16.0	50.0	50	04/29/2015 22:15	WG785640
Bromodichloromethane	U		19.0	50.0	50	04/29/2015 22:15	WG785640
Bromoform	U		23.0	50.0	50	04/29/2015 22:15	WG785640
Bromomethane	U		43.0	250	50	04/29/2015 22:15	WG785640
n-Butylbenzene	U		18.0	50.0	50	04/29/2015 22:15	WG785640
sec-Butylbenzene	U		18.0	50.0	50	04/29/2015 22:15	WG785640
Carbon disulfide	U		14.0	50.0	50	04/29/2015 22:15	WG785640
Carbon tetrachloride	U		19.0	50.0	50	04/29/2015 22:15	WG785640
Chlorobenzene	U		17.0	50.0	50	04/29/2015 22:15	WG785640
Chlorodibromomethane	U		16.0	50.0	50	04/29/2015 22:15	WG785640
Chloroethane	U		23.0	250	50	04/29/2015 22:15	WG785640
Chloroform	U	*	16.0	250	50	04/29/2015 22:15	WG785640
Chloromethane	U		14.0	125	50	04/29/2015 22:15	WG785640
1,2-Dibromoethane	U		19.0	50.0	50	04/29/2015 22:15	WG785640
1,1-Dichloroethane	U		13.0	50.0	50	04/29/2015 22:15	WG785640
1,2-Dichloroethane	U		18.0	50.0	50	04/29/2015 22:15	WG785640
1,1-Dichloroethene	U		20.0	50.0	50	04/29/2015 22:15	WG785640
cis-1,2-Dichloroethene	U		13.0	50.0	50	04/29/2015 22:15	WG785640
trans-1,2-Dichloroethene	U		20.0	50.0	50	04/29/2015 22:15	WG785640
1,2-Dichloropropane	U		15.0	50.0	50	04/29/2015 22:15	WG785640
cis-1,3-Dichloropropene	U		21.0	50.0	50	04/29/2015 22:15	WG785640
trans-1,3-Dichloropropene	U		21.0	50.0	50	04/29/2015 22:15	WG785640
Ethylbenzene	61.5		19.0	50.0	50	04/29/2015 22:15	WG785640
Isopropylbenzene	26.6	U	16.0	50.0	50	04/29/2015 22:15	WG785640
p-Isopropyltoluene	U		18.0	50.0	50	04/29/2015 22:15	WG785640
2-Butanone (MEK)	U		200	500	50	04/29/2015 22:15	WG785640
2-Hexanone	U		190	500	50	04/29/2015 22:15	WG785640
Methylene Chloride	U		50.0	250	50	04/29/2015 22:15	WG785640
4-Methyl-2-pentanone (MIBK)	U		110	500	50	04/29/2015 22:15	WG785640
Methyl tert-butyl ether	1660		18.0	50.0	50	04/29/2015 22:15	WG785640
Naphthalene	61.7	U	50.0	250	50	04/29/2015 22:15	WG785640
n-Propylbenzene	34.2	U	17.0	50.0	50	04/29/2015 22:15	WG785640
Styrene	U	* U	15.0	50.0	50	04/29/2015 22:15	WG785640
1,1,1,2-Tetrachloroethane	U		19.0	50.0	50	04/29/2015 22:15	WG785640
1,1,2,2-Tetrachloroethane	U		6.50	50.0	50	04/29/2015 22:15	WG785640
Tetrachloroethene	U		19.0	50.0	50	04/29/2015 22:15	WG785640
Toluene	U	*	39.0	250	50	04/29/2015 22:15	WG785640
1,1,1-Trichloroethane	U		16.0	50.0	50	04/29/2015 22:15	WG785640
1,1,2-Trichloroethane	U		19.0	50.0	50	04/29/2015 22:15	WG785640
Trichloroethene	U		20.0	50.0	50	04/29/2015 22:15	WG785640
1,2,4-Trimethylbenzene	U		19.0	50.0	50	04/29/2015 22:15	WG785640
1,3,5-Trimethylbenzene	U		19.0	50.0	50	04/29/2015 22:15	WG785640
Vinyl chloride	U		13.0	50.0	50	04/29/2015 22:15	WG785640
o-Xylene	U		17.0	50.0	50	04/29/2015 22:15	WG785640
m&p-Xylene	66.8		36.0	50.0	50	04/29/2015 22:15	WG785640
Xylenes, Total	66.8	U	53.0	150	50	04/29/2015 22:15	WG785640
(S) Toluene-d8	98.8			88.5-111		04/29/2015 22:15	WG785640
(S) Dibromofluoromethane	90.3			78.3-121		04/29/2015 22:15	WG785640
(S) 4-Bromofluorobenzene	100			71.0-126		04/29/2015 22:15	WG785640

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 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) High Fraction	4510		25.0	100	1	04/21/2015 23:02	WG783176
(S) o-Terphenyl	114			50.0-150		04/21/2015 23:02	WG783176

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	1130000		2800	10000	1	04/23/2015 10:10	WG783402

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	185		20.0	100	1	04/30/2015 01:21	WG785019

⁶ Qc⁷ Gl

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	31000		52.0	1000	1	04/23/2015 21:02	WG784232
Fluoride	2120		9.90	100	1	04/23/2015 21:02	WG784232
Sulfate	679000		770	50000	10	04/24/2015 23:07	WG784232

⁸ Al⁹ Sc

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	0.400	J	0.250	2.00	1	04/24/2015 03:32	WG783154
Arsenic,Dissolved	0.422	J	0.250	2.00	1	04/28/2015 13:51	WG783442
Barium	19.6		0.360	5.00	1	04/24/2015 03:32	WG783154
Barium,Dissolved	18.2		0.360	5.00	1	04/28/2015 13:51	WG783442
Calcium	207000		46.0	1000	1	04/24/2015 03:32	WG783154
Chromium	U		0.540	2.00	1	04/24/2015 03:32	WG783154
Chromium,Dissolved	U		0.540	2.00	1	04/28/2015 13:51	WG783442
Iron	49.0	J	15.0	100	1	04/24/2015 03:32	WG783154
Iron,Dissolved	U		15.0	100	1	04/28/2015 13:51	WG783442
Lead	U		0.240	2.00	1	04/24/2015 03:32	WG783154
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 13:51	WG783442
Manganese	21.7		0.250	5.00	1	04/24/2015 03:32	WG783154
Manganese,Dissolved	21.3		0.250	5.00	1	04/28/2015 13:51	WG783442
Potassium	4630		37.0	1000	1	04/24/2015 03:32	WG783154
Selenium	U		0.380	2.00	1	04/24/2015 03:32	WG783154
Selenium,Dissolved	U		0.380	2.00	1	04/28/2015 13:51	WG783442
Sodium	42300		110	1000	1	04/24/2015 03:32	WG783154

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	878		31.0	100	1	04/20/2015 16:26	WG783211
(S) a,a,a-Trifluorotoluene(FID) 88.1				62.0-128		04/20/2015 16:26	WG783211

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/29/2015 22:36	WG785640
Benzene	24.2		0.330	1.00	1	04/29/2015 22:36	WG785640
Bromodichloromethane	U		0.380	1.00	1	04/29/2015 22:36	WG785640
Bromoform	U		0.470	1.00	1	04/29/2015 22:36	WG785640
Bromomethane	U		0.870	5.00	1	04/29/2015 22:36	WG785640
n-Butylbenzene	U		0.360	1.00	1	04/29/2015 22:36	WG785640
sec-Butylbenzene	32.8		0.360	1.00	1	04/29/2015 22:36	WG785640
Carbon disulfide	0.723	J	0.280	1.00	1	04/29/2015 22:36	WG785640
Carbon tetrachloride	U		0.380	1.00	1	04/29/2015 22:36	WG785640



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.350	1.00	1	04/29/2015 22:36	WG785640
Chlorodibromomethane	U		0.330	1.00	1	04/29/2015 22:36	WG785640
Chloroethane	U		0.450	5.00	1	04/29/2015 22:36	WG785640
Chloroform	5.13	*	0.320	5.00	1	04/29/2015 22:36	WG785640
Chloromethane	U		0.280	2.50	1	04/29/2015 22:36	WG785640
1,2-Dibromoethane	U		0.380	1.00	1	04/29/2015 22:36	WG785640
1,1-Dichloroethane	U		0.260	1.00	1	04/29/2015 22:36	WG785640
1,2-Dichloroethane	U		0.360	1.00	1	04/29/2015 22:36	WG785640
1,1-Dichloroethene	U		0.400	1.00	1	04/29/2015 22:36	WG785640
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/29/2015 22:36	WG785640
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/29/2015 22:36	WG785640
1,2-Dichloropropane	U		0.310	1.00	1	04/29/2015 22:36	WG785640
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/29/2015 22:36	WG785640
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/29/2015 22:36	WG785640
Ethylbenzene	0.481	U	0.380	1.00	1	04/29/2015 22:36	WG785640
Isopropylbenzene	44.1		0.330	1.00	1	04/29/2015 22:36	WG785640
p-Isopropyltoluene	U		0.350	1.00	1	04/29/2015 22:36	WG785640
2-Butanone (MEK)	U		3.90	10.0	1	04/29/2015 22:36	WG785640
2-Hexanone	U		3.80	10.0	1	04/29/2015 22:36	WG785640
Methylene Chloride	U		1.00	5.00	1	04/29/2015 22:36	WG785640
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/29/2015 22:36	WG785640
Methyl tert-butyl ether	1.35		0.370	1.00	1	04/29/2015 22:36	WG785640
Naphthalene	U		1.00	5.00	1	04/29/2015 22:36	WG785640
n-Propylbenzene	3.35		0.350	1.00	1	04/29/2015 22:36	WG785640
Styrene	U	*	0.310	1.00	1	04/29/2015 22:36	WG785640
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/29/2015 22:36	WG785640
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/29/2015 22:36	WG785640
Tetrachloroethene	U		0.370	1.00	1	04/29/2015 22:36	WG785640
Toluene	U	*	0.780	5.00	1	04/29/2015 22:36	WG785640
1,1,1-Trichloroethane	U		0.319	1.00	1	04/29/2015 22:36	WG785640
1,1,2-Trichloroethane	U		0.380	1.00	1	04/29/2015 22:36	WG785640
Trichloroethene	U		0.400	1.00	1	04/29/2015 22:36	WG785640
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/29/2015 22:36	WG785640
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/29/2015 22:36	WG785640
Vinyl chloride	U		0.260	1.00	1	04/29/2015 22:36	WG785640
o-Xylene	U		0.340	1.00	1	04/29/2015 22:36	WG785640
m&p-Xylene	U		0.720	1.00	1	04/29/2015 22:36	WG785640
Xylenes, Total	U		1.10	3.00	1	04/29/2015 22:36	WG785640
(S) Toluene-d8	95.7			88.5-111		04/29/2015 22:36	WG785640
(S) Dibromofluoromethane	93.2			78.3-121		04/29/2015 22:36	WG785640
(S) 4-Bromofluorobenzene	94.3			71.0-126		04/29/2015 22:36	WG785640

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	790		25.0	100	1	04/21/2015 23:20	WG783176
(S) o-Terphenyl	113			50.0-150		04/21/2015 23:20	WG783176



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	U		2800	10000	1	04/23/2015 10:19	WG783402

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		20.0	100	1	05/04/2015 12:21	WG785021

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	U		52.0	1000	1	04/23/2015 21:17	WG784232
Fluoride	34.2	J	9.90	100	1	04/23/2015 21:17	WG784232
Sulfate	99.9	J	77.0	5000	1	04/23/2015 21:17	WG784232

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	U		0.250	2.00	1	04/24/2015 03:35	WG783154
Arsenic,Dissolved	U		0.250	2.00	1	04/28/2015 14:00	WG783442
Barium	0.839	J	0.360	5.00	1	04/24/2015 03:35	WG783154
Barium,Dissolved	U		0.360	5.00	1	04/28/2015 14:00	WG783442
Calcium	95.7	J	46.0	1000	1	04/24/2015 03:35	WG783154
Chromium	U		0.540	2.00	1	04/24/2015 03:35	WG783154
Chromium,Dissolved	U		0.540	2.00	1	04/28/2015 14:00	WG783442
Iron	35.5	J	15.0	100	1	04/24/2015 03:35	WG783154
Iron,Dissolved	U		15.0	100	1	04/28/2015 14:00	WG783442
Lead	0.471	J	0.240	2.00	1	04/24/2015 03:35	WG783154
Lead,Dissolved	0.353	J	0.240	2.00	1	04/28/2015 14:00	WG783442
Manganese	0.555	J	0.250	5.00	1	04/24/2015 03:35	WG783154
Manganese,Dissolved	U		0.250	5.00	1	04/28/2015 14:00	WG783442
Potassium	U		37.0	1000	1	04/24/2015 03:35	WG783154
Selenium	U		0.380	2.00	1	04/24/2015 03:35	WG783154
Selenium,Dissolved	U		0.380	2.00	1	04/28/2015 14:00	WG783442
Sodium	169	J	110	1000	1	04/24/2015 03:35	WG783154

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	48.1	J	31.0	100	1	04/20/2015 17:55	WG783211
(S) a,a,a-Trifluorotoluene(FID) 96.8				62.0-128		04/20/2015 17:55	WG783211

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	*	10.0	50.0	1	04/23/2015 23:00	WG783006
Benzene	U	-	0.330	1.00	1	04/29/2015 04:44	WG785314
Bromodichloromethane	U		0.380	1.00	1	04/23/2015 23:00	WG783006
Bromoform	U		0.470	1.00	1	04/23/2015 23:00	WG783006
Bromomethane	U		0.870	5.00	1	04/23/2015 23:00	WG783006
n-Butylbenzene	U		0.360	1.00	1	04/23/2015 23:00	WG783006
sec-Butylbenzene	U		0.360	1.00	1	04/23/2015 23:00	WG783006
Carbon disulfide	U		0.280	1.00	1	04/23/2015 23:00	WG783006
Carbon tetrachloride	U		0.380	1.00	1	04/23/2015 23:00	WG783006



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	1 Cp
Chlorobenzene	U		0.350	1.00	1	04/23/2015 23:00	WG783006	2 Tc
Chlorodibromomethane	U		0.330	1.00	1	04/23/2015 23:00	WG783006	3 Ss
Chloroethane	U		0.450	5.00	1	04/23/2015 23:00	WG783006	4 Cn
Chloroform	1.03	J	0.320	5.00	1	04/23/2015 23:00	WG783006	5 Sr
Chloromethane	U		0.280	2.50	1	04/23/2015 23:00	WG783006	6 Qc
1,2-Dibromoethane	U		0.380	1.00	1	04/23/2015 23:00	WG783006	7 Gl
1,1-Dichloroethane	U		0.260	1.00	1	04/23/2015 23:00	WG783006	8 Al
1,2-Dichloroethane	U		0.360	1.00	1	04/23/2015 23:00	WG783006	9 Sc
1,1-Dichloroethene	U		0.400	1.00	1	04/23/2015 23:00	WG783006	
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/23/2015 23:00	WG783006	
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/23/2015 23:00	WG783006	
1,2-Dichloropropane	U		0.310	1.00	1	04/23/2015 23:00	WG783006	
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/23/2015 23:00	WG783006	
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/23/2015 23:00	WG783006	
Ethylbenzene	U		0.380	1.00	1	04/23/2015 23:00	WG783006	
Isopropylbenzene	U		0.330	1.00	1	04/23/2015 23:00	WG783006	
p-Isopropyltoluene	U		0.350	1.00	1	04/23/2015 23:00	WG783006	
2-Butanone (MEK)	U		3.90	10.0	1	04/23/2015 23:00	WG783006	
2-Hexanone	U		3.80	10.0	1	04/23/2015 23:00	WG783006	
Methylene Chloride	U		1.00	5.00	1	04/23/2015 23:00	WG783006	
4-Methyl-2-pentanone (MIBK)	U	*	2.10	10.0	1	04/23/2015 23:00	WG783006	
Methyl tert-butyl ether	U		0.370	1.00	1	04/29/2015 04:44	WG785314	
Naphthalene	U		1.00	5.00	1	04/23/2015 23:00	WG783006	
n-Propylbenzene	U		0.350	1.00	1	04/23/2015 23:00	WG783006	
Styrene	U		0.310	1.00	1	04/23/2015 23:00	WG783006	
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/23/2015 23:00	WG783006	
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/23/2015 23:00	WG783006	
Tetrachloroethene	U		0.370	1.00	1	04/23/2015 23:00	WG783006	
Toluene	U		0.780	5.00	1	04/23/2015 23:00	WG783006	
1,1,1-Trichloroethane	U		0.319	1.00	1	04/23/2015 23:00	WG783006	
1,1,2-Trichloroethane	U		0.380	1.00	1	04/23/2015 23:00	WG783006	
Trichloroethene	U		0.400	1.00	1	04/23/2015 23:00	WG783006	
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/23/2015 23:00	WG783006	
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/23/2015 23:00	WG783006	
Vinyl chloride	U		0.260	1.00	1	04/23/2015 23:00	WG783006	
o-Xylene	U		0.340	1.00	1	04/23/2015 23:00	WG783006	
m&p-Xylene	U		0.720	1.00	1	04/23/2015 23:00	WG783006	
Xylenes, Total	U		1.10	3.00	1	04/23/2015 23:00	WG783006	
(S) Toluene-d8	105			88.5-111		04/23/2015 23:00	WG783006	
(S) Dibromofluoromethane	104			78.3-121		04/23/2015 23:00	WG783006	
(S) 4-Bromofluorobenzene	95.7			71.0-126		04/23/2015 23:00	WG783006	

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	36.3	J	25.0	100	1	04/21/2015 23:39	WG783176
(S) o-Terphenyl	109			50.0-150		04/21/2015 23:39	WG783176



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	2860000		2800	10000	1	04/23/2015 10:08	WG783402

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		200	1000	10	05/04/2015 12:23	WG785021

6 Qc

7 Gl

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	259000		2600	50000	50	04/24/2015 23:22	WG784232
Fluoride	966		9.90	100	1	04/23/2015 21:32	WG784232
Sulfate	1680000		3900	250000	50	04/24/2015 23:22	WG784232

8 Al

9 Sc

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	1.38	J	0.250	2.00	1	04/24/2015 03:37	WG783154
Arsenic,Dissolved	1.46	J	0.250	2.00	1	04/28/2015 14:02	WG783442
Barium	22.6		0.360	5.00	1	04/24/2015 03:37	WG783154
Barium,Dissolved	22.3		0.360	5.00	1	04/28/2015 14:02	WG783442
Calcium	450000		46.0	1000	1	04/24/2015 03:37	WG783154
Chromium	U		0.540	2.00	1	04/24/2015 03:37	WG783154
Chromium,Dissolved	U		0.540	2.00	1	04/28/2015 14:02	WG783442
Iron	471		15.0	100	1	04/24/2015 03:37	WG783154
Iron,Dissolved	39.6	J	15.0	100	1	04/28/2015 14:02	WG783442
Lead	1.02	J	0.240	2.00	1	04/24/2015 03:37	WG783154
Lead,Dissolved	0.670	J	0.240	2.00	1	04/28/2015 14:02	WG783442
Manganese	1530		0.250	5.00	1	04/24/2015 03:37	WG783154
Manganese,Dissolved	1620		0.250	5.00	1	04/28/2015 14:02	WG783442
Potassium	2180		37.0	1000	1	04/24/2015 03:37	WG783154
Selenium	U		0.380	2.00	1	04/24/2015 03:37	WG783154
Selenium,Dissolved	U		0.380	2.00	1	04/28/2015 14:02	WG783442
Sodium	178000		110	1000	1	04/24/2015 03:37	WG783154

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	*	10.0	50.0	1	04/23/2015 23:17	WG783006
Benzene	U	-	0.330	1.00	1	04/23/2015 23:17	WG783006
Bromodichloromethane	U		0.380	1.00	1	04/23/2015 23:17	WG783006
Bromoform	U		0.470	1.00	1	04/23/2015 23:17	WG783006
Bromomethane	U		0.870	5.00	1	04/23/2015 23:17	WG783006
n-Butylbenzene	U		0.360	1.00	1	04/23/2015 23:17	WG783006
sec-Butylbenzene	0.587	J	0.360	1.00	1	04/23/2015 23:17	WG783006
Carbon disulfide	1.10		0.280	1.00	1	04/23/2015 23:17	WG783006
Carbon tetrachloride	U		0.380	1.00	1	04/23/2015 23:17	WG783006
Chlorobenzene	U		0.350	1.00	1	04/23/2015 23:17	WG783006
Chlorodibromomethane	U		0.330	1.00	1	04/23/2015 23:17	WG783006
Chloroethane	U		0.450	5.00	1	04/23/2015 23:17	WG783006
Chloroform	U		0.320	5.00	1	04/23/2015 23:17	WG783006
Chloromethane	U		0.280	2.50	1	04/23/2015 23:17	WG783006
1,2-Dibromoethane	U		0.380	1.00	1	04/23/2015 23:17	WG783006
1,1-Dichloroethane	U		0.260	1.00	1	04/23/2015 23:17	WG783006



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.360	1.00	1	04/23/2015 23:17	WG783006
1,1-Dichloroethene	U		0.400	1.00	1	04/23/2015 23:17	WG783006
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/23/2015 23:17	WG783006
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/23/2015 23:17	WG783006
1,2-Dichloropropane	U		0.310	1.00	1	04/23/2015 23:17	WG783006
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/23/2015 23:17	WG783006
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/23/2015 23:17	WG783006
Ethylbenzene	U		0.380	1.00	1	04/23/2015 23:17	WG783006
Isopropylbenzene	U		0.330	1.00	1	04/23/2015 23:17	WG783006
p-Isopropyltoluene	U		0.350	1.00	1	04/23/2015 23:17	WG783006
2-Butanone (MEK)	U		3.90	10.0	1	04/23/2015 23:17	WG783006
2-Hexanone	U		3.80	10.0	1	04/23/2015 23:17	WG783006
Methylene Chloride	U		1.00	5.00	1	04/23/2015 23:17	WG783006
4-Methyl-2-pentanone (MIBK)	U	*	2.10	10.0	1	04/23/2015 23:17	WG783006
Methyl tert-butyl ether	2.19		0.370	1.00	1	04/23/2015 23:17	WG783006
Naphthalene	U		1.00	5.00	1	04/23/2015 23:17	WG783006
n-Propylbenzene	U		0.350	1.00	1	04/23/2015 23:17	WG783006
Styrene	U		0.310	1.00	1	04/23/2015 23:17	WG783006
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/23/2015 23:17	WG783006
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/23/2015 23:17	WG783006
Tetrachloroethene	U		0.370	1.00	1	04/23/2015 23:17	WG783006
Toluene	U		0.780	5.00	1	04/23/2015 23:17	WG783006
1,1,1-Trichloroethane	U		0.319	1.00	1	04/23/2015 23:17	WG783006
1,1,2-Trichloroethane	U		0.380	1.00	1	04/23/2015 23:17	WG783006
Trichloroethene	U		0.400	1.00	1	04/23/2015 23:17	WG783006
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/23/2015 23:17	WG783006
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/23/2015 23:17	WG783006
Vinyl chloride	U		0.260	1.00	1	04/23/2015 23:17	WG783006
o-Xylene	U		0.340	1.00	1	04/23/2015 23:17	WG783006
m&p-Xylene	U		0.720	1.00	1	04/23/2015 23:17	WG783006
Xylenes, Total	U		1.10	3.00	1	04/23/2015 23:17	WG783006
(S) Toluene-d8	105			88.5-111		04/23/2015 23:17	WG783006
(S) Dibromofluoromethane	102			78.3-121		04/23/2015 23:17	WG783006
(S) 4-Bromofluorobenzene	98.1			71.0-126		04/23/2015 23:17	WG783006

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	902		25.0	100	1	04/21/2015 23:58	WG783176
(S) o-Terphenyl	110			50.0-150		04/21/2015 23:58	WG783176



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	1980000		2800	10000	1	04/23/2015 10:13	WG783402

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		200	1000	10	05/04/2015 12:24	WG785021

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	32800		52.0	1000	1	04/23/2015 21:47	WG784232
Fluoride	1400		9.90	100	1	04/23/2015 21:47	WG784232
Sulfate	643000		770	50000	10	04/24/2015 23:37	WG784232

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	5.09		0.250	2.00	1	04/24/2015 03:40	WG783154
Arsenic,Dissolved	9.74		0.250	2.00	1	04/28/2015 14:05	WG783442
Barium	94.0		0.360	5.00	1	04/24/2015 03:40	WG783154
Barium,Dissolved	89.9		0.360	5.00	1	04/28/2015 14:05	WG783442
Calcium	355000		46.0	1000	1	04/24/2015 03:40	WG783154
Chromium	U		0.540	2.00	1	04/24/2015 03:40	WG783154
Chromium,Dissolved	U		0.540	2.00	1	04/28/2015 14:05	WG783442
Iron	95.7	J	15.0	100	1	04/24/2015 03:40	WG783154
Iron,Dissolved	21.6	J	15.0	100	1	04/28/2015 14:05	WG783442
Lead	2.36		0.240	2.00	1	04/24/2015 03:40	WG783154
Lead,Dissolved	2.81		0.240	2.00	1	04/28/2015 14:05	WG783442
Manganese	5.02		0.250	5.00	1	04/24/2015 03:40	WG783154
Manganese,Dissolved	4.89	J	0.250	5.00	1	04/28/2015 14:05	WG783442
Potassium	523	J	37.0	1000	1	04/24/2015 03:40	WG783154
Selenium	13.8		0.380	2.00	1	04/24/2015 03:40	WG783154
Selenium,Dissolved	U		0.380	2.00	1	04/28/2015 14:05	WG783442
Sodium	30800		110	1000	1	04/24/2015 03:40	WG783154

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	14700		310	1000	10	04/20/2015 18:17	WG783211
(S) a,a,a-Trifluorotoluene(FID) 92.5				62.0-128		04/20/2015 18:17	WG783211

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	*	100	500	10	04/23/2015 23:35	WG783006
Benzene	2910		33.0	100	100	04/29/2015 05:04	WG785314
Bromodichloromethane	U		3.80	10.0	10	04/23/2015 23:35	WG783006
Bromoform	U		4.70	10.0	10	04/23/2015 23:35	WG783006
Bromomethane	U		8.70	50.0	10	04/23/2015 23:35	WG783006
n-Butylbenzene	U		3.60	10.0	10	04/23/2015 23:35	WG783006
sec-Butylbenzene	7.96	J	3.60	10.0	10	04/23/2015 23:35	WG783006
Carbon disulfide	15.1		2.80	10.0	10	04/23/2015 23:35	WG783006
Carbon tetrachloride	U		3.80	10.0	10	04/23/2015 23:35	WG783006



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	1 Cp
Chlorobenzene	U		3.50	10.0	10	04/23/2015 23:35	WG783006	2 Tc
Chlorodibromomethane	U		3.30	10.0	10	04/23/2015 23:35	WG783006	3 Ss
Chloroethane	U		4.50	50.0	10	04/23/2015 23:35	WG783006	4 Cn
Chloroform	U		3.20	50.0	10	04/23/2015 23:35	WG783006	5 Sr
Chloromethane	U		2.80	25.0	10	04/23/2015 23:35	WG783006	6 Qc
1,2-Dibromoethane	U		3.80	10.0	10	04/23/2015 23:35	WG783006	7 Gl
1,1-Dichloroethane	U		2.60	10.0	10	04/23/2015 23:35	WG783006	8 Al
1,2-Dichloroethane	U		3.60	10.0	10	04/23/2015 23:35	WG783006	9 Sc
1,1-Dichloroethene	U		4.00	10.0	10	04/23/2015 23:35	WG783006	
cis-1,2-Dichloroethene	U		2.60	10.0	10	04/23/2015 23:35	WG783006	
trans-1,2-Dichloroethene	U		4.00	10.0	10	04/23/2015 23:35	WG783006	
1,2-Dichloropropane	U		3.10	10.0	10	04/23/2015 23:35	WG783006	
cis-1,3-Dichloropropene	U		4.20	10.0	10	04/23/2015 23:35	WG783006	
trans-1,3-Dichloropropene	U		4.20	10.0	10	04/23/2015 23:35	WG783006	
Ethylbenzene	491		3.80	10.0	10	04/23/2015 23:35	WG783006	
Isopropylbenzene	87.6		3.30	10.0	10	04/23/2015 23:35	WG783006	
p-Isopropyltoluene	3.98	U	3.50	10.0	10	04/23/2015 23:35	WG783006	
2-Butanone (MEK)	U		39.0	100	10	04/23/2015 23:35	WG783006	
2-Hexanone	U		38.0	100	10	04/23/2015 23:35	WG783006	
Methylene Chloride	U		10.0	50.0	10	04/23/2015 23:35	WG783006	
4-Methyl-2-pentanone (MIBK)	U	*	21.0	100	10	04/23/2015 23:35	WG783006	
Methyl tert-butyl ether	U		3.70	10.0	10	04/23/2015 23:35	WG783006	
Naphthalene	49.0	U	10.0	50.0	10	04/23/2015 23:35	WG783006	
n-Propylbenzene	88.2		3.50	10.0	10	04/23/2015 23:35	WG783006	
Styrene	U		3.10	10.0	10	04/23/2015 23:35	WG783006	
1,1,1,2-Tetrachloroethane	U		3.80	10.0	10	04/23/2015 23:35	WG783006	
1,1,2,2-Tetrachloroethane	U		1.30	10.0	10	04/23/2015 23:35	WG783006	
Tetrachloroethene	U		3.70	10.0	10	04/23/2015 23:35	WG783006	
Toluene	1910		7.80	50.0	10	04/23/2015 23:35	WG783006	
1,1,1-Trichloroethane	U		3.19	10.0	10	04/23/2015 23:35	WG783006	
1,1,2-Trichloroethane	U		3.80	10.0	10	04/23/2015 23:35	WG783006	
Trichloroethene	U		4.00	10.0	10	04/23/2015 23:35	WG783006	
1,2,4-Trimethylbenzene	184		3.70	10.0	10	04/23/2015 23:35	WG783006	
1,3,5-Trimethylbenzene	47.6		3.90	10.0	10	04/23/2015 23:35	WG783006	
Vinyl chloride	U		2.60	10.0	10	04/23/2015 23:35	WG783006	
o-Xylene	150		3.40	10.0	10	04/23/2015 23:35	WG783006	
m&p-Xylene	702		7.20	10.0	10	04/23/2015 23:35	WG783006	
Xylenes, Total	852		11.0	30.0	10	04/23/2015 23:35	WG783006	
(S) Toluene-d8	101			88.5-111		04/23/2015 23:35	WG783006	
(S) Dibromofluoromethane	86.4			78.3-121		04/23/2015 23:35	WG783006	
(S) 4-Bromofluorobenzene	94.8			71.0-126		04/23/2015 23:35	WG783006	

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	15900		490	2000	20	04/23/2015 05:47	WG783176
(S) o-Terphenyl	125	X		50.0-150		04/23/2015 05:47	WG783176



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	3800000		2800	10000	1	04/23/2015 10:10	WG783402

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		200	1000	10	05/04/2015 12:25	WG785021

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	104000		2600	50000	50	04/24/2015 23:52	WG784232
Fluoride	2730		9.90	100	1	04/23/2015 22:02	WG784232
Sulfate	2230000		3900	250000	50	04/24/2015 23:52	WG784232

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	7.09		0.250	2.00	1	04/24/2015 03:42	WG783154
Arsenic,Dissolved	7.75		0.250	2.00	1	04/28/2015 14:08	WG783442
Barium	23.3		0.360	5.00	1	04/24/2015 03:42	WG783154
Barium,Dissolved	20.7		0.360	5.00	1	04/28/2015 14:08	WG783442
Calcium	302000		46.0	1000	1	04/24/2015 03:42	WG783154
Chromium	U		0.540	2.00	1	04/24/2015 03:42	WG783154
Chromium,Dissolved	0.646	J	0.540	2.00	1	04/28/2015 14:08	WG783442
Iron	473		15.0	100	1	04/24/2015 03:42	WG783154
Iron,Dissolved	187		15.0	100	1	04/28/2015 14:08	WG783442
Lead	0.242	J	0.240	2.00	1	04/24/2015 03:42	WG783154
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 14:08	WG783442
Manganese	345		0.250	5.00	1	04/24/2015 03:42	WG783154
Manganese,Dissolved	338		0.250	5.00	1	04/28/2015 14:08	WG783442
Potassium	1630		37.0	1000	1	04/24/2015 03:42	WG783154
Selenium	1.72	J	0.380	2.00	1	04/24/2015 03:42	WG783154
Selenium,Dissolved	1.01	J	0.380	2.00	1	04/28/2015 14:08	WG783442
Sodium	286000		110	1000	1	04/24/2015 03:42	WG783154

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	242		31.0	100	1	04/20/2015 18:41	WG783211
(S) a,a,a-Trifluorotoluene(FID) 91.7				62.0-128		04/20/2015 18:41	WG783211

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	*	10.0	50.0	1	04/23/2015 23:52	WG783006
Benzene	12.5	-	0.330	1.00	1	04/23/2015 23:52	WG783006
Bromodichloromethane	U		0.380	1.00	1	04/23/2015 23:52	WG783006
Bromoform	U		0.470	1.00	1	04/23/2015 23:52	WG783006
Bromomethane	U		0.870	5.00	1	04/23/2015 23:52	WG783006
n-Butylbenzene	U		0.360	1.00	1	04/23/2015 23:52	WG783006
sec-Butylbenzene	2.85		0.360	1.00	1	04/23/2015 23:52	WG783006
Carbon disulfide	1.71		0.280	1.00	1	04/23/2015 23:52	WG783006
Carbon tetrachloride	U		0.380	1.00	1	04/23/2015 23:52	WG783006



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.350	1.00	1	04/23/2015 23:52	WG783006
Chlorodibromomethane	U		0.330	1.00	1	04/23/2015 23:52	WG783006
Chloroethane	U		0.450	5.00	1	04/23/2015 23:52	WG783006
Chloroform	U		0.320	5.00	1	04/23/2015 23:52	WG783006
Chloromethane	U		0.280	2.50	1	04/23/2015 23:52	WG783006
1,2-Dibromoethane	U		0.380	1.00	1	04/23/2015 23:52	WG783006
1,1-Dichloroethane	U		0.260	1.00	1	04/23/2015 23:52	WG783006
1,2-Dichloroethane	U		0.360	1.00	1	04/23/2015 23:52	WG783006
1,1-Dichloroethene	U		0.400	1.00	1	04/23/2015 23:52	WG783006
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/23/2015 23:52	WG783006
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/23/2015 23:52	WG783006
1,2-Dichloropropane	U		0.310	1.00	1	04/23/2015 23:52	WG783006
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/23/2015 23:52	WG783006
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/23/2015 23:52	WG783006
Ethylbenzene	0.433	U	0.380	1.00	1	04/23/2015 23:52	WG783006
Isopropylbenzene	18.5		0.330	1.00	1	04/23/2015 23:52	WG783006
p-Isopropyltoluene	U		0.350	1.00	1	04/23/2015 23:52	WG783006
2-Butanone (MEK)	U		3.90	10.0	1	04/23/2015 23:52	WG783006
2-Hexanone	U		3.80	10.0	1	04/23/2015 23:52	WG783006
Methylene Chloride	U		1.00	5.00	1	04/23/2015 23:52	WG783006
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/23/2015 23:52	WG783006
Methyl tert-butyl ether	5.75		0.370	1.00	1	04/23/2015 23:52	WG783006
Naphthalene	1.78	U	1.00	5.00	1	04/23/2015 23:52	WG783006
n-Propylbenzene	2.91		0.350	1.00	1	04/23/2015 23:52	WG783006
Styrene	U		0.310	1.00	1	04/23/2015 23:52	WG783006
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/23/2015 23:52	WG783006
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/23/2015 23:52	WG783006
Tetrachloroethene	U		0.370	1.00	1	04/23/2015 23:52	WG783006
Toluene	1.94	U	0.780	5.00	1	04/23/2015 23:52	WG783006
1,1,1-Trichloroethane	U		0.319	1.00	1	04/23/2015 23:52	WG783006
1,1,2-Trichloroethane	U		0.380	1.00	1	04/23/2015 23:52	WG783006
Trichloroethene	U		0.400	1.00	1	04/23/2015 23:52	WG783006
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/23/2015 23:52	WG783006
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/23/2015 23:52	WG783006
Vinyl chloride	U		0.260	1.00	1	04/23/2015 23:52	WG783006
o-Xylene	U		0.340	1.00	1	04/23/2015 23:52	WG783006
m&p-Xylene	U		0.720	1.00	1	04/23/2015 23:52	WG783006
Xylenes, Total	U		1.10	3.00	1	04/23/2015 23:52	WG783006
(S) Toluene-d8	105			88.5-111		04/23/2015 23:52	WG783006
(S) Dibromofluoromethane	103			78.3-121		04/23/2015 23:52	WG783006
(S) 4-Bromofluorobenzene	95.2			71.0-126		04/23/2015 23:52	WG783006

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	7680		25.0	100	1	04/22/2015 01:50	WG783176
(S) o-Terphenyl	113			50.0-150		04/22/2015 01:50	WG783176



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	1680000		2800	10000	1	04/23/2015 10:09	WG783402

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	211	J	200	1000	10	05/04/2015 12:27	WG785021

⁶ Qc⁷ Gl

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	884000		2600	50000	50	04/25/2015 00:06	WG784232
Fluoride	1190		9.90	100	1	04/23/2015 22:17	WG784232
Sulfate	1730000		3900	250000	50	04/25/2015 00:06	WG784232

⁸ Al

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	4.21		0.250	2.00	1	04/24/2015 03:50	WG783154
Arsenic,Dissolved	4.99		0.250	2.00	1	04/28/2015 14:10	WG783442
Barium	126		0.360	5.00	1	04/24/2015 03:50	WG783154
Barium,Dissolved	113		0.360	5.00	1	04/28/2015 14:10	WG783442
Calcium	208000		46.0	1000	1	04/24/2015 03:50	WG783154
Chromium	0.816	J	0.540	2.00	1	04/24/2015 03:50	WG783154
Chromium,Dissolved	0.705	J	0.540	2.00	1	04/28/2015 14:10	WG783442
Iron	33.8	J	15.0	100	1	04/24/2015 03:50	WG783154
Iron,Dissolved	34.5	J	15.0	100	1	04/28/2015 14:10	WG783442
Lead	0.576	J	0.240	2.00	1	04/24/2015 03:50	WG783154
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 14:10	WG783442
Manganese	3.52	J	0.250	5.00	1	04/24/2015 03:50	WG783154
Manganese,Dissolved	3.38	J	0.250	5.00	1	04/28/2015 14:10	WG783442
Potassium	1030		37.0	1000	1	04/24/2015 03:50	WG783154
Selenium	0.731	J	0.380	2.00	1	04/24/2015 03:50	WG783154
Selenium,Dissolved	0.787	J	0.380	2.00	1	04/28/2015 14:10	WG783442
Sodium	224000		110	1000	1	04/24/2015 03:50	WG783154

⁹ Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	45100		780	2500	25	04/23/2015 14:43	WG784069
(S) a,a,a-Trifluorotoluene(FID) 90.9				62.0-128		04/23/2015 14:43	WG784069

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	*	10.0	50.0	1	04/24/2015 00:10	WG783006
Benzene	2.88	-	0.330	1.00	1	04/24/2015 00:10	WG783006
Bromodichloromethane	U		0.380	1.00	1	04/24/2015 00:10	WG783006
Bromoform	U		0.470	1.00	1	04/24/2015 00:10	WG783006
Bromomethane	U		0.870	5.00	1	04/24/2015 00:10	WG783006
n-Butylbenzene	1.85		0.360	1.00	1	04/24/2015 00:10	WG783006
sec-Butylbenzene	5.51		0.360	1.00	1	04/24/2015 00:10	WG783006
Carbon disulfide	1.68		0.280	1.00	1	04/24/2015 00:10	WG783006
Carbon tetrachloride	U		0.380	1.00	1	04/24/2015 00:10	WG783006



Collected date/time: 04/15/15 11:35

L760094

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Chlorobenzene	U		0.350	1.00	1	04/24/2015 00:10	WG783006	¹ Cp
Chlorodibromomethane	U		0.330	1.00	1	04/24/2015 00:10	WG783006	² Tc
Chloroethane	U		0.450	5.00	1	04/24/2015 00:10	WG783006	
Chloroform	U		0.320	5.00	1	04/24/2015 00:10	WG783006	³ Ss
Chloromethane	U		0.280	2.50	1	04/24/2015 00:10	WG783006	
1,2-Dibromoethane	U		0.380	1.00	1	04/24/2015 00:10	WG783006	⁴ Cn
1,1-Dichloroethane	U		0.260	1.00	1	04/24/2015 00:10	WG783006	
1,2-Dichloroethane	U		0.360	1.00	1	04/24/2015 00:10	WG783006	
1,1-Dichloroethene	U		0.400	1.00	1	04/24/2015 00:10	WG783006	⁵ Sr
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/24/2015 00:10	WG783006	
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/24/2015 00:10	WG783006	⁶ Qc
1,2-Dichloropropane	U		0.310	1.00	1	04/24/2015 00:10	WG783006	
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 00:10	WG783006	
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 00:10	WG783006	⁷ Gl
Ethylbenzene	1.72		0.380	1.00	1	04/24/2015 00:10	WG783006	
Isopropylbenzene	55.0		0.330	1.00	1	04/24/2015 00:10	WG783006	⁸ Al
p-Isopropyltoluene	0.719	U	0.350	1.00	1	04/24/2015 00:10	WG783006	
2-Butanone (MEK)	U		3.90	10.0	1	04/24/2015 00:10	WG783006	
2-Hexanone	U		3.80	10.0	1	04/24/2015 00:10	WG783006	⁹ Sc
Methylene Chloride	U		1.00	5.00	1	04/24/2015 00:10	WG783006	
4-Methyl-2-pentanone (MIBK)	U	I *	2.10	10.0	1	04/24/2015 00:10	WG783006	
Methyl tert-butyl ether	35000		180	500	500	04/29/2015 05:23	WG785314	
Naphthalene	1.26	U	1.00	5.00	1	04/24/2015 00:10	WG783006	
n-Propylbenzene	39.5		0.350	1.00	1	04/24/2015 00:10	WG783006	
Styrene	U		0.310	1.00	1	04/24/2015 00:10	WG783006	
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/24/2015 00:10	WG783006	
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/24/2015 00:10	WG783006	
Tetrachloroethene	U		0.370	1.00	1	04/24/2015 00:10	WG783006	
Toluene	1.56	U	0.780	5.00	1	04/24/2015 00:10	WG783006	
1,1,1-Trichloroethane	U		0.319	1.00	1	04/24/2015 00:10	WG783006	
1,1,2-Trichloroethane	U		0.380	1.00	1	04/24/2015 00:10	WG783006	
Trichloroethene	U		0.400	1.00	1	04/24/2015 00:10	WG783006	
1,2,4-Trimethylbenzene	0.553	U	0.370	1.00	1	04/24/2015 00:10	WG783006	
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/24/2015 00:10	WG783006	
Vinyl chloride	U		0.260	1.00	1	04/24/2015 00:10	WG783006	
o-Xylene	1.10		0.340	1.00	1	04/24/2015 00:10	WG783006	
m&p-Xylene	4.38		0.720	1.00	1	04/24/2015 00:10	WG783006	
Xylenes, Total	5.47		1.10	3.00	1	04/24/2015 00:10	WG783006	
(S) Toluene-d8	100			88.5-111		04/24/2015 00:10	WG783006	
(S) Dibromofluoromethane	103			78.3-121		04/24/2015 00:10	WG783006	
(S) 4-Bromofluorobenzene	91.4			71.0-126		04/24/2015 00:10	WG783006	

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	12000		120	500	5	04/23/2015 05:28	WG783176
(S) o-Terphenyl	113			50.0-150		04/23/2015 05:28	WG783176



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	1510000		2800	10000	1	04/23/2015 10:11	WG783402

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		200	1000	10	05/04/2015 12:28	WG785021

Wet Chemistry by Method 9012B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Cyanide	U		1.80	5.00	1	04/29/2015 15:08	WG785489

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	208000		520	10000	10	04/25/2015 00:21	WG784232
Fluoride	698		9.90	100	1	04/23/2015 22:32	WG784232
Sulfate	329000		770	50000	10	04/25/2015 00:21	WG784232

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	U		0.0490	0.200	1	04/20/2015 20:27	WG783254

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	3.71		0.250	2.00	1	04/24/2015 03:53	WG783154
Arsenic,Dissolved	4.02		0.250	2.00	1	04/28/2015 14:13	WG783442
Barium	140		0.360	5.00	1	04/24/2015 03:53	WG783154
Barium,Dissolved	129		0.360	5.00	1	04/28/2015 14:13	WG783442
Calcium	194000		46.0	1000	1	04/24/2015 03:53	WG783154
Chromium	U		0.540	2.00	1	04/24/2015 03:53	WG783154
Chromium,Dissolved	U		0.540	2.00	1	04/28/2015 14:13	WG783442
Iron	38.4	J	15.0	100	1	04/24/2015 03:53	WG783154
Iron,Dissolved	44.3	J	15.0	100	1	04/28/2015 14:13	WG783442
Lead	1.13	J	0.240	2.00	1	04/24/2015 03:53	WG783154
Lead,Dissolved	0.620	J	0.240	2.00	1	04/28/2015 14:13	WG783442
Manganese	80.0		0.250	5.00	1	04/24/2015 03:53	WG783154
Manganese,Dissolved	81.6		0.250	5.00	1	04/28/2015 14:13	WG783442
Nickel	1.98	J	0.350	2.00	1	04/24/2015 03:53	WG783154
Nickel,Dissolved	3.69		0.350	2.00	1	04/28/2015 14:13	WG783442
Potassium	531	J	37.0	1000	1	04/24/2015 03:53	WG783154
Selenium	0.386	J	0.380	2.00	1	04/24/2015 03:53	WG783154
Selenium,Dissolved	U		0.380	2.00	1	04/28/2015 14:13	WG783442
Sodium	160000		110	1000	1	04/24/2015 03:53	WG783154
Vanadium	1.08	J	0.180	5.00	1	04/24/2015 03:53	WG783154
Vanadium,Dissolved	0.753	J	0.180	5.00	1	04/28/2015 14:13	WG783442

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	784		31.0	100	1	04/22/2015 10:57	WG783800

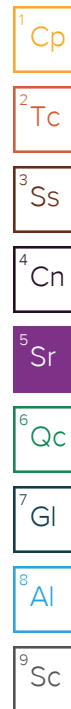


Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) a,a,a-Trifluorotoluene(FID)	90.4			62.0-128		04/22/2015 10:57	WG783800

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	*	10.0	50.0	1	04/24/2015 00:27	WG783006
Benzene	143	-	0.330	1.00	1	04/24/2015 00:27	WG783006
Bromodichloromethane	U		0.380	1.00	1	04/24/2015 00:27	WG783006
Bromoform	U		0.470	1.00	1	04/24/2015 00:27	WG783006
Bromomethane	U		0.870	5.00	1	04/24/2015 00:27	WG783006
n-Butylbenzene	4.52		0.360	1.00	1	04/24/2015 00:27	WG783006
sec-Butylbenzene	9.07		0.360	1.00	1	04/24/2015 00:27	WG783006
Carbon disulfide	1.59		0.280	1.00	1	04/24/2015 00:27	WG783006
Carbon tetrachloride	U		0.380	1.00	1	04/24/2015 00:27	WG783006
Chlorobenzene	U		0.350	1.00	1	04/24/2015 00:27	WG783006
Chlorodibromomethane	U		0.330	1.00	1	04/24/2015 00:27	WG783006
Chloroethane	U		0.450	5.00	1	04/24/2015 00:27	WG783006
Chloroform	U		0.320	5.00	1	04/24/2015 00:27	WG783006
Chloromethane	U		0.280	2.50	1	04/24/2015 00:27	WG783006
1,2-Dibromoethane	U		0.380	1.00	1	04/24/2015 00:27	WG783006
1,1-Dichloroethane	U		0.260	1.00	1	04/24/2015 00:27	WG783006
1,2-Dichloroethane	U		0.360	1.00	1	04/24/2015 00:27	WG783006
1,1-Dichloroethene	U		0.400	1.00	1	04/24/2015 00:27	WG783006
cis-1,2-Dichloroethene	1.98		0.260	1.00	1	04/24/2015 00:27	WG783006
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/24/2015 00:27	WG783006
1,2-Dichloropropane	U		0.310	1.00	1	04/24/2015 00:27	WG783006
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 00:27	WG783006
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 00:27	WG783006
Ethylbenzene	4.47		0.380	1.00	1	04/24/2015 00:27	WG783006
Isopropylbenzene	37.6		0.330	1.00	1	04/24/2015 00:27	WG783006
p-Isopropyltoluene	1.31		0.350	1.00	1	04/24/2015 00:27	WG783006
2-Butanone (MEK)	U		3.90	10.0	1	04/24/2015 00:27	WG783006
2-Hexanone	U		3.80	10.0	1	04/24/2015 00:27	WG783006
Methylene Chloride	U		1.00	5.00	1	04/24/2015 00:27	WG783006
4-Methyl-2-pentanone (MIBK)	U	*	2.10	10.0	1	04/24/2015 00:27	WG783006
Methyl tert-butyl ether	869	-	7.30	20.0	20	04/29/2015 05:42	WG785314
Naphthalene	U		1.00	5.00	1	04/24/2015 00:27	WG783006
n-Propylbenzene	23.4		0.350	1.00	1	04/24/2015 00:27	WG783006
Styrene	U		0.310	1.00	1	04/24/2015 00:27	WG783006
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/24/2015 00:27	WG783006
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/24/2015 00:27	WG783006
Tetrachloroethene	U		0.370	1.00	1	04/24/2015 00:27	WG783006
Toluene	2.60	J	0.780	5.00	1	04/24/2015 00:27	WG783006
1,1,1-Trichloroethane	U		0.319	1.00	1	04/24/2015 00:27	WG783006
1,1,2-Trichloroethane	U		0.380	1.00	1	04/24/2015 00:27	WG783006
Trichloroethene	U		0.400	1.00	1	04/24/2015 00:27	WG783006
1,2,4-Trimethylbenzene	1.08		0.370	1.00	1	04/24/2015 00:27	WG783006
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/24/2015 00:27	WG783006
Vinyl chloride	U		0.260	1.00	1	04/24/2015 00:27	WG783006
o-Xylene	U		0.340	1.00	1	04/24/2015 00:27	WG783006
m&p-Xylene	2.91		0.720	1.00	1	04/24/2015 00:27	WG783006
Xylenes, Total	2.91	J	1.10	3.00	1	04/24/2015 00:27	WG783006
(S) Toluene-d8	102			88.5-111		04/24/2015 00:27	WG783006
(S) Dibromofluoromethane	89.0			78.3-121		04/24/2015 00:27	WG783006
(S) 4-Bromofluorobenzene	98.7			71.0-126		04/24/2015 00:27	WG783006





Collected date/time: 04/15/15 12:30

L760094

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) High Fraction	8400		25.0	100	1	04/22/2015 02:28	WG783176
(S) o-Terphenyl	122			50.0-150		04/22/2015 02:28	WG783176

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	1680000		2800	10000	1	04/23/2015 10:13	WG783402

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		200	1000	10	05/04/2015 12:29	WG785021

⁶ Qc⁷ Gl

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	275000		520	10000	10	04/25/2015 00:36	WG784232
Fluoride	1020		9.90	100	1	04/23/2015 22:47	WG784232
Sulfate	359000		770	50000	10	04/25/2015 00:36	WG784232

⁸ Al

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	1.33	J	0.250	2.00	1	04/24/2015 03:55	WG783154
Arsenic,Dissolved	1.34	J	0.250	2.00	1	04/28/2015 14:15	WG783442
Barium	76.2		0.360	5.00	1	04/24/2015 03:55	WG783154
Barium,Dissolved	68.1		0.360	5.00	1	04/28/2015 14:15	WG783442
Calcium	178000		46.0	1000	1	04/24/2015 03:55	WG783154
Chromium	U		0.540	2.00	1	04/24/2015 03:55	WG783154
Chromium,Dissolved	U		0.540	2.00	1	04/28/2015 14:15	WG783442
Iron	35.7	J	15.0	100	1	04/24/2015 03:55	WG783154
Iron,Dissolved	25.5	J	15.0	100	1	04/28/2015 14:15	WG783442
Lead	0.477	J	0.240	2.00	1	04/24/2015 03:55	WG783154
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 14:15	WG783442
Manganese	24.7		0.250	5.00	1	04/24/2015 03:55	WG783154
Manganese,Dissolved	36.8		0.250	5.00	1	04/28/2015 14:15	WG783442
Potassium	655	J	37.0	1000	1	04/24/2015 03:55	WG783154
Selenium	0.381	J	0.380	2.00	1	04/24/2015 03:55	WG783154
Selenium,Dissolved	U		0.380	2.00	1	04/28/2015 14:15	WG783442
Sodium	177000		110	1000	1	04/24/2015 03:55	WG783154

⁹ Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	U		31.0	100	1	04/23/2015 15:05	WG784069
(S) a,a,a-Trifluorotoluene(FID) 93.1				62.0-128		04/23/2015 15:05	WG784069

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	*	10.0	50.0	1	04/24/2015 00:45	WG783006
Benzene	1.48	-	0.330	1.00	1	04/24/2015 00:45	WG783006
Bromodichloromethane	U		0.380	1.00	1	04/24/2015 00:45	WG783006
Bromoform	U		0.470	1.00	1	04/24/2015 00:45	WG783006
Bromomethane	U		0.870	5.00	1	04/24/2015 00:45	WG783006
n-Butylbenzene	U		0.360	1.00	1	04/24/2015 00:45	WG783006
sec-Butylbenzene	2.88		0.360	1.00	1	04/24/2015 00:45	WG783006
Carbon disulfide	1.81		0.280	1.00	1	04/24/2015 00:45	WG783006
Carbon tetrachloride	U		0.380	1.00	1	04/24/2015 00:45	WG783006



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	1 Cp
Chlorobenzene	U		0.350	1.00	1	04/24/2015 00:45	WG783006	2 Tc
Chlorodibromomethane	U		0.330	1.00	1	04/24/2015 00:45	WG783006	3 Ss
Chloroethane	U		0.450	5.00	1	04/24/2015 00:45	WG783006	4 Cn
Chloroform	U		0.320	5.00	1	04/24/2015 00:45	WG783006	5 Sr
Chloromethane	U		0.280	2.50	1	04/24/2015 00:45	WG783006	6 Qc
1,2-Dibromoethane	U		0.380	1.00	1	04/24/2015 00:45	WG783006	7 Gl
1,1-Dichloroethane	U		0.260	1.00	1	04/24/2015 00:45	WG783006	8 Al
1,2-Dichloroethane	U		0.360	1.00	1	04/24/2015 00:45	WG783006	9 Sc
1,1-Dichloroethene	U		0.400	1.00	1	04/24/2015 00:45	WG783006	
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/24/2015 00:45	WG783006	
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/24/2015 00:45	WG783006	
1,2-Dichloropropane	U		0.310	1.00	1	04/24/2015 00:45	WG783006	
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 00:45	WG783006	
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 00:45	WG783006	
Ethylbenzene	U		0.380	1.00	1	04/24/2015 00:45	WG783006	
Isopropylbenzene	7.00		0.330	1.00	1	04/24/2015 00:45	WG783006	
p-Isopropyltoluene	U		0.350	1.00	1	04/24/2015 00:45	WG783006	
2-Butanone (MEK)	U		3.90	10.0	1	04/24/2015 00:45	WG783006	
2-Hexanone	U		3.80	10.0	1	04/24/2015 00:45	WG783006	
Methylene Chloride	U		1.00	5.00	1	04/24/2015 00:45	WG783006	
4-Methyl-2-pentanone (MIBK)	U	*	2.10	10.0	1	04/24/2015 00:45	WG783006	
Methyl tert-butyl ether	U		0.370	1.00	1	04/29/2015 02:28	WG785314	
Naphthalene	U		1.00	5.00	1	04/24/2015 00:45	WG783006	
n-Propylbenzene	U		0.350	1.00	1	04/24/2015 00:45	WG783006	
Styrene	U		0.310	1.00	1	04/24/2015 00:45	WG783006	
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/24/2015 00:45	WG783006	
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/24/2015 00:45	WG783006	
Tetrachloroethene	U		0.370	1.00	1	04/24/2015 00:45	WG783006	
Toluene	U		0.780	5.00	1	04/24/2015 00:45	WG783006	
1,1,1-Trichloroethane	U		0.319	1.00	1	04/24/2015 00:45	WG783006	
1,1,2-Trichloroethane	U		0.380	1.00	1	04/24/2015 00:45	WG783006	
Trichloroethene	U		0.400	1.00	1	04/24/2015 00:45	WG783006	
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/24/2015 00:45	WG783006	
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/24/2015 00:45	WG783006	
Vinyl chloride	U		0.260	1.00	1	04/24/2015 00:45	WG783006	
o-Xylene	U		0.340	1.00	1	04/24/2015 00:45	WG783006	
m&p-Xylene	U		0.720	1.00	1	04/24/2015 00:45	WG783006	
Xylenes, Total	U		1.10	3.00	1	04/24/2015 00:45	WG783006	
(S) Toluene-d8	98.3			88.5-111		04/24/2015 00:45	WG783006	
(S) Dibromofluoromethane	105			78.3-121		04/24/2015 00:45	WG783006	
(S) 4-Bromofluorobenzene	97.8			71.0-126		04/24/2015 00:45	WG783006	

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	7580		25.0	100	1	04/22/2015 02:47	WG783176
(S) o-Terphenyl	110			50.0-150		04/22/2015 02:47	WG783176



Method Blank (MB)

(MB) 04/23/15 10:38

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		2.82	10.0

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L760094-06 Original Sample (OS) • Duplicate (DUP)

(OS) 04/23/15 10:30 • (DUP) 04/23/15 10:50

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1710	1570	1	8.38	*	5

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

(LCS) 04/23/15 10:33 • (LCSD) 04/23/15 10:33

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 %
Dissolved Solids	8800	7830	7890	89.0	89.7	85.0-115			0.763	5

Method Blank (MB)

(MB) 04/23/15 10:07

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		2.82	10.0

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

L760094-07 Original Sample (OS) • Duplicate (DUP)

(OS) 04/23/15 10:09 • (DUP) 04/23/15 10:09

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1650	1620	1	1.84		5

L760097-05 Original Sample (OS) • Duplicate (DUP)

(OS) 04/23/15 10:08 • (DUP) 04/23/15 10:08

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	ND	0.000	1	0.000		5

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

(LCS) 04/23/15 10:21 • (LCSD) 04/23/15 10:21

	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	%	%	%			%	%
Dissolved Solids	8800	8670	8740	98.5	99.3	85.0-115			0.804	5



Method Blank (MB)

(MB) 04/30/15 12:43

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Nitrate-Nitrite	U		0.0197	0.100

L760094-03 Original Sample (OS) • Duplicate (DUP)

(OS) 04/30/15 01:12 • (DUP) 04/30/15 01:13

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Nitrate-Nitrite	ND	ND	1	200		20

L760074-15 Original Sample (OS) • Duplicate (DUP)

(OS) 04/30/15 12:50 • (DUP) 04/30/15 12:51

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Nitrate-Nitrite	2.5	2.5	1	0.00		20

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

(LCS) 04/30/15 12:47 • (LCSD) 04/30/15 12:48

	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	%	%	%			%	%
Nitrate-Nitrite	5.00	5.03	4.62	101	92.4	90.0-110			8.50	20

L760074-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/30/15 12:53 • (MS) 04/30/15 12:54 • (MSD) 04/30/15 12:55

	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	%	%		%			%	%
Nitrate-Nitrite	5.00	2.08	6.81	6.82	94.2	94.4	1	90.0-110			0.147	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 05/04/15 12:13

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Nitrate-Nitrite	U		0.0197	0.100

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L760097-05 Original Sample (OS) • Duplicate (DUP)

(OS) 05/04/15 12:41 • (DUP) 05/04/15 12:42

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Nitrate-Nitrite	ND	ND	1	0.00		20

L760094-11 Original Sample (OS) • Duplicate (DUP)

(OS) 05/04/15 12:21 • (DUP) 05/04/15 12:22

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Nitrate-Nitrite	ND	ND	1	0.00		20

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

(LCS) 05/04/15 12:17 • (LCSD) 05/04/15 12:18

	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	%	%	%			%	%
Nitrate-Nitrite	5.00	5.26	5.31	105	106	90.0-110			0.946	20

L760097-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 05/04/15 12:31 • (MS) 05/04/15 12:33 • (MSD) 05/04/15 12:34

	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	%	%		%			%	%
Nitrate-Nitrite	5.00	ND	5.30	5.29	106	106	1	90.0-110			0.189	20



Method Blank (MB)

(MB) 04/29/15 14:41

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Cyanide	U		0.00180	0.00500

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L760094-09 Original Sample (OS) • Duplicate (DUP)

(OS) 04/29/15 14:56 • (DUP) 04/29/15 14:57

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Cyanide	ND	ND	1	0.00		20

L760094-16 Original Sample (OS) • Duplicate (DUP)

(OS) 04/29/15 15:08 • (DUP) 04/29/15 15:09

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Cyanide	ND	ND	1	0.00		20

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

(LCS) 04/29/15 14:43 • (LCSD) 04/29/15 14:44

	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	%	%	%			%	%
Cyanide	0.100	0.109	0.106	109	106	90.0-110			2.79	20

L760048-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/29/15 15:05 • (MS) 04/29/15 15:06 • (MSD) 04/29/15 15:07

	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	%	%		%			%	%
Cyanide	0.200	ND	0.216	0.204	108	102	1	90.0-110			5.71	20

Method Blank (MB)

(MB) 04/23/15 03:16

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L760082-07 Original Sample (OS) • Duplicate (DUP)

(OS) 04/23/15 14:37 • (DUP) 04/23/15 14:51

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	115	117	2	1		20
Fluoride	0.0693	0.115	2	50	*	20
Sulfate	173	175	2	1		20

L760082-12 Original Sample (OS) • Duplicate (DUP)

(OS) 04/23/15 20:10 • (DUP) 04/23/15 20:24

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	161	163	10	1		20
Fluoride	0.561	0.365	10	42	*	20
Sulfate	281	287	10	2		20

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

(LCS) 04/23/15 03:33 • (LCSD) 04/23/15 03:50

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 %
Chloride	40.0	40.4	40.3	101	101	90-110			0	20
Fluoride	8.00	8.38	8.38	105	105	90-110			0	20
Sulfate	40.0	41.4	41.4	103	103	90-110			0	20



[L760094-01,02,03,04,05,06,07](#)

L760082-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/23/15 17:09 • (MS) 04/23/15 17:23 • (MSD) 04/23/15 17:37

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 %
Chloride	5.00	216	704	724	98	102	10	80-120			3	20
Fluoride	0.500	0.222	38.5	53.1	77	106	10	80-120	F	*	32	20
Sulfate	5.00	311	777	796	93	97	10	80-120			2	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) 04/23/15 19:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

L760094-08 Original Sample (OS) • Duplicate (DUP)

(OS) 04/23/15 20:17 • (DUP) 04/23/15 20:32

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	33.4	33.1	1	1		20
Fluoride	0.328	0.324	1	1		20
Sulfate	41.3	41.2	1	0		20

L760265-01 Original Sample (OS) • Duplicate (DUP)

(OS) 04/24/15 01:16 • (DUP) 04/24/15 01:31

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	0.207	0.210	1	2		20

L760265-01 Original Sample (OS) • Duplicate (DUP)

(OS) 04/25/15 02:51 • (DUP) 04/25/15 03:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1280	1310	20	2		20
Sulfate	922	933	20	1		20

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

(LCS) 04/23/15 19:18 • (LCSD) 04/23/15 19:33

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 %
Chloride	40.0	39.6	39.6	99	99	90-110			0	20
Fluoride	8.00	7.95	7.93	99	99	90-110			0	20



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

(LCS) 04/23/15 19:18 • (LCSD) 04/23/15 19:33

	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	%	%	%			%	%
Sulfate	40.0	40.3	40.4	101	101	90-110			0	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

L760097-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/23/15 23:31 • (MS) 04/23/15 23:46 • (MSD) 04/24/15 00:01

	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	%	%		%			%	%
Fluoride	5.00	1.36	5.75	5.83	88	89	1	80-120			1	20

7 Gl

8 Al

L760097-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/25/15 00:51 • (MS) 04/25/15 01:06 • (MSD) 04/25/15 01:21

	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	%	%		%			%	%
Chloride	5.00	249	737	738	98	98	10	80-120			0	20
Sulfate	5.00	110	612	611	100	100	10	80-120			0	20

9 Sc

Method Blank (MB)

(MB) 04/20/15 17:58

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.000049	0.000200

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

(LCS) 04/20/15 18:01 • (LCSD) 04/20/15 18:04

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 %
Mercury	0.00300	0.00298	0.00283	99	94	80-120			5	20

L760182-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/20/15 18:06 • (MS) 04/20/15 18:09 • (MSD) 04/20/15 18:11

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Mercury	0.00300	0.0000236	0.00277	0.00281	92	93	1	75-125			1	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 04/24/15 02:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200
Barium	0.000813		0.00036	0.00500
Calcium	0.0946		0.046	1.00
Chromium	U		0.00054	0.00200
Iron	U		0.015	0.100
Lead	0.000307		0.00024	0.00200
Manganese	0.000664		0.00025	0.00500
Nickel	0.000564		0.00035	0.00200
Potassium	U		0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	0.151		0.11	1.00
Vanadium	0.000718		0.00018	0.00500

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) 04/24/15 02:51 • (LCSD) 04/24/15 02:53

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 %
Arsenic	0.0500	0.0483	0.0471	97	94	80-120			3	20
Barium	0.0500	0.0522	0.0514	104	103	80-120			1	20
Calcium	5.00	4.93	5.08	99	102	80-120			3	20
Chromium	0.0500	0.0492	0.0495	98	99	80-120			1	20
Iron	5.00	4.77	4.85	95	97	80-120			1	20
Lead	0.0500	0.0513	0.0507	103	101	80-120			1	20
Manganese	0.0500	0.0506	0.0513	101	103	80-120			1	20
Nickel	0.0500	0.0503	0.0517	101	103	80-120			3	20
Potassium	5.00	4.83	4.83	97	97	80-120			0	20
Selenium	0.0500	0.0483	0.0482	97	96	80-120			0	20
Sodium	5.00	5.12	5.10	102	102	80-120			0	20
Vanadium	0.0500	0.0501	0.0505	100	101	80-120			1	20



L760094-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/24/15 02:56 • (MS) 04/24/15 08:15 • (MSD) 04/24/15 08:19

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 %
Arsenic	0.00250	0.00617	0.0429	0.0419	73	71	20	75-125	F	F	2	20
Barium	0.00250	9.36	7.16	7.16	0	0	20	75-125	4	4	0	20
Calcium	0.250	192	153	152	0	0	20	75-125	4	4	1	20
Chromium	0.00250	ND	0.0442	0.0428	88	86	20	75-125			3	20
Potassium	0.250	2.46	6.75	7.10	86	93	20	75-125			5	20
Iron	0.250	0.0614	4.72	4.77	93	94	20	75-125			1	20
Lead	0.00250	0.00231	0.0496	0.0506	95	97	20	75-125			2	20
Manganese	0.00250	0.0125	0.0607	0.0576	96	90	20	75-125			5	20
Nickel	0.00250	0.00281	0.0485	0.0494	91	93	20	75-125			2	20
Selenium	0.00250	0.0607	0.107	0.205	93	289	20	75-125		* F	63	20
Sodium	0.250	6710	5030	5080	0	0	20	75-125	4	4	1	20
Vanadium	0.00250	0.0102	0.0557	0.0575	91	95	20	75-125			3	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 04/30/15 01:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Chromium,Dissolved	U		0.00054	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	U		0.00025	0.00500
Selenium,Dissolved	U		0.00038	0.00200

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) 04/30/15 01:31 • (LCSD) 04/30/15 01:33

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 %
Arsenic,Dissolved	0.0500	0.0484	0.0485	97	97	80-120			0	20
Barium,Dissolved	0.0500	0.0537	0.0534	107	107	80-120			0	20
Chromium,Dissolved	0.0500	0.0506	0.0499	101	100	80-120			1	20
Iron,Dissolved	5.00	4.71	4.64	94	93	80-120			1	20
Lead,Dissolved	0.0500	0.0515	0.0525	103	105	80-120			2	20
Manganese,Dissolved	0.0500	0.0513	0.0517	103	103	80-120			1	20
Selenium,Dissolved	0.0500	0.0504	0.0499	101	100	80-120			1	20

L760074-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/30/15 01:36 • (MS) 04/30/15 01:41 • (MSD) 04/30/15 01:44

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 %
Arsenic,Dissolved	0.0500	0.0930	0.144	0.143	102	100	1	75-125			1	20
Barium,Dissolved	0.0500	0.0202	0.0766	0.0780	113	116	1	75-125			2	20
Chromium,Dissolved	0.0500	ND	0.0479	0.0492	96	98	1	75-125			3	20
Iron,Dissolved	5.00	2.05	6.54	6.56	90	90	1	75-125			0	20
Lead,Dissolved	0.0500	0.0000778	0.0519	0.0527	104	105	1	75-125			2	20
Manganese,Dissolved	0.0500	8.49	8.51	8.51	31	41	1	75-125	4	4	0	20
Selenium,Dissolved	0.0500	0.000414	0.0540	0.0533	107	106	1	75-125			1	20



Method Blank (MB)

(MB) 04/28/15 13:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Chromium,Dissolved	U		0.00054	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	0.0011		0.00025	0.00500
Nickel,Dissolved	0.00087		0.00035	0.00200
Selenium,Dissolved	U		0.00038	0.00200
Vanadium,Dissolved	0.000185		0.00018	0.00500

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) 04/28/15 13:31 • (LCSD) 04/28/15 13:33

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 %
Arsenic,Dissolved	0.0500	0.0484	0.0496	97	99	80-120			3	20
Barium,Dissolved	0.0500	0.0479	0.0503	96	101	80-120			5	20
Chromium,Dissolved	0.0500	0.0499	0.0519	100	104	80-120			4	20
Iron,Dissolved	5.00	4.70	4.97	94	99	80-120			6	20
Lead,Dissolved	0.0500	0.0484	0.0504	97	101	80-120			4	20
Manganese,Dissolved	0.0500	0.0481	0.0506	96	101	80-120			5	20
Nickel,Dissolved	0.0500	0.0503	0.0530	101	106	80-120			5	20
Selenium,Dissolved	0.0500	0.0492	0.0507	98	101	80-120			3	20
Vanadium,Dissolved	0.0500	0.0490	0.0518	98	104	80-120			6	20

L760094-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/28/15 13:36 • (MS) 04/28/15 13:41 • (MSD) 04/28/15 13:43

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 %
Arsenic,Dissolved	0.0500	0.0354	0.0870	0.0880	103	105	1	75-125			1	20
Barium,Dissolved	0.0500	0.857	0.898	0.906	81	98	1	75-125			1	20
Chromium,Dissolved	0.0500	0.000677	0.0487	0.0485	96	96	1	75-125			0	20
Iron,Dissolved	5.00	17.5	21.5	21.7	80	83	1	75-125			1	20
Lead,Dissolved	0.0500	0.00129	0.0514	0.0514	100	100	1	75-125			0	20



L760094-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/28/15 13:36 • (MS) 04/28/15 13:41 • (MSD) 04/28/15 13:43

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 %
Manganese,Dissolved	0.0500	0.284	0.324	0.327	81	86	1	75-125			1	20
Nickel,Dissolved	0.0500	0.00214	0.0480	0.0491	92	94	1	75-125			2	20
Selenium,Dissolved	0.0500	0.000265	0.0499	0.0502	99	100	1	75-125			1	20
Vanadium,Dissolved	0.0500	0.0244	0.0727	0.0726	97	97	1	75-125			0	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 04/24/15 17:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	101			62.0-128

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) 04/24/15 15:39 • (LCSD) 04/24/15 16:00

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 %
TPH (GC/FID) Low Fraction	5.50	5.90	6.14	107	112	67.0-132			3.93	20
(S) a,a,a-Trifluorotoluene(FID)				98.7	98.8	62.0-128				

L760074-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/24/15 17:46 • (MS) 04/24/15 16:22 • (MSD) 04/24/15 16:43

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 %
TPH (GC/FID) Low Fraction	5.50	1.90	7.60	7.49	104	102	1	50.0-143			1.39	20
(S) a,a,a-Trifluorotoluene(FID)					98.1	97.0		62.0-128				



Method Blank (MB)

(MB) 04/20/15 10:20

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	96.5			62.0-128

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) 04/20/15 07:44 • (LCSD) 04/20/15 08:06

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 %
TPH (GC/FID) Low Fraction	5.50	4.77	4.96	86.7	90.3	67.0-132			3.98	20
(S) a,a,a-Trifluorotoluene(FID)				98.2	98.3	62.0-128				

L760094-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/20/15 16:26 • (MS) 04/20/15 15:20 • (MSD) 04/20/15 15:42

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 %
TPH (GC/FID) Low Fraction	5.50	0.878	4.83	5.17	71.9	78.0	1	50.0-143			6.69	20
(S) a,a,a-Trifluorotoluene(FID)					95.4	94.4		62.0-128				



Method Blank (MB)

(MB) 04/22/15 07:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	95.3			62.0-128

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) 04/22/15 05:36 • (LCSD) 04/22/15 06:02

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 %
TPH (GC/FID) Low Fraction	5.50	4.99	4.96	90.7	90.1	67.0-132			0.610	20
(S) a,a,a-Trifluorotoluene(FID)				102	103	62.0-128				

L760169-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/22/15 08:26 • (MS) 04/22/15 06:38 • (MSD) 04/22/15 07:03

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 %
TPH (GC/FID) Low Fraction	5.50	ND	5.09	5.09	92.6	92.5	1	50.0-143			0.110	20
(S) a,a,a-Trifluorotoluene(FID)					103	103		62.0-128				



Method Blank (MB)

(MB) 04/23/15 12:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	93.0			62.0-128

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) 04/23/15 10:04 • (LCSD) 04/23/15 10:26

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 %
TPH (GC/FID) Low Fraction	5.50	4.10	4.20	74.5	76.4	67.0-132			2.50	20
(S) a,a,a-Trifluorotoluene(FID)				97.6	97.3	62.0-128				

L760264-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/23/15 13:01 • (MS) 04/23/15 11:04 • (MSD) 04/23/15 11:30

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 %
TPH (GC/FID) Low Fraction	5.50	ND	4.38	4.12	79.6	74.9	1	50.0-143			6.06	20
(S) a,a,a-Trifluorotoluene(FID)					98.1	98.1		62.0-128				



Method Blank (MB)

(MB) 04/29/15 14:27

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	98.4			62.0-128

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) 04/29/15 12:18 • (LCSD) 04/29/15 12:43

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 %
TPH (GC/FID) Low Fraction	5.50	5.04	4.99	91.6	90.7	67.0-132			0.890	20
(S) a,a,a-Trifluorotoluene(FID)				105	109	62.0-128				

L761996-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/29/15 14:52 • (MS) 04/29/15 15:17 • (MSD) 04/29/15 15:41

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 %
TPH (GC/FID) Low Fraction	5.50	ND	5.77	5.92	105	108	1	50.0-143			2.46	20
(S) a,a,a-Trifluorotoluene(FID)					110	111		62.0-128				

Method Blank (MB)

(MB) 04/29/15 21:12

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	100			62.0-128

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) 04/29/15 18:58 • (LCSD) 04/29/15 19:22

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	6.09	6.01	111	109	67.0-132			1.30	20
(S) a,a,a-Trifluorotoluene(FID)				100	99.1	62.0-128				

L761704-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/29/15 22:03 • (MS) 04/29/15 19:46 • (MSD) 04/29/15 20:24

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TPH (GC/FID) Low Fraction	5.50	0.169	5.98	5.90	106	104	1	50.0-143			1.31	20
(S) a,a,a-Trifluorotoluene(FID)					99.9	100		62.0-128				



Method Blank (MB)

(MB) 04/23/15 10:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	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
Carbon disulfide	U		0.000275	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
1,2-Dibromoethane	U		0.000381	0.00100
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
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) 04/23/15 10:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000780	0.00500
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	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
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00100
(S) Toluene-d8	104			88.5-111
(S) Dibromofluoromethane	101			78.3-121
(S) 4-Bromofluorobenzene	102			71.0-126

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) 04/23/15 09:51 • (LCSD) 04/23/15 10:10

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 %
Acetone	0.125	0.197	0.179	158	143	35.6-163			9.88	23.9
Benzene	0.0250	0.0254	0.0230	102	91.9	74.8-121			10.0	20
Bromodichloromethane	0.0250	0.0267	0.0244	107	97.6	75.1-116			9.02	20
Bromoform	0.0250	0.0278	0.0262	111	105	67.5-130			6.04	20
Bromomethane	0.0250	0.0221	0.0191	88.4	76.3	49.9-162			14.7	20
n-Butylbenzene	0.0250	0.0256	0.0232	102	93.0	76.2-126			9.66	20
sec-Butylbenzene	0.0250	0.0276	0.0248	110	99.0	74.4-127			10.9	20
Carbon disulfide	0.0250	0.0251	0.0209	100	83.8	64.6-140			17.9	20
Carbon tetrachloride	0.0250	0.0263	0.0237	105	94.7	70.2-123			10.5	20
Chlorobenzene	0.0250	0.0271	0.0248	109	99.3	78.1-119			8.89	20
Chlorodibromomethane	0.0250	0.0275	0.0261	110	104	74.0-121			5.22	20
Chloroethane	0.0250	0.0213	0.0187	85.0	74.7	61.7-135			12.9	20
Chloroform	0.0250	0.0267	0.0240	107	95.8	76.0-121			10.7	20
Chloromethane	0.0250	0.0254	0.0219	102	87.5	61.5-129			15.1	20
1,2-Dibromoethane	0.0250	0.0262	0.0241	105	96.3	76.6-121			8.27	20
1,1-Dichloroethane	0.0250	0.0258	0.0236	103	94.4	70.7-126			8.72	20

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

(LCS) 04/23/15 09:51 • (LCSD) 04/23/15 10:10

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 %
1,2-Dichloroethane	0.0250	0.0265	0.0241	106	96.6	68.8-124			9.22	20
1,1-Dichloroethene	0.0250	0.0251	0.0219	100	87.7	67.8-129			13.4	20
cis-1,2-Dichloroethene	0.0250	0.0258	0.0239	103	95.5	76.0-119			7.89	20
trans-1,2-Dichloroethene	0.0250	0.0245	0.0224	98.1	89.6	72.6-121			9.14	20
1,2-Dichloropropane	0.0250	0.0259	0.0234	103	93.8	76.5-119			9.87	20
cis-1,3-Dichloropropene	0.0250	0.0272	0.0242	109	96.9	78.2-120			11.4	20
trans-1,3-Dichloropropene	0.0250	0.0280	0.0248	112	99.3	74.3-123			11.8	20
Ethylbenzene	0.0250	0.0258	0.0237	103	95.0	78.8-122			8.41	20
2-Hexanone	0.125	0.141	0.127	113	102	65.6-144			10.7	20
Isopropylbenzene	0.0250	0.0266	0.0244	106	97.6	78.6-132			8.65	20
p-Isopropyltoluene	0.0250	0.0272	0.0244	109	97.8	74.0-131			10.8	20
2-Butanone (MEK)	0.125	0.143	0.134	115	107	55.0-149			6.77	20
Methylene Chloride	0.0250	0.0234	0.0217	93.6	86.6	70.3-120			7.72	20
4-Methyl-2-pentanone (MIBK)	0.125	0.133	0.120	107	96.0	70.5-133			10.5	20
Methyl tert-butyl ether	0.0250	0.0244	0.0225	97.7	90.2	71.2-126			8.02	20
Naphthalene	0.0250	0.0255	0.0240	102	96.0	68.4-128			6.29	20
n-Propylbenzene	0.0250	0.0263	0.0242	105	96.7	78.2-122			8.43	20
Styrene	0.0250	0.0262	0.0244	105	97.5	80.4-126			7.35	20
1,1,1,2-Tetrachloroethane	0.0250	0.0278	0.0253	111	101	74.2-124			9.26	20
1,1,2,2-Tetrachloroethane	0.0250	0.0265	0.0247	106	98.8	70.7-122			7.21	20
Tetrachloroethene	0.0250	0.0269	0.0246	108	98.2	72.6-126			9.29	20
Toluene	0.0250	0.0258	0.0232	103	92.9	79.7-116			10.7	20
1,1,1-Trichloroethane	0.0250	0.0270	0.0234	108	93.8	73.2-123			14.2	20
1,1,2-Trichloroethane	0.0250	0.0269	0.0250	107	99.8	77.7-118			7.34	20
Trichloroethene	0.0250	0.0271	0.0243	108	97.2	77.7-118			10.9	20
1,2,4-Trimethylbenzene	0.0250	0.0264	0.0242	106	96.7	75.0-123			8.93	20
1,3,5-Trimethylbenzene	0.0250	0.0265	0.0244	106	97.6	75.6-124			8.30	20
Vinyl chloride	0.0250	0.0236	0.0209	94.6	83.7	65.9-128			12.2	20
Xylenes, Total	0.0750	0.0776	0.0718	103	95.8	78.7-121			7.76	20
o-Xylene	0.0250	0.0260	0.0245	104	97.9	77.6-122			6.21	20
m&p-Xylenes	0.0500	0.0516	0.0474	103	94.7	78.8-121			8.56	20
(S) Toluene-d8				102	104	88.5-111				
(S) Dibromofluoromethane				96.2	96.6	78.3-121				
(S) 4-Bromofluorobenzene				99.5	102	71.0-126				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) 04/23/15 17:39

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	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
Carbon disulfide	U		0.000275	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
1,2-Dibromoethane	U		0.000381	0.00100
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
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
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

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



Method Blank (MB)

(MB) 04/23/15 17:39

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000780	0.00500
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	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
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00100
(S) Toluene-d8	104			88.5-111
(S) Dibromofluoromethane	103			78.3-121
(S) 4-Bromofluorobenzene	91.4			71.0-126

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) 04/23/15 16:28 • (LCSD) 04/23/15 18:19

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 %
Acetone	0.125	0.206	0.195	165	156	35.6-163	*		5.67	23.9
Benzene	0.0250	0.0269	0.0266	108	107	74.8-121			1.00	20
Bromodichloromethane	0.0250	0.0269	0.0257	108	103	75.1-116			4.59	20
Bromoform	0.0250	0.0268	0.0259	107	104	67.5-130			3.32	20
Bromomethane	0.0250	0.0215	0.0222	86.0	88.7	49.9-162			3.15	20
n-Butylbenzene	0.0250	0.0254	0.0260	102	104	76.2-126			2.34	20
sec-Butylbenzene	0.0250	0.0263	0.0264	105	105	74.4-127			0.150	20
Carbon disulfide	0.0250	0.0240	0.0276	96.1	111	64.6-140			14.0	20
Carbon tetrachloride	0.0250	0.0234	0.0250	93.7	99.9	70.2-123			6.33	20
Chlorobenzene	0.0250	0.0281	0.0275	113	110	78.1-119			2.37	20
Chlorodibromomethane	0.0250	0.0265	0.0259	106	104	74.0-121			2.40	20
Chloroethane	0.0250	0.0233	0.0232	93.4	93.0	61.7-135			0.400	20
Chloroform	0.0250	0.0255	0.0247	102	98.7	76.0-121			3.23	20
Chloromethane	0.0250	0.0257	0.0277	103	111	61.5-129			7.14	20
1,2-Dibromoethane	0.0250	0.0260	0.0255	104	102	76.6-121			2.22	20
1,1-Dichloroethane	0.0250	0.0276	0.0272	110	109	70.7-126			1.33	20

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

(LCS) 04/23/15 16:28 • (LCSD) 04/23/15 18:19

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 %
1,2-Dichloroethane	0.0250	0.0260	0.0258	104	103	68.8-124			0.700	20
1,1-Dichloroethene	0.0250	0.0270	0.0268	108	107	67.8-129			0.850	20
cis-1,2-Dichloroethene	0.0250	0.0274	0.0257	110	103	76.0-119			6.43	20
trans-1,2-Dichloroethene	0.0250	0.0267	0.0259	107	104	72.6-121			3.14	20
1,2-Dichloropropane	0.0250	0.0283	0.0282	113	113	76.5-119			0.390	20
cis-1,3-Dichloropropene	0.0250	0.0276	0.0267	111	107	78.2-120			3.56	20
trans-1,3-Dichloropropene	0.0250	0.0274	0.0268	110	107	74.3-123			2.20	20
Ethylbenzene	0.0250	0.0262	0.0253	105	101	78.8-122			3.40	20
2-Hexanone	0.125	0.163	0.155	130	124	65.6-144			4.80	20
Isopropylbenzene	0.0250	0.0256	0.0247	102	98.9	78.6-132			3.54	20
p-Isopropyltoluene	0.0250	0.0269	0.0270	108	108	74.0-131			0.360	20
2-Butanone (MEK)	0.125	0.187	0.176	149	141	55.0-149			5.71	20
Methylene Chloride	0.0250	0.0276	0.0258	110	103	70.3-120			6.53	20
4-Methyl-2-pentanone (MIBK)	0.125	0.169	0.156	135	125	70.5-133	*		7.90	20
Methyl tert-butyl ether	0.0250	0.0306	0.0282	122	113	71.2-126			8.23	20
Naphthalene	0.0250	0.0254	0.0244	101	97.6	68.4-128			3.85	20
n-Propylbenzene	0.0250	0.0261	0.0254	105	102	78.2-122			2.73	20
Styrene	0.0250	0.0273	0.0264	109	106	80.4-126			3.36	20
1,1,1,2-Tetrachloroethane	0.0250	0.0273	0.0261	109	104	74.2-124			4.27	20
1,1,2,2-Tetrachloroethane	0.0250	0.0271	0.0276	108	110	70.7-122			1.65	20
Tetrachloroethene	0.0250	0.0266	0.0263	106	105	72.6-126			1.10	20
Toluene	0.0250	0.0261	0.0257	104	103	79.7-116			1.70	20
1,1,1-Trichloroethane	0.0250	0.0253	0.0237	101	94.6	73.2-123			6.63	20
1,1,2-Trichloroethane	0.0250	0.0252	0.0246	101	98.2	77.7-118			2.74	20
Trichloroethene	0.0250	0.0266	0.0260	106	104	77.7-118			2.38	20
1,2,4-Trimethylbenzene	0.0250	0.0256	0.0262	102	105	75.0-123			2.29	20
1,3,5-Trimethylbenzene	0.0250	0.0261	0.0264	104	106	75.6-124			1.26	20
Vinyl chloride	0.0250	0.0264	0.0271	106	108	65.9-128			2.53	20
Xylenes, Total	0.0750	0.0769	0.0748	103	99.7	78.7-121			2.77	20
o-Xylene	0.0250	0.0258	0.0251	103	101	77.6-122			2.49	20
m&p-Xylenes	0.0500	0.0511	0.0497	102	99.3	78.8-121			2.92	20
(S) Toluene-d8				102	100	88.5-111				
(S) Dibromofluoromethane				99.3	97.9	78.3-121				
(S) 4-Bromofluorobenzene				95.2	95.0	71.0-126				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L760097-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/23/15 19:30 • (MS) 04/23/15 18:37 • (MSD) 04/23/15 18:55

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 %
Acetone	0.125	0.00402	0.125	0.112	96.9	86.3	1	10.0-130			11.2	27.9
Benzene	0.0250	0.00105	0.0249	0.0255	95.3	97.7	1	54.3-133			2.39	20
Bromodichloromethane	0.0250	ND	0.0256	0.0241	102	96.5	1	63.9-121			5.90	20
Bromoform	0.0250	ND	0.0243	0.0249	97.3	99.6	1	59.5-134			2.33	20.5
Bromomethane	0.0250	ND	0.0173	0.0160	69.1	63.9	1	41.7-155			7.91	21.9
n-Butylbenzene	0.0250	ND	0.0254	0.0253	101	101	1	62.7-140			0.120	20.3
sec-Butylbenzene	0.0250	ND	0.0231	0.0248	92.6	99.2	1	62.2-136			6.96	20.3
Carbon disulfide	0.0250	ND	0.0200	0.0189	80.1	75.5	1	43.3-149			5.95	20.3
Carbon tetrachloride	0.0250	ND	0.0230	0.0233	92.0	93.2	1	55.7-134			1.28	20
Chlorobenzene	0.0250	ND	0.0249	0.0265	99.7	106	1	67.0-125			6.26	20
Chlorodibromomethane	0.0250	ND	0.0242	0.0250	96.9	100	1	64.3-125			3.37	20.8
Chloroethane	0.0250	ND	0.0198	0.0185	79.1	74.2	1	51.5-136			6.52	40
Chloroform	0.0250	ND	0.0230	0.0228	92.2	91.2	1	63.0-129			1.06	20
Chloromethane	0.0250	ND	0.0219	0.0202	87.7	80.8	1	42.4-135			8.15	20
1,2-Dibromoethane	0.0250	ND	0.0234	0.0244	93.5	97.4	1	67.1-125			4.17	20
1,1-Dichloroethane	0.0250	ND	0.0256	0.0251	102	100	1	58.5-132			1.95	20
1,2-Dichloroethane	0.0250	ND	0.0245	0.0234	98.2	93.7	1	60.0-126			4.64	20
1,1-Dichloroethene	0.0250	ND	0.0235	0.0220	93.8	87.9	1	51.1-140			6.48	20.2
cis-1,2-Dichloroethene	0.0250	ND	0.0235	0.0236	93.8	94.6	1	59.2-129			0.830	20
trans-1,2-Dichloroethene	0.0250	ND	0.0228	0.0222	91.0	88.8	1	56.5-129			2.52	20
1,2-Dichloropropane	0.0250	ND	0.0267	0.0263	107	105	1	64.2-123			1.39	20
cis-1,3-Dichloropropene	0.0250	ND	0.0253	0.0233	101	93.1	1	66.4-125			8.29	20
trans-1,3-Dichloropropene	0.0250	ND	0.0264	0.0232	106	93.0	1	64.1-128			12.8	20
Ethylbenzene	0.0250	ND	0.0231	0.0244	92.3	97.6	1	61.4-133			5.56	20
2-Hexanone	0.125	ND	0.136	0.131	109	105	1	43.3-137			3.47	25.5
Isopropylbenzene	0.0250	ND	0.0227	0.0242	90.8	96.8	1	66.8-141			6.39	20
p-Isopropyltoluene	0.0250	ND	0.0238	0.0254	95.2	102	1	63.2-139			6.44	20.4
2-Butanone (MEK)	0.125	ND	0.148	0.134	119	107	1	22.4-138			10.2	27
Methylene Chloride	0.0250	ND	0.0238	0.0228	95.2	91.0	1	58.1-122			4.47	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.168	0.149	134	119	1	60.8-140			11.8	25.1
Methyl tert-butyl ether	0.0250	0.000806	0.0272	0.0267	106	104	1	57.7-134			1.74	20
Naphthalene	0.0250	0.000393	0.0270	0.0264	106	104	1	58.0-135			2.32	25.5
n-Propylbenzene	0.0250	ND	0.0229	0.0244	91.5	97.7	1	65.9-131			6.55	20
Styrene	0.0250	ND	0.0233	0.0244	93.1	97.6	1	66.8-133			4.75	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0234	0.0250	93.5	100	1	64.0-128			6.81	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0259	0.0259	103	104	1	56.0-132			0.230	22.2

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



L760097-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/23/15 19:30 • (MS) 04/23/15 18:37 • (MSD) 04/23/15 18:55

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 %
Tetrachloroethene	0.0250	ND	0.0230	0.0239	92.1	95.5	1	53.0-139			3.56	20
Toluene	0.0250	ND	0.0244	0.0233	97.4	93.3	1	61.4-130			4.29	20
1,1,1-Trichloroethane	0.0250	ND	0.0220	0.0219	88.0	87.6	1	58.7-134			0.460	20
1,1,2-Trichloroethane	0.0250	ND	0.0231	0.0239	92.3	95.7	1	66.3-125			3.63	20
Trichloroethene	0.0250	ND	0.0234	0.0234	93.7	93.6	1	44.1-149			0.0900	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0229	0.0246	91.8	98.3	1	57.4-137			6.83	20
1,3,5-Trimethylbenzene	0.0250	ND	0.0232	0.0246	92.8	98.4	1	63.6-132			5.85	20.5
Vinyl chloride	0.0250	ND	0.0225	0.0210	90.2	84.1	1	47.8-137			6.91	20
Xylenes, Total	0.0750	ND	0.0677	0.0721	90.2	96.1	1	63.3-131			6.33	20
o-Xylene	0.0250	ND	0.0226	0.0236	90.3	94.4	1	63.3-130			4.38	20
m&p-Xylenes	0.0500	ND	0.0451	0.0485	90.1	97.0	1	61.7-133			7.29	20
(S) Toluene-d8					105	102		88.5-111				
(S) Dibromofluoromethane					99.2	100		78.3-121				
(S) 4-Bromofluorobenzene					90.0	95.0		71.0-126				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc



Method Blank (MB)

(MB) 04/29/15 00:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000331	0.00100
Methyl tert-butyl ether	U		0.000367	0.00100
Toluene	U		0.000780	0.00500

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

(LCS) 04/28/15 23:03 • (LCSD) 04/28/15 23:23

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 %
Benzene	0.0250	0.0246	0.0235	98.2	94.0	74.8-121			4.37	20
Methyl tert-butyl ether	0.0250	0.0269	0.0252	108	101	71.2-126			6.46	20
Toluene	0.0250	0.0244	0.0263	97.6	105	79.7-116			7.44	20

L760094-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/29/15 02:28 • (MS) 04/29/15 01:10 • (MSD) 04/29/15 01:29

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 %
Benzene	0.0500	0.000515	0.0446	0.0451	88.1	90.1	1	54.3-133			1.07	20
Methyl tert-butyl ether	0.0500	ND	0.0497	0.0481	99.4	96.3	1	57.7-134			3.25	20
Toluene	0.0500	ND	0.0453	0.0463	90.6	92.6	1	61.4-130			2.24	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 04/29/15 17:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	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
Carbon disulfide	U		0.000275	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
1,2-Dibromoethane	U		0.000381	0.00100
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
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) 04/29/15 17:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000780	0.00500
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	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
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00100
(S) Toluene-d8	98.7			88.5-111
(S) Dibromofluoromethane	91.0			78.3-121
(S) 4-Bromofluorobenzene	97.6			71.0-126

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) 04/29/15 16:13 • (LCSD) 04/29/15 16:34

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 %
Acetone	0.125	0.144	0.121	115	96.8	35.6-163			17.4	23.9
Benzene	0.0250	0.0225	0.0195	89.9	78.0	74.8-121			14.1	20
Bromodichloromethane	0.0250	0.0250	0.0213	99.9	85.4	75.1-116			15.7	20
Bromoform	0.0250	0.0286	0.0246	115	98.3	67.5-130			15.2	20
Bromomethane	0.0250	0.0251	0.0213	100	85.0	49.9-162			16.4	20
n-Butylbenzene	0.0250	0.0251	0.0214	100	85.7	76.2-126			15.9	20
sec-Butylbenzene	0.0250	0.0244	0.0215	97.6	85.8	74.4-127			12.8	20
Carbon disulfide	0.0250	0.0248	0.0210	99.0	84.1	64.6-140			16.3	20
Carbon tetrachloride	0.0250	0.0252	0.0222	101	89.0	70.2-123			12.5	20
Chlorobenzene	0.0250	0.0257	0.0220	103	88.1	78.1-119			15.4	20
Chlorodibromomethane	0.0250	0.0269	0.0239	107	95.8	74.0-121			11.4	20
Chloroethane	0.0250	0.0231	0.0198	92.3	79.2	61.7-135			15.3	20
Chloroform	0.0250	0.0227	0.0189	90.8	75.8	76.0-121		*	18.0	20
Chloromethane	0.0250	0.0196	0.0171	78.3	68.2	61.5-129		-	13.7	20
1,2-Dibromoethane	0.0250	0.0251	0.0216	100	86.2	76.6-121			15.1	20
1,1-Dichloroethane	0.0250	0.0234	0.0197	93.5	78.8	70.7-126			17.0	20

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

(LCS) 04/29/15 16:13 • (LCSD) 04/29/15 16:34

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 %
1,2-Dichloroethane	0.0250	0.0238	0.0204	95.2	81.7	68.8-124			15.3	20
1,1-Dichloroethene	0.0250	0.0247	0.0209	98.9	83.7	67.8-129			16.7	20
cis-1,2-Dichloroethene	0.0250	0.0231	0.0197	92.5	78.8	76.0-119			16.1	20
trans-1,2-Dichloroethene	0.0250	0.0236	0.0202	94.6	80.7	72.6-121			15.8	20
1,2-Dichloropropane	0.0250	0.0243	0.0210	97.3	83.9	76.5-119			14.8	20
cis-1,3-Dichloropropene	0.0250	0.0250	0.0216	99.9	86.6	78.2-120			14.3	20
trans-1,3-Dichloropropene	0.0250	0.0239	0.0214	95.6	85.6	74.3-123			11.1	20
Ethylbenzene	0.0250	0.0258	0.0218	103	87.4	78.8-122			16.8	20
2-Hexanone	0.125	0.138	0.116	110	92.8	65.6-144			17.3	20
Isopropylbenzene	0.0250	0.0253	0.0218	101	87.2	78.6-132			14.7	20
p-Isopropyltoluene	0.0250	0.0255	0.0219	102	87.8	74.0-131			15.0	20
2-Butanone (MEK)	0.125	0.136	0.118	109	94.5	55.0-149			13.9	20
Methylene Chloride	0.0250	0.0222	0.0193	88.9	77.1	70.3-120			14.3	20
4-Methyl-2-pentanone (MIBK)	0.125	0.126	0.111	101	88.8	70.5-133			12.8	20
Methyl tert-butyl ether	0.0250	0.0224	0.0199	89.4	79.5	71.2-126			11.8	20
Naphthalene	0.0250	0.0224	0.0196	89.7	78.5	68.4-128			13.3	20
n-Propylbenzene	0.0250	0.0249	0.0214	99.8	85.7	78.2-122			15.2	20
Styrene	0.0250	0.0215	0.0199	86.0	79.5	80.4-126		*	7.92	20
1,1,1,2-Tetrachloroethane	0.0250	0.0273	0.0238	109	95.2	74.2-124			13.7	20
1,1,2,2-Tetrachloroethane	0.0250	0.0240	0.0212	96.2	84.8	70.7-122			12.6	20
Tetrachloroethene	0.0250	0.0276	0.0239	111	95.7	72.6-126			14.4	20
Toluene	0.0250	0.0249	0.0203	99.5	81.2	79.7-116		*	20.3	20
1,1,1-Trichloroethane	0.0250	0.0247	0.0213	98.6	85.4	73.2-123			14.4	20
1,1,2-Trichloroethane	0.0250	0.0245	0.0219	98.0	87.4	77.7-118			11.4	20
Trichloroethene	0.0250	0.0244	0.0211	97.4	84.5	77.7-118			14.2	20
1,2,4-Trimethylbenzene	0.0250	0.0246	0.0209	98.5	83.4	75.0-123			16.6	20
1,3,5-Trimethylbenzene	0.0250	0.0245	0.0209	97.8	83.4	75.6-124			15.9	20
Vinyl chloride	0.0250	0.0221	0.0190	88.5	76.1	65.9-128			15.1	20
Xylenes, Total	0.0750	0.0758	0.0656	101	87.4	78.7-121			14.6	20
o-Xylene	0.0250	0.0251	0.0216	101	86.2	77.6-122			15.4	20
m&p-Xylenes	0.0500	0.0507	0.0440	101	88.0	78.8-121			14.2	20
(S) Toluene-d8				98.2	97.9	88.5-111				
(S) Dibromofluoromethane				93.5	93.0	78.3-121				
(S) 4-Bromofluorobenzene				97.8	96.4	71.0-126				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) 04/21/15 14:17

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	110			50.0-150

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
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.
(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.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
4	The sample concentration was greater than 4 times the spike value.
*	LCS/LCSD recovery outside the control limit or RPD value outside the control limit.
F	The MS/MSD recovery outside the control limit.
J	Estimated value.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
X	Surrogate recovery outside the control limit.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

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**.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

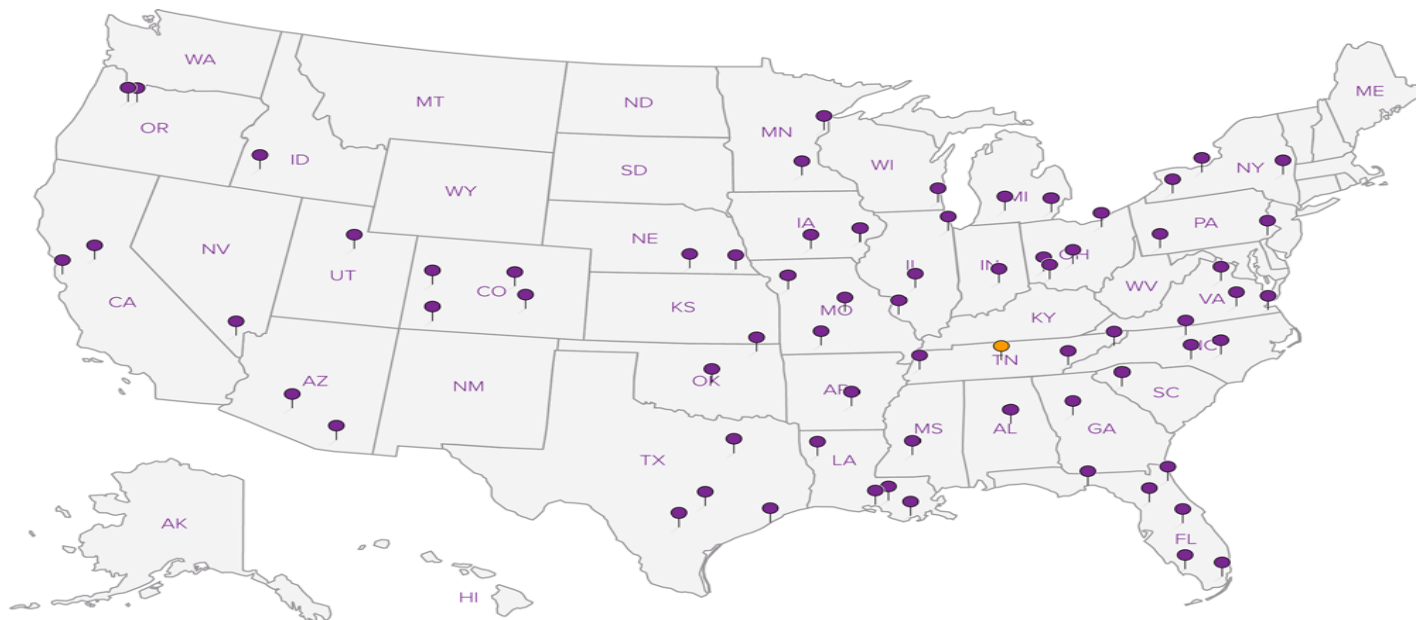
¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
Canada	1461.01	DOD	1461.01
EPA–Crypto	TN00003	USDA	S-67674

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.**



ARCADIS, Inc. 2929 Briarpark Drive, Suite 300 Houston, TX 77042				Billing Information:				Analysis / Container / Preservative												Chain of Custody Page <u>1</u> of <u>20</u>		
				Report to: Pam Krueger Email To: pam.krueger@arcadis-us.com; maisha.turner@arcadis-us.com; melissa.caborn@arcadis-us.com				DRO 8015 GRO 8015 Volatiles 8260 (Extended List) Total Metals: As, Ba, Cr, Fe, Pb, Mn, Se Total Metals: As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V, Hg Total Metals: (FFiltered) As, Ba, Cr, Fe, Pb, Mn, Se Dis Metals: (FFiltered) As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V Cyanide Anions: Chloride, Fluoride, Sulfate Cations: Ca, K, Na (from Total Metals container) NO2 / NO3 TDS												 YOUR LAB OF CHOICE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 		
Project Navajo Refining Company				City/State Artesia, NM Collected:																L# <u>L760094</u>		
Phone: 713-953-4816		Fax: 713-977-4620		REST TX000836.0007.15006		Lab Project # ARCADHTX-NAVAJO FULL														K172		
Collected by (print): Scott Ude + HM1		Site/Facility ID #		P.O. #														Tablet				
Collected by (signature): Scott Ude		Rush? (Lab MUST Be Notified)		Date Results Needed														Acctnum: ARCADHTX				
Immediately Iced? N <u>Y</u> ☒		Next Day100% Two Day50% Three Day25%		Email? <u>No</u> ☐ <u>Yes</u> ☐ FAX? <u>No</u> ☐ <u>Yes</u> ☐														Template: T101472				
																		Prelogin:				
																		TSR: Pam Langford				
																		PB:				
																		Shipped Via:				
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntr													Remarks/Comments		Sample # (lab only)
MW-103	G	GW		4/15/15	905	12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		-01		
MW-104				↓	955	12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		-02		
MW-64							✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	NO SAMPLE (WAPL)			
MW-65				4/15/15	1140	12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		-03		
RW-5R					1255	10	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		-04		
MW-102					1350	12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		-05		
RW-4					1530	10	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		-06		
RW-6					1435	10	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		-07		
MW-99					1610	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		-08		
MW-66	↓	↓		↓	1715	13	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		-09		

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other				pH _____ Temp _____ Flow _____ Other _____				Hold # _____			
Remarks:											
Relinquished by : (Signature) Scott Ude	Date: 4/16/15	Time: 0800	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____				Condition: (lab use only) TDI			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.50 °C 197				COC Seal Intact: ☒ Y ☐ N ☐ NA			
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/17/15 0900				pH Checked: <2 >12 NCF: X			

ARCADIS, Inc.
2929 Briarpark Drive,
Suite 300
Houston, TX 77042

Billing Information:

Report to: Pam Krueger

Email To: pam.krueger@arcadis-us.com;
 maisha.turner@arcadis-us.com;
 melissa.nashome@arcadis-us.com

Project Navajo Refining Company

City/State Artesia, NM
 Collected:

Phone: 713-953-4816
 Fax: 713-977-4620

Lab Project # ARCADHTX-
 NAVAJO FULL

Collected by (print): Cameron Haber + HMI Team

Site/Facility ID # P.O. #

Collected by (signature): Scott Ude

Rush? (Lab MUST Be Notified)
 Next Day100%
 Two Day50%
 Three Day25%

Immediately Iced?
 N ___ Y ☒

Date Results Needed
 Email? ___ No ___ Yes
 FAX? ___ No ___ Yes

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntr
MW-50	G	GW		4/15/15	845	10
MW-97						
MW-92						
RW-1						
MW-91				4/15/15	940	12
MW-90				↓	1040	12
MW-96				↓	1135	12
MW-94						
RW-8						
MW-67	↓	↓		4/15/15	1230	13

Analysis / Container / Preservative														
DRO 8015	GRO 8015	Volatiles: 8260 (Extended List)	Total Metals: As, Ba, Cr, Fe, Pb, Mn, Se	Total Metals: As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V, Hg	Dis Metals: (FFiltered) As, Ba, Cr, Fe, Pb, Mn, Se	Dis Metals: (FFiltered) As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V	Cyanide	Anions: Chloride, Fluoride, Sulfate	Cations: Ca, K, Na (from Total Metals container)	NO2 / NO3	TDS			
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Chain of Custody Page 3 of 20



YOUR LAB OF CHOICE

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



L# L760094

Table #

Acctnum: ARCADHTX

Template: T101479

Prelogin:

TSR: Pam Langford

PB:

Shipped Via:	Remarks/Comments	Sample # (lab only)
		-12
	NO SAMPLE (LWAPL)	
	NO SAMPLE (LWAPL)	
	SW	
		-13
		-14
		-15
	NO SAMPLE (LWAPL)	
	SW	
		-16

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

pH _____ Temp _____
 Flow _____ Other _____

Hold #

Relinquished by: (Signature) Scott Ude	Date: 4/16/15	Time: 0800	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS
☒ FedEx ☐ Courier ☐ _____

Temp: 83°C 197

Date: 4/17/15 0900

Condition: (lab use only) T01

COC Seal Intact: ☒ Y ☐ N ☐ NA

pH Checked: <2, >12

NCF: >

ARCADIS, Inc. 2929 Briarpark Drive, Suite 300 Houston, TX 77042				Billing Information: 				Analysis / Container / Preservative												Chain of Custody Page 4 of 20 L.A.B S.C.I.E.N.C.E.S YOUR LAB OF CHOICE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 																	
Report to: Pam Krueger				Email To: pam.krueger@arcadis-us.com; maisha.turner@arcadis-us.com; melissa.osborne@arcadis-us.com				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">DRO 8015</td> <td style="width: 10%;">GRO 8015</td> <td style="width: 10%;">Volatiles 8260 (Extended List)</td> <td style="width: 10%;">Total Metals: As, Ba, Cr, Fe, Pb, Mn, Se</td> <td style="width: 10%;">Total Metals: As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V, Hg</td> <td style="width: 10%;">Dis Metals: (Filtered) As, Ba, Cr, Fe, Pb, Mn, Se</td> <td style="width: 10%;">Dis Metals: (Filtered) As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V</td> <td style="width: 10%;">Cyanide</td> <td style="width: 10%;">Anions: Chloride, Fluoride, Sulfate</td> <td style="width: 10%;">Cations: Ca, K, Na (from Total Metals container)</td> <td style="width: 10%;">NO2 / NO3</td> <td style="width: 10%;">TDS</td> </tr> </table>																		DRO 8015	GRO 8015	Volatiles 8260 (Extended List)	Total Metals: As, Ba, Cr, Fe, Pb, Mn, Se	Total Metals: As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V, Hg	Dis Metals: (Filtered) As, Ba, Cr, Fe, Pb, Mn, Se	Dis Metals: (Filtered) As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V	Cyanide	Anions: Chloride, Fluoride, Sulfate	Cations: Ca, K, Na (from Total Metals container)	NO2 / NO3	TDS
DRO 8015	GRO 8015	Volatiles 8260 (Extended List)	Total Metals: As, Ba, Cr, Fe, Pb, Mn, Se	Total Metals: As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V, Hg	Dis Metals: (Filtered) As, Ba, Cr, Fe, Pb, Mn, Se	Dis Metals: (Filtered) As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V	Cyanide																			Anions: Chloride, Fluoride, Sulfate	Cations: Ca, K, Na (from Total Metals container)	NO2 / NO3	TDS								
Project Navajo Refining Company				City/State Artesia, NM																																	
Phone: 713-953-4816 Fax: 713-977-4620				Lab Project # ARCADHTX-NAVAJO FULL																																	
Collected by (print): Cameron Haber + Hm1				Site/Facility ID #				P.O. #																													
Collected by (signature): <i>Scott Ude</i>				Rush? (Lab MUST Be Notified) Next Day100% Two Day50% Three Day25%				Date Results Needed Email? ☐ No ☐ Yes FAX? ☐ No ☐ Yes				No. of Cntr																									
Immediately Iced? N ☐ Y ☒																																					
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntr																														
MW-95		G	GW		4/15/15	1330	12	✓	✓	✓	✓		✓			✓	✓	✓	✓																		
RW-7		↓	↓					✓	✓	✓	✓		✓			✓	✓	✓	✓	SY																	
RW #17A		↓	↓					✓	✓	✓	✓		✓			✓	✓	✓	✓	SY																	

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other				pH _____ Temp _____ Flow _____ Other _____		Hold #	
Remarks:							
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____		Condition: (lab use only)	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 23°C 197		COC Seal Intact: ☒ Y ☐ N ☐ NA	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date:	4/17/15	0900	pH Checked: <2 >12 NCF: >

Jason Romer

ESC Lab Sciences
Non-Conformance Form

Login #: L760094	Client: ARCADHTX	Date: 4/17/15	Evaluated by: Nikki Sloan
-------------------------	-------------------------	----------------------	----------------------------------

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
Improper temperature	Chain of custody is incomplete	Insufficient packing material inside cooler
Improper container type	Please specify Metals requested.	
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:
X Broken container:	Chain of Custody is missing	Date/Time:
Sufficient sample remains		Temp./Cont. Rec./pH:
		Carrier:
		Tracking#

Login Comments:

Received one broken HCl vial for MW-99. We have sufficient sample to still complete all analyses.

Client informed by:	Call	Email	Voice Mail	Date:	Time:
TSR Initials:	Client Contact:				

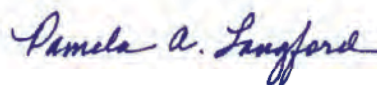
Login Instructions:

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.

ARCADIS US - TX

Sample Delivery Group: L760097
Samples Received: 04/17/2015
Project Number: TX000836.0007.15006
Description: Navajo Refining Company - Artesia, NM
Site: NCL
Report To: Pam Krueger
2929 Briarpark Dr., Suite 300
Houston, TX 77042

Entire Report Reviewed By:



Pam Langford

Pam Langford

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.



¹Cp: Cover Page	1
²Tc: Table of Contents	2
³Ss: Sample Summary	3
⁴Cn: Case Narrative	5
⁵Sr: Sample Results	6
NCL-34A L760097-01	6
NCL-33 L760097-02	8
NCL-44 L760097-03	10
NCL-32 L760097-04	12
EB-NCL-01 L760097-05	14
⁶Qc: Quality Control Summary	16
Gravimetric Analysis by Method 2540 C-2011	16
Wet Chemistry by Method 353.2	17
Wet Chemistry by Method 9056MOD	18
Metals (ICPMS) by Method 6020	20
Volatile Organic Compounds (GC/MS) by Method 8260B	23
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	32
⁷Gl: Glossary of Terms	33
⁸Al: Accreditations & Locations	34
⁹Sc: Chain of Custody	35



SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



NCL-34A L760097-01 GW

Collected by
Cameron Haber

Collected date/time
04/15/15 14:35

Received date/time
04/17/15 09:00

¹ Cp

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Gravimetric Analysis by Method 2540 C-2011	WG783402	1	04/21/15 12:51	04/23/15 10:13	MF
Metals (ICPMS) by Method 6020	WG783153	5	04/21/15 12:59	04/24/15 03:06	AB
Metals (ICPMS) by Method 6020	WG783442	1	04/22/15 07:31	04/28/15 14:18	LAT
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783174	1	04/20/15 12:06	04/22/15 20:45	JNS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783006	1	04/24/15 01:02	04/24/15 01:02	MCB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785640	20	04/29/15 22:57	04/29/15 22:57	JC
Wet Chemistry by Method 353.2	WG785021	10	05/04/15 12:30	05/04/15 12:30	JAL
Wet Chemistry by Method 9056MOD	WG784232	1	04/23/15 23:31	04/23/15 23:31	NJM
Wet Chemistry by Method 9056MOD	WG784232	10	04/25/15 00:51	04/25/15 00:51	NJM

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

NCL-33 L760097-02 GW

Collected by
Cameron Haber

Collected date/time
04/15/15 15:40

Received date/time
04/17/15 09:00

⁷ Gl

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Gravimetric Analysis by Method 2540 C-2011	WG783402	1	04/21/15 12:51	04/23/15 10:10	MF
Metals (ICPMS) by Method 6020	WG783153	5	04/21/15 12:59	04/24/15 03:09	AB
Metals (ICPMS) by Method 6020	WG783442	1	04/22/15 07:31	04/28/15 14:20	LAT
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783174	1	04/20/15 12:06	04/22/15 22:13	JNS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783006	1	04/23/15 19:30	04/23/15 19:30	MCB
Wet Chemistry by Method 353.2	WG785021	1	05/04/15 12:31	05/04/15 12:31	JAL
Wet Chemistry by Method 9056MOD	WG784232	1	04/24/15 00:16	04/24/15 00:16	NJM
Wet Chemistry by Method 9056MOD	WG784232	10	04/25/15 01:36	04/25/15 01:36	NJM

⁸ Al

⁹ Sc

NCL-44 L760097-03 GW

Collected by
Cameron Haber

Collected date/time
04/15/15 16:30

Received date/time
04/17/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Gravimetric Analysis by Method 2540 C-2011	WG783402	1	04/21/15 12:51	04/23/15 10:10	MF
Metals (ICPMS) by Method 6020	WG783153	5	04/21/15 12:59	04/24/15 03:11	AB
Metals (ICPMS) by Method 6020	WG783442	1	04/22/15 07:31	04/28/15 14:23	LAT
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783174	1	04/20/15 12:06	04/22/15 22:31	JNS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783309	1	04/20/15 12:21	04/20/15 12:21	ACG
Wet Chemistry by Method 353.2	WG785021	10	05/04/15 12:35	05/04/15 12:35	JAL
Wet Chemistry by Method 9056MOD	WG784232	1	04/24/15 00:31	04/24/15 00:31	NJM
Wet Chemistry by Method 9056MOD	WG784232	10	04/25/15 02:21	04/25/15 02:21	NJM

NCL-32 L760097-04 GW

Collected by
Cameron Haber

Collected date/time
04/15/15 17:40

Received date/time
04/17/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Gravimetric Analysis by Method 2540 C-2011	WG783402	1	04/21/15 12:51	04/23/15 10:21	MF
Metals (ICPMS) by Method 6020	WG783153	5	04/21/15 12:59	04/24/15 03:13	AB
Metals (ICPMS) by Method 6020	WG783442	1	04/22/15 07:31	04/28/15 14:33	LAT
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783174	1	04/20/15 12:06	04/22/15 22:48	JNS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783309	1	04/20/15 12:44	04/20/15 12:44	ACG
Wet Chemistry by Method 353.2	WG785021	10	05/04/15 12:40	05/04/15 12:40	JAL
Wet Chemistry by Method 9056MOD	WG784232	1	04/24/15 00:46	04/24/15 00:46	NJM
Wet Chemistry by Method 9056MOD	WG784232	20	04/25/15 02:36	04/25/15 02:36	NJM

EB-NCL-01 L760097-05 GW

Collected by
Cameron Haber

Collected date/time
04/15/15 18:01

Received date/time
04/17/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



EB-NCL-01 L760097-05 GW

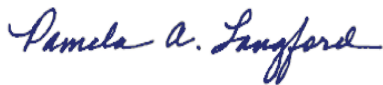
Collected by
Cameron HaberCollected date/time
04/15/15 18:01Received date/time
04/17/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Gravimetric Analysis by Method 2540 C-2011	WG783402	1	04/21/15 12:51	04/23/15 10:08	MF
Metals (ICPMS) by Method 6020	WG783153	1	04/21/15 12:59	04/27/15 11:52	AB
Metals (ICPMS) by Method 6020	WG783442	1	04/22/15 07:31	04/28/15 14:36	LAT
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783174	1	04/20/15 12:06	04/22/15 23:06	JNS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783309	1	04/20/15 13:08	04/20/15 13:08	ACG
Wet Chemistry by Method 353.2	WG785021	1	05/04/15 12:41	05/04/15 12:41	JAL
Wet Chemistry by Method 9056MOD	WG784232	1	04/24/15 01:01	04/24/15 01:01	NJM

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc



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.



Pam Langford

Pam Langford

Technical Service Representative

Sample Handling and Receiving

Sample quantity was not sufficient to complete analysis per recommended method guidelines for the following samples.

ESC Sample ID	Project Sample ID	Method
L760097-05	EB-NCL-01	2540 C-2011

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	1490000		2800	10000	1	04/23/2015 10:13	WG783402

1 Cp

2 Tc

Wet Chemistry by Method 353.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		200	1000	10	05/04/2015 12:30	WG785021

3 Ss

4 Cn

Wet Chemistry by Method 9056MOD

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	249000		520	10000	10	04/25/2015 00:51	WG784232
Fluoride	1360		9.90	100	1	04/23/2015 23:31	WG784232
Sulfate	110000		770	50000	10	04/25/2015 00:51	WG784232

5 Sr

6 Qc

7 Gl

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	U		1.20	10.0	5	04/24/2015 03:06	WG783153
Arsenic,Dissolved	0.947	J	0.250	2.00	1	04/28/2015 14:18	WG783442
Barium	547		1.80	25.0	5	04/24/2015 03:06	WG783153
Barium,Dissolved	492		0.360	5.00	1	04/28/2015 14:18	WG783442
Calcium	275000		230	5000	5	04/24/2015 03:06	WG783153
Chromium	U		2.70	10.0	5	04/24/2015 03:06	WG783153
Chromium,Dissolved	U		0.540	2.00	1	04/28/2015 14:18	WG783442
Iron	U		75.0	500	5	04/24/2015 03:06	WG783153
Iron,Dissolved	U		15.0	100	1	04/28/2015 14:18	WG783442
Lead	1.83	J	1.20	10.0	5	04/24/2015 03:06	WG783153
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 14:18	WG783442
Manganese	36.9		1.20	25.0	5	04/24/2015 03:06	WG783153
Manganese,Dissolved	33.8		0.250	5.00	1	04/28/2015 14:18	WG783442
Potassium	570	J	180	5000	5	04/24/2015 03:06	WG783153
Selenium	U		1.90	10.0	5	04/24/2015 03:06	WG783153
Selenium,Dissolved	U		0.380	2.00	1	04/28/2015 14:18	WG783442
Sodium	117000		550	5000	5	04/24/2015 03:06	WG783153

8 Al

9 Sc

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	10.0	50.0	1	04/24/2015 01:02	WG783006
Benzene	1210		6.60	20.0	20	04/29/2015 22:57	WG785640
Bromodichloromethane	U		0.380	1.00	1	04/24/2015 01:02	WG783006
Bromoform	U		0.470	1.00	1	04/24/2015 01:02	WG783006
Bromomethane	U		0.870	5.00	1	04/24/2015 01:02	WG783006
n-Butylbenzene	7.13		0.360	1.00	1	04/24/2015 01:02	WG783006
sec-Butylbenzene	15.9		0.360	1.00	1	04/24/2015 01:02	WG783006
Carbon disulfide	1.52		0.280	1.00	1	04/24/2015 01:02	WG783006
Carbon tetrachloride	U		0.380	1.00	1	04/24/2015 01:02	WG783006
Chlorobenzene	U		0.350	1.00	1	04/24/2015 01:02	WG783006
Chlorodibromomethane	U		0.330	1.00	1	04/24/2015 01:02	WG783006
Chloroethane	U		0.450	5.00	1	04/24/2015 01:02	WG783006
Chloroform	U		0.320	5.00	1	04/24/2015 01:02	WG783006
Chloromethane	U		0.280	2.50	1	04/24/2015 01:02	WG783006
1,2-Dibromoethane	U		0.380	1.00	1	04/24/2015 01:02	WG783006
1,1-Dichloroethane	U		0.260	1.00	1	04/24/2015 01:02	WG783006



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.360	1.00	1	04/24/2015 01:02	WG783006
1,1-Dichloroethene	U		0.400	1.00	1	04/24/2015 01:02	WG783006
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/24/2015 01:02	WG783006
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/24/2015 01:02	WG783006
1,2-Dichloropropane	U		0.310	1.00	1	04/24/2015 01:02	WG783006
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 01:02	WG783006
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 01:02	WG783006
Ethylbenzene	5.65		0.380	1.00	1	04/24/2015 01:02	WG783006
Isopropylbenzene	92.9		0.330	1.00	1	04/24/2015 01:02	WG783006
p-Isopropyltoluene	6.96		0.350	1.00	1	04/24/2015 01:02	WG783006
2-Butanone (MEK)	U		3.90	10.0	1	04/24/2015 01:02	WG783006
2-Hexanone	U		3.80	10.0	1	04/24/2015 01:02	WG783006
Methylene Chloride	U		1.00	5.00	1	04/24/2015 01:02	WG783006
4-Methyl-2-pentanone (MIBK)	U	J4	2.10	10.0	1	04/24/2015 01:02	WG783006
Methyl tert-butyl ether	U		7.30	20.0	20	04/29/2015 22:57	WG785640
Naphthalene	6.36		1.00	5.00	1	04/24/2015 01:02	WG783006
n-Propylbenzene	101		0.350	1.00	1	04/24/2015 01:02	WG783006
Styrene	U		0.310	1.00	1	04/24/2015 01:02	WG783006
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/24/2015 01:02	WG783006
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/24/2015 01:02	WG783006
Tetrachloroethene	U		0.370	1.00	1	04/24/2015 01:02	WG783006
Toluene	U		0.780	5.00	1	04/24/2015 01:02	WG783006
1,1,1-Trichloroethane	U		0.319	1.00	1	04/24/2015 01:02	WG783006
1,1,2-Trichloroethane	U		0.380	1.00	1	04/24/2015 01:02	WG783006
Trichloroethene	U		0.400	1.00	1	04/24/2015 01:02	WG783006
1,2,4-Trimethylbenzene	97.9		0.370	1.00	1	04/24/2015 01:02	WG783006
1,3,5-Trimethylbenzene	1.22		0.390	1.00	1	04/24/2015 01:02	WG783006
Vinyl chloride	U		0.260	1.00	1	04/24/2015 01:02	WG783006
o-Xylene	1.21		0.340	1.00	1	04/24/2015 01:02	WG783006
m&p-Xylene	94.0		0.720	1.00	1	04/24/2015 01:02	WG783006
Xylenes, Total	95.2		1.10	3.00	1	04/24/2015 01:02	WG783006
(S) Toluene-d8	94.1			88.5-111		04/24/2015 01:02	WG783006
(S) Dibromofluoromethane	78.0	J2		78.3-121		04/24/2015 01:02	WG783006
(S) 4-Bromofluorobenzene	97.9			71.0-126		04/24/2015 01:02	WG783006

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	10000		25.0	100	1	04/22/2015 20:45	WG783174
(S) o-Terphenyl	103			50.0-150		04/22/2015 20:45	WG783174



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2280000		2800	10000	1	04/23/2015 10:10	WG783402

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		20.0	100	1	05/04/2015 12:31	WG785021

Wet Chemistry by Method 9056MOD

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	281000		520	10000	10	04/25/2015 01:36	WG784232
Fluoride	2580		9.90	100	1	04/24/2015 00:16	WG784232
Sulfate	800000		770	50000	10	04/25/2015 01:36	WG784232

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	4.07	U	1.20	10.0	5	04/24/2015 03:09	WG783153
Arsenic,Dissolved	3.11		0.250	2.00	1	04/28/2015 14:20	WG783442
Barium	24.7	U	1.80	25.0	5	04/24/2015 03:09	WG783153
Barium,Dissolved	22.3		0.360	5.00	1	04/28/2015 14:20	WG783442
Calcium	431000		230	5000	5	04/24/2015 03:09	WG783153
Chromium	U		2.70	10.0	5	04/24/2015 03:09	WG783153
Chromium,Dissolved	U		0.540	2.00	1	04/28/2015 14:20	WG783442
Iron	2260		75.0	500	5	04/24/2015 03:09	WG783153
Iron,Dissolved	1490		15.0	100	1	04/28/2015 14:20	WG783442
Lead	5.69	U	1.20	10.0	5	04/24/2015 03:09	WG783153
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 14:20	WG783442
Manganese	108		1.20	25.0	5	04/24/2015 03:09	WG783153
Manganese,Dissolved	104		0.250	5.00	1	04/28/2015 14:20	WG783442
Potassium	4310	U	180	5000	5	04/24/2015 03:09	WG783153
Selenium	U		1.90	10.0	5	04/24/2015 03:09	WG783153
Selenium,Dissolved	0.538	U	0.380	2.00	1	04/28/2015 14:20	WG783442
Sodium	111000		550	5000	5	04/24/2015 03:09	WG783153

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	10.0	50.0	1	04/23/2015 19:30	WG783006
Benzene	1.05		0.330	1.00	1	04/23/2015 19:30	WG783006
Bromodichloromethane	U		0.380	1.00	1	04/23/2015 19:30	WG783006
Bromoform	U		0.470	1.00	1	04/23/2015 19:30	WG783006
Bromomethane	U		0.870	5.00	1	04/23/2015 19:30	WG783006
n-Butylbenzene	U		0.360	1.00	1	04/23/2015 19:30	WG783006
sec-Butylbenzene	U		0.360	1.00	1	04/23/2015 19:30	WG783006
Carbon disulfide	U		0.280	1.00	1	04/23/2015 19:30	WG783006
Carbon tetrachloride	U		0.380	1.00	1	04/23/2015 19:30	WG783006
Chlorobenzene	U		0.350	1.00	1	04/23/2015 19:30	WG783006
Chlorodibromomethane	U		0.330	1.00	1	04/23/2015 19:30	WG783006
Chloroethane	U		0.450	5.00	1	04/23/2015 19:30	WG783006
Chloroform	U		0.320	5.00	1	04/23/2015 19:30	WG783006
Chloromethane	U		0.280	2.50	1	04/23/2015 19:30	WG783006
1,2-Dibromoethane	U		0.380	1.00	1	04/23/2015 19:30	WG783006
1,1-Dichloroethane	U		0.260	1.00	1	04/23/2015 19:30	WG783006



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.360	1.00	1	04/23/2015 19:30	WG783006
1,1-Dichloroethene	U		0.400	1.00	1	04/23/2015 19:30	WG783006
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/23/2015 19:30	WG783006
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/23/2015 19:30	WG783006
1,2-Dichloropropane	U		0.310	1.00	1	04/23/2015 19:30	WG783006
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/23/2015 19:30	WG783006
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/23/2015 19:30	WG783006
Ethylbenzene	U		0.380	1.00	1	04/23/2015 19:30	WG783006
Isopropylbenzene	U		0.330	1.00	1	04/23/2015 19:30	WG783006
p-Isopropyltoluene	U		0.350	1.00	1	04/23/2015 19:30	WG783006
2-Butanone (MEK)	U		3.90	10.0	1	04/23/2015 19:30	WG783006
2-Hexanone	U		3.80	10.0	1	04/23/2015 19:30	WG783006
Methylene Chloride	U		1.00	5.00	1	04/23/2015 19:30	WG783006
4-Methyl-2-pentanone (MIBK)	U	J4	2.10	10.0	1	04/23/2015 19:30	WG783006
Methyl tert-butyl ether	0.806	J	0.370	1.00	1	04/23/2015 19:30	WG783006
Naphthalene	U		1.00	5.00	1	04/23/2015 19:30	WG783006
n-Propylbenzene	U		0.350	1.00	1	04/23/2015 19:30	WG783006
Styrene	U		0.310	1.00	1	04/23/2015 19:30	WG783006
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/23/2015 19:30	WG783006
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/23/2015 19:30	WG783006
Tetrachloroethene	U		0.370	1.00	1	04/23/2015 19:30	WG783006
Toluene	U		0.780	5.00	1	04/23/2015 19:30	WG783006
1,1,1-Trichloroethane	U		0.319	1.00	1	04/23/2015 19:30	WG783006
1,1,2-Trichloroethane	U		0.380	1.00	1	04/23/2015 19:30	WG783006
Trichloroethene	U		0.400	1.00	1	04/23/2015 19:30	WG783006
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/23/2015 19:30	WG783006
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/23/2015 19:30	WG783006
Vinyl chloride	U		0.260	1.00	1	04/23/2015 19:30	WG783006
o-Xylene	U		0.340	1.00	1	04/23/2015 19:30	WG783006
m&p-Xylene	U		0.720	1.00	1	04/23/2015 19:30	WG783006
Xylenes, Total	U		1.10	3.00	1	04/23/2015 19:30	WG783006
(S) Toluene-d8	107			88.5-111		04/23/2015 19:30	WG783006
(S) Dibromofluoromethane	103			78.3-121		04/23/2015 19:30	WG783006
(S) 4-Bromofluorobenzene	89.9			71.0-126		04/23/2015 19:30	WG783006

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	4600		25.0	100	1	04/22/2015 22:13	WG783174
(S) o-Terphenyl	110			50.0-150		04/22/2015 22:13	WG783174



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	2510000		2800	10000	1	04/23/2015 10:10	WG783402

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		200	1000	10	05/04/2015 12:35	WG785021

Wet Chemistry by Method 9056MOD

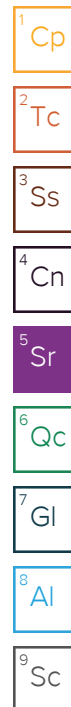
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	161000		520	10000	10	04/25/2015 02:21	WG784232
Fluoride	1780		9.90	100	1	04/24/2015 00:31	WG784232
Sulfate	468000		770	50000	10	04/25/2015 02:21	WG784232

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	61.7		1.20	10.0	5	04/24/2015 03:11	WG783153
Arsenic,Dissolved	53.6		0.250	2.00	1	04/28/2015 14:23	WG783442
Barium	31.1		1.80	25.0	5	04/24/2015 03:11	WG783153
Barium,Dissolved	25.6		0.360	5.00	1	04/28/2015 14:23	WG783442
Calcium	269000		230	5000	5	04/24/2015 03:11	WG783153
Chromium	U		2.70	10.0	5	04/24/2015 03:11	WG783153
Chromium,Dissolved	U		0.540	2.00	1	04/28/2015 14:23	WG783442
Iron	1470		75.0	500	5	04/24/2015 03:11	WG783153
Iron,Dissolved	1370		15.0	100	1	04/28/2015 14:23	WG783442
Lead	1.23	J	1.20	10.0	5	04/24/2015 03:11	WG783153
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 14:23	WG783442
Manganese	703		1.20	25.0	5	04/24/2015 03:11	WG783153
Manganese,Dissolved	663		0.250	5.00	1	04/28/2015 14:23	WG783442
Potassium	1640	J	180	5000	5	04/24/2015 03:11	WG783153
Selenium	U		1.90	10.0	5	04/24/2015 03:11	WG783153
Selenium,Dissolved	U		0.380	2.00	1	04/28/2015 14:23	WG783442
Sodium	73400		550	5000	5	04/24/2015 03:11	WG783153

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/20/2015 12:21	WG783309
Benzene	U		0.330	1.00	1	04/20/2015 12:21	WG783309
Bromodichloromethane	U		0.380	1.00	1	04/20/2015 12:21	WG783309
Bromoform	U		0.470	1.00	1	04/20/2015 12:21	WG783309
Bromomethane	U		0.870	5.00	1	04/20/2015 12:21	WG783309
n-Butylbenzene	U		0.360	1.00	1	04/20/2015 12:21	WG783309
sec-Butylbenzene	0.390	J	0.360	1.00	1	04/20/2015 12:21	WG783309
Carbon disulfide	U		0.280	1.00	1	04/20/2015 12:21	WG783309
Carbon tetrachloride	U		0.380	1.00	1	04/20/2015 12:21	WG783309
Chlorobenzene	U		0.350	1.00	1	04/20/2015 12:21	WG783309
Chlorodibromomethane	U		0.330	1.00	1	04/20/2015 12:21	WG783309
Chloroethane	U	J4	0.450	5.00	1	04/20/2015 12:21	WG783309
Chloroform	U		0.320	5.00	1	04/20/2015 12:21	WG783309
Chloromethane	U		0.280	2.50	1	04/20/2015 12:21	WG783309
1,2-Dibromoethane	U		0.380	1.00	1	04/20/2015 12:21	WG783309
1,1-Dichloroethane	U		0.260	1.00	1	04/20/2015 12:21	WG783309





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.360	1.00	1	04/20/2015 12:21	WG783309
1,1-Dichloroethene	U		0.400	1.00	1	04/20/2015 12:21	WG783309
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/20/2015 12:21	WG783309
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/20/2015 12:21	WG783309
1,2-Dichloropropane	U		0.310	1.00	1	04/20/2015 12:21	WG783309
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/20/2015 12:21	WG783309
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/20/2015 12:21	WG783309
Ethylbenzene	U		0.380	1.00	1	04/20/2015 12:21	WG783309
Isopropylbenzene	0.652	J	0.330	1.00	1	04/20/2015 12:21	WG783309
p-Isopropyltoluene	U		0.350	1.00	1	04/20/2015 12:21	WG783309
2-Butanone (MEK)	U		3.90	10.0	1	04/20/2015 12:21	WG783309
2-Hexanone	U		3.80	10.0	1	04/20/2015 12:21	WG783309
Methylene Chloride	U		1.00	5.00	1	04/20/2015 12:21	WG783309
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/20/2015 12:21	WG783309
Methyl tert-butyl ether	0.410	J	0.370	1.00	1	04/20/2015 12:21	WG783309
Naphthalene	U		1.00	5.00	1	04/20/2015 12:21	WG783309
n-Propylbenzene	U		0.350	1.00	1	04/20/2015 12:21	WG783309
Styrene	U		0.310	1.00	1	04/20/2015 12:21	WG783309
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/20/2015 12:21	WG783309
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/20/2015 12:21	WG783309
Tetrachloroethene	U		0.370	1.00	1	04/20/2015 12:21	WG783309
Toluene	U		0.780	5.00	1	04/20/2015 12:21	WG783309
1,1,1-Trichloroethane	U		0.319	1.00	1	04/20/2015 12:21	WG783309
1,1,2-Trichloroethane	U		0.380	1.00	1	04/20/2015 12:21	WG783309
Trichloroethene	U		0.400	1.00	1	04/20/2015 12:21	WG783309
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/20/2015 12:21	WG783309
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/20/2015 12:21	WG783309
Vinyl chloride	U	J4	0.260	1.00	1	04/20/2015 12:21	WG783309
o-Xylene	U		0.340	1.00	1	04/20/2015 12:21	WG783309
m&p-Xylene	U		0.720	1.00	1	04/20/2015 12:21	WG783309
Xylenes, Total	U		1.10	3.00	1	04/20/2015 12:21	WG783309
(S) Toluene-d8	104			88.5-111		04/20/2015 12:21	WG783309
(S) Dibromofluoromethane	103			78.3-121		04/20/2015 12:21	WG783309
(S) 4-Bromofluorobenzene	95.3			71.0-126		04/20/2015 12:21	WG783309

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	5500		25.0	100	1	04/22/2015 22:31	WG783174
(S) o-Terphenyl	108			50.0-150		04/22/2015 22:31	WG783174



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	2250000		2800	10000	1	04/23/2015 10:21	WG783402

Wet Chemistry by Method 353.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	U		200	1000	10	05/04/2015 12:40	WG785021

Wet Chemistry by Method 9056MOD

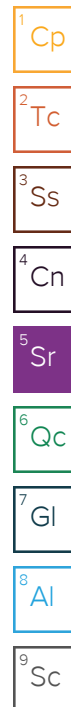
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	177000		1000	20000	20	04/25/2015 02:36	WG784232
Fluoride	1920		9.90	100	1	04/24/2015 00:46	WG784232
Sulfate	1050000		1500	100000	20	04/25/2015 02:36	WG784232

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	4.46	J	1.20	10.0	5	04/24/2015 03:13	WG783153
Arsenic,Dissolved	2.62		0.250	2.00	1	04/28/2015 14:33	WG783442
Barium	55.6		1.80	25.0	5	04/24/2015 03:13	WG783153
Barium,Dissolved	35.5		0.360	5.00	1	04/28/2015 14:33	WG783442
Calcium	446000		230	5000	5	04/24/2015 03:13	WG783153
Chromium	9.60	J	2.70	10.0	5	04/24/2015 03:13	WG783153
Chromium,Dissolved	1.20	J	0.540	2.00	1	04/28/2015 14:33	WG783442
Iron	1390		75.0	500	5	04/24/2015 03:13	WG783153
Iron,Dissolved	420		15.0	100	1	04/28/2015 14:33	WG783442
Lead	16.7		1.20	10.0	5	04/24/2015 03:13	WG783153
Lead,Dissolved	0.769	J	0.240	2.00	1	04/28/2015 14:33	WG783442
Manganese	968		1.20	25.0	5	04/24/2015 03:13	WG783153
Manganese,Dissolved	878		0.250	5.00	1	04/28/2015 14:33	WG783442
Potassium	4150	J	180	5000	5	04/24/2015 03:13	WG783153
Selenium	U		1.90	10.0	5	04/24/2015 03:13	WG783153
Selenium,Dissolved	U		0.380	2.00	1	04/28/2015 14:33	WG783442
Sodium	92600		550	5000	5	04/24/2015 03:13	WG783153

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		10.0	50.0	1	04/20/2015 12:44	WG783309
Benzene	U		0.330	1.00	1	04/20/2015 12:44	WG783309
Bromodichloromethane	U		0.380	1.00	1	04/20/2015 12:44	WG783309
Bromoform	U		0.470	1.00	1	04/20/2015 12:44	WG783309
Bromomethane	U		0.870	5.00	1	04/20/2015 12:44	WG783309
n-Butylbenzene	U		0.360	1.00	1	04/20/2015 12:44	WG783309
sec-Butylbenzene	U		0.360	1.00	1	04/20/2015 12:44	WG783309
Carbon disulfide	U		0.280	1.00	1	04/20/2015 12:44	WG783309
Carbon tetrachloride	U		0.380	1.00	1	04/20/2015 12:44	WG783309
Chlorobenzene	U		0.350	1.00	1	04/20/2015 12:44	WG783309
Chlorodibromomethane	U		0.330	1.00	1	04/20/2015 12:44	WG783309
Chloroethane	U	J4	0.450	5.00	1	04/20/2015 12:44	WG783309
Chloroform	U		0.320	5.00	1	04/20/2015 12:44	WG783309
Chloromethane	U		0.280	2.50	1	04/20/2015 12:44	WG783309
1,2-Dibromoethane	U		0.380	1.00	1	04/20/2015 12:44	WG783309
1,1-Dichloroethane	U		0.260	1.00	1	04/20/2015 12:44	WG783309





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.360	1.00	1	04/20/2015 12:44	WG783309
1,1-Dichloroethene	U		0.400	1.00	1	04/20/2015 12:44	WG783309
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/20/2015 12:44	WG783309
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/20/2015 12:44	WG783309
1,2-Dichloropropane	U		0.310	1.00	1	04/20/2015 12:44	WG783309
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/20/2015 12:44	WG783309
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/20/2015 12:44	WG783309
Ethylbenzene	U		0.380	1.00	1	04/20/2015 12:44	WG783309
Isopropylbenzene	U		0.330	1.00	1	04/20/2015 12:44	WG783309
p-Isopropyltoluene	U		0.350	1.00	1	04/20/2015 12:44	WG783309
2-Butanone (MEK)	U		3.90	10.0	1	04/20/2015 12:44	WG783309
2-Hexanone	U		3.80	10.0	1	04/20/2015 12:44	WG783309
Methylene Chloride	U		1.00	5.00	1	04/20/2015 12:44	WG783309
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/20/2015 12:44	WG783309
Methyl tert-butyl ether	U		0.370	1.00	1	04/20/2015 12:44	WG783309
Naphthalene	U		1.00	5.00	1	04/20/2015 12:44	WG783309
n-Propylbenzene	U		0.350	1.00	1	04/20/2015 12:44	WG783309
Styrene	U		0.310	1.00	1	04/20/2015 12:44	WG783309
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/20/2015 12:44	WG783309
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/20/2015 12:44	WG783309
Tetrachloroethene	U		0.370	1.00	1	04/20/2015 12:44	WG783309
Toluene	U		0.780	5.00	1	04/20/2015 12:44	WG783309
1,1,1-Trichloroethane	U		0.319	1.00	1	04/20/2015 12:44	WG783309
1,1,2-Trichloroethane	U		0.380	1.00	1	04/20/2015 12:44	WG783309
Trichloroethene	U		0.400	1.00	1	04/20/2015 12:44	WG783309
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/20/2015 12:44	WG783309
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/20/2015 12:44	WG783309
Vinyl chloride	U	J4	0.260	1.00	1	04/20/2015 12:44	WG783309
o-Xylene	U		0.340	1.00	1	04/20/2015 12:44	WG783309
m&p-Xylene	U		0.720	1.00	1	04/20/2015 12:44	WG783309
Xylenes, Total	U		1.10	3.00	1	04/20/2015 12:44	WG783309
(S) Toluene-d8	104			88.5-111		04/20/2015 12:44	WG783309
(S) Dibromofluoromethane	103			78.3-121		04/20/2015 12:44	WG783309
(S) 4-Bromofluorobenzene	94.9			71.0-126		04/20/2015 12:44	WG783309

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2800		25.0	100	1	04/22/2015 22:48	WG783174
(S) o-Terphenyl	107			50.0-150		04/22/2015 22:48	WG783174



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	U		2800	10000	1	04/23/2015 10:08	WG783402

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		20.0	100	1	05/04/2015 12:41	WG785021

Wet Chemistry by Method 9056MOD

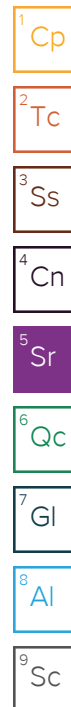
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	110	U	52.0	1000	1	04/24/2015 01:01	WG784232
Fluoride	35.9	U	9.90	100	1	04/24/2015 01:01	WG784232
Sulfate	80.8	U	77.0	5000	1	04/24/2015 01:01	WG784232

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	U		0.250	2.00	1	04/27/2015 11:52	WG783153
Arsenic,Dissolved	U		0.250	2.00	1	04/28/2015 14:36	WG783442
Barium	U		0.360	5.00	1	04/27/2015 11:52	WG783153
Barium,Dissolved	U		0.360	5.00	1	04/28/2015 14:36	WG783442
Calcium	U		46.0	1000	1	04/27/2015 11:52	WG783153
Chromium	U		0.540	2.00	1	04/27/2015 11:52	WG783153
Chromium,Dissolved	U		0.540	2.00	1	04/28/2015 14:36	WG783442
Iron	U		15.0	100	1	04/27/2015 11:52	WG783153
Iron,Dissolved	U		15.0	100	1	04/28/2015 14:36	WG783442
Lead	U		0.240	2.00	1	04/27/2015 11:52	WG783153
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 14:36	WG783442
Manganese	0.353	U	0.250	5.00	1	04/27/2015 11:52	WG783153
Manganese,Dissolved	U		0.250	5.00	1	04/28/2015 14:36	WG783442
Potassium	55.7	U	37.0	1000	1	04/27/2015 11:52	WG783153
Selenium	U		0.380	2.00	1	04/27/2015 11:52	WG783153
Selenium,Dissolved	U		0.380	2.00	1	04/28/2015 14:36	WG783442
Sodium	130	U	110	1000	1	04/27/2015 11:52	WG783153

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/20/2015 13:08	WG783309
Benzene	U		0.330	1.00	1	04/20/2015 13:08	WG783309
Bromodichloromethane	U		0.380	1.00	1	04/20/2015 13:08	WG783309
Bromoform	U		0.470	1.00	1	04/20/2015 13:08	WG783309
Bromomethane	U		0.870	5.00	1	04/20/2015 13:08	WG783309
n-Butylbenzene	U		0.360	1.00	1	04/20/2015 13:08	WG783309
sec-Butylbenzene	U		0.360	1.00	1	04/20/2015 13:08	WG783309
Carbon disulfide	U		0.280	1.00	1	04/20/2015 13:08	WG783309
Carbon tetrachloride	U		0.380	1.00	1	04/20/2015 13:08	WG783309
Chlorobenzene	U		0.350	1.00	1	04/20/2015 13:08	WG783309
Chlorodibromomethane	U		0.330	1.00	1	04/20/2015 13:08	WG783309
Chloroethane	U	J4	0.450	5.00	1	04/20/2015 13:08	WG783309
Chloroform	0.941	U	0.320	5.00	1	04/20/2015 13:08	WG783309
Chloromethane	U		0.280	2.50	1	04/20/2015 13:08	WG783309
1,2-Dibromoethane	U		0.380	1.00	1	04/20/2015 13:08	WG783309
1,1-Dichloroethane	U		0.260	1.00	1	04/20/2015 13:08	WG783309





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2-Dichloroethane	U		0.360	1.00	1	04/20/2015 13:08	WG783309
1,1-Dichloroethene	U		0.400	1.00	1	04/20/2015 13:08	WG783309
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/20/2015 13:08	WG783309
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/20/2015 13:08	WG783309
1,2-Dichloropropane	U		0.310	1.00	1	04/20/2015 13:08	WG783309
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/20/2015 13:08	WG783309
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/20/2015 13:08	WG783309
Ethylbenzene	U		0.380	1.00	1	04/20/2015 13:08	WG783309
Isopropylbenzene	U		0.330	1.00	1	04/20/2015 13:08	WG783309
p-Isopropyltoluene	U		0.350	1.00	1	04/20/2015 13:08	WG783309
2-Butanone (MEK)	U		3.90	10.0	1	04/20/2015 13:08	WG783309
2-Hexanone	U		3.80	10.0	1	04/20/2015 13:08	WG783309
Methylene Chloride	U		1.00	5.00	1	04/20/2015 13:08	WG783309
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/20/2015 13:08	WG783309
Methyl tert-butyl ether	U		0.370	1.00	1	04/20/2015 13:08	WG783309
Naphthalene	U		1.00	5.00	1	04/20/2015 13:08	WG783309
n-Propylbenzene	U		0.350	1.00	1	04/20/2015 13:08	WG783309
Styrene	U		0.310	1.00	1	04/20/2015 13:08	WG783309
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/20/2015 13:08	WG783309
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/20/2015 13:08	WG783309
Tetrachloroethene	U		0.370	1.00	1	04/20/2015 13:08	WG783309
Toluene	U		0.780	5.00	1	04/20/2015 13:08	WG783309
1,1,1-Trichloroethane	U		0.319	1.00	1	04/20/2015 13:08	WG783309
1,1,2-Trichloroethane	U		0.380	1.00	1	04/20/2015 13:08	WG783309
Trichloroethene	U		0.400	1.00	1	04/20/2015 13:08	WG783309
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/20/2015 13:08	WG783309
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/20/2015 13:08	WG783309
Vinyl chloride	U	J4	0.260	1.00	1	04/20/2015 13:08	WG783309
o-Xylene	U		0.340	1.00	1	04/20/2015 13:08	WG783309
m&p-Xylene	U		0.720	1.00	1	04/20/2015 13:08	WG783309
Xylenes, Total	U		1.10	3.00	1	04/20/2015 13:08	WG783309
(S) Toluene-d8	105			88.5-111		04/20/2015 13:08	WG783309
(S) Dibromofluoromethane	102			78.3-121		04/20/2015 13:08	WG783309
(S) 4-Bromofluorobenzene	96.6			71.0-126		04/20/2015 13:08	WG783309

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	84.0	J	25.0	100	1	04/22/2015 23:06	WG783174
(S) o-Terphenyl	104			50.0-150		04/22/2015 23:06	WG783174



Method Blank (MB)

(MB) 04/23/15 10:07

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		2.82	10.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L760094-07 Original Sample (OS) • Duplicate (DUP)

(OS) 04/23/15 10:09 • (DUP) 04/23/15 10:09

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1650	1620	1	1.84		5

L760097-05 Original Sample (OS) • Duplicate (DUP)

(OS) 04/23/15 10:08 • (DUP) 04/23/15 10:08

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	ND	0.000	1	0.000		5

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

(LCS) 04/23/15 10:21 • (LCSD) 04/23/15 10:21

	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	%	%	%			%	%
Dissolved Solids	8800	8670	8740	98.5	99.3	85.0-115			0.804	5



Method Blank (MB)

(MB) 05/04/15 12:13

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Nitrate-Nitrite	U		0.0197	0.100

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L760097-05 Original Sample (OS) • Duplicate (DUP)

(OS) 05/04/15 12:41 • (DUP) 05/04/15 12:42

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Nitrate-Nitrite	ND	ND	1	0.00		20

L760094-11 Original Sample (OS) • Duplicate (DUP)

(OS) 05/04/15 12:21 • (DUP) 05/04/15 12:22

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Nitrate-Nitrite	ND	ND	1	0.00		20

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

(LCS) 05/04/15 12:17 • (LCSD) 05/04/15 12:18

	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	%	%	%			%	%
Nitrate-Nitrite	5.00	5.26	5.31	105	106	90.0-110			0.946	20

L760097-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 05/04/15 12:31 • (MS) 05/04/15 12:33 • (MSD) 05/04/15 12:34

	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	%	%		%			%	%
Nitrate-Nitrite	5.00	ND	5.30	5.29	106	106	1	90.0-110			0.189	20



Method Blank (MB)

(MB) 04/23/15 19:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L760094-08 Original Sample (OS) • Duplicate (DUP)

(OS) 04/23/15 20:17 • (DUP) 04/23/15 20:32

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	33.4	33.1	1	1		20
Fluoride	0.328	0.324	1	1		20
Sulfate	41.3	41.2	1	0		20

L760265-01 Original Sample (OS) • Duplicate (DUP)

(OS) 04/24/15 01:16 • (DUP) 04/24/15 01:31

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	0.207	0.210	1	2		20

L760265-01 Original Sample (OS) • Duplicate (DUP)

(OS) 04/25/15 02:51 • (DUP) 04/25/15 03:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1280	1310	20	2		20
Sulfate	922	933	20	1		20

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

(LCS) 04/23/15 19:18 • (LCSD) 04/23/15 19:33

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 %
Chloride	40.0	39.6	39.6	99	99	90-110			0	20
Fluoride	8.00	7.95	7.93	99	99	90-110			0	20
Sulfate	40.0	40.3	40.4	101	101	90-110			0	20



L760097-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/23/15 23:31 • (MS) 04/23/15 23:46 • (MSD) 04/24/15 00:01

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 %
Fluoride	5.00	1.36	5.75	5.83	88	89	1	80-120			1	20

L760097-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/25/15 00:51 • (MS) 04/25/15 01:06 • (MSD) 04/25/15 01:21

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 %
Chloride	5.00	249	737	738	98	98	10	80-120			0	20
Sulfate	5.00	110	612	611	100	100	10	80-120			0	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 04/24/15 02:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Calcium	0.0464		0.046	1.00
Chromium	U		0.00054	0.00200
Iron	U		0.015	0.100
Lead	U		0.00024	0.00200
Manganese	0.000326		0.00025	0.00500
Potassium	U		0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) 04/24/15 02:30 • (LCSD) 04/24/15 02:33

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 %
Arsenic	0.0500	0.0556	0.0534	111	107	80-120			4	20
Barium	0.0500	0.0517	0.0527	103	105	80-120			2	20
Calcium	5.00	5.06	5.29	101	106	80-120			4	20
Chromium	0.0500	0.0505	0.0499	101	100	80-120			1	20
Iron	5.00	4.83	4.77	97	95	80-120			1	20
Lead	0.0500	0.0535	0.0542	107	108	80-120			1	20
Manganese	0.0500	0.0485	0.0488	97	98	80-120			1	20
Potassium	5.00	5.16	5.21	103	104	80-120			1	20
Selenium	0.0500	0.0496	0.0480	99	96	80-120			3	20
Sodium	5.00	5.41	5.46	108	109	80-120			1	20

L760059-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/24/15 02:35 • (MS) 04/24/15 02:39 • (MSD) 04/24/15 02:42

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 %
Arsenic	0.0100	0.00711	0.0661	0.0687	118	123	5	75-125			4	20
Barium	0.0100	0.00891	0.0617	0.0671	106	116	5	75-125			8	20
Chromium	0.0100	ND	0.0504	0.0559	101	112	5	75-125			10	20
Potassium	1.00	3.53	8.65	9.08	102	111	5	75-125			5	20
Iron	1.00	0.146	4.91	5.31	95	103	5	75-125			8	20
Lead	0.0100	0.000363	0.0559	0.0577	111	115	5	75-125			3	20



L760059-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/24/15 02:35 • (MS) 04/24/15 02:39 • (MSD) 04/24/15 02:42

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 %
Manganese	0.0100	0.150	0.187	0.205	74	110	5	75-125	J6		9	20
Selenium	0.0100	0.0317	0.0888	0.0944	114	125	5	75-125			6	20
Sodium	1.00	451	427	452	0	24	5	75-125	V	V	6	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 04/28/15 13:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Chromium,Dissolved	U		0.00054	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	0.0011		0.00025	0.00500
Selenium,Dissolved	U		0.00038	0.00200

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) 04/28/15 13:31 • (LCSD) 04/28/15 13:33

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 %
Arsenic,Dissolved	0.0500	0.0484	0.0496	97	99	80-120			3	20
Barium,Dissolved	0.0500	0.0479	0.0503	96	101	80-120			5	20
Chromium,Dissolved	0.0500	0.0499	0.0519	100	104	80-120			4	20
Iron,Dissolved	5.00	4.70	4.97	94	99	80-120			6	20
Lead,Dissolved	0.0500	0.0484	0.0504	97	101	80-120			4	20
Manganese,Dissolved	0.0500	0.0481	0.0506	96	101	80-120			5	20
Selenium,Dissolved	0.0500	0.0492	0.0507	98	101	80-120			3	20

L760094-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/28/15 13:36 • (MS) 04/28/15 13:41 • (MSD) 04/28/15 13:43

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 %
Arsenic,Dissolved	0.0500	0.0354	0.0870	0.0880	103	105	1	75-125			1	20
Barium,Dissolved	0.0500	0.857	0.898	0.906	81	98	1	75-125			1	20
Chromium,Dissolved	0.0500	0.000677	0.0487	0.0485	96	96	1	75-125			0	20
Iron,Dissolved	5.00	17.5	21.5	21.7	80	83	1	75-125			1	20
Lead,Dissolved	0.0500	0.00129	0.0514	0.0514	100	100	1	75-125			0	20
Manganese,Dissolved	0.0500	0.284	0.324	0.327	81	86	1	75-125			1	20
Selenium,Dissolved	0.0500	0.000265	0.0499	0.0502	99	100	1	75-125			1	20



Method Blank (MB)

(MB) 04/23/15 17:39

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	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
Carbon disulfide	U		0.000275	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
1,2-Dibromoethane	U		0.000381	0.00100
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
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
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		0.000780	0.00500
1,1,1-Trichloroethane	U		0.000319	0.00100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) 04/23/15 17:39

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	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
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	104			88.5-111
(S) Dibromofluoromethane	103			78.3-121
(S) 4-Bromofluorobenzene	91.4			71.0-126

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) 04/23/15 16:28 • (LCSD) 04/23/15 18:19

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 %
Acetone	0.125	0.206	0.195	165	156	35.6-163	J4		5.67	23.9
Benzene	0.0250	0.0269	0.0266	108	107	74.8-121			1.00	20
Bromodichloromethane	0.0250	0.0269	0.0257	108	103	75.1-116			4.59	20
Bromoform	0.0250	0.0268	0.0259	107	104	67.5-130			3.32	20
Bromomethane	0.0250	0.0215	0.0222	86.0	88.7	49.9-162			3.15	20
n-Butylbenzene	0.0250	0.0254	0.0260	102	104	76.2-126			2.34	20
sec-Butylbenzene	0.0250	0.0263	0.0264	105	105	74.4-127			0.150	20
Carbon disulfide	0.0250	0.0240	0.0276	96.1	111	64.6-140			14.0	20
Carbon tetrachloride	0.0250	0.0234	0.0250	93.7	99.9	70.2-123			6.33	20
Chlorobenzene	0.0250	0.0281	0.0275	113	110	78.1-119			2.37	20
Chlorodibromomethane	0.0250	0.0265	0.0259	106	104	74.0-121			2.40	20
Chloroethane	0.0250	0.0233	0.0232	93.4	93.0	61.7-135			0.400	20
Chloroform	0.0250	0.0255	0.0247	102	98.7	76.0-121			3.23	20
Chloromethane	0.0250	0.0257	0.0277	103	111	61.5-129			7.14	20
1,2-Dibromoethane	0.0250	0.0260	0.0255	104	102	76.6-121			2.22	20
1,1-Dichloroethane	0.0250	0.0276	0.0272	110	109	70.7-126			1.33	20
1,2-Dichloroethane	0.0250	0.0260	0.0258	104	103	68.8-124			0.700	20
1,1-Dichloroethene	0.0250	0.0270	0.0268	108	107	67.8-129			0.850	20
cis-1,2-Dichloroethene	0.0250	0.0274	0.0257	110	103	76.0-119			6.43	20
trans-1,2-Dichloroethene	0.0250	0.0267	0.0259	107	104	72.6-121			3.14	20
1,2-Dichloropropane	0.0250	0.0283	0.0282	113	113	76.5-119			0.390	20

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

(LCS) 04/23/15 16:28 • (LCSD) 04/23/15 18:19

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 %
cis-1,3-Dichloropropene	0.0250	0.0276	0.0267	111	107	78.2-120			3.56	20
trans-1,3-Dichloropropene	0.0250	0.0274	0.0268	110	107	74.3-123			2.20	20
Ethylbenzene	0.0250	0.0262	0.0253	105	101	78.8-122			3.40	20
2-Hexanone	0.125	0.163	0.155	130	124	65.6-144			4.80	20
Isopropylbenzene	0.0250	0.0256	0.0247	102	98.9	78.6-132			3.54	20
p-Isopropyltoluene	0.0250	0.0269	0.0270	108	108	74.0-131			0.360	20
2-Butanone (MEK)	0.125	0.187	0.176	149	141	55.0-149			5.71	20
Methylene Chloride	0.0250	0.0276	0.0258	110	103	70.3-120			6.53	20
4-Methyl-2-pentanone (MIBK)	0.125	0.169	0.156	135	125	70.5-133	J4		7.90	20
Methyl tert-butyl ether	0.0250	0.0306	0.0282	122	113	71.2-126			8.23	20
Naphthalene	0.0250	0.0254	0.0244	101	97.6	68.4-128			3.85	20
n-Propylbenzene	0.0250	0.0261	0.0254	105	102	78.2-122			2.73	20
Styrene	0.0250	0.0273	0.0264	109	106	80.4-126			3.36	20
1,1,1,2-Tetrachloroethane	0.0250	0.0273	0.0261	109	104	74.2-124			4.27	20
1,1,2,2-Tetrachloroethane	0.0250	0.0271	0.0276	108	110	70.7-122			1.65	20
Tetrachloroethene	0.0250	0.0266	0.0263	106	105	72.6-126			1.10	20
Toluene	0.0250	0.0261	0.0257	104	103	79.7-116			1.70	20
1,1,1-Trichloroethane	0.0250	0.0253	0.0237	101	94.6	73.2-123			6.63	20
1,1,2-Trichloroethane	0.0250	0.0252	0.0246	101	98.2	77.7-118			2.74	20
Trichloroethene	0.0250	0.0266	0.0260	106	104	77.7-118			2.38	20
1,2,4-Trimethylbenzene	0.0250	0.0256	0.0262	102	105	75.0-123			2.29	20
1,3,5-Trimethylbenzene	0.0250	0.0261	0.0264	104	106	75.6-124			1.26	20
Vinyl chloride	0.0250	0.0264	0.0271	106	108	65.9-128			2.53	20
Xylenes, Total	0.0750	0.0769	0.0748	103	99.7	78.7-121			2.77	20
o-Xylene	0.0250	0.0258	0.0251	103	101	77.6-122			2.49	20
m&p-Xylenes	0.0500	0.0511	0.0497	102	99.3	78.8-121			2.92	20
(S) Toluene-d8				102	100	88.5-111				
(S) Dibromofluoromethane				99.3	97.9	78.3-121				
(S) 4-Bromofluorobenzene				95.2	95.0	71.0-126				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L760097-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/23/15 19:30 • (MS) 04/23/15 18:37 • (MSD) 04/23/15 18:55

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 %
Acetone	0.125	0.00402	0.125	0.112	96.9	86.3	1	10.0-130			11.2	27.9
Benzene	0.0250	0.00105	0.0249	0.0255	95.3	97.7	1	54.3-133			2.39	20
Bromodichloromethane	0.0250	ND	0.0256	0.0241	102	96.5	1	63.9-121			5.90	20

L760097-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/23/15 19:30 • (MS) 04/23/15 18:37 • (MSD) 04/23/15 18:55

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 %
Bromoform	0.0250	ND	0.0243	0.0249	97.3	99.6	1	59.5-134			2.33	20.5
Bromomethane	0.0250	ND	0.0173	0.0160	69.1	63.9	1	41.7-155			7.91	21.9
n-Butylbenzene	0.0250	ND	0.0254	0.0253	101	101	1	62.7-140			0.120	20.3
sec-Butylbenzene	0.0250	ND	0.0231	0.0248	92.6	99.2	1	62.2-136			6.96	20.3
Carbon disulfide	0.0250	ND	0.0200	0.0189	80.1	75.5	1	43.3-149			5.95	20.3
Carbon tetrachloride	0.0250	ND	0.0230	0.0233	92.0	93.2	1	55.7-134			1.28	20
Chlorobenzene	0.0250	ND	0.0249	0.0265	99.7	106	1	67.0-125			6.26	20
Chlorodibromomethane	0.0250	ND	0.0242	0.0250	96.9	100	1	64.3-125			3.37	20.8
Chloroethane	0.0250	ND	0.0198	0.0185	79.1	74.2	1	51.5-136			6.52	40
Chloroform	0.0250	ND	0.0230	0.0228	92.2	91.2	1	63.0-129			1.06	20
Chloromethane	0.0250	ND	0.0219	0.0202	87.7	80.8	1	42.4-135			8.15	20
1,2-Dibromoethane	0.0250	ND	0.0234	0.0244	93.5	97.4	1	67.1-125			4.17	20
1,1-Dichloroethane	0.0250	ND	0.0256	0.0251	102	100	1	58.5-132			1.95	20
1,2-Dichloroethane	0.0250	ND	0.0245	0.0234	98.2	93.7	1	60.0-126			4.64	20
1,1-Dichloroethene	0.0250	ND	0.0235	0.0220	93.8	87.9	1	51.1-140			6.48	20.2
cis-1,2-Dichloroethene	0.0250	ND	0.0235	0.0236	93.8	94.6	1	59.2-129			0.830	20
trans-1,2-Dichloroethene	0.0250	ND	0.0228	0.0222	91.0	88.8	1	56.5-129			2.52	20
1,2-Dichloropropane	0.0250	ND	0.0267	0.0263	107	105	1	64.2-123			1.39	20
cis-1,3-Dichloropropene	0.0250	ND	0.0253	0.0233	101	93.1	1	66.4-125			8.29	20
trans-1,3-Dichloropropene	0.0250	ND	0.0264	0.0232	106	93.0	1	64.1-128			12.8	20
Ethylbenzene	0.0250	ND	0.0231	0.0244	92.3	97.6	1	61.4-133			5.56	20
2-Hexanone	0.125	ND	0.136	0.131	109	105	1	43.3-137			3.47	25.5
Isopropylbenzene	0.0250	ND	0.0227	0.0242	90.8	96.8	1	66.8-141			6.39	20
p-Isopropyltoluene	0.0250	ND	0.0238	0.0254	95.2	102	1	63.2-139			6.44	20.4
2-Butanone (MEK)	0.125	ND	0.148	0.134	119	107	1	22.4-138			10.2	27
Methylene Chloride	0.0250	ND	0.0238	0.0228	95.2	91.0	1	58.1-122			4.47	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.168	0.149	134	119	1	60.8-140			11.8	25.1
Methyl tert-butyl ether	0.0250	0.000806	0.0272	0.0267	106	104	1	57.7-134			1.74	20
Naphthalene	0.0250	0.000393	0.0270	0.0264	106	104	1	58.0-135			2.32	25.5
n-Propylbenzene	0.0250	ND	0.0229	0.0244	91.5	97.7	1	65.9-131			6.55	20
Styrene	0.0250	ND	0.0233	0.0244	93.1	97.6	1	66.8-133			4.75	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0234	0.0250	93.5	100	1	64.0-128			6.81	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0259	0.0259	103	104	1	56.0-132			0.230	22.2
Tetrachloroethene	0.0250	ND	0.0230	0.0239	92.1	95.5	1	53.0-139			3.56	20
Toluene	0.0250	ND	0.0244	0.0233	97.4	93.3	1	61.4-130			4.29	20
1,1,1-Trichloroethane	0.0250	ND	0.0220	0.0219	88.0	87.6	1	58.7-134			0.460	20
1,1,2-Trichloroethane	0.0250	ND	0.0231	0.0239	92.3	95.7	1	66.3-125			3.63	20
Trichloroethene	0.0250	ND	0.0234	0.0234	93.7	93.6	1	44.1-149			0.0900	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0229	0.0246	91.8	98.3	1	57.4-137			6.83	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



L760097-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/23/15 19:30 • (MS) 04/23/15 18:37 • (MSD) 04/23/15 18:55

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 %
1,3,5-Trimethylbenzene	0.0250	ND	0.0232	0.0246	92.8	98.4	1	63.6-132			5.85	20.5
Vinyl chloride	0.0250	ND	0.0225	0.0210	90.2	84.1	1	47.8-137			6.91	20
Xylenes, Total	0.0750	ND	0.0677	0.0721	90.2	96.1	1	63.3-131			6.33	20
o-Xylene	0.0250	ND	0.0226	0.0236	90.3	94.4	1	63.3-130			4.38	20
m&p-Xylenes	0.0500	ND	0.0451	0.0485	90.1	97.0	1	61.7-133			7.29	20
(S) Toluene-d8					105	102		88.5-111				
(S) Dibromofluoromethane					99.2	100		78.3-121				
(S) 4-Bromofluorobenzene					90.0	95.0		71.0-126				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc



Method Blank (MB)

(MB) 04/20/15 11:09

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	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
Carbon disulfide	U		0.000275	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
1,2-Dibromoethane	U		0.000381	0.00100
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
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
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		0.000780	0.00500
1,1,1-Trichloroethane	U		0.000319	0.00100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) 04/20/15 11:09

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	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
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	104			88.5-111
(S) Dibromofluoromethane	100			78.3-121
(S) 4-Bromofluorobenzene	97.0			71.0-126

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) 04/20/15 09:34 • (LCSD) 04/20/15 09:58

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 %
Acetone	0.125	0.170	0.171	136	136	35.6-163			0.490	23.9
Benzene	0.0250	0.0279	0.0283	112	113	74.8-121			1.52	20
Bromodichloromethane	0.0250	0.0264	0.0266	106	106	75.1-116			0.610	20
Bromoform	0.0250	0.0228	0.0220	91.2	87.9	67.5-130			3.62	20
Bromomethane	0.0250	0.0276	0.0277	110	111	49.9-162			0.360	20
n-Butylbenzene	0.0250	0.0282	0.0284	113	114	76.2-126			0.940	20
sec-Butylbenzene	0.0250	0.0246	0.0244	98.5	97.8	74.4-127			0.750	20
Carbon disulfide	0.0250	0.0282	0.0289	113	115	64.6-140			2.46	20
Carbon tetrachloride	0.0250	0.0258	0.0263	103	105	70.2-123			1.82	20
Chlorobenzene	0.0250	0.0276	0.0271	110	109	78.1-119			1.70	20
Chlorodibromomethane	0.0250	0.0245	0.0242	98.1	96.8	74.0-121			1.35	20
Chloroethane	0.0250	0.0341	0.0328	136	131	61.7-135	J4		3.84	20
Chloroform	0.0250	0.0279	0.0284	112	114	76.0-121			1.72	20
Chloromethane	0.0250	0.0304	0.0315	122	126	61.5-129			3.75	20
1,2-Dibromoethane	0.0250	0.0260	0.0254	104	102	76.6-121			2.31	20
1,1-Dichloroethane	0.0250	0.0299	0.0303	120	121	70.7-126			1.34	20
1,2-Dichloroethane	0.0250	0.0294	0.0292	117	117	68.8-124			0.440	20
1,1-Dichloroethene	0.0250	0.0306	0.0312	122	125	67.8-129			1.90	20
cis-1,2-Dichloroethene	0.0250	0.0266	0.0266	106	106	76.0-119			0.0100	20
trans-1,2-Dichloroethene	0.0250	0.0280	0.0282	112	113	72.6-121			0.760	20
1,2-Dichloropropane	0.0250	0.0294	0.0294	118	118	76.5-119			0.0300	20

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

(LCS) 04/20/15 09:34 • (LCSD) 04/20/15 09:58

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 %
cis-1,3-Dichloropropene	0.0250	0.0294	0.0296	118	118	78.2-120			0.480	20
trans-1,3-Dichloropropene	0.0250	0.0243	0.0243	97.1	97.2	74.3-123			0.0800	20
Ethylbenzene	0.0250	0.0271	0.0271	108	108	78.8-122			0.0900	20
2-Hexanone	0.125	0.131	0.132	105	106	65.6-144			0.380	20
Isopropylbenzene	0.0250	0.0279	0.0274	111	109	78.6-132			1.84	20
p-Isopropyltoluene	0.0250	0.0249	0.0245	99.8	98.0	74.0-131			1.85	20
2-Butanone (MEK)	0.125	0.146	0.149	117	119	55.0-149			1.84	20
Methylene Chloride	0.0250	0.0274	0.0274	109	109	70.3-120			0.0100	20
4-Methyl-2-pentanone (MIBK)	0.125	0.135	0.139	108	111	70.5-133			2.51	20
Methyl tert-butyl ether	0.0250	0.0271	0.0269	108	108	71.2-126			0.460	20
Naphthalene	0.0250	0.0179	0.0186	71.7	74.5	68.4-128			3.84	20
n-Propylbenzene	0.0250	0.0255	0.0255	102	102	78.2-122			0.140	20
Styrene	0.0250	0.0252	0.0248	101	99.4	80.4-126			1.23	20
1,1,1,2-Tetrachloroethane	0.0250	0.0256	0.0249	102	99.8	74.2-124			2.43	20
1,1,2,2-Tetrachloroethane	0.0250	0.0242	0.0235	96.7	94.0	70.7-122			2.89	20
Tetrachloroethene	0.0250	0.0279	0.0280	111	112	72.6-126			0.560	20
Toluene	0.0250	0.0273	0.0277	109	111	79.7-116			1.73	20
1,1,1-Trichloroethane	0.0250	0.0263	0.0266	105	106	73.2-123			1.10	20
1,1,2-Trichloroethane	0.0250	0.0250	0.0248	100	99.0	77.7-118			1.12	20
Trichloroethene	0.0250	0.0274	0.0278	109	111	77.7-118			1.47	20
1,2,4-Trimethylbenzene	0.0250	0.0247	0.0241	98.9	96.5	75.0-123			2.45	20
1,3,5-Trimethylbenzene	0.0250	0.0243	0.0240	97.3	96.0	75.6-124			1.30	20
Vinyl chloride	0.0250	0.0325	0.0329	130	132	65.9-128	J4	J4	1.31	20
Xylenes, Total	0.0750	0.0818	0.0810	109	108	78.7-121			1.09	20
o-Xylene	0.0250	0.0272	0.0268	109	107	77.6-122			1.47	20
m&p-Xylenes	0.0500	0.0546	0.0542	109	108	78.8-121			0.890	20
(S) Toluene-d8				102	102	88.5-111				
(S) Dibromofluoromethane				100	102	78.3-121				
(S) 4-Bromofluorobenzene				97.5	95.7	71.0-126				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 04/29/15 17:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000331	0.00100
Methyl tert-butyl ether	U		0.000367	0.00100

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

(LCS) 04/29/15 16:13 • (LCSD) 04/29/15 16:34

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 %
Benzene	0.0250	0.0225	0.0195	89.9	78.0	74.8-121			14.1	20
Methyl tert-butyl ether	0.0250	0.0224	0.0199	89.4	79.5	71.2-126			11.8	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) 04/22/15 17:12

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	103			50.0-150

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

(LCS) 04/22/15 17:29 • (LCSD) 04/22/15 17:47

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 %
TPH (GC/FID) High Fraction	1.50	1.56	1.58	104	105	50.0-150			1.12	20
(S) o-Terphenyl				104	104	50.0-150				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
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.
(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.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

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**.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

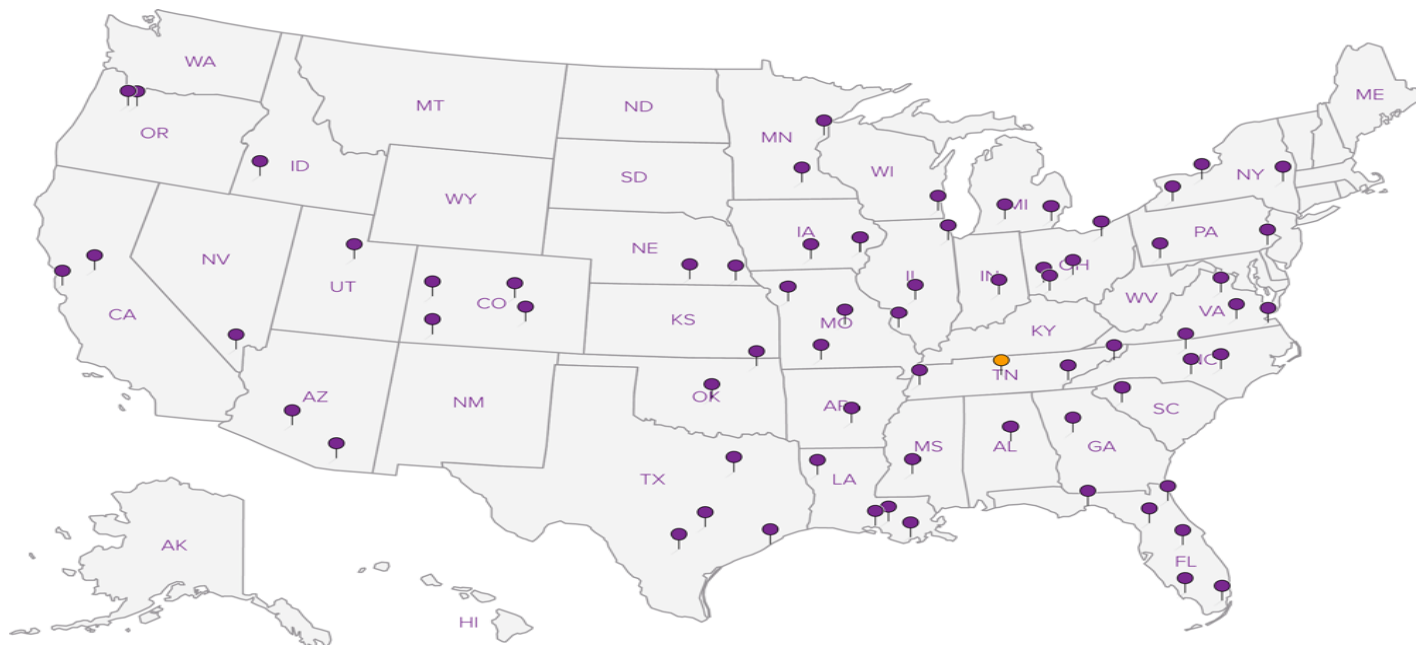
¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
Canada	1461.01	DOD	1461.01
EPA–Crypto	TN00003	USDA	S-67674

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.**



ARCADIS, Inc.
2929 Briarpark Drive,
Suite 300
Houston, TX 77042

Billing Information:

Report to: Pam Krueger

Email To: pam.krueger@arcadis-us.com;
 maisha.turner@arcadis-us.com;
 melissa.nsbome@arcadis-us.com

Project Navajo Refining Company

City/State Artesia, NM
 Collected:

Phone: 713-953-4816
 Fax: 713-977-4620

NCL TX000836.0007.15006

Lab Project # ARCADHTX-
 NAVAJO FULL

Collected by (print):

Cameron Haber + Hm1

Site/Facility ID #

P.O. #

Collected by (signature):

Scott Ude

Rush? (Lab MUST Be
 Notified)

Date Results Needed

Immediately Iced?

N ☐ Y ☒

Next Day100%
 Two Day50%
 Three Day25%

Email? ☐ No ☐ Yes
 FAX? ☐ No ☐ Yes

No.
 of
 Cntr

Sample ID	Comp/ Grab	Matrix *	Depth	Date	Time	No. of Cntr
NCL-34A	G	GW		4/15/15	1435	10
NCL-33					1540	1
NCL-34-44					1630	1
NCL-32					1740	1
MW-108						
NCL-31						
MW-55						
MW-18						
MW-54A						
MW-54B						

Analysis / Container / Preservative													
DRO 8015	GRO 8015	Volatiles 8260 (Extended List)	Total Metals: As, Ba, Cr, Fe, Pb, Mn, Se	Total Metals: As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V, Hg	Dis Metals: (FFiltered) As, Ba, Cr, Fe, Pb, Mn, Se	Dis Metals: (FFiltered) As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V	Cyanide	Anions: Chloride, Fluoride, Sulfate	Cations: Ca, K, Na (from Total Metals container)	NO2 / NO3	TDS		
✓		✓	✓		✓			✓	✓	✓	✓		
✓		✓	✓		✓			✓	✓	✓	✓		
✓		✓	✓		✓			✓	✓	✓	✓		
✓		✓	✓		✓			✓	✓	✓	✓		
✓		✓	✓		✓			✓	✓	✓	✓	su	
✓		✓	✓		✓			✓	✓	✓	✓	su	
✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	su	
✓		✓			✓	✓	✓	✓	✓	✓	✓	su	
✓		✓	✓		✓			✓	✓	✓	✓	su	
✓	✓	✓	✓		✓			✓	✓	✓	✓	su	

Chain of Custody Page 1 of 20



YOUR LAB OF CHOICE

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



L# L760097

T: J152

Acctnum: ARCADHTX

Template: T101479

Prelogin:

TSR: Pam Langford

PB:

Shipped Via:

Remarks/Comments Sample # (lab only)

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

pH _____ Temp _____
 Flow _____ Other _____

Hold #

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Samples returned via: ☐ UPS

☒ FedEx ☐ Courier ☐

Condition: (lab use only)

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: 2.3°C

50

COC Seal Intact: ☒ Y ☐ N ☐ NA

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

4/17/15

pH Checked:

NCF:

090

52

X

ARCADIS, Inc. 2929 Briarpark Drive, Suite 300 Houston, TX 77042				Billing Information: 				Analysis / Container / Preservative												Chain of Custody Page <u>16</u> of <u>20</u>		
Report to: Pam Krueger				Email To: pam.krueger@arcadis-us.com; maisha.turner@arcadis-us.com; melissa.osborne@arcadis-us.com																 L.A.B S.C.I.E.N.C.E.S. YOUR LAB OF CHOICE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859		
Project Navajo Refining Company				City/State Artesia, NM Collected:																L# <u>L760097</u>		
Phone: 713-953-4816 Fax: 713-977-4620		NCL TX000836.0007.15006 ✓		Lab Project # ARCADHTX-NAVAJO FULL																Table #		
Collected by (print): Cameron Haber + HM		Site/Facility ID #		P.O. #																Acctnum: ARCADHTX Template: T101479		
Collected by (signature): <i>Scott Ude</i>		Rush? (Lab MUST Be Notified) ___ Next Day100% ___ Two Day50% ___ Three Day25%		Date Results Needed																Prelogin: TSR: Pam Langford PB:		
Immediately Iced? N ___ Y ☒				Email? ___ No ___ Yes FAX? ___ No ___ Yes																Shipped Via:		
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntr	DRO 8015	GRO 8015	Volatiles 8260 (Extended List)	Total Metals: As, Ba, Cr, Fe, Pb, Mn, Se	Total Metals: As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V, Hg	Dis Metals: (FFiltered) As, Ba, Cr, Fe, Pb, Mn, Se	Dis Metals: (FFiltered) As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V	Cyanide	Anions: Chloride, Fluoride, Sulfate	Cations: Ca, K, Na (from Total Metals container)	NO2 / NO3	TDS	Remarks/Comments	Sample # (lab only)	
DUP-NCL-01		G	GW					✓		✓	✓		✓			✓	✓	✓	✓	✓	S4	
EB-NCL-01		↓	↓		4/15/15	1801	10	✓		✓	✓		✓			✓	✓	✓	✓	✓		-05
Trip Blank-NCL-01		↓	↓							✓										S4		

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other <u>20</u>				pH _____ Temp _____ Flow _____ Other _____		Hold #	
Remarks:							
Relinquished by : (Signature) <i>Scott Ude</i>	Date: 4/16/15	Time: 0800	Received by: (Signature)	Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____		Condition: (lab use only)	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: <u>23°C</u> <u>50</u>		TOI	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/17/15	Time: 0900	COC Seal Intact: ☒ Y ☐ N ☐ NA pH Checked: <u><2</u> NCF: <u>X</u>	

Jason Romer

ESC Lab Sciences
Non-Conformance Form

Login #: L760097	Client: ARCADHTX	Date: 4/17/15	Evaluated by: Nikki Sloan
-------------------------	-------------------------	----------------------	----------------------------------

Non-Conformance (check applicable items)

Sample Integrity	Chain of Custody Clarification	If Broken Container:
Parameter(s) past holding time	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:

COC lists NCL-34, container is labeled NCL-44.

Client informed by:	Call	Email	Voice Mail	Date: 4/17/15	Time: 1400
TSR Initials: jcr/PL Client Contact: Scott Ude					

Login Instructions:

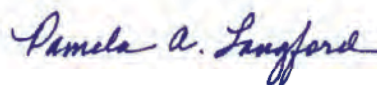
Log as NCL-44 per Scott Ude

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.

ARCADIS US - TX

Sample Delivery Group: L760247
Samples Received: 04/18/2015
Project Number: TX000836.0007.15004
Description: Navajo Refining Company - Artesia, NM
Site: EP
Report To: Pam Krueger
2929 Briarpark Dr., Suite 300
Houston, TX 77042

Entire Report Reviewed By:



Pam Langford

Pam Langford

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.



¹Cp: Cover Page	1
²Tc: Table of Contents	2
³Ss: Sample Summary	3
⁴Cn: Case Narrative	8
⁵Sr: Sample Results	9
MW-76 L760247-01	9
MW-77 L760247-02	11
MW-78 L760247-03	13
MW-75 L760247-04	15
MW-83 L760247-05	17
MW-3 L760247-06	19
MW-84 L760247-07	21
MW-81 L760247-08	23
MW-80 L760247-09	25
MW-79 L760247-10	27
MW-82 L760247-11	29
MW-74 L760247-12	31
MW-73 L760247-13	33
MW-72 L760247-14	35
OCD-6 L760247-15	37
OCD-7B L760247-16	39
KWB-P4 L760247-17	41
EB-EP-01 L760247-18	42
EB-EP-04 L760247-19	44
⁶Qc: Quality Control Summary	46
Gravimetric Analysis by Method 2540 C-2011	46
Wet Chemistry by Method 353.2	49
Wet Chemistry by Method 9056MOD	51
Metals (ICPMS) by Method 6020	53
Volatile Organic Compounds (GC) by Method 8015D/GRO	57
Volatile Organic Compounds (GC/MS) by Method 8260B	62
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	82
⁷Gl: Glossary of Terms	83
⁸Al: Accreditations & Locations	84
⁹Sc: Chain of Custody	85



SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-76 L760247-01 GW

			Collected by SU/BH/MB	Collected date/time 04/17/15 09:55	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG784339	1	04/24/15 18:36	04/27/15 08:56	JG	¹ Cp
Metals (ICPMS) by Method 6020	WG783155	5	04/22/15 09:04	04/24/15 13:27	ST	² Tc
Metals (ICPMS) by Method 6020	WG783442	1	04/22/15 07:31	04/28/15 14:38	LAT	³ Ss
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783364	5	04/20/15 17:30	04/22/15 12:43	JNS	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783219	5	04/24/15 00:42	04/24/15 00:42	MCB	⁴ Cn
Volatile Organic Compounds (GC/MS) by Method 8260B	WG784762	1	04/26/15 21:49	04/26/15 21:49	JC	
Wet Chemistry by Method 353.2	WG785021	10	05/04/15 12:43	05/04/15 12:43	JAL	⁵ Sr
Wet Chemistry by Method 9056MOD	WG785637	1	04/29/15 19:20	04/29/15 19:20	NJM	
Wet Chemistry by Method 9056MOD	WG785637	1	04/29/15 22:33	04/29/15 22:33	NJM	⁶ Qc

MW-77 L760247-02 GW

			Collected by SU/BH/MB	Collected date/time 04/17/15 10:45	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG784339	1	04/24/15 18:36	04/27/15 08:56	JG	⁷ Gl
Metals (ICPMS) by Method 6020	WG783155	5	04/22/15 09:04	04/24/15 13:36	ST	⁸ Al
Metals (ICPMS) by Method 6020	WG783442	5	04/22/15 07:31	04/28/15 14:41	LAT	⁹ Sc
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783364	20	04/20/15 17:30	04/22/15 13:53	JNS	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG785183	1	04/28/15 16:51	04/28/15 16:51	MCB	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG784762	1	04/26/15 23:30	04/26/15 23:30	JC	
Wet Chemistry by Method 353.2	WG785021	10	05/04/15 12:45	05/04/15 12:45	JAL	
Wet Chemistry by Method 9056MOD	WG785637	1	04/29/15 19:35	04/29/15 19:35	NJM	
Wet Chemistry by Method 9056MOD	WG785637	1	04/29/15 22:48	04/29/15 22:48	NJM	

MW-78 L760247-03 GW

			Collected by SU/BH/MB	Collected date/time 04/17/15 10:00	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG784339	1	04/24/15 18:36	04/27/15 08:58	JG	
Metals (ICPMS) by Method 6020	WG783155	5	04/22/15 09:04	04/24/15 13:39	ST	
Metals (ICPMS) by Method 6020	WG783442	5	04/22/15 07:31	04/28/15 14:43	LAT	
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783364	20	04/20/15 17:30	04/22/15 14:10	JNS	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG784848	1	04/29/15 19:23	04/29/15 19:23	MCB	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG784762	1	04/26/15 23:50	04/26/15 23:50	JC	
Wet Chemistry by Method 353.2	WG785021	10	05/04/15 12:46	05/04/15 12:46	JAL	
Wet Chemistry by Method 9056MOD	WG785637	1	04/29/15 19:49	04/29/15 19:49	NJM	
Wet Chemistry by Method 9056MOD	WG785637	1	04/29/15 23:03	04/29/15 23:03	NJM	

MW-75 L760247-04 GW

			Collected by SU/BH/MB	Collected date/time 04/17/15 09:00	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG784339	1	04/24/15 18:36	04/27/15 08:55	JG	
Metals (ICPMS) by Method 6020	WG783155	5	04/22/15 09:04	04/24/15 13:42	ST	
Metals (ICPMS) by Method 6020	WG783442	1	04/22/15 07:31	04/28/15 14:46	LAT	
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783364	5	04/20/15 17:30	04/22/15 13:01	JNS	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG785183	1	04/28/15 17:16	04/28/15 17:16	MCB	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783745	10	04/24/15 11:41	04/24/15 11:41	MCB	
Wet Chemistry by Method 353.2	WG785021	10	05/04/15 12:47	05/04/15 12:47	JAL	
Wet Chemistry by Method 9056MOD	WG785637	1	04/29/15 20:04	04/29/15 20:04	NJM	
Wet Chemistry by Method 9056MOD	WG785637	1	04/29/15 23:18	04/29/15 23:18	NJM	

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-83 L760247-05 GW

			Collected by SU/BH/MB	Collected date/time 04/17/15 11:45	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG784339	1	04/24/15 18:36	04/27/15 08:58	JG	¹ Cp
Metals (ICPMS) by Method 6020	WG783155	5	04/22/15 09:04	04/24/15 13:59	ST	² Tc
Metals (ICPMS) by Method 6020	WG783444	1	04/23/15 10:16	04/28/15 02:15	AB	³ Ss
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783364	20	04/20/15 17:30	04/22/15 13:36	JNS	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG785724	1	04/30/15 17:48	04/30/15 17:48	MCB	⁴ Cn
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785836	1	04/30/15 16:57	04/30/15 16:57	JC	
Wet Chemistry by Method 353.2	WG785021	10	05/04/15 12:48	05/04/15 12:48	JAL	⁵ Sr
Wet Chemistry by Method 9056MOD	WG785637	1	04/29/15 20:19	04/29/15 20:19	NJM	
Wet Chemistry by Method 9056MOD	WG785637	1	04/29/15 23:33	04/29/15 23:33	NJM	⁶ Qc

MW-3 L760247-06 GW

			Collected by SU/BH/MB	Collected date/time 04/17/15 11:00	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG784339	1	04/24/15 18:36	04/27/15 08:55	JG	⁷ Gl
Metals (ICPMS) by Method 6020	WG783155	5	04/22/15 09:04	04/24/15 14:20	ST	⁸ Al
Metals (ICPMS) by Method 6020	WG783444	1	04/23/15 10:16	04/28/15 02:17	AB	⁹ Sc
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783364	1	04/20/15 17:30	04/22/15 07:42	JNS	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG785183	1	04/28/15 17:41	04/28/15 17:41	MCB	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785836	1	04/30/15 17:17	04/30/15 17:17	JC	
Wet Chemistry by Method 353.2	WG785021	10	05/04/15 12:49	05/04/15 12:49	JAL	
Wet Chemistry by Method 9056MOD	WG785637	1	04/29/15 20:34	04/29/15 20:34	NJM	
Wet Chemistry by Method 9056MOD	WG785637	1	04/29/15 23:48	04/29/15 23:48	NJM	

MW-84 L760247-07 GW

			Collected by SU/BH/MB	Collected date/time 04/16/15 17:35	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG783688	1	04/22/15 15:27	04/24/15 08:36	JG	
Metals (ICPMS) by Method 6020	WG783155	5	04/22/15 09:04	04/24/15 14:23	ST	
Metals (ICPMS) by Method 6020	WG783444	1	04/23/15 10:16	04/28/15 02:20	AB	
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783364	20	04/20/15 17:30	04/22/15 13:18	JNS	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG785183	1	04/28/15 18:06	04/28/15 18:06	MCB	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785836	1	04/30/15 17:37	04/30/15 17:37	JC	
Wet Chemistry by Method 353.2	WG785021	10	05/04/15 12:51	05/04/15 12:51	JAL	
Wet Chemistry by Method 9056MOD	WG784715	1	04/27/15 17:14	04/27/15 17:14	NJM	
Wet Chemistry by Method 9056MOD	WG784715	100	04/27/15 23:16	04/27/15 23:16	NJM	

MW-81 L760247-08 GW

			Collected by SU/BH/MB	Collected date/time 04/16/15 13:25	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG783688	1	04/22/15 15:27	04/24/15 08:37	JG	
Metals (ICPMS) by Method 6020	WG783155	5	04/22/15 09:04	04/24/15 14:25	ST	
Metals (ICPMS) by Method 6020	WG783444	1	04/23/15 10:16	04/28/15 02:22	AB	
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783364	1	04/20/15 17:30	04/22/15 08:00	JNS	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783223	1	04/24/15 19:20	04/24/15 19:20	MCB	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785836	1	04/30/15 17:57	04/30/15 17:57	JC	
Wet Chemistry by Method 353.2	WG785021	10	05/04/15 12:52	05/04/15 12:52	JAL	
Wet Chemistry by Method 9056MOD	WG784715	1	04/27/15 17:28	04/27/15 17:28	NJM	
Wet Chemistry by Method 9056MOD	WG784715	100	04/27/15 23:30	04/27/15 23:30	NJM	

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-80 L760247-09 GW

			Collected by SU/BH/MB	Collected date/time 04/16/15 14:25	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG783688	1	04/22/15 15:27	04/24/15 08:37	JG	¹ Cp
Metals (ICPMS) by Method 6020	WG783155	5	04/22/15 09:04	04/24/15 14:27	ST	² Tc
Metals (ICPMS) by Method 6020	WG783444	1	04/23/15 10:16	04/28/15 02:25	AB	³ Ss
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783364	1	04/20/15 17:30	04/22/15 08:17	JNS	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783223	1	04/24/15 19:45	04/24/15 19:45	MCB	⁴ Cn
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785836	1	04/30/15 18:18	04/30/15 18:18	JC	
Wet Chemistry by Method 353.2	WG785023	1	05/01/15 10:23	05/01/15 10:23	JAL	⁵ Sr
Wet Chemistry by Method 9056MOD	WG784715	1	04/27/15 17:42	04/27/15 17:42	NJM	
Wet Chemistry by Method 9056MOD	WG784715	100	04/27/15 23:44	04/27/15 23:44	NJM	⁶ Qc

MW-79 L760247-10 GW

			Collected by SU/BH/MB	Collected date/time 04/16/15 16:25	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG783688	1	04/22/15 15:27	04/24/15 08:27	JG	⁷ Gl
Metals (ICPMS) by Method 6020	WG783155	5	04/22/15 09:04	04/24/15 14:30	ST	⁸ Al
Metals (ICPMS) by Method 6020	WG783444	1	04/23/15 10:16	04/28/15 02:28	AB	⁹ Sc
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783364	1	04/20/15 17:30	04/22/15 08:35	JNS	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783223	1	04/24/15 20:10	04/24/15 20:10	MCB	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785836	1	04/30/15 18:38	04/30/15 18:38	JC	
Wet Chemistry by Method 353.2	WG785023	1	05/01/15 10:25	05/01/15 10:25	JAL	
Wet Chemistry by Method 9056MOD	WG784715	1	04/27/15 17:56	04/27/15 17:56	NJM	
Wet Chemistry by Method 9056MOD	WG784715	100	04/27/15 23:58	04/27/15 23:58	NJM	

MW-82 L760247-11 GW

			Collected by SU/BH/MB	Collected date/time 04/16/15 17:00	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG783822	1	04/22/15 15:55	04/24/15 08:53	MF	
Metals (ICPMS) by Method 6020	WG783155	5	04/22/15 09:04	04/24/15 14:32	ST	
Metals (ICPMS) by Method 6020	WG783444	1	04/23/15 10:16	04/28/15 02:30	AB	
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783364	5	04/20/15 17:30	04/22/15 12:26	JNS	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783223	1	04/24/15 20:35	04/24/15 20:35	MCB	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785836	1	04/30/15 18:58	04/30/15 18:58	JC	
Wet Chemistry by Method 353.2	WG785023	1	05/01/15 10:29	05/01/15 10:29	JAL	
Wet Chemistry by Method 9056MOD	WG784715	100	04/28/15 00:12	04/28/15 00:12	NJM	

MW-74 L760247-12 GW

			Collected by SU/BH/MB	Collected date/time 04/16/15 14:30	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG783822	1	04/22/15 15:55	04/24/15 08:44	MF	
Metals (ICPMS) by Method 6020	WG783155	5	04/22/15 09:04	04/24/15 14:34	ST	
Metals (ICPMS) by Method 6020	WG783444	1	04/23/15 10:16	04/28/15 02:33	AB	
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783364	20	04/20/15 17:30	04/23/15 01:07	JNS	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783223	1	04/24/15 21:01	04/24/15 21:01	MCB	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785836	1	04/30/15 19:18	04/30/15 19:18	JC	
Wet Chemistry by Method 353.2	WG785023	100	05/01/15 11:01	05/01/15 11:01	JAL	
Wet Chemistry by Method 9056MOD	WG784715	1	04/27/15 18:24	04/27/15 18:24	NJM	
Wet Chemistry by Method 9056MOD	WG784715	100	04/28/15 00:26	04/28/15 00:26	NJM	

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-73 L760247-13 GW

						Collected by SU/BH/MB	Collected date/time 04/16/15 15:40	Received date/time 04/18/15 09:00	1 Cp
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst				
Gravimetric Analysis by Method 2540 C-2011	WG783822	1	04/22/15 15:55	04/24/15 08:52	MF				
Metals (ICPMS) by Method 6020	WG783155	10	04/22/15 09:04	04/24/15 20:41	ST				2 Tc
Metals (ICPMS) by Method 6020	WG783155	5	04/22/15 09:04	04/24/15 14:36	ST				
Metals (ICPMS) by Method 6020	WG783444	1	04/23/15 10:16	04/28/15 02:36	AB				3 Ss
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783364	1	04/20/15 17:30	04/22/15 09:10	JNS				
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783223	1	04/24/15 21:26	04/24/15 21:26	MCB				4 Cn
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785836	1	04/30/15 19:38	04/30/15 19:38	JC				
Wet Chemistry by Method 353.2	WG785023	1	05/01/15 11:02	05/01/15 11:02	JAL				5 Sr
Wet Chemistry by Method 9056MOD	WG784715	1	04/27/15 18:38	04/27/15 18:38	NJM				
Wet Chemistry by Method 9056MOD	WG784715	100	04/28/15 00:40	04/28/15 00:40	NJM				6 Qc

MW-72 L760247-14 GW

						Collected by SU/BH/MB	Collected date/time 04/16/15 12:05	Received date/time 04/18/15 09:00	7 Gl
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst				
Gravimetric Analysis by Method 2540 C-2011	WG783822	1	04/22/15 15:55	04/24/15 08:45	MF				
Metals (ICPMS) by Method 6020	WG783155	10	04/22/15 09:04	04/24/15 20:43	ST				8 Al
Metals (ICPMS) by Method 6020	WG783155	5	04/22/15 09:04	04/24/15 14:39	ST				
Metals (ICPMS) by Method 6020	WG783444	1	04/23/15 10:16	04/28/15 02:38	AB				9 Sc
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783364	1	04/20/15 17:30	04/22/15 09:28	JNS				
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783223	1	04/24/15 21:51	04/24/15 21:51	MCB				
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785836	1	04/30/15 19:58	04/30/15 19:58	JC				
Wet Chemistry by Method 353.2	WG785023	1	05/01/15 10:33	05/01/15 10:33	JAL				
Wet Chemistry by Method 9056MOD	WG784715	1	04/27/15 18:52	04/27/15 18:52	NJM				
Wet Chemistry by Method 9056MOD	WG784715	100	04/28/15 00:54	04/28/15 00:54	NJM				

OCD-6 L760247-15 GW

						Collected by SU/BH/MB	Collected date/time 04/16/15 11:10	Received date/time 04/18/15 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst			
Gravimetric Analysis by Method 2540 C-2011	WG783822	1	04/22/15 15:55	04/24/15 08:53	MF			
Metals (ICPMS) by Method 6020	WG783155	5	04/22/15 09:04	04/24/15 20:32	ST			
Metals (ICPMS) by Method 6020	WG783444	1	04/23/15 10:16	04/28/15 02:46	AB			
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783364	1	04/20/15 17:30	04/22/15 09:46	JNS			
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783223	1	04/24/15 22:16	04/24/15 22:16	MCB			
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785836	1	04/30/15 20:19	04/30/15 20:19	JC			
Wet Chemistry by Method 353.2	WG785023	1	05/01/15 10:34	05/01/15 10:34	JAL			
Wet Chemistry by Method 9056MOD	WG784715	1	04/27/15 19:06	04/27/15 19:06	NJM			
Wet Chemistry by Method 9056MOD	WG784715	100	04/28/15 01:08	04/28/15 01:08	NJM			

OCD-7B L760247-16 GW

						Collected by SU/BH/MB	Collected date/time 04/16/15 09:55	Received date/time 04/18/15 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst			
Gravimetric Analysis by Method 2540 C-2011	WG783822	1	04/22/15 15:55	04/24/15 08:53	MF			
Metals (ICPMS) by Method 6020	WG783155	5	04/22/15 09:04	04/24/15 20:34	ST			
Metals (ICPMS) by Method 6020	WG783444	1	04/23/15 10:16	04/28/15 02:49	AB			
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783364	1	04/20/15 17:30	04/22/15 10:04	JNS			
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783223	1	04/24/15 22:41	04/24/15 22:41	MCB			
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785102	1	04/29/15 23:41	04/29/15 23:41	MCB			
Wet Chemistry by Method 353.2	WG785023	1	05/01/15 10:35	05/01/15 10:35	JAL			
Wet Chemistry by Method 9056MOD	WG784715	1	04/27/15 19:47	04/27/15 19:47	NJM			
Wet Chemistry by Method 9056MOD	WG784715	100	04/28/15 01:22	04/28/15 01:22	NJM			

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



KWB-P4 L760247-17 GW

			Collected by SU/BH/MB	Collected date/time 04/16/15 13:25	Received date/time 04/18/15 09:00	¹ Cp
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	² Tc
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783364	1	04/20/15 17:30	04/22/15 10:22	JNS	³ Ss
Volatile Organic Compounds (GC/MS) by Method 8260B	WG785102	1	04/30/15 00:00	04/30/15 00:00	MCB	⁴ Cn

EB-EP-01 L760247-18 GW

			Collected by SU/BH/MB	Collected date/time 04/16/15 14:50	Received date/time 04/18/15 09:00	⁵ Sr
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	⁶ Qc
Gravimetric Analysis by Method 2540 C-2011	WG783822	1	04/22/15 15:55	04/24/15 08:56	MF	⁷ Gl
Metals (ICPMS) by Method 6020	WG783155	1	04/22/15 09:04	04/24/15 20:37	ST	⁸ Al
Metals (ICPMS) by Method 6020	WG783444	1	04/23/15 10:16	04/28/15 02:51	AB	⁹ Sc
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783364	1	04/20/15 17:30	04/22/15 10:40	JNS	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783223	1	04/24/15 18:55	04/24/15 18:55	MCB	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783745	1	04/24/15 08:53	04/24/15 08:53	MCB	
Wet Chemistry by Method 353.2	WG785023	1	05/01/15 10:36	05/01/15 10:36	JAL	
Wet Chemistry by Method 9056MOD	WG784715	1	04/27/15 20:01	04/27/15 20:01	NJM	

EB-EP-04 L760247-19 GW

			Collected by SU/BH/MB	Collected date/time 04/16/15 16:45	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG783822	1	04/22/15 15:55	04/24/15 08:58	MF	
Metals (ICPMS) by Method 6020	WG783155	1	04/22/15 09:04	04/24/15 20:39	ST	
Metals (ICPMS) by Method 6020	WG783444	1	04/23/15 10:16	04/28/15 02:54	AB	
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783364	1	04/20/15 17:30	04/22/15 10:58	JNS	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783223	1	04/25/15 01:16	04/25/15 01:16	MCB	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783745	1	04/24/15 08:34	04/24/15 08:34	MCB	
Wet Chemistry by Method 353.2	WG785023	1	05/01/15 10:37	05/01/15 10:37	JAL	
Wet Chemistry by Method 9056MOD	WG784715	1	04/27/15 20:29	04/27/15 20:29	NJM	



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.

Pam Langford

Pam Langford
Technical Service Representative

Sample Handling and Receiving

Sample quantity was not sufficient to complete analysis per recommended method guidelines for the following samples.

ESC Sample ID	Project Sample ID	Method
L760247-18	EB-EP-01	2540 C-2011
L760247-19	EB-EP-04	2540 C-2011

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	4650000		2800	10000	1	04/27/2015 08:56	WG784339

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		200	1000	10	05/04/2015 12:43	WG785021

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	18100		52.0	1000	1	04/29/2015 22:33	WG785637
Fluoride	3150		9.90	100	1	04/29/2015 19:20	WG785637
Sulfate	22000		77.0	5000	1	04/29/2015 22:33	WG785637

Metals (ICPMS) by Method 6020

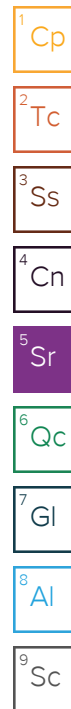
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	77.7		1.20	10.0	5	04/24/2015 13:27	WG783155
Arsenic,Dissolved	62.8		0.250	2.00	1	04/28/2015 14:38	WG783442
Barium	12.7	J	1.80	25.0	5	04/24/2015 13:27	WG783155
Barium,Dissolved	12.0		0.360	5.00	1	04/28/2015 14:38	WG783442
Calcium	558000	V	230	5000	5	04/24/2015 13:27	WG783155
Chromium	U		2.70	10.0	5	04/24/2015 13:27	WG783155
Chromium,Dissolved	1.33	J	0.540	2.00	1	04/28/2015 14:38	WG783442
Iron	4040		75.0	500	5	04/24/2015 13:27	WG783155
Iron,Dissolved	3530		15.0	100	1	04/28/2015 14:38	WG783442
Lead	U		1.20	10.0	5	04/24/2015 13:27	WG783155
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 14:38	WG783442
Manganese	1100	V	1.20	25.0	5	04/24/2015 13:27	WG783155
Manganese,Dissolved	977		0.250	5.00	1	04/28/2015 14:38	WG783442
Potassium	29700	V	180	5000	5	04/24/2015 13:27	WG783155
Selenium	2.58	J	1.90	10.0	5	04/24/2015 13:27	WG783155
Selenium,Dissolved	2.14		0.380	2.00	1	04/28/2015 14:38	WG783442
Sodium	1120000	V	550	5000	5	04/24/2015 13:27	WG783155

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	356	J	160	500	5	04/24/2015 00:42	WG783219
(S) a,a,a-Trifluorotoluene(FID)	96.1			62.0-128		04/24/2015 00:42	WG783219

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	20.3	J	10.0	50.0	1	04/26/2015 21:49	WG784762
Benzene	U		0.330	1.00	1	04/26/2015 21:49	WG784762
Bromodichloromethane	U		0.380	1.00	1	04/26/2015 21:49	WG784762
Bromoform	U		0.470	1.00	1	04/26/2015 21:49	WG784762
Bromomethane	U		0.870	5.00	1	04/26/2015 21:49	WG784762
n-Butylbenzene	U		0.360	1.00	1	04/26/2015 21:49	WG784762
sec-Butylbenzene	0.429	J	0.360	1.00	1	04/26/2015 21:49	WG784762
Carbon disulfide	U		0.280	1.00	1	04/26/2015 21:49	WG784762
Carbon tetrachloride	U		0.380	1.00	1	04/26/2015 21:49	WG784762
Chlorobenzene	U		0.350	1.00	1	04/26/2015 21:49	WG784762





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/26/2015 21:49	WG784762
Chloroethane	U		0.450	5.00	1	04/26/2015 21:49	WG784762
Chloroform	U		0.320	5.00	1	04/26/2015 21:49	WG784762
Chloromethane	0.328	U	0.280	2.50	1	04/26/2015 21:49	WG784762
1,2-Dibromoethane	U		0.380	1.00	1	04/26/2015 21:49	WG784762
1,1-Dichloroethane	U		0.260	1.00	1	04/26/2015 21:49	WG784762
1,2-Dichloroethane	U		0.360	1.00	1	04/26/2015 21:49	WG784762
1,1-Dichloroethene	U		0.400	1.00	1	04/26/2015 21:49	WG784762
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/26/2015 21:49	WG784762
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/26/2015 21:49	WG784762
1,2-Dichloropropane	U		0.310	1.00	1	04/26/2015 21:49	WG784762
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/26/2015 21:49	WG784762
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/26/2015 21:49	WG784762
Ethylbenzene	U		0.380	1.00	1	04/26/2015 21:49	WG784762
Isopropylbenzene	16.1		0.330	1.00	1	04/26/2015 21:49	WG784762
p-Isopropyltoluene	U		0.350	1.00	1	04/26/2015 21:49	WG784762
2-Butanone (MEK)	U		3.90	10.0	1	04/26/2015 21:49	WG784762
2-Hexanone	U		3.80	10.0	1	04/26/2015 21:49	WG784762
Methylene Chloride	U		1.00	5.00	1	04/26/2015 21:49	WG784762
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/26/2015 21:49	WG784762
Methyl tert-butyl ether	12.2		0.370	1.00	1	04/26/2015 21:49	WG784762
Naphthalene	U		1.00	5.00	1	04/26/2015 21:49	WG784762
n-Propylbenzene	0.534	U	0.350	1.00	1	04/26/2015 21:49	WG784762
Styrene	U		0.310	1.00	1	04/26/2015 21:49	WG784762
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/26/2015 21:49	WG784762
1,1,2,2-Tetrachloroethane	0.308	U	0.130	1.00	1	04/26/2015 21:49	WG784762
Tetrachloroethene	U		0.370	1.00	1	04/26/2015 21:49	WG784762
Toluene	U		0.780	5.00	1	04/26/2015 21:49	WG784762
1,1,1-Trichloroethane	U		0.319	1.00	1	04/26/2015 21:49	WG784762
1,1,2-Trichloroethane	0.384	U	0.380	1.00	1	04/26/2015 21:49	WG784762
Trichloroethene	U		0.400	1.00	1	04/26/2015 21:49	WG784762
1,2,4-Trimethylbenzene	0.699	U	0.370	1.00	1	04/26/2015 21:49	WG784762
1,3,5-Trimethylbenzene	0.697	U	0.390	1.00	1	04/26/2015 21:49	WG784762
Vinyl chloride	U		0.260	1.00	1	04/26/2015 21:49	WG784762
o-Xylene	U		0.340	1.00	1	04/26/2015 21:49	WG784762
m&p-Xylene	U		0.720	1.00	1	04/26/2015 21:49	WG784762
Xylenes, Total	U		1.10	3.00	1	04/26/2015 21:49	WG784762
(S) Toluene-d8	104			88.5-111		04/26/2015 21:49	WG784762
(S) Dibromofluoromethane	106			78.3-121		04/26/2015 21:49	WG784762
(S) 4-Bromofluorobenzene	104			71.0-126		04/26/2015 21:49	WG784762

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	21000		120	500	5	04/22/2015 12:43	WG783364
(S) o-Terphenyl	102			50.0-150		04/22/2015 12:43	WG783364



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	5350000		2800	10000	1	04/27/2015 08:56	WG784339

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		200	1000	10	05/04/2015 12:45	WG785021

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	10800		52.0	1000	1	04/29/2015 22:48	WG785637
Fluoride	4210		9.90	100	1	04/29/2015 19:35	WG785637
Sulfate	37700		77.0	5000	1	04/29/2015 22:48	WG785637

Metals (ICPMS) by Method 6020

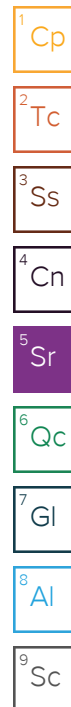
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	92.8		1.20	10.0	5	04/24/2015 13:36	WG783155
Arsenic,Dissolved	92.1		1.20	10.0	5	04/28/2015 14:41	WG783442
Barium	15.8	U	1.80	25.0	5	04/24/2015 13:36	WG783155
Barium,Dissolved	14.4	U	1.80	25.0	5	04/28/2015 14:41	WG783442
Calcium	609000		230	5000	5	04/24/2015 13:36	WG783155
Chromium	14.4		2.70	10.0	5	04/24/2015 13:36	WG783155
Chromium,Dissolved	11.6		2.70	10.0	5	04/28/2015 14:41	WG783442
Iron	14900		75.0	500	5	04/24/2015 13:36	WG783155
Iron,Dissolved	13600		75.0	500	5	04/28/2015 14:41	WG783442
Lead	U		1.20	10.0	5	04/24/2015 13:36	WG783155
Lead,Dissolved	U		1.20	10.0	5	04/28/2015 14:41	WG783442
Manganese	666		1.20	25.0	5	04/24/2015 13:36	WG783155
Manganese,Dissolved	644		1.20	25.0	5	04/28/2015 14:41	WG783442
Potassium	72100		180	5000	5	04/24/2015 13:36	WG783155
Selenium	13.5		1.90	10.0	5	04/24/2015 13:36	WG783155
Selenium,Dissolved	12.7		1.90	10.0	5	04/28/2015 14:41	WG783442
Sodium	1410000		550	5000	5	04/24/2015 13:36	WG783155

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	893		31.0	100	1	04/28/2015 16:51	WG785183
(S) a,a,a-Trifluorotoluene(FID)	96.8			62.0-128		04/28/2015 16:51	WG785183

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	135		10.0	50.0	1	04/26/2015 23:30	WG784762
Benzene	9.62		0.330	1.00	1	04/26/2015 23:30	WG784762
Bromodichloromethane	U		0.380	1.00	1	04/26/2015 23:30	WG784762
Bromoform	U		0.470	1.00	1	04/26/2015 23:30	WG784762
Bromomethane	U		0.870	5.00	1	04/26/2015 23:30	WG784762
n-Butylbenzene	U		0.360	1.00	1	04/26/2015 23:30	WG784762
sec-Butylbenzene	3.90		0.360	1.00	1	04/26/2015 23:30	WG784762
Carbon disulfide	2.04		0.280	1.00	1	04/26/2015 23:30	WG784762
Carbon tetrachloride	U		0.380	1.00	1	04/26/2015 23:30	WG784762
Chlorobenzene	U		0.350	1.00	1	04/26/2015 23:30	WG784762





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/26/2015 23:30	WG784762
Chloroethane	U		0.450	5.00	1	04/26/2015 23:30	WG784762
Chloroform	U		0.320	5.00	1	04/26/2015 23:30	WG784762
Chloromethane	U		0.280	2.50	1	04/26/2015 23:30	WG784762
1,2-Dibromoethane	U		0.380	1.00	1	04/26/2015 23:30	WG784762
1,1-Dichloroethane	U		0.260	1.00	1	04/26/2015 23:30	WG784762
1,2-Dichloroethane	U		0.360	1.00	1	04/26/2015 23:30	WG784762
1,1-Dichloroethene	U		0.400	1.00	1	04/26/2015 23:30	WG784762
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/26/2015 23:30	WG784762
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/26/2015 23:30	WG784762
1,2-Dichloropropane	U		0.310	1.00	1	04/26/2015 23:30	WG784762
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/26/2015 23:30	WG784762
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/26/2015 23:30	WG784762
Ethylbenzene	3.63		0.380	1.00	1	04/26/2015 23:30	WG784762
Isopropylbenzene	27.4		0.330	1.00	1	04/26/2015 23:30	WG784762
p-Isopropyltoluene	2.85		0.350	1.00	1	04/26/2015 23:30	WG784762
2-Butanone (MEK)	U		3.90	10.0	1	04/26/2015 23:30	WG784762
2-Hexanone	U		3.80	10.0	1	04/26/2015 23:30	WG784762
Methylene Chloride	U		1.00	5.00	1	04/26/2015 23:30	WG784762
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/26/2015 23:30	WG784762
Methyl tert-butyl ether	13.1		0.370	1.00	1	04/26/2015 23:30	WG784762
Naphthalene	U		1.00	5.00	1	04/26/2015 23:30	WG784762
n-Propylbenzene	10.8		0.350	1.00	1	04/26/2015 23:30	WG784762
Styrene	U		0.310	1.00	1	04/26/2015 23:30	WG784762
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/26/2015 23:30	WG784762
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/26/2015 23:30	WG784762
Tetrachloroethene	U		0.370	1.00	1	04/26/2015 23:30	WG784762
Toluene	2.16	J	0.780	5.00	1	04/26/2015 23:30	WG784762
1,1,1-Trichloroethane	U		0.319	1.00	1	04/26/2015 23:30	WG784762
1,1,2-Trichloroethane	U		0.380	1.00	1	04/26/2015 23:30	WG784762
Trichloroethene	U		0.400	1.00	1	04/26/2015 23:30	WG784762
1,2,4-Trimethylbenzene	3.33		0.370	1.00	1	04/26/2015 23:30	WG784762
1,3,5-Trimethylbenzene	2.39		0.390	1.00	1	04/26/2015 23:30	WG784762
Vinyl chloride	U		0.260	1.00	1	04/26/2015 23:30	WG784762
o-Xylene	1.01		0.340	1.00	1	04/26/2015 23:30	WG784762
m&p-Xylene	4.30		0.720	1.00	1	04/26/2015 23:30	WG784762
Xylenes, Total	5.31		1.10	3.00	1	04/26/2015 23:30	WG784762
(S) Toluene-d8	106			88.5-111		04/26/2015 23:30	WG784762
(S) Dibromofluoromethane	110			78.3-121		04/26/2015 23:30	WG784762
(S) 4-Bromofluorobenzene	100			71.0-126		04/26/2015 23:30	WG784762

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	140000		490	2000	20	04/22/2015 13:53	WG783364
(S) o-Terphenyl	0.000	J7		50.0-150		04/22/2015 13:53	WG783364



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	2560000		2800	10000	1	04/27/2015 08:58	WG784339

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	4240		200	1000	10	05/04/2015 12:46	WG785021

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	63200		52.0	1000	1	04/29/2015 19:49	WG785637
Fluoride	97.9	J	9.90	100	1	04/29/2015 23:03	WG785637
Sulfate	19600		77.0	5000	1	04/29/2015 23:03	WG785637

Metals (ICPMS) by Method 6020

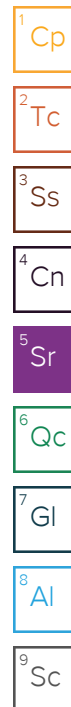
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	21.1		1.20	10.0	5	04/24/2015 13:39	WG783155
Arsenic,Dissolved	11.7		1.20	10.0	5	04/28/2015 14:43	WG783442
Barium	31.8		1.80	25.0	5	04/24/2015 13:39	WG783155
Barium,Dissolved	32.0		1.80	25.0	5	04/28/2015 14:43	WG783442
Calcium	576000		230	5000	5	04/24/2015 13:39	WG783155
Chromium	133		2.70	10.0	5	04/24/2015 13:39	WG783155
Chromium,Dissolved	34.2		2.70	10.0	5	04/28/2015 14:43	WG783442
Iron	12300		75.0	500	5	04/24/2015 13:39	WG783155
Iron,Dissolved	10700		75.0	500	5	04/28/2015 14:43	WG783442
Lead	U		1.20	10.0	5	04/24/2015 13:39	WG783155
Lead,Dissolved	U		1.20	10.0	5	04/28/2015 14:43	WG783442
Manganese	1290		1.20	25.0	5	04/24/2015 13:39	WG783155
Manganese,Dissolved	1260		1.20	25.0	5	04/28/2015 14:43	WG783442
Potassium	18900		180	5000	5	04/24/2015 13:39	WG783155
Selenium	15.6		1.90	10.0	5	04/24/2015 13:39	WG783155
Selenium,Dissolved	12.2		1.90	10.0	5	04/28/2015 14:43	WG783442
Sodium	320000		550	5000	5	04/24/2015 13:39	WG783155

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	279		31.0	100	1	04/29/2015 19:23	WG784848
(S) a,a,a-Trifluorotoluene(FID)	98.1			62.0-128		04/29/2015 19:23	WG784848

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	64.9		10.0	50.0	1	04/26/2015 23:50	WG784762
Benzene	11.4		0.330	1.00	1	04/26/2015 23:50	WG784762
Bromodichloromethane	U		0.380	1.00	1	04/26/2015 23:50	WG784762
Bromoform	U		0.470	1.00	1	04/26/2015 23:50	WG784762
Bromomethane	U		0.870	5.00	1	04/26/2015 23:50	WG784762
n-Butylbenzene	U		0.360	1.00	1	04/26/2015 23:50	WG784762
sec-Butylbenzene	0.558	J	0.360	1.00	1	04/26/2015 23:50	WG784762
Carbon disulfide	0.862	J	0.280	1.00	1	04/26/2015 23:50	WG784762
Carbon tetrachloride	U		0.380	1.00	1	04/26/2015 23:50	WG784762
Chlorobenzene	U		0.350	1.00	1	04/26/2015 23:50	WG784762





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/26/2015 23:50	WG784762
Chloroethane	U		0.450	5.00	1	04/26/2015 23:50	WG784762
Chloroform	U		0.320	5.00	1	04/26/2015 23:50	WG784762
Chloromethane	0.450	J	0.280	2.50	1	04/26/2015 23:50	WG784762
1,2-Dibromoethane	U		0.380	1.00	1	04/26/2015 23:50	WG784762
1,1-Dichloroethane	U		0.260	1.00	1	04/26/2015 23:50	WG784762
1,2-Dichloroethane	U		0.360	1.00	1	04/26/2015 23:50	WG784762
1,1-Dichloroethene	U		0.400	1.00	1	04/26/2015 23:50	WG784762
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/26/2015 23:50	WG784762
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/26/2015 23:50	WG784762
1,2-Dichloropropane	U		0.310	1.00	1	04/26/2015 23:50	WG784762
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/26/2015 23:50	WG784762
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/26/2015 23:50	WG784762
Ethylbenzene	2.62		0.380	1.00	1	04/26/2015 23:50	WG784762
Isopropylbenzene	3.48		0.330	1.00	1	04/26/2015 23:50	WG784762
p-Isopropyltoluene	0.443	J	0.350	1.00	1	04/26/2015 23:50	WG784762
2-Butanone (MEK)	U		3.90	10.0	1	04/26/2015 23:50	WG784762
2-Hexanone	U		3.80	10.0	1	04/26/2015 23:50	WG784762
Methylene Chloride	U		1.00	5.00	1	04/26/2015 23:50	WG784762
4-Methyl-2-pentanone (MIBK)	2.30	J	2.10	10.0	1	04/26/2015 23:50	WG784762
Methyl tert-butyl ether	0.629	J	0.370	1.00	1	04/26/2015 23:50	WG784762
Naphthalene	U		1.00	5.00	1	04/26/2015 23:50	WG784762
n-Propylbenzene	3.90		0.350	1.00	1	04/26/2015 23:50	WG784762
Styrene	U		0.310	1.00	1	04/26/2015 23:50	WG784762
1,1,1,2-Tetrachloroethane	0.458	J	0.380	1.00	1	04/26/2015 23:50	WG784762
1,1,2,2-Tetrachloroethane	0.305	J	0.130	1.00	1	04/26/2015 23:50	WG784762
Tetrachloroethene	U		0.370	1.00	1	04/26/2015 23:50	WG784762
Toluene	3.85	J	0.780	5.00	1	04/26/2015 23:50	WG784762
1,1,1-Trichloroethane	U		0.319	1.00	1	04/26/2015 23:50	WG784762
1,1,2-Trichloroethane	U		0.380	1.00	1	04/26/2015 23:50	WG784762
Trichloroethene	U		0.400	1.00	1	04/26/2015 23:50	WG784762
1,2,4-Trimethylbenzene	1.32		0.370	1.00	1	04/26/2015 23:50	WG784762
1,3,5-Trimethylbenzene	0.829	J	0.390	1.00	1	04/26/2015 23:50	WG784762
Vinyl chloride	U		0.260	1.00	1	04/26/2015 23:50	WG784762
o-Xylene	3.56		0.340	1.00	1	04/26/2015 23:50	WG784762
m&p-Xylene	1.46		0.720	1.00	1	04/26/2015 23:50	WG784762
Xylenes, Total	5.02		1.10	3.00	1	04/26/2015 23:50	WG784762
(S) Toluene-d8	105			88.5-111		04/26/2015 23:50	WG784762
(S) Dibromofluoromethane	107			78.3-121		04/26/2015 23:50	WG784762
(S) 4-Bromofluorobenzene	103			71.0-126		04/26/2015 23:50	WG784762

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	67000		490	2000	20	04/22/2015 14:10	WG783364
(S) o-Terphenyl	0.000	J7		50.0-150		04/22/2015 14:10	WG783364



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	4020000		2800	10000	1	04/27/2015 08:55	WG784339

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		200	1000	10	05/04/2015 12:47	WG785021

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	11800		52.0	1000	1	04/29/2015 23:18	WG785637
Fluoride	8200		9.90	100	1	04/29/2015 20:04	WG785637
Sulfate	14200		77.0	5000	1	04/29/2015 23:18	WG785637

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	400		1.20	10.0	5	04/24/2015 13:42	WG783155
Arsenic,Dissolved	355		0.250	2.00	1	04/28/2015 14:46	WG783442
Barium	18.3	J	1.80	25.0	5	04/24/2015 13:42	WG783155
Barium,Dissolved	18.6		0.360	5.00	1	04/28/2015 14:46	WG783442
Calcium	372000		230	5000	5	04/24/2015 13:42	WG783155
Chromium	3.96	J	2.70	10.0	5	04/24/2015 13:42	WG783155
Chromium,Dissolved	3.00		0.540	2.00	1	04/28/2015 14:46	WG783442
Iron	10700		75.0	500	5	04/24/2015 13:42	WG783155
Iron,Dissolved	9820		15.0	100	1	04/28/2015 14:46	WG783442
Lead	U		1.20	10.0	5	04/24/2015 13:42	WG783155
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 14:46	WG783442
Manganese	901		1.20	25.0	5	04/24/2015 13:42	WG783155
Manganese,Dissolved	861		0.250	5.00	1	04/28/2015 14:46	WG783442
Potassium	20300		180	5000	5	04/24/2015 13:42	WG783155
Selenium	3.11	J	1.90	10.0	5	04/24/2015 13:42	WG783155
Selenium,Dissolved	2.61		0.380	2.00	1	04/28/2015 14:46	WG783442
Sodium	1490000		550	5000	5	04/24/2015 13:42	WG783155

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	2310		31.0	100	1	04/28/2015 17:16	WG785183
(S) a,a,a-Trifluorotoluene(FID)	97.2			62.0-128		04/28/2015 17:16	WG785183

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		100	500	10	04/24/2015 11:41	WG783745
Benzene	U		3.30	10.0	10	04/24/2015 11:41	WG783745
Bromodichloromethane	U		3.80	10.0	10	04/24/2015 11:41	WG783745
Bromoform	U		4.70	10.0	10	04/24/2015 11:41	WG783745
Bromomethane	U		8.70	50.0	10	04/24/2015 11:41	WG783745
n-Butylbenzene	U		3.60	10.0	10	04/24/2015 11:41	WG783745
sec-Butylbenzene	U		3.60	10.0	10	04/24/2015 11:41	WG783745
Carbon disulfide	U		2.80	10.0	10	04/24/2015 11:41	WG783745
Carbon tetrachloride	U		3.80	10.0	10	04/24/2015 11:41	WG783745
Chlorobenzene	U		3.50	10.0	10	04/24/2015 11:41	WG783745



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		3.30	10.0	10	04/24/2015 11:41	WG783745
Chloroethane	U		4.50	50.0	10	04/24/2015 11:41	WG783745
Chloroform	U		3.20	50.0	10	04/24/2015 11:41	WG783745
Chloromethane	U		2.80	25.0	10	04/24/2015 11:41	WG783745
1,2-Dibromoethane	U		3.80	10.0	10	04/24/2015 11:41	WG783745
1,1-Dichloroethane	U		2.60	10.0	10	04/24/2015 11:41	WG783745
1,2-Dichloroethane	U		3.60	10.0	10	04/24/2015 11:41	WG783745
1,1-Dichloroethene	U		4.00	10.0	10	04/24/2015 11:41	WG783745
cis-1,2-Dichloroethene	U		2.60	10.0	10	04/24/2015 11:41	WG783745
trans-1,2-Dichloroethene	U		4.00	10.0	10	04/24/2015 11:41	WG783745
1,2-Dichloropropane	U		3.10	10.0	10	04/24/2015 11:41	WG783745
cis-1,3-Dichloropropene	U		4.20	10.0	10	04/24/2015 11:41	WG783745
trans-1,3-Dichloropropene	U		4.20	10.0	10	04/24/2015 11:41	WG783745
Ethylbenzene	U		3.80	10.0	10	04/24/2015 11:41	WG783745
Isopropylbenzene	7.31	J	3.30	10.0	10	04/24/2015 11:41	WG783745
p-Isopropyltoluene	U		3.50	10.0	10	04/24/2015 11:41	WG783745
2-Butanone (MEK)	U		39.0	100	10	04/24/2015 11:41	WG783745
2-Hexanone	U		38.0	100	10	04/24/2015 11:41	WG783745
Methylene Chloride	U		10.0	50.0	10	04/24/2015 11:41	WG783745
4-Methyl-2-pentanone (MIBK)	U		21.0	100	10	04/24/2015 11:41	WG783745
Methyl tert-butyl ether	9.35	J	3.70	10.0	10	04/24/2015 11:41	WG783745
Naphthalene	U		10.0	50.0	10	04/24/2015 11:41	WG783745
n-Propylbenzene	U		3.50	10.0	10	04/24/2015 11:41	WG783745
Styrene	U		3.10	10.0	10	04/24/2015 11:41	WG783745
1,1,1,2-Tetrachloroethane	U		3.80	10.0	10	04/24/2015 11:41	WG783745
1,1,2,2-Tetrachloroethane	U		1.30	10.0	10	04/24/2015 11:41	WG783745
Tetrachloroethene	U		3.70	10.0	10	04/24/2015 11:41	WG783745
Toluene	U		7.80	50.0	10	04/24/2015 11:41	WG783745
1,1,1-Trichloroethane	U		3.19	10.0	10	04/24/2015 11:41	WG783745
1,1,2-Trichloroethane	U		3.80	10.0	10	04/24/2015 11:41	WG783745
Trichloroethene	U		4.00	10.0	10	04/24/2015 11:41	WG783745
1,2,4-Trimethylbenzene	U		3.70	10.0	10	04/24/2015 11:41	WG783745
1,3,5-Trimethylbenzene	U		3.90	10.0	10	04/24/2015 11:41	WG783745
Vinyl chloride	U		2.60	10.0	10	04/24/2015 11:41	WG783745
o-Xylene	U		3.40	10.0	10	04/24/2015 11:41	WG783745
m&p-Xylene	U		7.20	10.0	10	04/24/2015 11:41	WG783745
Xylenes, Total	U		11.0	30.0	10	04/24/2015 11:41	WG783745
(S) Toluene-d8	107			88.5-111		04/24/2015 11:41	WG783745
(S) Dibromofluoromethane	104			78.3-121		04/24/2015 11:41	WG783745
(S) 4-Bromofluorobenzene	105			71.0-126		04/24/2015 11:41	WG783745

Sample Narrative:

8260B L760247-04 WG783745: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	22000		120	500	5	04/22/2015 13:01	WG783364
(S) o-Terphenyl	118			50.0-150		04/22/2015 13:01	WG783364

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



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	4810000		2800	10000	1	04/27/2015 08:58	WG784339

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		200	1000	10	05/04/2015 12:48	WG785021

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	55500		52.0	1000	1	04/29/2015 20:19	WG785637
Fluoride	3960		9.90	100	1	04/29/2015 20:19	WG785637
Sulfate	32700		77.0	5000	1	04/29/2015 23:33	WG785637

Metals (ICPMS) by Method 6020

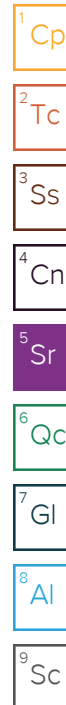
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	30.4		1.20	10.0	5	04/24/2015 13:59	WG783155
Arsenic,Dissolved	25.3		0.250	2.00	1	04/28/2015 02:15	WG783444
Barium	11.6	J	1.80	25.0	5	04/24/2015 13:59	WG783155
Barium,Dissolved	12.9		0.360	5.00	1	04/28/2015 02:15	WG783444
Calcium	566000		230	5000	5	04/24/2015 13:59	WG783155
Chromium	11.5		2.70	10.0	5	04/24/2015 13:59	WG783155
Chromium,Dissolved	7.66		0.540	2.00	1	04/28/2015 02:15	WG783444
Iron	8980		75.0	500	5	04/24/2015 13:59	WG783155
Iron,Dissolved	6990		15.0	100	1	04/28/2015 02:15	WG783444
Lead	U		1.20	10.0	5	04/24/2015 13:59	WG783155
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 02:15	WG783444
Manganese	863		1.20	25.0	5	04/24/2015 13:59	WG783155
Manganese,Dissolved	741		0.250	5.00	1	04/28/2015 02:15	WG783444
Potassium	58400		180	5000	5	04/24/2015 13:59	WG783155
Selenium	3.76	J	1.90	10.0	5	04/24/2015 13:59	WG783155
Selenium,Dissolved	3.76		0.380	2.00	1	04/28/2015 02:15	WG783444
Sodium	364000		550	5000	5	04/24/2015 13:59	WG783155

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	278		31.0	100	1	04/30/2015 17:48	WG785724
(S) a,a,a-Trifluorotoluene(FID) 104				62.0-128		04/30/2015 17:48	WG785724

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	23.5	J	10.0	50.0	1	04/30/2015 16:57	WG785836
Benzene	U		0.330	1.00	1	04/30/2015 16:57	WG785836
Bromodichloromethane	U		0.380	1.00	1	04/30/2015 16:57	WG785836
Bromoform	U		0.470	1.00	1	04/30/2015 16:57	WG785836
Bromomethane	U		0.870	5.00	1	04/30/2015 16:57	WG785836
n-Butylbenzene	U		0.360	1.00	1	04/30/2015 16:57	WG785836
sec-Butylbenzene	U		0.360	1.00	1	04/30/2015 16:57	WG785836
Carbon disulfide	U		0.280	1.00	1	04/30/2015 16:57	WG785836
Carbon tetrachloride	U		0.380	1.00	1	04/30/2015 16:57	WG785836
Chlorobenzene	U		0.350	1.00	1	04/30/2015 16:57	WG785836





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/30/2015 16:57	WG785836
Chloroethane	U		0.450	5.00	1	04/30/2015 16:57	WG785836
Chloroform	U		0.320	5.00	1	04/30/2015 16:57	WG785836
Chloromethane	U		0.280	2.50	1	04/30/2015 16:57	WG785836
1,2-Dibromoethane	U		0.380	1.00	1	04/30/2015 16:57	WG785836
1,1-Dichloroethane	U		0.260	1.00	1	04/30/2015 16:57	WG785836
1,2-Dichloroethane	U		0.360	1.00	1	04/30/2015 16:57	WG785836
1,1-Dichloroethene	U		0.400	1.00	1	04/30/2015 16:57	WG785836
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/30/2015 16:57	WG785836
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/30/2015 16:57	WG785836
1,2-Dichloropropane	U		0.310	1.00	1	04/30/2015 16:57	WG785836
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/30/2015 16:57	WG785836
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/30/2015 16:57	WG785836
Ethylbenzene	U		0.380	1.00	1	04/30/2015 16:57	WG785836
Isopropylbenzene	1.59		0.330	1.00	1	04/30/2015 16:57	WG785836
p-Isopropyltoluene	U		0.350	1.00	1	04/30/2015 16:57	WG785836
2-Butanone (MEK)	U		3.90	10.0	1	04/30/2015 16:57	WG785836
2-Hexanone	U		3.80	10.0	1	04/30/2015 16:57	WG785836
Methylene Chloride	U		1.00	5.00	1	04/30/2015 16:57	WG785836
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/30/2015 16:57	WG785836
Methyl tert-butyl ether	U		0.370	1.00	1	04/30/2015 16:57	WG785836
Naphthalene	U		1.00	5.00	1	04/30/2015 16:57	WG785836
n-Propylbenzene	0.534	J	0.350	1.00	1	04/30/2015 16:57	WG785836
Styrene	U		0.310	1.00	1	04/30/2015 16:57	WG785836
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/30/2015 16:57	WG785836
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/30/2015 16:57	WG785836
Tetrachloroethene	U		0.370	1.00	1	04/30/2015 16:57	WG785836
Toluene	U		0.780	5.00	1	04/30/2015 16:57	WG785836
1,1,1-Trichloroethane	U		0.319	1.00	1	04/30/2015 16:57	WG785836
1,1,2-Trichloroethane	U		0.380	1.00	1	04/30/2015 16:57	WG785836
Trichloroethene	U		0.400	1.00	1	04/30/2015 16:57	WG785836
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/30/2015 16:57	WG785836
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/30/2015 16:57	WG785836
Vinyl chloride	U		0.260	1.00	1	04/30/2015 16:57	WG785836
o-Xylene	0.607	J	0.340	1.00	1	04/30/2015 16:57	WG785836
m&p-Xylene	U		0.720	1.00	1	04/30/2015 16:57	WG785836
Xylenes, Total	U		1.10	3.00	1	04/30/2015 16:57	WG785836
(S) Toluene-d8	103			88.5-111		04/30/2015 16:57	WG785836
(S) Dibromofluoromethane	94.9			78.3-121		04/30/2015 16:57	WG785836
(S) 4-Bromofluorobenzene	103			71.0-126		04/30/2015 16:57	WG785836

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	31000		490	2000	20	04/22/2015 13:36	WG783364
(S) o-Terphenyl	0.000	J7		50.0-150		04/22/2015 13:36	WG783364



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	12200000		2800	10000	1	04/27/2015 08:55	WG784339

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	24500		200	1000	10	05/04/2015 12:49	WG785021

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	33200		52.0	1000	1	04/29/2015 23:48	WG785637
Fluoride	2100		9.90	100	1	04/29/2015 20:34	WG785637
Sulfate	25000		77.0	5000	1	04/29/2015 23:48	WG785637

Metals (ICPMS) by Method 6020

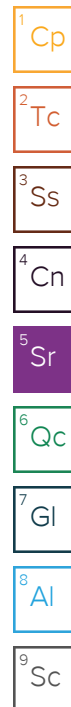
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	28.8		1.20	10.0	5	04/24/2015 14:20	WG783155
Arsenic,Dissolved	26.9		0.250	2.00	1	04/28/2015 02:17	WG783444
Barium	18.6	J	1.80	25.0	5	04/24/2015 14:20	WG783155
Barium,Dissolved	18.0		0.360	5.00	1	04/28/2015 02:17	WG783444
Calcium	839000		230	5000	5	04/24/2015 14:20	WG783155
Chromium	U		2.70	10.0	5	04/24/2015 14:20	WG783155
Chromium,Dissolved	U		0.540	2.00	1	04/28/2015 02:17	WG783444
Iron	U		75.0	500	5	04/24/2015 14:20	WG783155
Iron,Dissolved	U		15.0	100	1	04/28/2015 02:17	WG783444
Lead	U		1.20	10.0	5	04/24/2015 14:20	WG783155
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 02:17	WG783444
Manganese	1550		1.20	25.0	5	04/24/2015 14:20	WG783155
Manganese,Dissolved	1370		0.250	5.00	1	04/28/2015 02:17	WG783444
Potassium	6160		180	5000	5	04/24/2015 14:20	WG783155
Selenium	108		1.90	10.0	5	04/24/2015 14:20	WG783155
Selenium,Dissolved	95.0		0.380	2.00	1	04/28/2015 02:17	WG783444
Sodium	1850000		550	5000	5	04/24/2015 14:20	WG783155

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	134		31.0	100	1	04/28/2015 17:41	WG785183
(S) a,a,a-Trifluorotoluene(FID)	97.6			62.0-128		04/28/2015 17:41	WG785183

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	12.0	J	10.0	50.0	1	04/30/2015 17:17	WG785836
Benzene	0.609	J	0.330	1.00	1	04/30/2015 17:17	WG785836
Bromodichloromethane	U		0.380	1.00	1	04/30/2015 17:17	WG785836
Bromoform	U		0.470	1.00	1	04/30/2015 17:17	WG785836
Bromomethane	U		0.870	5.00	1	04/30/2015 17:17	WG785836
n-Butylbenzene	U		0.360	1.00	1	04/30/2015 17:17	WG785836
sec-Butylbenzene	U		0.360	1.00	1	04/30/2015 17:17	WG785836
Carbon disulfide	U		0.280	1.00	1	04/30/2015 17:17	WG785836
Carbon tetrachloride	U		0.380	1.00	1	04/30/2015 17:17	WG785836
Chlorobenzene	U		0.350	1.00	1	04/30/2015 17:17	WG785836





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/30/2015 17:17	WG785836
Chloroethane	U		0.450	5.00	1	04/30/2015 17:17	WG785836
Chloroform	U		0.320	5.00	1	04/30/2015 17:17	WG785836
Chloromethane	U		0.280	2.50	1	04/30/2015 17:17	WG785836
1,2-Dibromoethane	U		0.380	1.00	1	04/30/2015 17:17	WG785836
1,1-Dichloroethane	U		0.260	1.00	1	04/30/2015 17:17	WG785836
1,2-Dichloroethane	U		0.360	1.00	1	04/30/2015 17:17	WG785836
1,1-Dichloroethene	U		0.400	1.00	1	04/30/2015 17:17	WG785836
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/30/2015 17:17	WG785836
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/30/2015 17:17	WG785836
1,2-Dichloropropane	U		0.310	1.00	1	04/30/2015 17:17	WG785836
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/30/2015 17:17	WG785836
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/30/2015 17:17	WG785836
Ethylbenzene	U		0.380	1.00	1	04/30/2015 17:17	WG785836
Isopropylbenzene	U		0.330	1.00	1	04/30/2015 17:17	WG785836
p-Isopropyltoluene	U		0.350	1.00	1	04/30/2015 17:17	WG785836
2-Butanone (MEK)	U		3.90	10.0	1	04/30/2015 17:17	WG785836
2-Hexanone	U		3.80	10.0	1	04/30/2015 17:17	WG785836
Methylene Chloride	U		1.00	5.00	1	04/30/2015 17:17	WG785836
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/30/2015 17:17	WG785836
Methyl tert-butyl ether	U		0.370	1.00	1	04/30/2015 17:17	WG785836
Naphthalene	U		1.00	5.00	1	04/30/2015 17:17	WG785836
n-Propylbenzene	U		0.350	1.00	1	04/30/2015 17:17	WG785836
Styrene	U		0.310	1.00	1	04/30/2015 17:17	WG785836
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/30/2015 17:17	WG785836
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/30/2015 17:17	WG785836
Tetrachloroethene	U		0.370	1.00	1	04/30/2015 17:17	WG785836
Toluene	U		0.780	5.00	1	04/30/2015 17:17	WG785836
1,1,1-Trichloroethane	U		0.319	1.00	1	04/30/2015 17:17	WG785836
1,1,2-Trichloroethane	U		0.380	1.00	1	04/30/2015 17:17	WG785836
Trichloroethene	U		0.400	1.00	1	04/30/2015 17:17	WG785836
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/30/2015 17:17	WG785836
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/30/2015 17:17	WG785836
Vinyl chloride	U		0.260	1.00	1	04/30/2015 17:17	WG785836
o-Xylene	U		0.340	1.00	1	04/30/2015 17:17	WG785836
m&p-Xylene	U		0.720	1.00	1	04/30/2015 17:17	WG785836
Xylenes, Total	U		1.10	3.00	1	04/30/2015 17:17	WG785836
(S) Toluene-d8	102			88.5-111		04/30/2015 17:17	WG785836
(S) Dibromofluoromethane	93.2			78.3-121		04/30/2015 17:17	WG785836
(S) 4-Bromofluorobenzene	107			71.0-126		04/30/2015 17:17	WG785836

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	8500		25.0	100	1	04/22/2015 07:42	WG783364
(S) o-Terphenyl	108			50.0-150		04/22/2015 07:42	WG783364



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	4230000		2800	10000	1	04/24/2015 08:36	WG783688

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		200	1000	10	05/04/2015 12:51	WG785021

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	1460000		5200	100000	100	04/27/2015 23:16	WG784715
Fluoride	4410		9.90	100	1	04/27/2015 17:14	WG784715
Sulfate	4620000		7700	500000	100	04/27/2015 23:16	WG784715

Metals (ICPMS) by Method 6020

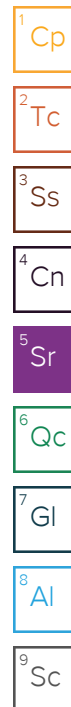
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	116		1.20	10.0	5	04/24/2015 14:23	WG783155
Arsenic,Dissolved	88.5		0.250	2.00	1	04/28/2015 02:20	WG783444
Barium	13.5	U	1.80	25.0	5	04/24/2015 14:23	WG783155
Barium,Dissolved	13.9		0.360	5.00	1	04/28/2015 02:20	WG783444
Calcium	555000		230	5000	5	04/24/2015 14:23	WG783155
Chromium	5.00	U	2.70	10.0	5	04/24/2015 14:23	WG783155
Chromium,Dissolved	3.35		0.540	2.00	1	04/28/2015 02:20	WG783444
Iron	2540		75.0	500	5	04/24/2015 14:23	WG783155
Iron,Dissolved	265		15.0	100	1	04/28/2015 02:20	WG783444
Lead	U		1.20	10.0	5	04/24/2015 14:23	WG783155
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 02:20	WG783444
Manganese	2830		1.20	25.0	5	04/24/2015 14:23	WG783155
Manganese,Dissolved	2900		0.250	5.00	1	04/28/2015 02:20	WG783444
Potassium	7410		180	5000	5	04/24/2015 14:23	WG783155
Selenium	4.52	U	1.90	10.0	5	04/24/2015 14:23	WG783155
Selenium,Dissolved	5.00		0.380	2.00	1	04/28/2015 02:20	WG783444
Sodium	1480000		550	5000	5	04/24/2015 14:23	WG783155

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	613		31.0	100	1	04/28/2015 18:06	WG785183
(S) a,a,a-Trifluorotoluene(FID)	97.6			62.0-128		04/28/2015 18:06	WG785183

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	26.3	U	10.0	50.0	1	04/30/2015 17:37	WG785836
Benzene	0.664	U	0.330	1.00	1	04/30/2015 17:37	WG785836
Bromodichloromethane	U		0.380	1.00	1	04/30/2015 17:37	WG785836
Bromoform	U		0.470	1.00	1	04/30/2015 17:37	WG785836
Bromomethane	U		0.870	5.00	1	04/30/2015 17:37	WG785836
n-Butylbenzene	U		0.360	1.00	1	04/30/2015 17:37	WG785836
sec-Butylbenzene	U		0.360	1.00	1	04/30/2015 17:37	WG785836
Carbon disulfide	U		0.280	1.00	1	04/30/2015 17:37	WG785836
Carbon tetrachloride	U		0.380	1.00	1	04/30/2015 17:37	WG785836
Chlorobenzene	U		0.350	1.00	1	04/30/2015 17:37	WG785836





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/30/2015 17:37	WG785836
Chloroethane	U		0.450	5.00	1	04/30/2015 17:37	WG785836
Chloroform	U		0.320	5.00	1	04/30/2015 17:37	WG785836
Chloromethane	U		0.280	2.50	1	04/30/2015 17:37	WG785836
1,2-Dibromoethane	U		0.380	1.00	1	04/30/2015 17:37	WG785836
1,1-Dichloroethane	U		0.260	1.00	1	04/30/2015 17:37	WG785836
1,2-Dichloroethane	U		0.360	1.00	1	04/30/2015 17:37	WG785836
1,1-Dichloroethene	U		0.400	1.00	1	04/30/2015 17:37	WG785836
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/30/2015 17:37	WG785836
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/30/2015 17:37	WG785836
1,2-Dichloropropane	U		0.310	1.00	1	04/30/2015 17:37	WG785836
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/30/2015 17:37	WG785836
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/30/2015 17:37	WG785836
Ethylbenzene	0.574	U	0.380	1.00	1	04/30/2015 17:37	WG785836
Isopropylbenzene	0.575	U	0.330	1.00	1	04/30/2015 17:37	WG785836
p-Isopropyltoluene	U		0.350	1.00	1	04/30/2015 17:37	WG785836
2-Butanone (MEK)	U		3.90	10.0	1	04/30/2015 17:37	WG785836
2-Hexanone	U		3.80	10.0	1	04/30/2015 17:37	WG785836
Methylene Chloride	U		1.00	5.00	1	04/30/2015 17:37	WG785836
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/30/2015 17:37	WG785836
Methyl tert-butyl ether	2.79		0.370	1.00	1	04/30/2015 17:37	WG785836
Naphthalene	U		1.00	5.00	1	04/30/2015 17:37	WG785836
n-Propylbenzene	U		0.350	1.00	1	04/30/2015 17:37	WG785836
Styrene	U		0.310	1.00	1	04/30/2015 17:37	WG785836
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/30/2015 17:37	WG785836
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/30/2015 17:37	WG785836
Tetrachloroethene	U		0.370	1.00	1	04/30/2015 17:37	WG785836
Toluene	U		0.780	5.00	1	04/30/2015 17:37	WG785836
1,1,1-Trichloroethane	U		0.319	1.00	1	04/30/2015 17:37	WG785836
1,1,2-Trichloroethane	U		0.380	1.00	1	04/30/2015 17:37	WG785836
Trichloroethene	U		0.400	1.00	1	04/30/2015 17:37	WG785836
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/30/2015 17:37	WG785836
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/30/2015 17:37	WG785836
Vinyl chloride	U		0.260	1.00	1	04/30/2015 17:37	WG785836
o-Xylene	U		0.340	1.00	1	04/30/2015 17:37	WG785836
m&p-Xylene	U		0.720	1.00	1	04/30/2015 17:37	WG785836
Xylenes, Total	U		1.10	3.00	1	04/30/2015 17:37	WG785836
(S) Toluene-d8	105			88.5-111		04/30/2015 17:37	WG785836
(S) Dibromofluoromethane	95.1			78.3-121		04/30/2015 17:37	WG785836
(S) 4-Bromofluorobenzene	103			71.0-126		04/30/2015 17:37	WG785836

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	62000		490	2000	20	04/22/2015 13:18	WG783364
(S) o-Terphenyl	0.000	J7		50.0-150		04/22/2015 13:18	WG783364



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	6260000		2800	10000	1	04/24/2015 08:37	WG783688

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	99500		200	1000	10	05/04/2015 12:52	WG785021

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	1110000		5200	100000	100	04/27/2015 23:30	WG784715
Fluoride	6200		9.90	100	1	04/27/2015 17:28	WG784715
Sulfate	2800000		7700	500000	100	04/27/2015 23:30	WG784715

Metals (ICPMS) by Method 6020

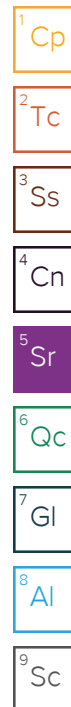
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	22.0		1.20	10.0	5	04/24/2015 14:25	WG783155
Arsenic,Dissolved	18.8		0.250	2.00	1	04/28/2015 02:22	WG783444
Barium	13.1	U	1.80	25.0	5	04/24/2015 14:25	WG783155
Barium,Dissolved	14.4		0.360	5.00	1	04/28/2015 02:22	WG783444
Calcium	583000		230	5000	5	04/24/2015 14:25	WG783155
Chromium	U		2.70	10.0	5	04/24/2015 14:25	WG783155
Chromium,Dissolved	0.736	U	0.540	2.00	1	04/28/2015 02:22	WG783444
Iron	183	U	75.0	500	5	04/24/2015 14:25	WG783155
Iron,Dissolved	19.0	U	15.0	100	1	04/28/2015 02:22	WG783444
Lead	U		1.20	10.0	5	04/24/2015 14:25	WG783155
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 02:22	WG783444
Manganese	132		1.20	25.0	5	04/24/2015 14:25	WG783155
Manganese,Dissolved	12.8		0.250	5.00	1	04/28/2015 02:22	WG783444
Potassium	9400		180	5000	5	04/24/2015 14:25	WG783155
Selenium	23.5		1.90	10.0	5	04/24/2015 14:25	WG783155
Selenium,Dissolved	22.9		0.380	2.00	1	04/28/2015 02:22	WG783444
Sodium	1380000		550	5000	5	04/24/2015 14:25	WG783155

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	U		31.0	100	1	04/24/2015 19:20	WG783223
(S) a,a,a-Trifluorotoluene(FID)	95.3			62.0-128		04/24/2015 19:20	WG783223

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/30/2015 17:57	WG785836
Benzene	U		0.330	1.00	1	04/30/2015 17:57	WG785836
Bromodichloromethane	U		0.380	1.00	1	04/30/2015 17:57	WG785836
Bromoform	U		0.470	1.00	1	04/30/2015 17:57	WG785836
Bromomethane	U		0.870	5.00	1	04/30/2015 17:57	WG785836
n-Butylbenzene	U		0.360	1.00	1	04/30/2015 17:57	WG785836
sec-Butylbenzene	U		0.360	1.00	1	04/30/2015 17:57	WG785836
Carbon disulfide	U		0.280	1.00	1	04/30/2015 17:57	WG785836
Carbon tetrachloride	U		0.380	1.00	1	04/30/2015 17:57	WG785836
Chlorobenzene	U		0.350	1.00	1	04/30/2015 17:57	WG785836





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/30/2015 17:57	WG785836
Chloroethane	U		0.450	5.00	1	04/30/2015 17:57	WG785836
Chloroform	U		0.320	5.00	1	04/30/2015 17:57	WG785836
Chloromethane	U		0.280	2.50	1	04/30/2015 17:57	WG785836
1,2-Dibromoethane	U		0.380	1.00	1	04/30/2015 17:57	WG785836
1,1-Dichloroethane	U		0.260	1.00	1	04/30/2015 17:57	WG785836
1,2-Dichloroethane	U		0.360	1.00	1	04/30/2015 17:57	WG785836
1,1-Dichloroethene	U		0.400	1.00	1	04/30/2015 17:57	WG785836
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/30/2015 17:57	WG785836
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/30/2015 17:57	WG785836
1,2-Dichloropropane	U		0.310	1.00	1	04/30/2015 17:57	WG785836
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/30/2015 17:57	WG785836
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/30/2015 17:57	WG785836
Ethylbenzene	U		0.380	1.00	1	04/30/2015 17:57	WG785836
Isopropylbenzene	U		0.330	1.00	1	04/30/2015 17:57	WG785836
p-Isopropyltoluene	U		0.350	1.00	1	04/30/2015 17:57	WG785836
2-Butanone (MEK)	U		3.90	10.0	1	04/30/2015 17:57	WG785836
2-Hexanone	U		3.80	10.0	1	04/30/2015 17:57	WG785836
Methylene Chloride	U		1.00	5.00	1	04/30/2015 17:57	WG785836
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/30/2015 17:57	WG785836
Methyl tert-butyl ether	U		0.370	1.00	1	04/30/2015 17:57	WG785836
Naphthalene	U		1.00	5.00	1	04/30/2015 17:57	WG785836
n-Propylbenzene	U		0.350	1.00	1	04/30/2015 17:57	WG785836
Styrene	U		0.310	1.00	1	04/30/2015 17:57	WG785836
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/30/2015 17:57	WG785836
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/30/2015 17:57	WG785836
Tetrachloroethene	U		0.370	1.00	1	04/30/2015 17:57	WG785836
Toluene	U		0.780	5.00	1	04/30/2015 17:57	WG785836
1,1,1-Trichloroethane	U		0.319	1.00	1	04/30/2015 17:57	WG785836
1,1,2-Trichloroethane	U		0.380	1.00	1	04/30/2015 17:57	WG785836
Trichloroethene	U		0.400	1.00	1	04/30/2015 17:57	WG785836
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/30/2015 17:57	WG785836
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/30/2015 17:57	WG785836
Vinyl chloride	U		0.260	1.00	1	04/30/2015 17:57	WG785836
o-Xylene	U		0.340	1.00	1	04/30/2015 17:57	WG785836
m&p-Xylene	U		0.720	1.00	1	04/30/2015 17:57	WG785836
Xylenes, Total	U		1.10	3.00	1	04/30/2015 17:57	WG785836
(S) Toluene-d8	103			88.5-111		04/30/2015 17:57	WG785836
(S) Dibromofluoromethane	93.8			78.3-121		04/30/2015 17:57	WG785836
(S) 4-Bromofluorobenzene	105			71.0-126		04/30/2015 17:57	WG785836

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	8000		25.0	100	1	04/22/2015 08:00	WG783364
(S) o-Terphenyl	106			50.0-150		04/22/2015 08:00	WG783364



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	5600000		2800	10000	1	04/24/2015 08:37	WG783688

Wet Chemistry by Method 353.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	519		20.0	100	1	05/01/2015 10:23	WG785023

Wet Chemistry by Method 9056MOD

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	1600000		5200	100000	100	04/27/2015 23:44	WG784715
Fluoride	3150		9.90	100	1	04/27/2015 17:42	WG784715
Sulfate	2700000		7700	500000	100	04/27/2015 23:44	WG784715

Metals (ICPMS) by Method 6020

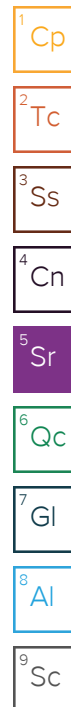
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	18.7		1.20	10.0	5	04/24/2015 14:27	WG783155
Arsenic,Dissolved	10.9		0.250	2.00	1	04/28/2015 02:25	WG783444
Barium	15.1	U	1.80	25.0	5	04/24/2015 14:27	WG783155
Barium,Dissolved	15.3		0.360	5.00	1	04/28/2015 02:25	WG783444
Calcium	693000		230	5000	5	04/24/2015 14:27	WG783155
Chromium	U		2.70	10.0	5	04/24/2015 14:27	WG783155
Chromium,Dissolved	U		0.540	2.00	1	04/28/2015 02:25	WG783444
Iron	1730		75.0	500	5	04/24/2015 14:27	WG783155
Iron,Dissolved	59.8	U	15.0	100	1	04/28/2015 02:25	WG783444
Lead	U		1.20	10.0	5	04/24/2015 14:27	WG783155
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 02:25	WG783444
Manganese	555		1.20	25.0	5	04/24/2015 14:27	WG783155
Manganese,Dissolved	381		0.250	5.00	1	04/28/2015 02:25	WG783444
Potassium	3080	U	180	5000	5	04/24/2015 14:27	WG783155
Selenium	U		1.90	10.0	5	04/24/2015 14:27	WG783155
Selenium,Dissolved	0.949	U	0.380	2.00	1	04/28/2015 02:25	WG783444
Sodium	1210000		550	5000	5	04/24/2015 14:27	WG783155

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		31.0	100	1	04/24/2015 19:45	WG783223
(S) a,a,a-Trifluorotoluene(FID)	95.6			62.0-128		04/24/2015 19:45	WG783223

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		10.0	50.0	1	04/30/2015 18:18	WG785836
Benzene	U		0.330	1.00	1	04/30/2015 18:18	WG785836
Bromodichloromethane	U		0.380	1.00	1	04/30/2015 18:18	WG785836
Bromoform	U		0.470	1.00	1	04/30/2015 18:18	WG785836
Bromomethane	U		0.870	5.00	1	04/30/2015 18:18	WG785836
n-Butylbenzene	U		0.360	1.00	1	04/30/2015 18:18	WG785836
sec-Butylbenzene	U		0.360	1.00	1	04/30/2015 18:18	WG785836
Carbon disulfide	U		0.280	1.00	1	04/30/2015 18:18	WG785836
Carbon tetrachloride	U		0.380	1.00	1	04/30/2015 18:18	WG785836
Chlorobenzene	U		0.350	1.00	1	04/30/2015 18:18	WG785836





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/30/2015 18:18	WG785836
Chloroethane	U		0.450	5.00	1	04/30/2015 18:18	WG785836
Chloroform	U		0.320	5.00	1	04/30/2015 18:18	WG785836
Chloromethane	U		0.280	2.50	1	04/30/2015 18:18	WG785836
1,2-Dibromoethane	U		0.380	1.00	1	04/30/2015 18:18	WG785836
1,1-Dichloroethane	U		0.260	1.00	1	04/30/2015 18:18	WG785836
1,2-Dichloroethane	U		0.360	1.00	1	04/30/2015 18:18	WG785836
1,1-Dichloroethene	U		0.400	1.00	1	04/30/2015 18:18	WG785836
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/30/2015 18:18	WG785836
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/30/2015 18:18	WG785836
1,2-Dichloropropane	U		0.310	1.00	1	04/30/2015 18:18	WG785836
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/30/2015 18:18	WG785836
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/30/2015 18:18	WG785836
Ethylbenzene	U		0.380	1.00	1	04/30/2015 18:18	WG785836
Isopropylbenzene	U		0.330	1.00	1	04/30/2015 18:18	WG785836
p-Isopropyltoluene	U		0.350	1.00	1	04/30/2015 18:18	WG785836
2-Butanone (MEK)	U		3.90	10.0	1	04/30/2015 18:18	WG785836
2-Hexanone	U		3.80	10.0	1	04/30/2015 18:18	WG785836
Methylene Chloride	U		1.00	5.00	1	04/30/2015 18:18	WG785836
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/30/2015 18:18	WG785836
Methyl tert-butyl ether	U		0.370	1.00	1	04/30/2015 18:18	WG785836
Naphthalene	U		1.00	5.00	1	04/30/2015 18:18	WG785836
n-Propylbenzene	U		0.350	1.00	1	04/30/2015 18:18	WG785836
Styrene	U		0.310	1.00	1	04/30/2015 18:18	WG785836
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/30/2015 18:18	WG785836
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/30/2015 18:18	WG785836
Tetrachloroethene	U		0.370	1.00	1	04/30/2015 18:18	WG785836
Toluene	U		0.780	5.00	1	04/30/2015 18:18	WG785836
1,1,1-Trichloroethane	U		0.319	1.00	1	04/30/2015 18:18	WG785836
1,1,2-Trichloroethane	U		0.380	1.00	1	04/30/2015 18:18	WG785836
Trichloroethene	U		0.400	1.00	1	04/30/2015 18:18	WG785836
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/30/2015 18:18	WG785836
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/30/2015 18:18	WG785836
Vinyl chloride	U		0.260	1.00	1	04/30/2015 18:18	WG785836
o-Xylene	U		0.340	1.00	1	04/30/2015 18:18	WG785836
m&p-Xylene	U		0.720	1.00	1	04/30/2015 18:18	WG785836
Xylenes, Total	U		1.10	3.00	1	04/30/2015 18:18	WG785836
(S) Toluene-d8	103			88.5-111		04/30/2015 18:18	WG785836
(S) Dibromofluoromethane	93.8			78.3-121		04/30/2015 18:18	WG785836
(S) 4-Bromofluorobenzene	104			71.0-126		04/30/2015 18:18	WG785836

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	750		25.0	100	1	04/22/2015 08:17	WG783364
(S) o-Terphenyl	105			50.0-150		04/22/2015 08:17	WG783364



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	5660000		2800	10000	1	04/24/2015 08:27	WG783688

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	1900	J6	20.0	100	1	05/01/2015 10:25	WG785023

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	1570000		5200	100000	100	04/27/2015 23:58	WG784715
Fluoride	5520		9.90	100	1	04/27/2015 17:56	WG784715
Sulfate	2930000		7700	500000	100	04/27/2015 23:58	WG784715

Metals (ICPMS) by Method 6020

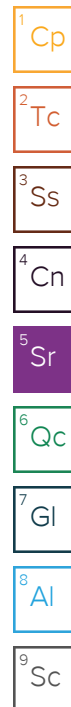
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	8.07	J	1.20	10.0	5	04/24/2015 14:30	WG783155
Arsenic,Dissolved	6.30		0.250	2.00	1	04/28/2015 02:28	WG783444
Barium	15.4	J	1.80	25.0	5	04/24/2015 14:30	WG783155
Barium,Dissolved	16.1		0.360	5.00	1	04/28/2015 02:28	WG783444
Calcium	649000		230	5000	5	04/24/2015 14:30	WG783155
Chromium	U		2.70	10.0	5	04/24/2015 14:30	WG783155
Chromium,Dissolved	U		0.540	2.00	1	04/28/2015 02:28	WG783444
Iron	276	J	75.0	500	5	04/24/2015 14:30	WG783155
Iron,Dissolved	U		15.0	100	1	04/28/2015 02:28	WG783444
Lead	U		1.20	10.0	5	04/24/2015 14:30	WG783155
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 02:28	WG783444
Manganese	1460		1.20	25.0	5	04/24/2015 14:30	WG783155
Manganese,Dissolved	1340		0.250	5.00	1	04/28/2015 02:28	WG783444
Potassium	7980		180	5000	5	04/24/2015 14:30	WG783155
Selenium	U		1.90	10.0	5	04/24/2015 14:30	WG783155
Selenium,Dissolved	1.20	J	0.380	2.00	1	04/28/2015 02:28	WG783444
Sodium	1150000		550	5000	5	04/24/2015 14:30	WG783155

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	U		31.0	100	1	04/24/2015 20:10	WG783223
(S) a,a,a-Trifluorotoluene(FID)	95.4			62.0-128		04/24/2015 20:10	WG783223

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/30/2015 18:38	WG785836
Benzene	U		0.330	1.00	1	04/30/2015 18:38	WG785836
Bromodichloromethane	U		0.380	1.00	1	04/30/2015 18:38	WG785836
Bromoform	U		0.470	1.00	1	04/30/2015 18:38	WG785836
Bromomethane	U		0.870	5.00	1	04/30/2015 18:38	WG785836
n-Butylbenzene	U		0.360	1.00	1	04/30/2015 18:38	WG785836
sec-Butylbenzene	U		0.360	1.00	1	04/30/2015 18:38	WG785836
Carbon disulfide	U		0.280	1.00	1	04/30/2015 18:38	WG785836
Carbon tetrachloride	U		0.380	1.00	1	04/30/2015 18:38	WG785836
Chlorobenzene	U		0.350	1.00	1	04/30/2015 18:38	WG785836





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/30/2015 18:38	WG785836
Chloroethane	U		0.450	5.00	1	04/30/2015 18:38	WG785836
Chloroform	U		0.320	5.00	1	04/30/2015 18:38	WG785836
Chloromethane	U		0.280	2.50	1	04/30/2015 18:38	WG785836
1,2-Dibromoethane	U		0.380	1.00	1	04/30/2015 18:38	WG785836
1,1-Dichloroethane	U		0.260	1.00	1	04/30/2015 18:38	WG785836
1,2-Dichloroethane	U		0.360	1.00	1	04/30/2015 18:38	WG785836
1,1-Dichloroethene	U		0.400	1.00	1	04/30/2015 18:38	WG785836
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/30/2015 18:38	WG785836
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/30/2015 18:38	WG785836
1,2-Dichloropropane	U		0.310	1.00	1	04/30/2015 18:38	WG785836
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/30/2015 18:38	WG785836
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/30/2015 18:38	WG785836
Ethylbenzene	U		0.380	1.00	1	04/30/2015 18:38	WG785836
Isopropylbenzene	U		0.330	1.00	1	04/30/2015 18:38	WG785836
p-Isopropyltoluene	U		0.350	1.00	1	04/30/2015 18:38	WG785836
2-Butanone (MEK)	U		3.90	10.0	1	04/30/2015 18:38	WG785836
2-Hexanone	U		3.80	10.0	1	04/30/2015 18:38	WG785836
Methylene Chloride	U		1.00	5.00	1	04/30/2015 18:38	WG785836
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/30/2015 18:38	WG785836
Methyl tert-butyl ether	U		0.370	1.00	1	04/30/2015 18:38	WG785836
Naphthalene	U		1.00	5.00	1	04/30/2015 18:38	WG785836
n-Propylbenzene	U		0.350	1.00	1	04/30/2015 18:38	WG785836
Styrene	U		0.310	1.00	1	04/30/2015 18:38	WG785836
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/30/2015 18:38	WG785836
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/30/2015 18:38	WG785836
Tetrachloroethene	U		0.370	1.00	1	04/30/2015 18:38	WG785836
Toluene	U		0.780	5.00	1	04/30/2015 18:38	WG785836
1,1,1-Trichloroethane	U		0.319	1.00	1	04/30/2015 18:38	WG785836
1,1,2-Trichloroethane	U		0.380	1.00	1	04/30/2015 18:38	WG785836
Trichloroethene	U		0.400	1.00	1	04/30/2015 18:38	WG785836
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/30/2015 18:38	WG785836
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/30/2015 18:38	WG785836
Vinyl chloride	U		0.260	1.00	1	04/30/2015 18:38	WG785836
o-Xylene	U		0.340	1.00	1	04/30/2015 18:38	WG785836
m&p-Xylene	U		0.720	1.00	1	04/30/2015 18:38	WG785836
Xylenes, Total	U		1.10	3.00	1	04/30/2015 18:38	WG785836
(S) Toluene-d8	102			88.5-111		04/30/2015 18:38	WG785836
(S) Dibromofluoromethane	94.7			78.3-121		04/30/2015 18:38	WG785836
(S) 4-Bromofluorobenzene	104			71.0-126		04/30/2015 18:38	WG785836

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	560		25.0	100	1	04/22/2015 08:35	WG783364
(S) o-Terphenyl	106			50.0-150		04/22/2015 08:35	WG783364



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	5770000		2800	10000	1	04/24/2015 08:53	WG783822

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		20.0	100	1	05/01/2015 10:29	WG785023

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	1110000		5200	100000	100	04/28/2015 00:12	WG784715
Fluoride	10700		990	10000	100	04/28/2015 00:12	WG784715
Sulfate	2200000		7700	500000	100	04/28/2015 00:12	WG784715

Metals (ICPMS) by Method 6020

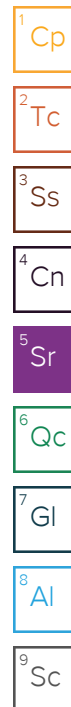
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	92.9		1.20	10.0	5	04/24/2015 14:32	WG783155
Arsenic,Dissolved	76.1		0.250	2.00	1	04/28/2015 02:30	WG783444
Barium	30.2		1.80	25.0	5	04/24/2015 14:32	WG783155
Barium,Dissolved	30.3		0.360	5.00	1	04/28/2015 02:30	WG783444
Calcium	284000		230	5000	5	04/24/2015 14:32	WG783155
Chromium	5.70	J	2.70	10.0	5	04/24/2015 14:32	WG783155
Chromium,Dissolved	3.20		0.540	2.00	1	04/28/2015 02:30	WG783444
Iron	1680		75.0	500	5	04/24/2015 14:32	WG783155
Iron,Dissolved	765		15.0	100	1	04/28/2015 02:30	WG783444
Lead	U		1.20	10.0	5	04/24/2015 14:32	WG783155
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 02:30	WG783444
Manganese	1380		1.20	25.0	5	04/24/2015 14:32	WG783155
Manganese,Dissolved	1250		0.250	5.00	1	04/28/2015 02:30	WG783444
Potassium	9280		180	5000	5	04/24/2015 14:32	WG783155
Selenium	3.02	J	1.90	10.0	5	04/24/2015 14:32	WG783155
Selenium,Dissolved	2.65		0.380	2.00	1	04/28/2015 02:30	WG783444
Sodium	1700000		550	5000	5	04/24/2015 14:32	WG783155

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	361		31.0	100	1	04/24/2015 20:35	WG783223
(S) a,a,a-Trifluorotoluene(FID)	95.6			62.0-128		04/24/2015 20:35	WG783223

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/30/2015 18:58	WG785836
Benzene	0.339	J	0.330	1.00	1	04/30/2015 18:58	WG785836
Bromodichloromethane	U		0.380	1.00	1	04/30/2015 18:58	WG785836
Bromoform	U		0.470	1.00	1	04/30/2015 18:58	WG785836
Bromomethane	U		0.870	5.00	1	04/30/2015 18:58	WG785836
n-Butylbenzene	U		0.360	1.00	1	04/30/2015 18:58	WG785836
sec-Butylbenzene	U		0.360	1.00	1	04/30/2015 18:58	WG785836
Carbon disulfide	U		0.280	1.00	1	04/30/2015 18:58	WG785836
Carbon tetrachloride	U		0.380	1.00	1	04/30/2015 18:58	WG785836
Chlorobenzene	U		0.350	1.00	1	04/30/2015 18:58	WG785836





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/30/2015 18:58	WG785836
Chloroethane	U		0.450	5.00	1	04/30/2015 18:58	WG785836
Chloroform	U		0.320	5.00	1	04/30/2015 18:58	WG785836
Chloromethane	U		0.280	2.50	1	04/30/2015 18:58	WG785836
1,2-Dibromoethane	U		0.380	1.00	1	04/30/2015 18:58	WG785836
1,1-Dichloroethane	U		0.260	1.00	1	04/30/2015 18:58	WG785836
1,2-Dichloroethane	U		0.360	1.00	1	04/30/2015 18:58	WG785836
1,1-Dichloroethene	U		0.400	1.00	1	04/30/2015 18:58	WG785836
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/30/2015 18:58	WG785836
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/30/2015 18:58	WG785836
1,2-Dichloropropane	U		0.310	1.00	1	04/30/2015 18:58	WG785836
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/30/2015 18:58	WG785836
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/30/2015 18:58	WG785836
Ethylbenzene	U		0.380	1.00	1	04/30/2015 18:58	WG785836
Isopropylbenzene	U		0.330	1.00	1	04/30/2015 18:58	WG785836
p-Isopropyltoluene	U		0.350	1.00	1	04/30/2015 18:58	WG785836
2-Butanone (MEK)	U		3.90	10.0	1	04/30/2015 18:58	WG785836
2-Hexanone	U		3.80	10.0	1	04/30/2015 18:58	WG785836
Methylene Chloride	U		1.00	5.00	1	04/30/2015 18:58	WG785836
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/30/2015 18:58	WG785836
Methyl tert-butyl ether	U		0.370	1.00	1	04/30/2015 18:58	WG785836
Naphthalene	U		1.00	5.00	1	04/30/2015 18:58	WG785836
n-Propylbenzene	U		0.350	1.00	1	04/30/2015 18:58	WG785836
Styrene	U		0.310	1.00	1	04/30/2015 18:58	WG785836
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/30/2015 18:58	WG785836
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/30/2015 18:58	WG785836
Tetrachloroethene	U		0.370	1.00	1	04/30/2015 18:58	WG785836
Toluene	U		0.780	5.00	1	04/30/2015 18:58	WG785836
1,1,1-Trichloroethane	U		0.319	1.00	1	04/30/2015 18:58	WG785836
1,1,2-Trichloroethane	U		0.380	1.00	1	04/30/2015 18:58	WG785836
Trichloroethene	U		0.400	1.00	1	04/30/2015 18:58	WG785836
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/30/2015 18:58	WG785836
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/30/2015 18:58	WG785836
Vinyl chloride	U		0.260	1.00	1	04/30/2015 18:58	WG785836
o-Xylene	U		0.340	1.00	1	04/30/2015 18:58	WG785836
m&p-Xylene	U		0.720	1.00	1	04/30/2015 18:58	WG785836
Xylenes, Total	U		1.10	3.00	1	04/30/2015 18:58	WG785836
(S) Toluene-d8	103			88.5-111		04/30/2015 18:58	WG785836
(S) Dibromofluoromethane	97.5			78.3-121		04/30/2015 18:58	WG785836
(S) 4-Bromofluorobenzene	105			71.0-126		04/30/2015 18:58	WG785836

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	14000		120	500	5	04/22/2015 12:26	WG783364
(S) o-Terphenyl	105			50.0-150		04/22/2015 12:26	WG783364



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	9360000		2800	10000	1	04/24/2015 08:44	WG783822

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	176000		2000	10000	100	05/01/2015 11:01	WG785023

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	1170000		5200	100000	100	04/28/2015 00:26	WG784715
Fluoride	6020		9.90	100	1	04/27/2015 18:24	WG784715
Sulfate	4450000		7700	500000	100	04/28/2015 00:26	WG784715

Metals (ICPMS) by Method 6020

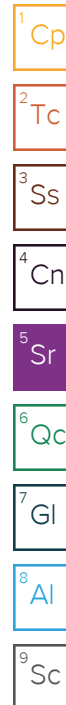
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	54.9		1.20	10.0	5	04/24/2015 14:34	WG783155
Arsenic,Dissolved	51.5		0.250	2.00	1	04/28/2015 02:33	WG783444
Barium	8.94	J	1.80	25.0	5	04/24/2015 14:34	WG783155
Barium,Dissolved	10.3		0.360	5.00	1	04/28/2015 02:33	WG783444
Calcium	552000		230	5000	5	04/24/2015 14:34	WG783155
Chromium	U		2.70	10.0	5	04/24/2015 14:34	WG783155
Chromium,Dissolved	U		0.540	2.00	1	04/28/2015 02:33	WG783444
Iron	175	J	75.0	500	5	04/24/2015 14:34	WG783155
Iron,Dissolved	65.0	J	15.0	100	1	04/28/2015 02:33	WG783444
Lead	U		1.20	10.0	5	04/24/2015 14:34	WG783155
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 02:33	WG783444
Manganese	406		1.20	25.0	5	04/24/2015 14:34	WG783155
Manganese,Dissolved	392		0.250	5.00	1	04/28/2015 02:33	WG783444
Potassium	39400		180	5000	5	04/24/2015 14:34	WG783155
Selenium	480		1.90	10.0	5	04/24/2015 14:34	WG783155
Selenium,Dissolved	480		0.380	2.00	1	04/28/2015 02:33	WG783444
Sodium	2230000		550	5000	5	04/24/2015 14:34	WG783155

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	91.0	J	31.0	100	1	04/24/2015 21:01	WG783223
(S) a,a,a-Trifluorotoluene(FID)	95.6			62.0-128		04/24/2015 21:01	WG783223

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/30/2015 19:18	WG785836
Benzene	U		0.330	1.00	1	04/30/2015 19:18	WG785836
Bromodichloromethane	U		0.380	1.00	1	04/30/2015 19:18	WG785836
Bromoform	U		0.470	1.00	1	04/30/2015 19:18	WG785836
Bromomethane	U		0.870	5.00	1	04/30/2015 19:18	WG785836
n-Butylbenzene	U		0.360	1.00	1	04/30/2015 19:18	WG785836
sec-Butylbenzene	U		0.360	1.00	1	04/30/2015 19:18	WG785836
Carbon disulfide	U		0.280	1.00	1	04/30/2015 19:18	WG785836
Carbon tetrachloride	U		0.380	1.00	1	04/30/2015 19:18	WG785836
Chlorobenzene	U		0.350	1.00	1	04/30/2015 19:18	WG785836





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/30/2015 19:18	WG785836
Chloroethane	U		0.450	5.00	1	04/30/2015 19:18	WG785836
Chloroform	U		0.320	5.00	1	04/30/2015 19:18	WG785836
Chloromethane	U		0.280	2.50	1	04/30/2015 19:18	WG785836
1,2-Dibromoethane	U		0.380	1.00	1	04/30/2015 19:18	WG785836
1,1-Dichloroethane	U		0.260	1.00	1	04/30/2015 19:18	WG785836
1,2-Dichloroethane	U		0.360	1.00	1	04/30/2015 19:18	WG785836
1,1-Dichloroethene	U		0.400	1.00	1	04/30/2015 19:18	WG785836
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/30/2015 19:18	WG785836
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/30/2015 19:18	WG785836
1,2-Dichloropropane	U		0.310	1.00	1	04/30/2015 19:18	WG785836
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/30/2015 19:18	WG785836
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/30/2015 19:18	WG785836
Ethylbenzene	U		0.380	1.00	1	04/30/2015 19:18	WG785836
Isopropylbenzene	U		0.330	1.00	1	04/30/2015 19:18	WG785836
p-Isopropyltoluene	U		0.350	1.00	1	04/30/2015 19:18	WG785836
2-Butanone (MEK)	U		3.90	10.0	1	04/30/2015 19:18	WG785836
2-Hexanone	U		3.80	10.0	1	04/30/2015 19:18	WG785836
Methylene Chloride	U		1.00	5.00	1	04/30/2015 19:18	WG785836
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/30/2015 19:18	WG785836
Methyl tert-butyl ether	U		0.370	1.00	1	04/30/2015 19:18	WG785836
Naphthalene	U		1.00	5.00	1	04/30/2015 19:18	WG785836
n-Propylbenzene	U		0.350	1.00	1	04/30/2015 19:18	WG785836
Styrene	U		0.310	1.00	1	04/30/2015 19:18	WG785836
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/30/2015 19:18	WG785836
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/30/2015 19:18	WG785836
Tetrachloroethene	U		0.370	1.00	1	04/30/2015 19:18	WG785836
Toluene	U		0.780	5.00	1	04/30/2015 19:18	WG785836
1,1,1-Trichloroethane	U		0.319	1.00	1	04/30/2015 19:18	WG785836
1,1,2-Trichloroethane	U		0.380	1.00	1	04/30/2015 19:18	WG785836
Trichloroethene	U		0.400	1.00	1	04/30/2015 19:18	WG785836
1,2,4-Trimethylbenzene	0.710	J	0.370	1.00	1	04/30/2015 19:18	WG785836
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/30/2015 19:18	WG785836
Vinyl chloride	U		0.260	1.00	1	04/30/2015 19:18	WG785836
o-Xylene	U		0.340	1.00	1	04/30/2015 19:18	WG785836
m&p-Xylene	U		0.720	1.00	1	04/30/2015 19:18	WG785836
Xylenes, Total	U		1.10	3.00	1	04/30/2015 19:18	WG785836
(S) Toluene-d8	103			88.5-111		04/30/2015 19:18	WG785836
(S) Dibromofluoromethane	93.0			78.3-121		04/30/2015 19:18	WG785836
(S) 4-Bromofluorobenzene	101			71.0-126		04/30/2015 19:18	WG785836

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	38000		490	2000	20	04/23/2015 01:07	WG783364
(S) o-Terphenyl	0.000	J7		50.0-150		04/23/2015 01:07	WG783364



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	9360000		2800	10000	1	04/24/2015 08:52	WG783822

Wet Chemistry by Method 353.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	757		20.0	100	1	05/01/2015 11:02	WG785023

Wet Chemistry by Method 9056MOD

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	2480000		5200	100000	100	04/28/2015 00:40	WG784715
Fluoride	1940		9.90	100	1	04/27/2015 18:38	WG784715
Sulfate	4560000		7700	500000	100	04/28/2015 00:40	WG784715

Metals (ICPMS) by Method 6020

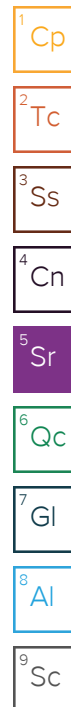
Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	75.7		1.20	10.0	5	04/24/2015 14:36	WG783155
Arsenic,Dissolved	64.0		0.250	2.00	1	04/28/2015 02:36	WG783444
Barium	9.99	⬇	1.80	25.0	5	04/24/2015 14:36	WG783155
Barium,Dissolved	10.9		0.360	5.00	1	04/28/2015 02:36	WG783444
Calcium	659000		230	5000	5	04/24/2015 14:36	WG783155
Chromium	U		2.70	10.0	5	04/24/2015 14:36	WG783155
Chromium,Dissolved	0.772	⬇	0.540	2.00	1	04/28/2015 02:36	WG783444
Iron	2400		75.0	500	5	04/24/2015 14:36	WG783155
Iron,Dissolved	58.0	⬇	15.0	100	1	04/28/2015 02:36	WG783444
Lead	U		1.20	10.0	5	04/24/2015 14:36	WG783155
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 02:36	WG783444
Manganese	2610		1.20	25.0	5	04/24/2015 14:36	WG783155
Manganese,Dissolved	2360		0.250	5.00	1	04/28/2015 02:36	WG783444
Potassium	3120	⬇	180	5000	5	04/24/2015 14:36	WG783155
Selenium	2.33	⬇	1.90	10.0	5	04/24/2015 14:36	WG783155
Selenium,Dissolved	1.93	⬇	0.380	2.00	1	04/28/2015 02:36	WG783444
Sodium	2200000		1100	10000	10	04/24/2015 20:41	WG783155

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	378		31.0	100	1	04/24/2015 21:26	WG783223
(S) a,a,a-Trifluorotoluene(FID)	95.9			62.0-128		04/24/2015 21:26	WG783223

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		10.0	50.0	1	04/30/2015 19:38	WG785836
Benzene	U		0.330	1.00	1	04/30/2015 19:38	WG785836
Bromodichloromethane	U		0.380	1.00	1	04/30/2015 19:38	WG785836
Bromoform	U		0.470	1.00	1	04/30/2015 19:38	WG785836
Bromomethane	U		0.870	5.00	1	04/30/2015 19:38	WG785836
n-Butylbenzene	U		0.360	1.00	1	04/30/2015 19:38	WG785836
sec-Butylbenzene	U		0.360	1.00	1	04/30/2015 19:38	WG785836
Carbon disulfide	U		0.280	1.00	1	04/30/2015 19:38	WG785836
Carbon tetrachloride	U		0.380	1.00	1	04/30/2015 19:38	WG785836
Chlorobenzene	U		0.350	1.00	1	04/30/2015 19:38	WG785836





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/30/2015 19:38	WG785836
Chloroethane	U		0.450	5.00	1	04/30/2015 19:38	WG785836
Chloroform	U		0.320	5.00	1	04/30/2015 19:38	WG785836
Chloromethane	U		0.280	2.50	1	04/30/2015 19:38	WG785836
1,2-Dibromoethane	U		0.380	1.00	1	04/30/2015 19:38	WG785836
1,1-Dichloroethane	U		0.260	1.00	1	04/30/2015 19:38	WG785836
1,2-Dichloroethane	U		0.360	1.00	1	04/30/2015 19:38	WG785836
1,1-Dichloroethene	U		0.400	1.00	1	04/30/2015 19:38	WG785836
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/30/2015 19:38	WG785836
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/30/2015 19:38	WG785836
1,2-Dichloropropane	U		0.310	1.00	1	04/30/2015 19:38	WG785836
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/30/2015 19:38	WG785836
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/30/2015 19:38	WG785836
Ethylbenzene	U		0.380	1.00	1	04/30/2015 19:38	WG785836
Isopropylbenzene	U		0.330	1.00	1	04/30/2015 19:38	WG785836
p-Isopropyltoluene	U		0.350	1.00	1	04/30/2015 19:38	WG785836
2-Butanone (MEK)	U		3.90	10.0	1	04/30/2015 19:38	WG785836
2-Hexanone	U		3.80	10.0	1	04/30/2015 19:38	WG785836
Methylene Chloride	U		1.00	5.00	1	04/30/2015 19:38	WG785836
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/30/2015 19:38	WG785836
Methyl tert-butyl ether	2.90		0.370	1.00	1	04/30/2015 19:38	WG785836
Naphthalene	U		1.00	5.00	1	04/30/2015 19:38	WG785836
n-Propylbenzene	U		0.350	1.00	1	04/30/2015 19:38	WG785836
Styrene	U		0.310	1.00	1	04/30/2015 19:38	WG785836
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/30/2015 19:38	WG785836
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/30/2015 19:38	WG785836
Tetrachloroethene	U		0.370	1.00	1	04/30/2015 19:38	WG785836
Toluene	U		0.780	5.00	1	04/30/2015 19:38	WG785836
1,1,1-Trichloroethane	U		0.319	1.00	1	04/30/2015 19:38	WG785836
1,1,2-Trichloroethane	U		0.380	1.00	1	04/30/2015 19:38	WG785836
Trichloroethene	U		0.400	1.00	1	04/30/2015 19:38	WG785836
1,2,4-Trimethylbenzene	1.71		0.370	1.00	1	04/30/2015 19:38	WG785836
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/30/2015 19:38	WG785836
Vinyl chloride	U		0.260	1.00	1	04/30/2015 19:38	WG785836
o-Xylene	U		0.340	1.00	1	04/30/2015 19:38	WG785836
m&p-Xylene	U		0.720	1.00	1	04/30/2015 19:38	WG785836
Xylenes, Total	U		1.10	3.00	1	04/30/2015 19:38	WG785836
(S) Toluene-d8	102			88.5-111		04/30/2015 19:38	WG785836
(S) Dibromofluoromethane	104			78.3-121		04/30/2015 19:38	WG785836
(S) 4-Bromofluorobenzene	103			71.0-126		04/30/2015 19:38	WG785836

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	4000		25.0	100	1	04/22/2015 09:10	WG783364
(S) o-Terphenyl	107			50.0-150		04/22/2015 09:10	WG783364



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	12900000		2800	10000	1	04/24/2015 08:45	WG783822

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	6370		20.0	100	1	05/01/2015 10:33	WG785023

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	5240000		5200	100000	100	04/28/2015 00:54	WG784715
Fluoride	3910		9.90	100	1	04/27/2015 18:52	WG784715
Sulfate	3800000		7700	500000	100	04/28/2015 00:54	WG784715

Metals (ICPMS) by Method 6020

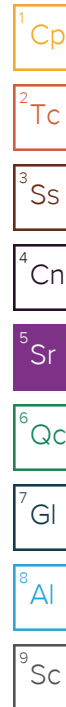
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	149		1.20	10.0	5	04/24/2015 14:39	WG783155
Arsenic,Dissolved	30.6		0.250	2.00	1	04/28/2015 02:38	WG783444
Barium	32.1		1.80	25.0	5	04/24/2015 14:39	WG783155
Barium,Dissolved	22.6		0.360	5.00	1	04/28/2015 02:38	WG783444
Calcium	896000		230	5000	5	04/24/2015 14:39	WG783155
Chromium	U		2.70	10.0	5	04/24/2015 14:39	WG783155
Chromium,Dissolved	0.575	J	0.540	2.00	1	04/28/2015 02:38	WG783444
Iron	32300		75.0	500	5	04/24/2015 14:39	WG783155
Iron,Dissolved	1190		15.0	100	1	04/28/2015 02:38	WG783444
Lead	U		1.20	10.0	5	04/24/2015 14:39	WG783155
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 02:38	WG783444
Manganese	3050		1.20	25.0	5	04/24/2015 14:39	WG783155
Manganese,Dissolved	2890		0.250	5.00	1	04/28/2015 02:38	WG783444
Potassium	13300		180	5000	5	04/24/2015 14:39	WG783155
Selenium	15.5		1.90	10.0	5	04/24/2015 14:39	WG783155
Selenium,Dissolved	11.7		0.380	2.00	1	04/28/2015 02:38	WG783444
Sodium	3030000		1100	10000	10	04/24/2015 20:43	WG783155

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	U		31.0	100	1	04/24/2015 21:51	WG783223
(S) a,a,a-Trifluorotoluene(FID)	94.9			62.0-128		04/24/2015 21:51	WG783223

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/30/2015 19:58	WG785836
Benzene	U		0.330	1.00	1	04/30/2015 19:58	WG785836
Bromodichloromethane	U		0.380	1.00	1	04/30/2015 19:58	WG785836
Bromoform	U		0.470	1.00	1	04/30/2015 19:58	WG785836
Bromomethane	U		0.870	5.00	1	04/30/2015 19:58	WG785836
n-Butylbenzene	U		0.360	1.00	1	04/30/2015 19:58	WG785836
sec-Butylbenzene	U		0.360	1.00	1	04/30/2015 19:58	WG785836
Carbon disulfide	U		0.280	1.00	1	04/30/2015 19:58	WG785836
Carbon tetrachloride	U		0.380	1.00	1	04/30/2015 19:58	WG785836
Chlorobenzene	U		0.350	1.00	1	04/30/2015 19:58	WG785836





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/30/2015 19:58	WG785836
Chloroethane	U		0.450	5.00	1	04/30/2015 19:58	WG785836
Chloroform	U		0.320	5.00	1	04/30/2015 19:58	WG785836
Chloromethane	U		0.280	2.50	1	04/30/2015 19:58	WG785836
1,2-Dibromoethane	U		0.380	1.00	1	04/30/2015 19:58	WG785836
1,1-Dichloroethane	U		0.260	1.00	1	04/30/2015 19:58	WG785836
1,2-Dichloroethane	U		0.360	1.00	1	04/30/2015 19:58	WG785836
1,1-Dichloroethene	U		0.400	1.00	1	04/30/2015 19:58	WG785836
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/30/2015 19:58	WG785836
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/30/2015 19:58	WG785836
1,2-Dichloropropane	U		0.310	1.00	1	04/30/2015 19:58	WG785836
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/30/2015 19:58	WG785836
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/30/2015 19:58	WG785836
Ethylbenzene	U		0.380	1.00	1	04/30/2015 19:58	WG785836
Isopropylbenzene	U		0.330	1.00	1	04/30/2015 19:58	WG785836
p-Isopropyltoluene	U		0.350	1.00	1	04/30/2015 19:58	WG785836
2-Butanone (MEK)	U		3.90	10.0	1	04/30/2015 19:58	WG785836
2-Hexanone	U		3.80	10.0	1	04/30/2015 19:58	WG785836
Methylene Chloride	U		1.00	5.00	1	04/30/2015 19:58	WG785836
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/30/2015 19:58	WG785836
Methyl tert-butyl ether	U		0.370	1.00	1	04/30/2015 19:58	WG785836
Naphthalene	U		1.00	5.00	1	04/30/2015 19:58	WG785836
n-Propylbenzene	U		0.350	1.00	1	04/30/2015 19:58	WG785836
Styrene	U		0.310	1.00	1	04/30/2015 19:58	WG785836
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/30/2015 19:58	WG785836
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/30/2015 19:58	WG785836
Tetrachloroethene	U		0.370	1.00	1	04/30/2015 19:58	WG785836
Toluene	U		0.780	5.00	1	04/30/2015 19:58	WG785836
1,1,1-Trichloroethane	U		0.319	1.00	1	04/30/2015 19:58	WG785836
1,1,2-Trichloroethane	U		0.380	1.00	1	04/30/2015 19:58	WG785836
Trichloroethene	U		0.400	1.00	1	04/30/2015 19:58	WG785836
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/30/2015 19:58	WG785836
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/30/2015 19:58	WG785836
Vinyl chloride	U		0.260	1.00	1	04/30/2015 19:58	WG785836
o-Xylene	U		0.340	1.00	1	04/30/2015 19:58	WG785836
m&p-Xylene	U		0.720	1.00	1	04/30/2015 19:58	WG785836
Xylenes, Total	U		1.10	3.00	1	04/30/2015 19:58	WG785836
(S) Toluene-d8	103			88.5-111		04/30/2015 19:58	WG785836
(S) Dibromofluoromethane	93.9			78.3-121		04/30/2015 19:58	WG785836
(S) 4-Bromofluorobenzene	106			71.0-126		04/30/2015 19:58	WG785836

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1300		25.0	100	1	04/22/2015 09:28	WG783364
(S) o-Terphenyl	106			50.0-150		04/22/2015 09:28	WG783364



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	10300000		2800	10000	1	04/24/2015 08:53	WG783822

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	211		20.0	100	1	05/01/2015 10:34	WG785023

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	4050000		5200	100000	100	04/28/2015 01:08	WG784715
Fluoride	1850		9.90	100	1	04/27/2015 19:06	WG784715
Sulfate	3320000		7700	500000	100	04/28/2015 01:08	WG784715

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	14.1		1.20	10.0	5	04/24/2015 20:32	WG783155
Arsenic,Dissolved	12.4		0.250	2.00	1	04/28/2015 02:46	WG783444
Barium	24.0	↓	1.80	25.0	5	04/24/2015 20:32	WG783155
Barium,Dissolved	20.9		0.360	5.00	1	04/28/2015 02:46	WG783444
Calcium	779000		230	5000	5	04/24/2015 20:32	WG783155
Chromium	U		2.70	10.0	5	04/24/2015 20:32	WG783155
Chromium,Dissolved	0.915	↓	0.540	2.00	1	04/28/2015 02:46	WG783444
Iron	3910		75.0	500	5	04/24/2015 20:32	WG783155
Iron,Dissolved	2910		15.0	100	1	04/28/2015 02:46	WG783444
Lead	U		1.20	10.0	5	04/24/2015 20:32	WG783155
Lead,Dissolved	0.267	↓	0.240	2.00	1	04/28/2015 02:46	WG783444
Manganese	2070		1.20	25.0	5	04/24/2015 20:32	WG783155
Manganese,Dissolved	1980		0.250	5.00	1	04/28/2015 02:46	WG783444
Potassium	15500		180	5000	5	04/24/2015 20:32	WG783155
Selenium	U		1.90	10.0	5	04/24/2015 20:32	WG783155
Selenium,Dissolved	0.955	↓	0.380	2.00	1	04/28/2015 02:46	WG783444
Sodium	2470000		550	5000	5	04/24/2015 20:32	WG783155

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	81.9	↓	31.0	100	1	04/24/2015 22:16	WG783223
(S) a,a,a-Trifluorotoluene(FID)	95.4			62.0-128		04/24/2015 22:16	WG783223

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/30/2015 20:19	WG785836
Benzene	U		0.330	1.00	1	04/30/2015 20:19	WG785836
Bromodichloromethane	U		0.380	1.00	1	04/30/2015 20:19	WG785836
Bromoform	U		0.470	1.00	1	04/30/2015 20:19	WG785836
Bromomethane	U		0.870	5.00	1	04/30/2015 20:19	WG785836
n-Butylbenzene	U		0.360	1.00	1	04/30/2015 20:19	WG785836
sec-Butylbenzene	U		0.360	1.00	1	04/30/2015 20:19	WG785836
Carbon disulfide	U		0.280	1.00	1	04/30/2015 20:19	WG785836
Carbon tetrachloride	U		0.380	1.00	1	04/30/2015 20:19	WG785836
Chlorobenzene	U		0.350	1.00	1	04/30/2015 20:19	WG785836



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/30/2015 20:19	WG785836
Chloroethane	U		0.450	5.00	1	04/30/2015 20:19	WG785836
Chloroform	U		0.320	5.00	1	04/30/2015 20:19	WG785836
Chloromethane	U		0.280	2.50	1	04/30/2015 20:19	WG785836
1,2-Dibromoethane	U		0.380	1.00	1	04/30/2015 20:19	WG785836
1,1-Dichloroethane	U		0.260	1.00	1	04/30/2015 20:19	WG785836
1,2-Dichloroethane	U		0.360	1.00	1	04/30/2015 20:19	WG785836
1,1-Dichloroethene	U		0.400	1.00	1	04/30/2015 20:19	WG785836
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/30/2015 20:19	WG785836
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/30/2015 20:19	WG785836
1,2-Dichloropropane	U		0.310	1.00	1	04/30/2015 20:19	WG785836
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/30/2015 20:19	WG785836
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/30/2015 20:19	WG785836
Ethylbenzene	U		0.380	1.00	1	04/30/2015 20:19	WG785836
Isopropylbenzene	U		0.330	1.00	1	04/30/2015 20:19	WG785836
p-Isopropyltoluene	U		0.350	1.00	1	04/30/2015 20:19	WG785836
2-Butanone (MEK)	U		3.90	10.0	1	04/30/2015 20:19	WG785836
2-Hexanone	U		3.80	10.0	1	04/30/2015 20:19	WG785836
Methylene Chloride	U		1.00	5.00	1	04/30/2015 20:19	WG785836
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/30/2015 20:19	WG785836
Methyl tert-butyl ether	U		0.370	1.00	1	04/30/2015 20:19	WG785836
Naphthalene	U		1.00	5.00	1	04/30/2015 20:19	WG785836
n-Propylbenzene	U		0.350	1.00	1	04/30/2015 20:19	WG785836
Styrene	U		0.310	1.00	1	04/30/2015 20:19	WG785836
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/30/2015 20:19	WG785836
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/30/2015 20:19	WG785836
Tetrachloroethene	U		0.370	1.00	1	04/30/2015 20:19	WG785836
Toluene	U		0.780	5.00	1	04/30/2015 20:19	WG785836
1,1,1-Trichloroethane	U		0.319	1.00	1	04/30/2015 20:19	WG785836
1,1,2-Trichloroethane	U		0.380	1.00	1	04/30/2015 20:19	WG785836
Trichloroethene	U		0.400	1.00	1	04/30/2015 20:19	WG785836
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/30/2015 20:19	WG785836
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/30/2015 20:19	WG785836
Vinyl chloride	U		0.260	1.00	1	04/30/2015 20:19	WG785836
o-Xylene	U		0.340	1.00	1	04/30/2015 20:19	WG785836
m&p-Xylene	U		0.720	1.00	1	04/30/2015 20:19	WG785836
Xylenes, Total	U		1.10	3.00	1	04/30/2015 20:19	WG785836
(S) Toluene-d8	102			88.5-111		04/30/2015 20:19	WG785836
(S) Dibromofluoromethane	93.7			78.3-121		04/30/2015 20:19	WG785836
(S) 4-Bromofluorobenzene	106			71.0-126		04/30/2015 20:19	WG785836

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1000		25.0	100	1	04/22/2015 09:46	WG783364
(S) o-Terphenyl	108			50.0-150		04/22/2015 09:46	WG783364



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	4520000		2800	10000	1	04/24/2015 08:53	WG783822

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		20.0	100	1	05/01/2015 10:35	WG785023

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	910000		5200	100000	100	04/28/2015 01:22	WG784715
Fluoride	852		9.90	100	1	04/27/2015 19:47	WG784715
Sulfate	2580000		7700	500000	100	04/28/2015 01:22	WG784715

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	2.94	J	1.20	10.0	5	04/24/2015 20:34	WG783155
Arsenic,Dissolved	3.04		0.250	2.00	1	04/28/2015 02:49	WG783444
Barium	19.6	J	1.80	25.0	5	04/24/2015 20:34	WG783155
Barium,Dissolved	17.8		0.360	5.00	1	04/28/2015 02:49	WG783444
Calcium	641000		230	5000	5	04/24/2015 20:34	WG783155
Chromium	U		2.70	10.0	5	04/24/2015 20:34	WG783155
Chromium,Dissolved	0.838	J	0.540	2.00	1	04/28/2015 02:49	WG783444
Iron	3520		75.0	500	5	04/24/2015 20:34	WG783155
Iron,Dissolved	2720		15.0	100	1	04/28/2015 02:49	WG783444
Lead	U		1.20	10.0	5	04/24/2015 20:34	WG783155
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 02:49	WG783444
Manganese	710		1.20	25.0	5	04/24/2015 20:34	WG783155
Manganese,Dissolved	626		0.250	5.00	1	04/28/2015 02:49	WG783444
Potassium	11900		180	5000	5	04/24/2015 20:34	WG783155
Selenium	U		1.90	10.0	5	04/24/2015 20:34	WG783155
Selenium,Dissolved	U		0.380	2.00	1	04/28/2015 02:49	WG783444
Sodium	685000		550	5000	5	04/24/2015 20:34	WG783155

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	U		31.0	100	1	04/24/2015 22:41	WG783223
(S) a,a,a-Trifluorotoluene(FID)	95.4			62.0-128		04/24/2015 22:41	WG783223

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/29/2015 23:41	WG785102
Benzene	U		0.330	1.00	1	04/29/2015 23:41	WG785102
Bromodichloromethane	U		0.380	1.00	1	04/29/2015 23:41	WG785102
Bromoform	U		0.470	1.00	1	04/29/2015 23:41	WG785102
Bromomethane	U		0.870	5.00	1	04/29/2015 23:41	WG785102
n-Butylbenzene	U		0.360	1.00	1	04/29/2015 23:41	WG785102
sec-Butylbenzene	U		0.360	1.00	1	04/29/2015 23:41	WG785102
Carbon disulfide	0.420	J	0.280	1.00	1	04/29/2015 23:41	WG785102
Carbon tetrachloride	U		0.380	1.00	1	04/29/2015 23:41	WG785102
Chlorobenzene	U		0.350	1.00	1	04/29/2015 23:41	WG785102



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/29/2015 23:41	WG785102
Chloroethane	U		0.450	5.00	1	04/29/2015 23:41	WG785102
Chloroform	U		0.320	5.00	1	04/29/2015 23:41	WG785102
Chloromethane	U		0.280	2.50	1	04/29/2015 23:41	WG785102
1,2-Dibromoethane	U		0.380	1.00	1	04/29/2015 23:41	WG785102
1,1-Dichloroethane	U		0.260	1.00	1	04/29/2015 23:41	WG785102
1,2-Dichloroethane	U		0.360	1.00	1	04/29/2015 23:41	WG785102
1,1-Dichloroethene	U		0.400	1.00	1	04/29/2015 23:41	WG785102
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/29/2015 23:41	WG785102
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/29/2015 23:41	WG785102
1,2-Dichloropropane	U		0.310	1.00	1	04/29/2015 23:41	WG785102
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/29/2015 23:41	WG785102
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/29/2015 23:41	WG785102
Ethylbenzene	U		0.380	1.00	1	04/29/2015 23:41	WG785102
Isopropylbenzene	U		0.330	1.00	1	04/29/2015 23:41	WG785102
p-Isopropyltoluene	U		0.350	1.00	1	04/29/2015 23:41	WG785102
2-Butanone (MEK)	U		3.90	10.0	1	04/29/2015 23:41	WG785102
2-Hexanone	U		3.80	10.0	1	04/29/2015 23:41	WG785102
Methylene Chloride	U		1.00	5.00	1	04/29/2015 23:41	WG785102
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/29/2015 23:41	WG785102
Methyl tert-butyl ether	U		0.370	1.00	1	04/29/2015 23:41	WG785102
Naphthalene	U		1.00	5.00	1	04/29/2015 23:41	WG785102
n-Propylbenzene	U		0.350	1.00	1	04/29/2015 23:41	WG785102
Styrene	U		0.310	1.00	1	04/29/2015 23:41	WG785102
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/29/2015 23:41	WG785102
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/29/2015 23:41	WG785102
Tetrachloroethene	U		0.370	1.00	1	04/29/2015 23:41	WG785102
Toluene	U		0.780	5.00	1	04/29/2015 23:41	WG785102
1,1,1-Trichloroethane	U		0.319	1.00	1	04/29/2015 23:41	WG785102
1,1,2-Trichloroethane	U		0.380	1.00	1	04/29/2015 23:41	WG785102
Trichloroethene	U		0.400	1.00	1	04/29/2015 23:41	WG785102
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/29/2015 23:41	WG785102
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/29/2015 23:41	WG785102
Vinyl chloride	U		0.260	1.00	1	04/29/2015 23:41	WG785102
o-Xylene	U		0.340	1.00	1	04/29/2015 23:41	WG785102
m&p-Xylene	U		0.720	1.00	1	04/29/2015 23:41	WG785102
Xylenes, Total	U		1.10	3.00	1	04/29/2015 23:41	WG785102
(S) Toluene-d8	108			88.5-111		04/29/2015 23:41	WG785102
(S) Dibromofluoromethane	106			78.3-121		04/29/2015 23:41	WG785102
(S) 4-Bromofluorobenzene	100			71.0-126		04/29/2015 23:41	WG785102

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	120		25.0	100	1	04/22/2015 10:04	WG783364
(S) o-Terphenyl	113			50.0-150		04/22/2015 10:04	WG783364



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		10.0	50.0	1	04/30/2015 00:00	WG785102
Benzene	U		0.330	1.00	1	04/30/2015 00:00	WG785102
Bromodichloromethane	U		0.380	1.00	1	04/30/2015 00:00	WG785102
Bromoform	U		0.470	1.00	1	04/30/2015 00:00	WG785102
Bromomethane	U		0.870	5.00	1	04/30/2015 00:00	WG785102
n-Butylbenzene	U		0.360	1.00	1	04/30/2015 00:00	WG785102
sec-Butylbenzene	U		0.360	1.00	1	04/30/2015 00:00	WG785102
Carbon disulfide	U		0.280	1.00	1	04/30/2015 00:00	WG785102
Carbon tetrachloride	U		0.380	1.00	1	04/30/2015 00:00	WG785102
Chlorobenzene	U		0.350	1.00	1	04/30/2015 00:00	WG785102
Chlorodibromomethane	U		0.330	1.00	1	04/30/2015 00:00	WG785102
Chloroethane	U		0.450	5.00	1	04/30/2015 00:00	WG785102
Chloroform	U		0.320	5.00	1	04/30/2015 00:00	WG785102
Chloromethane	U		0.280	2.50	1	04/30/2015 00:00	WG785102
1,2-Dibromoethane	U		0.380	1.00	1	04/30/2015 00:00	WG785102
1,1-Dichloroethane	U		0.260	1.00	1	04/30/2015 00:00	WG785102
1,2-Dichloroethane	U		0.360	1.00	1	04/30/2015 00:00	WG785102
1,1-Dichloroethene	U		0.400	1.00	1	04/30/2015 00:00	WG785102
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/30/2015 00:00	WG785102
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/30/2015 00:00	WG785102
1,2-Dichloropropane	U		0.310	1.00	1	04/30/2015 00:00	WG785102
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/30/2015 00:00	WG785102
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/30/2015 00:00	WG785102
Ethylbenzene	U		0.380	1.00	1	04/30/2015 00:00	WG785102
Isopropylbenzene	U		0.330	1.00	1	04/30/2015 00:00	WG785102
p-Isopropyltoluene	U		0.350	1.00	1	04/30/2015 00:00	WG785102
2-Butanone (MEK)	U		3.90	10.0	1	04/30/2015 00:00	WG785102
2-Hexanone	U		3.80	10.0	1	04/30/2015 00:00	WG785102
Methylene Chloride	U		1.00	5.00	1	04/30/2015 00:00	WG785102
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/30/2015 00:00	WG785102
Methyl tert-butyl ether	U		0.370	1.00	1	04/30/2015 00:00	WG785102
Naphthalene	U		1.00	5.00	1	04/30/2015 00:00	WG785102
n-Propylbenzene	U		0.350	1.00	1	04/30/2015 00:00	WG785102
Styrene	U		0.310	1.00	1	04/30/2015 00:00	WG785102
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/30/2015 00:00	WG785102
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/30/2015 00:00	WG785102
Tetrachloroethene	U		0.370	1.00	1	04/30/2015 00:00	WG785102
Toluene	U		0.780	5.00	1	04/30/2015 00:00	WG785102
1,1,1-Trichloroethane	U		0.319	1.00	1	04/30/2015 00:00	WG785102
1,1,2-Trichloroethane	U		0.380	1.00	1	04/30/2015 00:00	WG785102
Trichloroethene	U		0.400	1.00	1	04/30/2015 00:00	WG785102
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/30/2015 00:00	WG785102
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/30/2015 00:00	WG785102
Vinyl chloride	U		0.260	1.00	1	04/30/2015 00:00	WG785102
o-Xylene	U		0.340	1.00	1	04/30/2015 00:00	WG785102
m&p-Xylene	U		0.720	1.00	1	04/30/2015 00:00	WG785102
Xylenes, Total	U		1.10	3.00	1	04/30/2015 00:00	WG785102
(S) Toluene-d8	107			88.5-111		04/30/2015 00:00	WG785102
(S) Dibromofluoromethane	103			78.3-121		04/30/2015 00:00	WG785102
(S) 4-Bromofluorobenzene	106			71.0-126		04/30/2015 00:00	WG785102

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	82.0	J	25.0	100	1	04/22/2015 10:22	WG783364
(S) o-Terphenyl	106			50.0-150		04/22/2015 10:22	WG783364



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	16000		2800	10000	1	04/24/2015 08:56	WG783822

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		20.0	100	1	05/01/2015 10:36	WG785023

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	146	J P1	52.0	1000	1	04/27/2015 20:01	WG784715
Fluoride	17.4	J	9.90	100	1	04/27/2015 20:01	WG784715
Sulfate	U		77.0	5000	1	04/27/2015 20:01	WG784715

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	U		0.250	2.00	1	04/24/2015 20:37	WG783155
Arsenic,Dissolved	U		0.250	2.00	1	04/28/2015 02:51	WG783444
Barium	U		0.360	5.00	1	04/24/2015 20:37	WG783155
Barium,Dissolved	1.09	J	0.360	5.00	1	04/28/2015 02:51	WG783444
Calcium	U		46.0	1000	1	04/24/2015 20:37	WG783155
Chromium	U		0.540	2.00	1	04/24/2015 20:37	WG783155
Chromium,Dissolved	0.826	J	0.540	2.00	1	04/28/2015 02:51	WG783444
Iron	U		15.0	100	1	04/24/2015 20:37	WG783155
Iron,Dissolved	U		15.0	100	1	04/28/2015 02:51	WG783444
Lead	U		0.240	2.00	1	04/24/2015 20:37	WG783155
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 02:51	WG783444
Manganese	U		0.250	5.00	1	04/24/2015 20:37	WG783155
Manganese,Dissolved	U		0.250	5.00	1	04/28/2015 02:51	WG783444
Potassium	U		37.0	1000	1	04/24/2015 20:37	WG783155
Selenium	U		0.380	2.00	1	04/24/2015 20:37	WG783155
Selenium,Dissolved	U		0.380	2.00	1	04/28/2015 02:51	WG783444
Sodium	164	J	110	1000	1	04/24/2015 20:37	WG783155

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	U		31.0	100	1	04/24/2015 18:55	WG783223
(S) a,a,a-Trifluorotoluene(FID)	95.5			62.0-128		04/24/2015 18:55	WG783223

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/24/2015 08:53	WG783745
Benzene	U		0.330	1.00	1	04/24/2015 08:53	WG783745
Bromodichloromethane	U		0.380	1.00	1	04/24/2015 08:53	WG783745
Bromoform	U		0.470	1.00	1	04/24/2015 08:53	WG783745
Bromomethane	U		0.870	5.00	1	04/24/2015 08:53	WG783745
n-Butylbenzene	U		0.360	1.00	1	04/24/2015 08:53	WG783745
sec-Butylbenzene	U		0.360	1.00	1	04/24/2015 08:53	WG783745
Carbon disulfide	U		0.280	1.00	1	04/24/2015 08:53	WG783745
Carbon tetrachloride	U		0.380	1.00	1	04/24/2015 08:53	WG783745
Chlorobenzene	U		0.350	1.00	1	04/24/2015 08:53	WG783745



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/24/2015 08:53	WG783745
Chloroethane	U		0.450	5.00	1	04/24/2015 08:53	WG783745
Chloroform	1.26	J	0.320	5.00	1	04/24/2015 08:53	WG783745
Chloromethane	U		0.280	2.50	1	04/24/2015 08:53	WG783745
1,2-Dibromoethane	U		0.380	1.00	1	04/24/2015 08:53	WG783745
1,1-Dichloroethane	U		0.260	1.00	1	04/24/2015 08:53	WG783745
1,2-Dichloroethane	U		0.360	1.00	1	04/24/2015 08:53	WG783745
1,1-Dichloroethene	U		0.400	1.00	1	04/24/2015 08:53	WG783745
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/24/2015 08:53	WG783745
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/24/2015 08:53	WG783745
1,2-Dichloropropane	U		0.310	1.00	1	04/24/2015 08:53	WG783745
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 08:53	WG783745
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 08:53	WG783745
Ethylbenzene	U		0.380	1.00	1	04/24/2015 08:53	WG783745
Isopropylbenzene	U		0.330	1.00	1	04/24/2015 08:53	WG783745
p-Isopropyltoluene	U		0.350	1.00	1	04/24/2015 08:53	WG783745
2-Butanone (MEK)	U		3.90	10.0	1	04/24/2015 08:53	WG783745
2-Hexanone	U		3.80	10.0	1	04/24/2015 08:53	WG783745
Methylene Chloride	1.08	J	1.00	5.00	1	04/24/2015 08:53	WG783745
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/24/2015 08:53	WG783745
Methyl tert-butyl ether	U		0.370	1.00	1	04/24/2015 08:53	WG783745
Naphthalene	U		1.00	5.00	1	04/24/2015 08:53	WG783745
n-Propylbenzene	U		0.350	1.00	1	04/24/2015 08:53	WG783745
Styrene	U		0.310	1.00	1	04/24/2015 08:53	WG783745
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/24/2015 08:53	WG783745
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/24/2015 08:53	WG783745
Tetrachloroethene	U		0.370	1.00	1	04/24/2015 08:53	WG783745
Toluene	U		0.780	5.00	1	04/24/2015 08:53	WG783745
1,1,1-Trichloroethane	U		0.319	1.00	1	04/24/2015 08:53	WG783745
1,1,2-Trichloroethane	U		0.380	1.00	1	04/24/2015 08:53	WG783745
Trichloroethene	U		0.400	1.00	1	04/24/2015 08:53	WG783745
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/24/2015 08:53	WG783745
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/24/2015 08:53	WG783745
Vinyl chloride	U		0.260	1.00	1	04/24/2015 08:53	WG783745
o-Xylene	U		0.340	1.00	1	04/24/2015 08:53	WG783745
m&p-Xylene	U		0.720	1.00	1	04/24/2015 08:53	WG783745
Xylenes, Total	U		1.10	3.00	1	04/24/2015 08:53	WG783745
(S) Toluene-d8	106			88.5-111		04/24/2015 08:53	WG783745
(S) Dibromofluoromethane	108			78.3-121		04/24/2015 08:53	WG783745
(S) 4-Bromofluorobenzene	98.1			71.0-126		04/24/2015 08:53	WG783745

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	33.0	J	25.0	100	1	04/22/2015 10:40	WG783364
(S) o-Terphenyl	109			50.0-150		04/22/2015 10:40	WG783364



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	U		2800	10000	1	04/24/2015 08:58	WG783822

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		20.0	100	1	05/01/2015 10:37	WG785023

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	94.3	U	52.0	1000	1	04/27/2015 20:29	WG784715
Fluoride	20.1	U	9.90	100	1	04/27/2015 20:29	WG784715
Sulfate	U		77.0	5000	1	04/27/2015 20:29	WG784715

Metals (ICPMS) by Method 6020

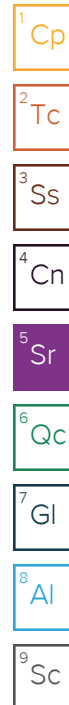
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	U		0.250	2.00	1	04/24/2015 20:39	WG783155
Arsenic,Dissolved	U		0.250	2.00	1	04/28/2015 02:54	WG783444
Barium	1.33	U	0.360	5.00	1	04/24/2015 20:39	WG783155
Barium,Dissolved	U		0.360	5.00	1	04/28/2015 02:54	WG783444
Calcium	197	U	46.0	1000	1	04/24/2015 20:39	WG783155
Chromium	U		0.540	2.00	1	04/24/2015 20:39	WG783155
Chromium,Dissolved	0.637	U	0.540	2.00	1	04/28/2015 02:54	WG783444
Iron	26.1	U	15.0	100	1	04/24/2015 20:39	WG783155
Iron,Dissolved	U		15.0	100	1	04/28/2015 02:54	WG783444
Lead	0.632	U	0.240	2.00	1	04/24/2015 20:39	WG783155
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 02:54	WG783444
Manganese	1.53	U	0.250	5.00	1	04/24/2015 20:39	WG783155
Manganese,Dissolved	U		0.250	5.00	1	04/28/2015 02:54	WG783444
Potassium	U		37.0	1000	1	04/24/2015 20:39	WG783155
Selenium	U		0.380	2.00	1	04/24/2015 20:39	WG783155
Selenium,Dissolved	U		0.380	2.00	1	04/28/2015 02:54	WG783444
Sodium	182	U	110	1000	1	04/24/2015 20:39	WG783155

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	U		31.0	100	1	04/25/2015 01:16	WG783223
(S) a,a,a-Trifluorotoluene(FID)	96.2			62.0-128		04/25/2015 01:16	WG783223

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/24/2015 08:34	WG783745
Benzene	U		0.330	1.00	1	04/24/2015 08:34	WG783745
Bromodichloromethane	U		0.380	1.00	1	04/24/2015 08:34	WG783745
Bromoform	U		0.470	1.00	1	04/24/2015 08:34	WG783745
Bromomethane	U		0.870	5.00	1	04/24/2015 08:34	WG783745
n-Butylbenzene	U		0.360	1.00	1	04/24/2015 08:34	WG783745
sec-Butylbenzene	U		0.360	1.00	1	04/24/2015 08:34	WG783745
Carbon disulfide	U		0.280	1.00	1	04/24/2015 08:34	WG783745
Carbon tetrachloride	U		0.380	1.00	1	04/24/2015 08:34	WG783745
Chlorobenzene	U		0.350	1.00	1	04/24/2015 08:34	WG783745





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/24/2015 08:34	WG783745
Chloroethane	U		0.450	5.00	1	04/24/2015 08:34	WG783745
Chloroform	1.29	J	0.320	5.00	1	04/24/2015 08:34	WG783745
Chloromethane	U		0.280	2.50	1	04/24/2015 08:34	WG783745
1,2-Dibromoethane	U		0.380	1.00	1	04/24/2015 08:34	WG783745
1,1-Dichloroethane	U		0.260	1.00	1	04/24/2015 08:34	WG783745
1,2-Dichloroethane	U		0.360	1.00	1	04/24/2015 08:34	WG783745
1,1-Dichloroethene	U		0.400	1.00	1	04/24/2015 08:34	WG783745
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/24/2015 08:34	WG783745
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/24/2015 08:34	WG783745
1,2-Dichloropropane	U		0.310	1.00	1	04/24/2015 08:34	WG783745
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 08:34	WG783745
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 08:34	WG783745
Ethylbenzene	U		0.380	1.00	1	04/24/2015 08:34	WG783745
Isopropylbenzene	U		0.330	1.00	1	04/24/2015 08:34	WG783745
p-Isopropyltoluene	U		0.350	1.00	1	04/24/2015 08:34	WG783745
2-Butanone (MEK)	U		3.90	10.0	1	04/24/2015 08:34	WG783745
2-Hexanone	U		3.80	10.0	1	04/24/2015 08:34	WG783745
Methylene Chloride	1.10	J	1.00	5.00	1	04/24/2015 08:34	WG783745
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/24/2015 08:34	WG783745
Methyl tert-butyl ether	U		0.370	1.00	1	04/24/2015 08:34	WG783745
Naphthalene	U		1.00	5.00	1	04/24/2015 08:34	WG783745
n-Propylbenzene	U		0.350	1.00	1	04/24/2015 08:34	WG783745
Styrene	U		0.310	1.00	1	04/24/2015 08:34	WG783745
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/24/2015 08:34	WG783745
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/24/2015 08:34	WG783745
Tetrachloroethene	U		0.370	1.00	1	04/24/2015 08:34	WG783745
Toluene	U		0.780	5.00	1	04/24/2015 08:34	WG783745
1,1,1-Trichloroethane	U		0.319	1.00	1	04/24/2015 08:34	WG783745
1,1,2-Trichloroethane	U		0.380	1.00	1	04/24/2015 08:34	WG783745
Trichloroethene	U		0.400	1.00	1	04/24/2015 08:34	WG783745
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/24/2015 08:34	WG783745
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/24/2015 08:34	WG783745
Vinyl chloride	U		0.260	1.00	1	04/24/2015 08:34	WG783745
o-Xylene	U		0.340	1.00	1	04/24/2015 08:34	WG783745
m&p-Xylene	U		0.720	1.00	1	04/24/2015 08:34	WG783745
Xylenes, Total	U		1.10	3.00	1	04/24/2015 08:34	WG783745
(S) Toluene-d8	104			88.5-111		04/24/2015 08:34	WG783745
(S) Dibromofluoromethane	105			78.3-121		04/24/2015 08:34	WG783745
(S) 4-Bromofluorobenzene	98.5			71.0-126		04/24/2015 08:34	WG783745

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	26.0	J	25.0	100	1	04/22/2015 10:58	WG783364
(S) o-Terphenyl	106			50.0-150		04/22/2015 10:58	WG783364



Method Blank (MB)

(MB) 04/24/15 08:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		2.82	10.0

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L760247-10 Original Sample (OS) • Duplicate (DUP)

(OS) 04/24/15 08:27 • (DUP) 04/24/15 08:27

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	5660	5800	1	2.44		5

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

(LCS) 04/24/15 08:38 • (LCSD) 04/24/15 08:37

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 %
Dissolved Solids	8800	7510	7830	85.3	89.0	85.0-115			4.17	5



Method Blank (MB)

(MB) 04/24/15 08:52

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		2.82	10.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L760247-11 Original Sample (OS) • Duplicate (DUP)

(OS) 04/24/15 08:53 • (DUP) 04/24/15 08:52

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	5770	5820	1	0.863		5

⁷Gl

⁸Al

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

(LCS) 04/24/15 08:49 • (LCSD) 04/24/15 08:50

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 %
Dissolved Solids	8800	8620	8510	98.0	96.7	85.0-115			1.28	5

⁹Sc



Method Blank (MB)

(MB) 04/27/15 08:59

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		2.82	10.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L760247-01 Original Sample (OS) • Duplicate (DUP)

(OS) 04/27/15 08:56 • (DUP) 04/27/15 08:55

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	4650	4810	1	3.38		5

L760264-16 Original Sample (OS) • Duplicate (DUP)

(OS) 04/27/15 08:57 • (DUP) 04/27/15 09:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1420	1400	1	1.42		5

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

(LCS) 04/27/15 08:59 • (LCSD) 04/27/15 08:59

	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	%	%	%			%	%
Dissolved Solids	8800	8970	8540	102	97.0	85.0-115			4.91	5



Method Blank (MB)

(MB) 05/04/15 12:13

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Nitrate-Nitrite	U		0.0197	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L760097-05 Original Sample (OS) • Duplicate (DUP)

(OS) 05/04/15 12:41 • (DUP) 05/04/15 12:42

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Nitrate-Nitrite	ND	ND	1	0.00		20

L760094-11 Original Sample (OS) • Duplicate (DUP)

(OS) 05/04/15 12:21 • (DUP) 05/04/15 12:22

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Nitrate-Nitrite	ND	ND	1	0.00		20

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

(LCS) 05/04/15 12:17 • (LCSD) 05/04/15 12:18

	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	%	%	%			%	%
Nitrate-Nitrite	5.00	5.26	5.31	105	106	90.0-110			0.946	20

L760097-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 05/04/15 12:31 • (MS) 05/04/15 12:33 • (MSD) 05/04/15 12:34

	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	%	%		%			%	%
Nitrate-Nitrite	5.00	ND	5.30	5.29	106	106	1	90.0-110			0.189	20



Method Blank (MB)

(MB) 05/01/15 10:16

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Nitrate-Nitrite	U		0.0197	0.100

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L760254-01 Original Sample (OS) • Duplicate (DUP)

(OS) 05/01/15 10:42 • (DUP) 05/01/15 10:43

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Nitrate-Nitrite	ND	ND	1	0.00		20

L760247-09 Original Sample (OS) • Duplicate (DUP)

(OS) 05/01/15 10:23 • (DUP) 05/01/15 10:24

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Nitrate-Nitrite	0.52	0.51	1	1.9		20

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

(LCS) 05/01/15 10:19 • (LCSD) 05/01/15 10:21

	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	%	%	%			%	%
Nitrate-Nitrite	5.00	5.11	5.40	102	108	90.0-110			5.52	20

L760247-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 05/01/15 10:25 • (MS) 05/01/15 10:27 • (MSD) 05/01/15 10:28

	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	%	%		%			%	%
Nitrate-Nitrite	5.00	1.90	5.43	5.65	70.6	75.0	1	90.0-110	J6	J6	3.97	20

Method Blank (MB)

(MB) 04/27/15 15:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L760247-18 Original Sample (OS) • Duplicate (DUP)

(OS) 04/27/15 20:01 • (DUP) 04/27/15 20:15

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.146	0.224	1	42	J P1	20
Fluoride	0.0174	0.0169	1	3	J	20
Sulfate	0.0248	-0.0843	1	0		20

L760088-03 Original Sample (OS) • Duplicate (DUP)

(OS) 04/28/15 10:18 • (DUP) 04/28/15 10:32

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Sulfate	294	290	10	1		20

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

(LCS) 04/27/15 15:37 • (LCSD) 04/27/15 15:51

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 %
Chloride	40.0	39.7	39.6	99	99	90-110			0	20
Fluoride	8.00	8.31	8.30	104	104	90-110			0	20
Sulfate	40.0	40.4	40.4	101	101	90-110			0	20

L760247-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/27/15 20:29 • (MS) 04/27/15 20:43 • (MSD) 04/27/15 20:57

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 %
Chloride	50.0	0.0943	50.5	51.2	101	102	1	80-120			1	20
Fluoride	5.00	0.0201	4.57	5.33	91	106	1	80-120			15	20
Sulfate	50.0	ND	51.7	52.3	103	105	1	80-120			1	20

Method Blank (MB)

(MB) 04/29/15 10:39

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L761158-01 Original Sample (OS) • Duplicate (DUP)

(OS) 04/29/15 20:49 • (DUP) 04/29/15 21:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	0.810	0.736	1	10		20
Sulfate	63.7	63.6	1	0		20

L761181-19 Original Sample (OS) • Duplicate (DUP)

(OS) 04/30/15 01:18 • (DUP) 04/30/15 01:32

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	25.0	25.2	1	1		20
Fluoride	0.210	0.209	1	1		20
Sulfate	3.52	3.57	1	0		20

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

(LCS) 04/29/15 18:35 • (LCSD) 04/29/15 18:50

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 %
Chloride	40.0	39.9	40.0	100	100	90-110			0	20
Fluoride	8.00	7.98	7.99	100	100	90-110			0	20
Sulfate	40.0	41.4	41.2	103	103	90-110			0	20



Method Blank (MB)

(MB) 04/24/15 13:19

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Iron	0.0289		0.015	0.100
Lead	U		0.00024	0.00200
Manganese	U		0.00025	0.00500
Potassium	0.0387		0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) 04/24/15 13:22 • (LCSD) 04/24/15 13:24

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 %
Arsenic	0.0500	0.0525	0.0513	105	103	80-120			2	20
Barium	0.0500	0.0510	0.0506	102	101	80-120			1	20
Calcium	5.00	5.28	5.26	106	105	80-120			0	20
Chromium	0.0500	0.0517	0.0505	103	101	80-120			3	20
Iron	5.00	4.87	4.76	97	95	80-120			2	20
Lead	0.0500	0.0527	0.0523	105	105	80-120			1	20
Manganese	0.0500	0.0515	0.0505	103	101	80-120			2	20
Potassium	5.00	5.29	4.99	106	100	80-120			6	20
Selenium	0.0500	0.0535	0.0525	107	105	80-120			2	20
Sodium	5.00	5.36	5.12	107	102	80-120			5	20

L760247-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/24/15 13:27 • (MS) 04/24/15 13:31 • (MSD) 04/24/15 13:34

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 %
Arsenic	0.0100	0.0777	0.135	0.136	115	117	5	75-125			0	20
Barium	0.0100	0.0127	0.0694	0.0669	113	108	5	75-125			4	20
Calcium	1.00	558	541	523	0	0	5	75-125	V	V	3	20
Chromium	0.0100	0.00237	0.0572	0.0555	110	106	5	75-125			3	20
Potassium	1.00	29.7	33.6	32.5	77	57	5	75-125		V	3	20
Iron	1.00	4.04	9.18	8.92	103	98	5	75-125			3	20



L760247-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/24/15 13:27 • (MS) 04/24/15 13:31 • (MSD) 04/24/15 13:34

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 %
Lead	0.0100	0.000163	0.0576	0.0562	115	112	5	75-125			3	20
Manganese	0.0100	1.10	1.12	1.06	43	0	5	75-125	V	V	6	20
Selenium	0.0100	0.00258	0.0608	0.0584	117	112	5	75-125			4	20
Sodium	1.00	1120	1070	1030	0	0	5	75-125	V	V	3	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 04/28/15 13:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Chromium,Dissolved	U		0.00054	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	0.0011		0.00025	0.00500
Selenium,Dissolved	U		0.00038	0.00200

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) 04/28/15 13:31 • (LCSD) 04/28/15 13:33

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 %
Arsenic,Dissolved	0.0500	0.0484	0.0496	97	99	80-120			3	20
Barium,Dissolved	0.0500	0.0479	0.0503	96	101	80-120			5	20
Chromium,Dissolved	0.0500	0.0499	0.0519	100	104	80-120			4	20
Iron,Dissolved	5.00	4.70	4.97	94	99	80-120			6	20
Lead,Dissolved	0.0500	0.0484	0.0504	97	101	80-120			4	20
Manganese,Dissolved	0.0500	0.0481	0.0506	96	101	80-120			5	20
Selenium,Dissolved	0.0500	0.0492	0.0507	98	101	80-120			3	20

L760094-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/28/15 13:36 • (MS) 04/28/15 13:41 • (MSD) 04/28/15 13:43

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 %
Arsenic,Dissolved	0.0500	0.0354	0.0870	0.0880	103	105	1	75-125			1	20
Barium,Dissolved	0.0500	0.857	0.898	0.906	81	98	1	75-125			1	20
Chromium,Dissolved	0.0500	0.000677	0.0487	0.0485	96	96	1	75-125			0	20
Iron,Dissolved	5.00	17.5	21.5	21.7	80	83	1	75-125			1	20
Lead,Dissolved	0.0500	0.00129	0.0514	0.0514	100	100	1	75-125			0	20
Manganese,Dissolved	0.0500	0.284	0.324	0.327	81	86	1	75-125			1	20
Selenium,Dissolved	0.0500	0.000265	0.0499	0.0502	99	100	1	75-125			1	20



Method Blank (MB)

(MB) 04/28/15 01:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Chromium,Dissolved	U		0.00054	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	U		0.00025	0.00500
Selenium,Dissolved	U		0.00038	0.00200

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) 04/28/15 01:54 • (LCSD) 04/28/15 01:56

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 %
Arsenic,Dissolved	0.0500	0.0492	0.0486	98	97	80-120			1	20
Barium,Dissolved	0.0500	0.0500	0.0495	100	99	80-120			1	20
Chromium,Dissolved	0.0500	0.0485	0.0484	97	97	80-120			0	20
Iron,Dissolved	5.00	4.68	4.81	94	96	80-120			3	20
Lead,Dissolved	0.0500	0.0498	0.0497	100	99	80-120			0	20
Manganese,Dissolved	0.0500	0.0487	0.0490	97	98	80-120			1	20
Selenium,Dissolved	0.0500	0.0479	0.0484	96	97	80-120			1	20

L760254-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/28/15 01:59 • (MS) 04/28/15 06:21 • (MSD) 04/28/15 06:47

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 %
Arsenic,Dissolved	0.0500	0.00529	0.0631	0.0602	116	110	1	75-125			5	20
Barium,Dissolved	0.0500	0.0110	0.0589	0.0601	96	98	1	75-125			2	20
Chromium,Dissolved	0.0500	0.000307	0.0473	0.0470	94	93	1	75-125			1	20
Iron,Dissolved	5.00	0.0879	4.55	4.75	89	93	1	75-125			4	20
Lead,Dissolved	0.0500	0.0000712	0.0495	0.0503	99	100	1	75-125			2	20
Manganese,Dissolved	0.0500	0.541	0.575	0.572	68	61	1	75-125	V	V	1	20
Selenium,Dissolved	0.0500	0.000203	0.0515	0.0510	103	102	1	75-125			1	20



Method Blank (MB)

(MB) 04/23/15 17:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	94.6			62.0-128

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) 04/23/15 14:50 • (LCSD) 04/23/15 15:15

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 %
TPH (GC/FID) Low Fraction	5.50	4.61	4.48	83.9	81.4	67.0-132			3.04	20
(S) a,a,a-Trifluorotoluene(FID)				102	102	62.0-128				

L760236-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/23/15 17:25 • (MS) 04/23/15 15:45 • (MSD) 04/23/15 16:10

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 %
TPH (GC/FID) Low Fraction	5.50	3.90	7.10	6.72	58.7	52.0	1	50.0-143			5.37	20
(S) a,a,a-Trifluorotoluene(FID)					104	104		62.0-128				



Method Blank (MB)

(MB) 04/24/15 18:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	96.2			62.0-128

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) 04/24/15 16:25 • (LCSD) 04/24/15 16:50

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 %
TPH (GC/FID) Low Fraction	5.50	5.81	5.76	106	105	67.0-132			0.800	20
(S) a,a,a-Trifluorotoluene(FID)				105	104	62.0-128				

L760247-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/24/15 18:55 • (MS) 04/24/15 17:15 • (MSD) 04/24/15 17:40

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 %
TPH (GC/FID) Low Fraction	5.50	ND	5.90	5.69	107	103	1	50.0-143			3.76	20
(S) a,a,a-Trifluorotoluene(FID)					104	104		62.0-128				



Method Blank (MB)

(MB) 04/29/15 14:27

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	98.4			62.0-128

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) 04/29/15 12:18 • (LCSD) 04/29/15 12:43

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 %
TPH (GC/FID) Low Fraction	5.50	5.04	4.99	91.6	90.7	67.0-132			0.890	20
(S) a,a,a-Trifluorotoluene(FID)				105	109	62.0-128				

L761996-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/29/15 14:52 • (MS) 04/29/15 15:17 • (MSD) 04/29/15 15:41

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 %
TPH (GC/FID) Low Fraction	5.50	ND	5.77	5.92	105	108	1	50.0-143			2.46	20
(S) a,a,a-Trifluorotoluene(FID)					110	111		62.0-128				



Method Blank (MB)

(MB) 04/28/15 10:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	97.6			62.0-128

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) 04/28/15 09:23 • (LCSD) 04/28/15 09:48

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 %
TPH (GC/FID) Low Fraction	5.50	5.44	5.19	98.9	94.4	67.0-132			4.65	20
(S) a,a,a-Trifluorotoluene(FID)				105	105	62.0-128				

L760239-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/28/15 14:46 • (MS) 04/28/15 13:31 • (MSD) 04/28/15 13:56

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 %
TPH (GC/FID) Low Fraction	5.50	1.17	6.08	6.03	89.2	88.2	1	50.0-143			0.880	20
(S) a,a,a-Trifluorotoluene(FID)					107	108		62.0-128				



Method Blank (MB)

(MB) 04/30/15 14:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	103			62.0-128

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) 04/30/15 12:51 • (LCSD) 04/30/15 13:14

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 %
TPH (GC/FID) Low Fraction	5.50	6.65	6.30	121	115	67.0-132			5.42	20
(S) a,a,a-Trifluorotoluene(FID)				104	103	62.0-128				

L760247-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/30/15 17:48 • (MS) 04/30/15 16:36 • (MSD) 04/30/15 17:00

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 %
TPH (GC/FID) Low Fraction	5.50	0.278	6.97	7.32	122	128	1	50.0-143			4.84	20
(S) a,a,a-Trifluorotoluene(FID)					106	107		62.0-128				



Method Blank (MB)

(MB) 04/24/15 07:07

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	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
Carbon disulfide	U		0.000275	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
1,2-Dibromoethane	U		0.000381	0.00100
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
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
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		0.000780	0.00500
1,1,1-Trichloroethane	U		0.000319	0.00100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) 04/24/15 07:07

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	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
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	101			88.5-111
(S) Dibromofluoromethane	108			78.3-121
(S) 4-Bromofluorobenzene	100			71.0-126

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) 04/24/15 06:11 • (LCSD) 04/24/15 06:29

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 %
Acetone	0.125	0.186	0.174	149	140	35.6-163			6.33	23.9
Benzene	0.0250	0.0279	0.0258	112	103	74.8-121			7.62	20
Bromodichloromethane	0.0250	0.0271	0.0261	108	104	75.1-116			3.80	20
Bromoform	0.0250	0.0261	0.0252	104	101	67.5-130			3.37	20
Bromomethane	0.0250	0.0242	0.0246	96.8	98.4	49.9-162			1.66	20
n-Butylbenzene	0.0250	0.0286	0.0266	114	106	76.2-126			7.16	20
sec-Butylbenzene	0.0250	0.0295	0.0273	118	109	74.4-127			7.54	20
Carbon disulfide	0.0250	0.0258	0.0274	103	109	64.6-140			5.90	20
Carbon tetrachloride	0.0250	0.0279	0.0255	112	102	70.2-123			9.21	20
Chlorobenzene	0.0250	0.0281	0.0263	112	105	78.1-119			6.45	20
Chlorodibromomethane	0.0250	0.0273	0.0264	109	106	74.0-121			3.25	20
Chloroethane	0.0250	0.0241	0.0245	96.4	98.0	61.7-135			1.63	20
Chloroform	0.0250	0.0284	0.0263	114	105	76.0-121			7.60	20
Chloromethane	0.0250	0.0297	0.0274	119	110	61.5-129			7.90	20
1,2-Dibromoethane	0.0250	0.0258	0.0254	103	102	76.6-121			1.71	20
1,1-Dichloroethane	0.0250	0.0283	0.0262	113	105	70.7-126			7.90	20
1,2-Dichloroethane	0.0250	0.0272	0.0265	109	106	68.8-124			2.49	20
1,1-Dichloroethene	0.0250	0.0278	0.0277	111	111	67.8-129			0.370	20
cis-1,2-Dichloroethene	0.0250	0.0281	0.0257	112	103	76.0-119			8.85	20
trans-1,2-Dichloroethene	0.0250	0.0271	0.0247	109	98.6	72.6-121			9.61	20
1,2-Dichloropropane	0.0250	0.0269	0.0257	107	103	76.5-119			4.22	20

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

(LCS) 04/24/15 06:11 • (LCSD) 04/24/15 06:29

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 %
cis-1,3-Dichloropropene	0.0250	0.0273	0.0261	109	105	78.2-120			4.30	20
trans-1,3-Dichloropropene	0.0250	0.0272	0.0256	109	103	74.3-123			5.92	20
Ethylbenzene	0.0250	0.0272	0.0253	109	101	78.8-122			7.14	20
2-Hexanone	0.125	0.129	0.128	103	102	65.6-144			0.550	20
Isopropylbenzene	0.0250	0.0281	0.0259	113	104	78.6-132			8.34	20
p-Isopropyltoluene	0.0250	0.0297	0.0277	119	111	74.0-131			6.95	20
2-Butanone (MEK)	0.125	0.140	0.128	112	103	55.0-149			8.80	20
Methylene Chloride	0.0250	0.0257	0.0234	103	93.8	70.3-120			9.27	20
4-Methyl-2-pentanone (MIBK)	0.125	0.121	0.122	96.6	97.8	70.5-133			1.17	20
Methyl tert-butyl ether	0.0250	0.0237	0.0232	94.8	92.9	71.2-126			2.02	20
Naphthalene	0.0250	0.0240	0.0240	95.8	95.9	68.4-128			0.0700	20
n-Propylbenzene	0.0250	0.0283	0.0260	113	104	78.2-122			8.63	20
Styrene	0.0250	0.0262	0.0244	105	97.7	80.4-126			7.12	20
1,1,1,2-Tetrachloroethane	0.0250	0.0279	0.0257	111	103	74.2-124			8.00	20
1,1,2,2-Tetrachloroethane	0.0250	0.0257	0.0258	103	103	70.7-122			0.440	20
Tetrachloroethene	0.0250	0.0287	0.0271	115	108	72.6-126			5.96	20
Toluene	0.0250	0.0272	0.0253	109	101	79.7-116			7.25	20
1,1,1-Trichloroethane	0.0250	0.0284	0.0261	114	104	73.2-123			8.49	20
1,1,2-Trichloroethane	0.0250	0.0264	0.0256	105	103	77.7-118			2.71	20
Trichloroethene	0.0250	0.0280	0.0260	112	104	77.7-118			7.53	20
1,2,4-Trimethylbenzene	0.0250	0.0281	0.0264	112	106	75.0-123			5.91	20
1,3,5-Trimethylbenzene	0.0250	0.0284	0.0267	114	107	75.6-124			6.20	20
Vinyl chloride	0.0250	0.0284	0.0273	114	109	65.9-128			4.11	20
Xylenes, Total	0.0750	0.0817	0.0769	109	103	78.7-121			6.10	20
o-Xylene	0.0250	0.0270	0.0254	108	102	77.6-122			6.14	20
m&p-Xylenes	0.0500	0.0547	0.0515	109	103	78.8-121			6.07	20
(S) Toluene-d8				103	102	88.5-111				
(S) Dibromofluoromethane				100	97.3	78.3-121				
(S) 4-Bromofluorobenzene				99.2	99.6	71.0-126				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L760247-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/24/15 08:53 • (MS) 04/24/15 09:11 • (MSD) 04/24/15 09:30

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 %
Acetone	0.125	0.00296	0.159	0.138	125	108	1	10.0-130			13.9	27.9
Benzene	0.0250	ND	0.0297	0.0255	119	102	1	54.3-133			15.5	20
Bromodichloromethane	0.0250	ND	0.0291	0.0256	116	103	1	63.9-121			12.5	20



L760247-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/24/15 08:53 • (MS) 04/24/15 09:11 • (MSD) 04/24/15 09:30

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 %
Bromoform	0.0250	ND	0.0280	0.0249	112	99.5	1	59.5-134			11.7	20.5
Bromomethane	0.0250	ND	0.0273	0.0225	109	90.2	1	41.7-155			19.0	21.9
n-Butylbenzene	0.0250	ND	0.0289	0.0254	116	102	1	62.7-140			12.7	20.3
sec-Butylbenzene	0.0250	ND	0.0290	0.0256	116	103	1	62.2-136			12.2	20.3
Carbon disulfide	0.0250	ND	0.0324	0.0269	130	108	1	43.3-149			18.6	20.3
Carbon tetrachloride	0.0250	ND	0.0296	0.0254	119	102	1	55.7-134			15.5	20
Chlorobenzene	0.0250	ND	0.0277	0.0248	111	99.3	1	67.0-125			10.8	20
Chlorodibromomethane	0.0250	ND	0.0281	0.0257	112	103	1	64.3-125			8.92	20.8
Chloroethane	0.0250	ND	0.0281	0.0231	112	92.3	1	51.5-136			19.7	40
Chloroform	0.0250	0.00126	0.0314	0.0278	121	106	1	63.0-129			12.4	20
Chloromethane	0.0250	ND	0.0309	0.0268	124	107	1	42.4-135			14.3	20
1,2-Dibromoethane	0.0250	ND	0.0272	0.0243	109	97.2	1	67.1-125			11.4	20
1,1-Dichloroethane	0.0250	ND	0.0297	0.0264	119	106	1	58.5-132			11.5	20
1,2-Dichloroethane	0.0250	ND	0.0306	0.0267	122	107	1	60.0-126			13.5	20
1,1-Dichloroethene	0.0250	ND	0.0311	0.0262	124	105	1	51.1-140			17.2	20.2
cis-1,2-Dichloroethene	0.0250	ND	0.0289	0.0262	116	105	1	59.2-129			10.0	20
trans-1,2-Dichloroethene	0.0250	ND	0.0276	0.0244	110	97.5	1	56.5-129			12.4	20
1,2-Dichloropropane	0.0250	ND	0.0281	0.0251	112	100	1	64.2-123			11.3	20
cis-1,3-Dichloropropene	0.0250	ND	0.0278	0.0241	111	96.4	1	66.4-125			14.2	20
trans-1,3-Dichloropropene	0.0250	ND	0.0288	0.0250	115	100	1	64.1-128			14.2	20
Ethylbenzene	0.0250	ND	0.0265	0.0237	106	94.6	1	61.4-133			11.4	20
2-Hexanone	0.125	ND	0.139	0.123	111	98.7	1	43.3-137			11.9	25.5
Isopropylbenzene	0.0250	ND	0.0275	0.0242	110	96.8	1	66.8-141			12.7	20
p-Isopropyltoluene	0.0250	ND	0.0294	0.0257	118	103	1	63.2-139			13.4	20.4
2-Butanone (MEK)	0.125	ND	0.148	0.131	119	105	1	22.4-138			12.6	27
Methylene Chloride	0.0250	0.00108	0.0277	0.0241	106	91.9	1	58.1-122			14.0	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.152	0.130	121	104	1	60.8-140			15.4	25.1
Methyl tert-butyl ether	0.0250	ND	0.0281	0.0253	112	101	1	57.7-134			10.6	20
Naphthalene	0.0250	ND	0.0266	0.0247	107	98.7	1	58.0-135			7.64	25.5
n-Propylbenzene	0.0250	ND	0.0282	0.0249	113	99.7	1	65.9-131			12.5	20
Styrene	0.0250	ND	0.0262	0.0243	105	97.2	1	66.8-133			7.74	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0274	0.0244	110	97.8	1	64.0-128			11.4	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0295	0.0263	118	105	1	56.0-132			11.8	22.2
Tetrachloroethene	0.0250	ND	0.0282	0.0246	113	98.3	1	53.0-139			13.6	20
Toluene	0.0250	ND	0.0283	0.0244	113	97.7	1	61.4-130			14.5	20
1,1,1-Trichloroethane	0.0250	ND	0.0298	0.0260	119	104	1	58.7-134			13.6	20
1,1,2-Trichloroethane	0.0250	ND	0.0275	0.0250	110	100	1	66.3-125			9.44	20
Trichloroethene	0.0250	ND	0.0285	0.0247	114	98.7	1	44.1-149			14.2	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0278	0.0249	111	99.7	1	57.4-137			10.8	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



L760247-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/24/15 08:53 • (MS) 04/24/15 09:11 • (MSD) 04/24/15 09:30

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 %
1,3,5-Trimethylbenzene	0.0250	ND	0.0279	0.0252	112	101	1	63.6-132			10.1	20.5
Vinyl chloride	0.0250	ND	0.0302	0.0255	121	102	1	47.8-137			16.8	20
Xylenes, Total	0.0750	ND	0.0811	0.0717	108	95.6	1	63.3-131			12.3	20
o-Xylene	0.0250	ND	0.0266	0.0241	106	96.5	1	63.3-130			9.58	20
m&p-Xylenes	0.0500	ND	0.0545	0.0475	109	95.1	1	61.7-133			13.6	20
(S) Toluene-d8					103	102		88.5-111				
(S) Dibromofluoromethane					102	102		78.3-121				
(S) 4-Bromofluorobenzene					98.0	99.3		71.0-126				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 04/26/15 21:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	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
Carbon disulfide	U		0.000275	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
1,2-Dibromoethane	U		0.000381	0.00100
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
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
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		0.000780	0.00500
1,1,1-Trichloroethane	U		0.000319	0.00100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) 04/26/15 21:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	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
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	105			88.5-111
(S) Dibromofluoromethane	107			78.3-121
(S) 4-Bromofluorobenzene	111			71.0-126

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) 04/26/15 20:07 • (LCSD) 04/26/15 20:28

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 %
Acetone	0.125	0.128	0.133	102	106	35.6-163			4.01	23.9
Benzene	0.0250	0.0245	0.0246	97.9	98.5	74.8-121			0.670	20
Bromodichloromethane	0.0250	0.0242	0.0236	97.0	94.4	75.1-116			2.64	20
Bromoform	0.0250	0.0246	0.0236	98.3	94.4	67.5-130			4.00	20
Bromomethane	0.0250	0.0209	0.0217	83.5	86.8	49.9-162			3.92	20
n-Butylbenzene	0.0250	0.0218	0.0212	87.3	85.0	76.2-126			2.76	20
sec-Butylbenzene	0.0250	0.0233	0.0223	93.4	89.1	74.4-127			4.66	20
Carbon disulfide	0.0250	0.0196	0.0196	78.5	78.5	64.6-140			0.0700	20
Carbon tetrachloride	0.0250	0.0256	0.0254	102	102	70.2-123			0.880	20
Chlorobenzene	0.0250	0.0236	0.0227	94.5	90.6	78.1-119			4.21	20
Chlorodibromomethane	0.0250	0.0245	0.0238	98.0	95.2	74.0-121			2.86	20
Chloroethane	0.0250	0.0221	0.0222	88.4	88.7	61.7-135			0.310	20
Chloroform	0.0250	0.0261	0.0261	105	104	76.0-121			0.300	20
Chloromethane	0.0250	0.0205	0.0209	81.9	83.7	61.5-129			2.25	20
1,2-Dibromoethane	0.0250	0.0230	0.0223	92.1	89.1	76.6-121			3.40	20
1,1-Dichloroethane	0.0250	0.0261	0.0261	104	104	70.7-126			0.0100	20
1,2-Dichloroethane	0.0250	0.0261	0.0262	104	105	68.8-124			0.170	20
1,1-Dichloroethene	0.0250	0.0251	0.0251	100	101	67.8-129			0.180	20
cis-1,2-Dichloroethene	0.0250	0.0248	0.0242	99.3	96.9	76.0-119			2.49	20
trans-1,2-Dichloroethene	0.0250	0.0228	0.0229	91.0	91.5	72.6-121			0.460	20
1,2-Dichloropropane	0.0250	0.0256	0.0248	102	99.2	76.5-119			3.07	20

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

(LCS) 04/26/15 20:07 • (LCSD) 04/26/15 20:28

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 %
cis-1,3-Dichloropropene	0.0250	0.0240	0.0235	96.2	94.1	78.2-120			2.20	20
trans-1,3-Dichloropropene	0.0250	0.0241	0.0237	96.2	94.9	74.3-123			1.40	20
Ethylbenzene	0.0250	0.0237	0.0224	94.9	89.7	78.8-122			5.60	20
2-Hexanone	0.125	0.134	0.133	108	106	65.6-144			1.48	20
Isopropylbenzene	0.0250	0.0230	0.0219	92.1	87.8	78.6-132			4.78	20
p-Isopropyltoluene	0.0250	0.0236	0.0221	94.6	88.3	74.0-131			6.79	20
2-Butanone (MEK)	0.125	0.134	0.139	107	111	55.0-149			3.24	20
Methylene Chloride	0.0250	0.0251	0.0256	100	102	70.3-120			2.07	20
4-Methyl-2-pentanone (MIBK)	0.125	0.130	0.131	104	105	70.5-133			0.960	20
Methyl tert-butyl ether	0.0250	0.0269	0.0268	108	107	71.2-126			0.350	20
Naphthalene	0.0250	0.0211	0.0211	84.4	84.5	68.4-128			0.120	20
n-Propylbenzene	0.0250	0.0236	0.0222	94.3	88.8	78.2-122			5.95	20
Styrene	0.0250	0.0241	0.0231	96.4	92.3	80.4-126			4.35	20
1,1,1,2-Tetrachloroethane	0.0250	0.0224	0.0213	89.5	85.0	74.2-124			5.15	20
1,1,2,2-Tetrachloroethane	0.0250	0.0270	0.0260	108	104	70.7-122			3.58	20
Tetrachloroethene	0.0250	0.0222	0.0209	88.7	83.4	72.6-126			6.10	20
Toluene	0.0250	0.0236	0.0233	94.4	93.3	79.7-116			1.16	20
1,1,1-Trichloroethane	0.0250	0.0258	0.0257	103	103	73.2-123			0.390	20
1,1,2-Trichloroethane	0.0250	0.0238	0.0226	95.4	90.2	77.7-118			5.55	20
Trichloroethene	0.0250	0.0236	0.0228	94.2	91.3	77.7-118			3.16	20
1,2,4-Trimethylbenzene	0.0250	0.0227	0.0217	90.9	86.7	75.0-123			4.69	20
1,3,5-Trimethylbenzene	0.0250	0.0238	0.0224	95.3	89.6	75.6-124			6.22	20
Vinyl chloride	0.0250	0.0219	0.0213	87.6	85.1	65.9-128			2.95	20
Xylenes, Total	0.0750	0.0697	0.0667	92.9	88.9	78.7-121			4.41	20
o-Xylene	0.0250	0.0237	0.0228	94.8	91.2	77.6-122			3.91	20
m&p-Xylenes	0.0500	0.0460	0.0439	92.0	87.8	78.8-121			4.67	20
(S) Toluene-d8				105	106	88.5-111				
(S) Dibromofluoromethane				102	107	78.3-121				
(S) 4-Bromofluorobenzene				108	103	71.0-126				

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

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Sc

L760264-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/26/15 22:09 • (MS) 04/26/15 22:29 • (MSD) 04/26/15 22:49

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 %
Acetone	0.125	0.0397	0.168	0.146	103	85.1	1	10.0-130			14.1	27.9
Benzene	0.0250	0.0127	0.0384	0.0344	103	86.9	1	54.3-133			11.0	20
Bromodichloromethane	0.0250	ND	0.0255	0.0238	102	95.2	1	63.9-121			6.89	20



L760264-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/26/15 22:09 • (MS) 04/26/15 22:29 • (MSD) 04/26/15 22:49

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 %
Bromoform	0.0250	ND	0.0246	0.0221	98.4	88.2	1	59.5-134			10.9	20.5
Bromomethane	0.0250	ND	0.0133	0.0123	53.4	49.0	1	41.7-155			8.48	21.9
n-Butylbenzene	0.0250	ND	0.0225	0.0199	90.1	79.8	1	62.7-140			12.2	20.3
sec-Butylbenzene	0.0250	0.00249	0.0263	0.0230	95.1	81.9	1	62.2-136			13.4	20.3
Carbon disulfide	0.0250	0.00178	0.0266	0.0251	99.2	93.3	1	43.3-149			5.68	20.3
Carbon tetrachloride	0.0250	ND	0.0270	0.0237	108	94.7	1	55.7-134			13.0	20
Chlorobenzene	0.0250	ND	0.0245	0.0217	97.9	86.8	1	67.0-125			12.1	20
Chlorodibromomethane	0.0250	ND	0.0252	0.0227	101	91.0	1	64.3-125			10.3	20.8
Chloroethane	0.0250	ND	0.0237	0.0216	94.9	86.3	1	51.5-136			9.54	40
Chloroform	0.0250	ND	0.0292	0.0264	117	105	1	63.0-129			10.1	20
Chloromethane	0.0250	ND	0.0154	0.0147	61.7	58.9	1	42.4-135			4.63	20
1,2-Dibromoethane	0.0250	ND	0.0251	0.0225	100	90.0	1	67.1-125			10.9	20
1,1-Dichloroethane	0.0250	ND	0.0285	0.0259	114	103	1	58.5-132			9.83	20
1,2-Dichloroethane	0.0250	0.000376	0.0298	0.0264	118	104	1	60.0-126			12.2	20
1,1-Dichloroethene	0.0250	ND	0.0271	0.0242	108	96.6	1	51.1-140			11.6	20.2
cis-1,2-Dichloroethene	0.0250	ND	0.0265	0.0245	106	98.0	1	59.2-129			7.86	20
trans-1,2-Dichloroethene	0.0250	ND	0.0245	0.0220	98.0	88.1	1	56.5-129			10.6	20
1,2-Dichloropropane	0.0250	ND	0.0272	0.0253	109	101	1	64.2-123			7.32	20
cis-1,3-Dichloropropene	0.0250	ND	0.0234	0.0217	93.8	86.7	1	66.4-125			7.88	20
trans-1,3-Dichloropropene	0.0250	ND	0.0262	0.0241	105	96.4	1	64.1-128			8.20	20
Ethylbenzene	0.0250	0.000627	0.0245	0.0220	95.6	85.5	1	61.4-133			10.8	20
2-Hexanone	0.125	ND	0.145	0.131	116	105	1	43.3-137			9.92	25.5
Isopropylbenzene	0.0250	0.0148	0.0365	0.0324	86.8	70.4	1	66.8-141			12.0	20
p-Isopropyltoluene	0.0250	ND	0.0238	0.0211	95.3	84.6	1	63.2-139			12.0	20.4
2-Butanone (MEK)	0.125	0.00208	0.153	0.138	121	109	1	22.4-138			10.2	27
Methylene Chloride	0.0250	ND	0.0274	0.0249	109	99.4	1	58.1-122			9.64	20
4-Methyl-2-pentanone (MIBK)	0.125	0.000866	0.147	0.134	117	106	1	60.8-140			9.76	25.1
Methyl tert-butyl ether	0.0250	ND	0.0300	0.0277	120	111	1	57.7-134			7.81	20
Naphthalene	0.0250	0.000600	0.0238	0.0220	92.7	85.6	1	58.0-135			7.69	25.5
n-Propylbenzene	0.0250	0.00228	0.0257	0.0229	93.9	82.4	1	65.9-131			11.8	20
Styrene	0.0250	ND	0.0246	0.0222	98.4	88.7	1	66.8-133			10.4	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0226	0.0205	90.4	82.1	1	64.0-128			9.64	20
1,1,2,2-Tetrachloroethane	0.0250	0.000307	0.0312	0.0286	124	113	1	56.0-132			8.80	22.2
Tetrachloroethene	0.0250	ND	0.0227	0.0199	90.8	79.4	1	53.0-139			13.4	20
Toluene	0.0250	0.000446	0.0248	0.0229	97.3	89.7	1	61.4-130			8.01	20
1,1,1-Trichloroethane	0.0250	ND	0.0283	0.0252	113	101	1	58.7-134			11.9	20
1,1,2-Trichloroethane	0.0250	ND	0.0264	0.0242	106	96.7	1	66.3-125			8.73	20
Trichloroethene	0.0250	ND	0.0235	0.0215	94.1	86.1	1	44.1-149			8.89	20
1,2,4-Trimethylbenzene	0.0250	0.000879	0.0239	0.0213	92.3	81.6	1	57.4-137			11.8	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



L760264-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/26/15 22:09 • (MS) 04/26/15 22:29 • (MSD) 04/26/15 22:49

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 %
1,3,5-Trimethylbenzene	0.0250	ND	0.0242	0.0215	96.8	86.1	1	63.6-132			11.7	20.5
Vinyl chloride	0.0250	ND	0.0215	0.0191	86.0	76.4	1	47.8-137			11.8	20
Xylenes, Total	0.0750	0.00280	0.0739	0.0656	94.8	83.7	1	63.3-131			12.0	20
o-Xylene	0.0250	ND	0.0241	0.0214	96.5	85.7	1	63.3-130			11.8	20
m&p-Xylenes	0.0500	0.00280	0.0498	0.0441	94.0	82.7	1	61.7-133			12.1	20
(S) Toluene-d8					104	106		88.5-111				
(S) Dibromofluoromethane					109	108		78.3-121				
(S) 4-Bromofluorobenzene					106	104		71.0-126				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc



Method Blank (MB)

(MB) 04/29/15 21:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	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
Carbon disulfide	U		0.000275	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
1,2-Dibromoethane	U		0.000381	0.00100
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
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
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		0.000780	0.00500
1,1,1-Trichloroethane	U		0.000319	0.00100

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) 04/29/15 21:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	0.000789		0.000398	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
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	105			88.5-111
(S) Dibromofluoromethane	107			78.3-121
(S) 4-Bromofluorobenzene	111			71.0-126

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) 04/29/15 20:39 • (LCSD) 04/29/15 20:58

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 %
Acetone	0.125	0.104	0.0993	83.3	79.5	35.6-163			4.74	23.9
Benzene	0.0250	0.0242	0.0235	97.0	93.9	74.8-121			3.24	20
Bromodichloromethane	0.0250	0.0270	0.0264	108	106	75.1-116			2.26	20
Bromoform	0.0250	0.0277	0.0249	111	99.4	67.5-130			10.9	20
Bromomethane	0.0250	0.0211	0.0208	84.4	83.1	49.9-162			1.47	20
n-Butylbenzene	0.0250	0.0270	0.0270	108	108	76.2-126			0.0800	20
sec-Butylbenzene	0.0250	0.0264	0.0245	105	98.0	74.4-127			7.29	20
Carbon disulfide	0.0250	0.0249	0.0246	99.6	98.2	64.6-140			1.42	20
Carbon tetrachloride	0.0250	0.0299	0.0291	120	116	70.2-123			2.70	20
Chlorobenzene	0.0250	0.0265	0.0241	106	96.4	78.1-119			9.45	20
Chlorodibromomethane	0.0250	0.0268	0.0246	107	98.4	74.0-121			8.42	20
Chloroethane	0.0250	0.0228	0.0209	91.0	83.7	61.7-135			8.36	20
Chloroform	0.0250	0.0264	0.0250	106	100	76.0-121			5.40	20
Chloromethane	0.0250	0.0236	0.0233	94.4	93.3	61.5-129			1.14	20
1,2-Dibromoethane	0.0250	0.0238	0.0243	95.1	97.1	76.6-121			2.05	20
1,1-Dichloroethane	0.0250	0.0260	0.0254	104	101	70.7-126			2.43	20
1,2-Dichloroethane	0.0250	0.0279	0.0282	112	113	68.8-124			0.820	20
1,1-Dichloroethene	0.0250	0.0283	0.0268	113	107	67.8-129			5.62	20
cis-1,2-Dichloroethene	0.0250	0.0234	0.0226	93.7	90.3	76.0-119			3.76	20
trans-1,2-Dichloroethene	0.0250	0.0243	0.0254	97.2	102	72.6-121			4.50	20
1,2-Dichloropropane	0.0250	0.0249	0.0257	99.5	103	76.5-119			3.34	20

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

(LCS) 04/29/15 20:39 • (LCSD) 04/29/15 20:58

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 %
cis-1,3-Dichloropropene	0.0250	0.0264	0.0262	106	105	78.2-120			0.920	20
trans-1,3-Dichloropropene	0.0250	0.0238	0.0234	95.4	93.8	74.3-123			1.70	20
Ethylbenzene	0.0250	0.0278	0.0260	111	104	78.8-122			6.67	20
2-Hexanone	0.125	0.120	0.112	95.7	89.2	65.6-144			7.02	20
Isopropylbenzene	0.0250	0.0263	0.0243	105	97.2	78.6-132			7.78	20
p-Isopropyltoluene	0.0250	0.0265	0.0241	106	96.3	74.0-131			9.71	20
2-Butanone (MEK)	0.125	0.114	0.120	91.4	96.3	55.0-149			5.17	20
Methylene Chloride	0.0250	0.0243	0.0254	97.3	102	70.3-120			4.39	20
4-Methyl-2-pentanone (MIBK)	0.125	0.115	0.114	92.2	91.6	70.5-133			0.630	20
Methyl tert-butyl ether	0.0250	0.0251	0.0240	101	96.1	71.2-126			4.54	20
Naphthalene	0.0250	0.0230	0.0230	92.1	92.1	68.4-128			0.0400	20
n-Propylbenzene	0.0250	0.0274	0.0258	110	103	78.2-122			6.02	20
Styrene	0.0250	0.0257	0.0244	103	97.6	80.4-126			5.23	20
1,1,1,2-Tetrachloroethane	0.0250	0.0269	0.0239	108	95.5	74.2-124			11.9	20
1,1,2,2-Tetrachloroethane	0.0250	0.0239	0.0217	95.6	86.8	70.7-122			9.68	20
Tetrachloroethene	0.0250	0.0276	0.0267	110	107	72.6-126			3.36	20
Toluene	0.0250	0.0251	0.0260	101	104	79.7-116			3.40	20
1,1,1-Trichloroethane	0.0250	0.0294	0.0276	118	110	73.2-123			6.34	20
1,1,2-Trichloroethane	0.0250	0.0218	0.0221	87.0	88.5	77.7-118			1.64	20
Trichloroethene	0.0250	0.0286	0.0261	115	104	77.7-118			9.41	20
1,2,4-Trimethylbenzene	0.0250	0.0250	0.0241	99.9	96.2	75.0-123			3.79	20
1,3,5-Trimethylbenzene	0.0250	0.0273	0.0246	109	98.4	75.6-124			10.4	20
Vinyl chloride	0.0250	0.0232	0.0216	92.6	86.5	65.9-128			6.84	20
Xylenes, Total	0.0750	0.0796	0.0742	106	99.0	78.7-121			7.03	20
o-Xylene	0.0250	0.0268	0.0245	107	98.2	77.6-122			8.82	20
m&p-Xylenes	0.0500	0.0528	0.0497	106	99.4	78.8-121			6.13	20
(S) Toluene-d8				107	108	88.5-111				
(S) Dibromofluoromethane				109	106	78.3-121				
(S) 4-Bromofluorobenzene				110	103	71.0-126				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L760764-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/29/15 23:22 • (MS) 04/29/15 22:04 • (MSD) 04/29/15 22:24

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 %
Acetone	0.125	ND	0.0635	0.0712	50.8	57.0	1	10.0-130			11.4	27.9
Benzene	0.0250	ND	0.0242	0.0250	96.9	100	1	54.3-133			3.26	20
Bromodichloromethane	0.0250	ND	0.0287	0.0278	115	111	1	63.9-121			3.20	20

L760764-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/29/15 23:22 • (MS) 04/29/15 22:04 • (MSD) 04/29/15 22:24

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 %
Bromoform	0.0250	ND	0.0271	0.0292	108	117	1	59.5-134			7.38	20.5
Bromomethane	0.0250	ND	0.0217	0.0230	86.9	92.0	1	41.7-155			5.74	21.9
n-Butylbenzene	0.0250	ND	0.0248	0.0253	99.4	101	1	62.7-140			1.96	20.3
sec-Butylbenzene	0.0250	ND	0.0242	0.0260	96.9	104	1	62.2-136			7.18	20.3
Carbon disulfide	0.0250	ND	0.0244	0.0242	97.6	96.6	1	43.3-149			1.01	20.3
Carbon tetrachloride	0.0250	ND	0.0292	0.0295	117	118	1	55.7-134			1.05	20
Chlorobenzene	0.0250	ND	0.0247	0.0271	98.9	108	1	67.0-125			9.00	20
Chlorodibromomethane	0.0250	ND	0.0245	0.0266	97.8	106	1	64.3-125			8.37	20.8
Chloroethane	0.0250	ND	0.0209	0.0221	83.7	88.5	1	51.5-136			5.61	40
Chloroform	0.0250	ND	0.0265	0.0265	106	106	1	63.0-129			0.250	20
Chloromethane	0.0250	ND	0.0241	0.0234	96.4	93.4	1	42.4-135			3.17	20
1,2-Dibromoethane	0.0250	ND	0.0238	0.0253	95.3	101	1	67.1-125			5.80	20
1,1-Dichloroethane	0.0250	ND	0.0266	0.0267	106	107	1	58.5-132			0.660	20
1,2-Dichloroethane	0.0250	ND	0.0289	0.0304	116	122	1	60.0-126			4.88	20
1,1-Dichloroethene	0.0250	ND	0.0288	0.0277	115	111	1	51.1-140			4.09	20.2
cis-1,2-Dichloroethene	0.0250	ND	0.0227	0.0241	91.0	96.4	1	59.2-129			5.84	20
trans-1,2-Dichloroethene	0.0250	ND	0.0246	0.0244	98.4	97.6	1	56.5-129			0.850	20
1,2-Dichloropropane	0.0250	ND	0.0268	0.0274	107	109	1	64.2-123			2.28	20
cis-1,3-Dichloropropene	0.0250	ND	0.0260	0.0256	104	102	1	66.4-125			1.61	20
trans-1,3-Dichloropropene	0.0250	ND	0.0220	0.0232	87.9	92.8	1	64.1-128			5.43	20
Ethylbenzene	0.0250	ND	0.0259	0.0269	104	107	1	61.4-133			3.47	20
2-Hexanone	0.125	ND	0.106	0.126	84.4	100	1	43.3-137			17.3	25.5
Isopropylbenzene	0.0250	ND	0.0243	0.0263	97.3	105	1	66.8-141			7.79	20
p-Isopropyltoluene	0.0250	ND	0.0226	0.0249	90.4	99.7	1	63.2-139			9.75	20.4
2-Butanone (MEK)	0.125	ND	0.100	0.111	80.0	88.7	1	22.4-138			10.4	27
Methylene Chloride	0.0250	ND	0.0246	0.0262	98.2	105	1	58.1-122			6.48	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.124	0.130	99.1	104	1	60.8-140			4.95	25.1
Methyl tert-butyl ether	0.0250	ND	0.0253	0.0263	101	105	1	57.7-134			3.91	20
Naphthalene	0.0250	0.000317	0.0221	0.0258	87.3	102	1	58.0-135			15.2	25.5
n-Propylbenzene	0.0250	ND	0.0242	0.0266	96.9	106	1	65.9-131			9.25	20
Styrene	0.0250	ND	0.0242	0.0256	96.9	103	1	66.8-133			5.67	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0252	0.0264	101	106	1	64.0-128			4.75	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0231	0.0249	92.4	99.6	1	56.0-132			7.53	22.2
Tetrachloroethene	0.0250	ND	0.0244	0.0270	97.6	108	1	53.0-139			10.1	20
Toluene	0.0250	ND	0.0252	0.0254	101	101	1	61.4-130			0.690	20
1,1,1-Trichloroethane	0.0250	ND	0.0284	0.0293	114	117	1	58.7-134			3.09	20
1,1,2-Trichloroethane	0.0250	ND	0.0218	0.0246	87.2	98.3	1	66.3-125			12.0	20
Trichloroethene	0.0250	0.000558	0.0259	0.0258	101	101	1	44.1-149			0.550	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0229	0.0243	91.4	97.3	1	57.4-137			6.23	20

1

Cp

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Tc

3

Ss

4

Cn

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Sr

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Qc

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Gl

8

Al

9

Sc



L760764-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/29/15 23:22 • (MS) 04/29/15 22:04 • (MSD) 04/29/15 22:24

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 %
1,3,5-Trimethylbenzene	0.0250	ND	0.0231	0.0268	92.4	107	1	63.6-132			14.9	20.5
Vinyl chloride	0.0250	ND	0.0227	0.0225	90.9	90.0	1	47.8-137			1.02	20
Xylenes, Total	0.0750	ND	0.0704	0.0771	93.9	103	1	63.3-131			9.05	20
o-Xylene	0.0250	ND	0.0248	0.0256	99.1	102	1	63.3-130			3.33	20
m&p-Xylenes	0.0500	ND	0.0456	0.0515	91.3	103	1	61.7-133			12.0	20
(S) Toluene-d8					109	107		88.5-111				
(S) Dibromofluoromethane					108	106		78.3-121				
(S) 4-Bromofluorobenzene					99.2	107		71.0-126				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 04/30/15 14:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	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
Carbon disulfide	U		0.000275	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
1,2-Dibromoethane	U		0.000381	0.00100
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
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
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		0.000780	0.00500
1,1,1-Trichloroethane	U		0.000319	0.00100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc



Method Blank (MB)

(MB) 04/30/15 14:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	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
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	103			88.5-111
(S) Dibromofluoromethane	91.3			78.3-121
(S) 4-Bromofluorobenzene	105			71.0-126

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) 04/30/15 11:19 • (LCSD) 04/30/15 12:51

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 %
Acetone	0.125	0.107	0.0957	85.3	76.5	35.6-163			10.8	23.9
Benzene	0.0250	0.0235	0.0226	94.1	90.3	74.8-121			4.11	20
Bromodichloromethane	0.0250	0.0247	0.0235	98.7	93.8	75.1-116			5.07	20
Bromoform	0.0250	0.0261	0.0251	104	101	67.5-130			3.85	20
Bromomethane	0.0250	0.0218	0.0213	87.3	85.4	49.9-162			2.23	20
n-Butylbenzene	0.0250	0.0240	0.0244	96.0	97.8	76.2-126			1.81	20
sec-Butylbenzene	0.0250	0.0255	0.0266	102	106	74.4-127			4.35	20
Carbon disulfide	0.0250	0.0253	0.0222	101	88.7	64.6-140			13.1	20
Carbon tetrachloride	0.0250	0.0233	0.0225	93.4	89.9	70.2-123			3.84	20
Chlorobenzene	0.0250	0.0265	0.0269	106	107	78.1-119			1.40	20
Chlorodibromomethane	0.0250	0.0266	0.0263	106	105	74.0-121			1.09	20
Chloroethane	0.0250	0.0213	0.0209	85.3	83.6	61.7-135			1.98	20
Chloroform	0.0250	0.0239	0.0229	95.8	91.7	76.0-121			4.40	20
Chloromethane	0.0250	0.0211	0.0199	84.6	79.7	61.5-129			5.99	20
1,2-Dibromoethane	0.0250	0.0261	0.0243	104	97.3	76.6-121			6.95	20
1,1-Dichloroethane	0.0250	0.0235	0.0225	93.8	90.1	70.7-126			4.07	20
1,2-Dichloroethane	0.0250	0.0240	0.0221	96.0	88.5	68.8-124			8.11	20
1,1-Dichloroethene	0.0250	0.0240	0.0231	96.1	92.5	67.8-129			3.82	20
cis-1,2-Dichloroethene	0.0250	0.0235	0.0222	94.0	88.8	76.0-119			5.72	20
trans-1,2-Dichloroethene	0.0250	0.0232	0.0224	92.8	89.7	72.6-121			3.39	20
1,2-Dichloropropane	0.0250	0.0259	0.0247	104	98.6	76.5-119			5.01	20

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

(LCS) 04/30/15 11:19 • (LCSD) 04/30/15 12:51

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 %
cis-1,3-Dichloropropene	0.0250	0.0244	0.0231	97.7	92.3	78.2-120			5.72	20
trans-1,3-Dichloropropene	0.0250	0.0250	0.0235	100	94.0	74.3-123			6.25	20
Ethylbenzene	0.0250	0.0260	0.0267	104	107	78.8-122			2.89	20
2-Hexanone	0.125	0.136	0.131	109	105	65.6-144			3.24	20
Isopropylbenzene	0.0250	0.0252	0.0263	101	105	78.6-132			4.54	20
p-Isopropyltoluene	0.0250	0.0259	0.0270	104	108	74.0-131			4.10	20
2-Butanone (MEK)	0.125	0.118	0.102	94.2	81.6	55.0-149			14.4	20
Methylene Chloride	0.0250	0.0255	0.0234	102	93.8	70.3-120			8.44	20
4-Methyl-2-pentanone (MIBK)	0.125	0.125	0.113	100	90.2	70.5-133			10.3	20
Methyl tert-butyl ether	0.0250	0.0245	0.0225	98.1	89.9	71.2-126			8.72	20
Naphthalene	0.0250	0.0242	0.0223	96.8	89.4	68.4-128			7.95	20
n-Propylbenzene	0.0250	0.0258	0.0268	103	107	78.2-122			3.84	20
Styrene	0.0250	0.0272	0.0277	109	111	80.4-126			1.92	20
1,1,1,2-Tetrachloroethane	0.0250	0.0240	0.0242	96.2	96.7	74.2-124			0.560	20
1,1,2,2-Tetrachloroethane	0.0250	0.0281	0.0269	112	107	70.7-122			4.36	20
Tetrachloroethene	0.0250	0.0265	0.0270	106	108	72.6-126			2.00	20
Toluene	0.0250	0.0250	0.0243	100	97.1	79.7-116			2.96	20
1,1,1-Trichloroethane	0.0250	0.0242	0.0235	96.7	94.2	73.2-123			2.61	20
1,1,2-Trichloroethane	0.0250	0.0260	0.0245	104	97.9	77.7-118			6.05	20
Trichloroethene	0.0250	0.0247	0.0236	98.6	94.4	77.7-118			4.38	20
1,2,4-Trimethylbenzene	0.0250	0.0253	0.0264	101	106	75.0-123			4.26	20
1,3,5-Trimethylbenzene	0.0250	0.0263	0.0275	105	110	75.6-124			4.24	20
Vinyl chloride	0.0250	0.0215	0.0205	85.8	82.1	65.9-128			4.40	20
Xylenes, Total	0.0750	0.0791	0.0809	105	108	78.7-121			2.18	20
o-Xylene	0.0250	0.0265	0.0272	106	109	77.6-122			2.26	20
m&p-Xylenes	0.0500	0.0526	0.0537	105	107	78.8-121			2.14	20
(S) Toluene-d8				103	102	88.5-111				
(S) Dibromofluoromethane				90.6	89.6	78.3-121				
(S) 4-Bromofluorobenzene				101	104	71.0-126				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L760247-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/30/15 16:57 • (MS) 04/30/15 15:36 • (MSD) 04/30/15 15:56

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 %
Acetone	0.125	0.0235	0.120	0.127	77.6	82.9	1	10.0-130			5.36	27.9
Benzene	0.0250	ND	0.0221	0.0231	88.5	92.3	1	54.3-133			4.27	20
Bromodichloromethane	0.0250	ND	0.0228	0.0245	91.1	98.0	1	63.9-121			7.26	20

L760247-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/30/15 16:57 • (MS) 04/30/15 15:36 • (MSD) 04/30/15 15:56

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 %
Bromoform	0.0250	ND	0.0246	0.0262	98.6	105	1	59.5-134			6.14	20.5
Bromomethane	0.0250	ND	0.0197	0.0217	78.7	86.6	1	41.7-155			9.59	21.9
n-Butylbenzene	0.0250	ND	0.0236	0.0243	94.3	97.1	1	62.7-140			2.91	20.3
sec-Butylbenzene	0.0250	ND	0.0252	0.0260	101	104	1	62.2-136			3.37	20.3
Carbon disulfide	0.0250	ND	0.0226	0.0233	90.3	93.2	1	43.3-149			3.09	20.3
Carbon tetrachloride	0.0250	ND	0.0231	0.0240	92.3	95.8	1	55.7-134			3.77	20
Chlorobenzene	0.0250	ND	0.0247	0.0253	98.9	101	1	67.0-125			2.22	20
Chlorodibromomethane	0.0250	ND	0.0247	0.0261	98.7	104	1	64.3-125			5.70	20.8
Chloroethane	0.0250	ND	0.0210	0.0212	83.9	84.7	1	51.5-136			0.870	40
Chloroform	0.0250	ND	0.0223	0.0237	89.2	94.9	1	63.0-129			6.13	20
Chloromethane	0.0250	ND	0.0198	0.0204	79.0	81.7	1	42.4-135			3.32	20
1,2-Dibromoethane	0.0250	ND	0.0246	0.0256	98.4	103	1	67.1-125			4.07	20
1,1-Dichloroethane	0.0250	ND	0.0222	0.0234	88.7	93.5	1	58.5-132			5.29	20
1,2-Dichloroethane	0.0250	ND	0.0223	0.0233	89.1	93.1	1	60.0-126			4.41	20
1,1-Dichloroethene	0.0250	ND	0.0233	0.0243	93.3	97.2	1	51.1-140			4.05	20.2
cis-1,2-Dichloroethene	0.0250	ND	0.0219	0.0227	87.4	90.9	1	59.2-129			3.93	20
trans-1,2-Dichloroethene	0.0250	ND	0.0219	0.0223	87.7	89.2	1	56.5-129			1.67	20
1,2-Dichloropropane	0.0250	ND	0.0234	0.0248	93.5	99.2	1	64.2-123			5.95	20
cis-1,3-Dichloropropene	0.0250	ND	0.0224	0.0234	89.6	93.6	1	66.4-125			4.38	20
trans-1,3-Dichloropropene	0.0250	ND	0.0235	0.0248	94.0	99.1	1	64.1-128			5.31	20
Ethylbenzene	0.0250	0.000360	0.0254	0.0263	100	104	1	61.4-133			3.55	20
2-Hexanone	0.125	0.00160	0.140	0.144	111	114	1	43.3-137			2.66	25.5
Isopropylbenzene	0.0250	0.00159	0.0261	0.0268	98.0	101	1	66.8-141			2.66	20
p-Isopropyltoluene	0.0250	ND	0.0253	0.0260	101	104	1	63.2-139			2.66	20.4
2-Butanone (MEK)	0.125	0.00237	0.117	0.127	91.3	99.7	1	22.4-138			8.55	27
Methylene Chloride	0.0250	ND	0.0227	0.0238	90.9	95.2	1	58.1-122			4.63	20
4-Methyl-2-pentanone (MIBK)	0.125	0.00174	0.131	0.140	104	111	1	60.8-140			6.51	25.1
Methyl tert-butyl ether	0.0250	ND	0.0234	0.0243	93.8	97.3	1	57.7-134			3.65	20
Naphthalene	0.0250	ND	0.0240	0.0253	95.9	101	1	58.0-135			5.57	25.5
n-Propylbenzene	0.0250	0.000534	0.0253	0.0258	98.9	101	1	65.9-131			2.12	20
Styrene	0.0250	ND	0.0254	0.0260	102	104	1	66.8-133			2.18	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0228	0.0232	91.2	92.9	1	64.0-128			1.80	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0297	0.0312	119	125	1	56.0-132			5.07	22.2
Tetrachloroethene	0.0250	ND	0.0253	0.0256	101	102	1	53.0-139			1.23	20
Toluene	0.0250	0.000401	0.0232	0.0247	91.2	97.2	1	61.4-130			6.29	20
1,1,1-Trichloroethane	0.0250	ND	0.0233	0.0240	93.1	96.1	1	58.7-134			3.14	20
1,1,2-Trichloroethane	0.0250	0.000301	0.0248	0.0258	98.0	102	1	66.3-125			4.11	20
Trichloroethene	0.0250	ND	0.0233	0.0243	93.2	97.0	1	44.1-149			3.98	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0240	0.0246	95.9	98.4	1	57.4-137			2.57	20

1

Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc



L760247-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 04/30/15 16:57 • (MS) 04/30/15 15:36 • (MSD) 04/30/15 15:56

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 %
1,3,5-Trimethylbenzene	0.0250	ND	0.0250	0.0259	100	104	1	63.6-132			3.60	20.5
Vinyl chloride	0.0250	ND	0.0204	0.0211	81.6	84.3	1	47.8-137			3.14	20
Xylenes, Total	0.0750	0.000607	0.0754	0.0772	99.7	102	1	63.3-131			2.36	20
o-Xylene	0.0250	0.000607	0.0254	0.0262	99.3	102	1	63.3-130			2.86	20
m&p-Xylenes	0.0500	0.000361	0.0500	0.0511	99.3	101	1	61.7-133			2.10	20
(S) Toluene-d8					103	104		88.5-111				
(S) Dibromofluoromethane					92.3	92.2		78.3-121				
(S) 4-Bromofluorobenzene					103	101		71.0-126				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) 04/21/15 22:15

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	108			50.0-150

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) 04/21/15 22:35 • (LCSD) 04/21/15 22:54

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) High Fraction	1.50	1.48	1.52	98.4	101	50.0-150			2.66	20
(S) o-Terphenyl				115	110	50.0-150				



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
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.
(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.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
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



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**.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina ¹	DW21704
Florida	E87487	North Carolina ²	41
Georgia	NELAP	North Dakota	R-140
Georgia ¹	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky ¹	90010	South Dakota	n/a
Kentucky ²	16	Tennessee ¹⁴	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

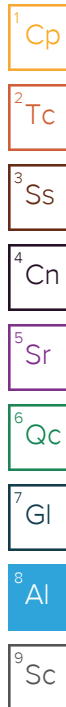
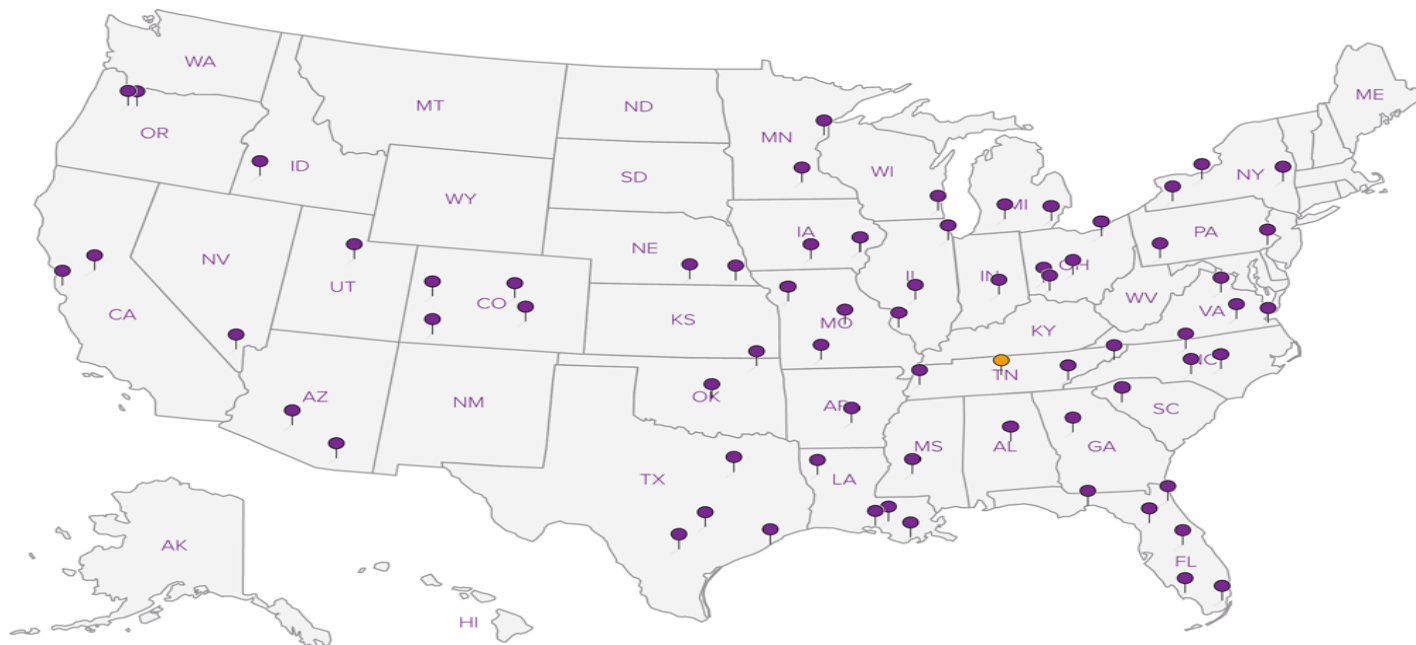
¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
Canada	1461.01	DOD	1461.01
EPA–Crypto	TN00003	USDA	S-67674

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.**



ARCADIS, Inc. 2929 Briarpark Drive, Suite 300 Houston, TX 77042				Billing Information: 				Analysis / Container / Preservative												Chain of Custody Page <u>29</u> of <u>34</u> ESC L.A.B S.C.I.E.N.C.E.S YOUR LAB OF CHOICE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859 L# <u>L760247</u> I# <u>1172</u> Account: ARCADHTX Template: T101410 Prelogin: TSR: Pam Langford PB: <u>31-15 MD</u> Shipped Via:															
Report to: Pam Krueger Project Navajo Refining Company				Email To: pam.krueger@arcadis-us.com; maisha.turner@arcadis-us.com; melissa.osborne@arcadis-us.com				City/State Artesia, NM Collected: Lab Project # ARCADHTX- NAVAJO FULL												Phone: 713-953-4816 Fax: 713-977-4620		EP TX000836.0007.15004 ✓		Site/Facility ID # P.O. #		Collected by (print): Scott Duncan +HMI		Rush? (Lab MUST Be Notified) Next Day100% Two Day50% Three Day25%		Date Results Needed Email? ☐ No ☐ Yes FAX? ☐ No ☐ Yes		No. of Cntr		Immediately Iced? N ☐ Y ☒	
Sample ID	Comp/ Grab	Matrix *	Depth	Date	Time	No. of Cntr	DRO 8015	GRO 8015	Volatiles 8260 (Extended List)	Total Metals: As, Ba, Cr, Fe, Pb, Mn, Se	Total Metals: As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V, Hg	Dis Metals: (FFiltered) As, Ba, Cr, Fe, Pb, Mn, Se	Dis Metals: (FFiltered) As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V	Cyanide	Anions: Chloride Fluoride Sulfate	Cations: Ca, K, Na (from Total Metals container)	NO2/NO3	TDS	Remarks/Comments	Sample # (lab only)															
MW-76	G	GW		4/17/15	955	12	✓	✓	✓	✓		✓			✓	✓	✓	✓		-01															
MW-77				4/17/15	1045	12	✓	✓	✓	✓		✓			✓	✓	✓	✓		-02															
MW-78				4/17/15	1000	12	✓	✓	✓	✓		✓			✓	✓	✓	✓		-03															
MW-75				4/17/15	900	12	✓	✓	✓	✓		✓			✓	✓	✓	✓		-04															
MW-83				4/17/15	1145	12	✓	✓	✓	✓		✓			✓	✓	✓	✓		-05															
MW-3				4/17/15	1100	12	✓	✓	✓	✓		✓			✓	✓	✓	✓		-06															
MW-88							✓	✓	✓	✓		✓			✓	✓	✓	✓	su																
MW-22A							✓	✓	✓	✓		✓			✓	✓	✓	✓	su																
MW-22B							✓	✓	✓	✓		✓			✓	✓	✓	✓	su																
MW-10							✓	✓	✓	✓		✓			✓	✓	✓	✓	su																

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____						pH _____ Temp _____ Flow _____ Other _____		Hold # _____	
Remarks: _____						Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____		Condition: _____ (lab use only)	
Relinquished by : (Signature) <u>Scott Ude</u>		Date: <u>4/17/15</u>		Time: <u>1600</u>		Received by: (Signature) <u>[Signature]</u>		Temp: _____ °C <u>20.9</u>	
Relinquished by : (Signature)		Date:		Time:		Received by: (Signature)		COC seal intact: ☒ Y ☐ N ☐ NA	
Relinquished by : (Signature)		Date:		Time:		Received for lab by: (Signature) <u>[Signature]</u>		pH Checked: <u>7.12</u> NCF: _____	

ARCADIS, Inc.

2929 Briarpark Drive,
Suite 300

Houston, TX 77042

Report to: Pam Krueger

Project Navajo Refining Company

Phone: 713-953-4816
Fax: 713-977-4620

Collected by (print):
Mason Bond + HMI

Collected by (signature):
Scott Ude

Immediately Iced?
N ☐ Y ☒

Billing Information:

Email To: pam.krueger@arcadis-us.com,
maisha.turner@arcadis-us.com,
melissa.osborne@arcadis-us.com

City/State Artesia, NM
Collected:

Lab Project # ARCADHTX-
NAVAJO FULL

P.O. #

Date Results Needed

Email? ☐ No ☐ Yes
FAX? ☐ No ☐ Yes

No. of Cntr

EP TX000836.0007.15004

Site/Facility ID #

Rush? (Lab MUST Be Notified)
☐ Next Day100%
☐ Two Day50%
☐ Three Day25%

Analysis / Container / Preservative

DRG 8015

GRO 8015

Volatiles: 8260 (Extended List)

Total Metals: As, Ba, Cr, Fe, Pb, Mn, Se

Total Metals: As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V, Hg

Dis Metals: (FFiltered) As, Ba, Cr, Fe, Pb, Mn, Se

Dis Metals: (FFiltered) As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V

Cyanide

Anions: Chloride Fluoride Sulfate

Cations: Ca, K, Na (from Total Metals container)

NO2/NO3

TDS

Chain of Custody Page 32 of 34

ESC

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YOUR LAB OF CHOICE

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

L# 1760247

Table#

Acctnum: ARCADHTX
Template: T101410

Prelogin:
TSR: Pam Langford
PB: 3-31-15

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntr	DRG 8015	GRO 8015	Volatiles: 8260 (Extended List)	Total Metals: As, Ba, Cr, Fe, Pb, Mn, Se	Total Metals: As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V, Hg	Dis Metals: (FFiltered) As, Ba, Cr, Fe, Pb, Mn, Se	Dis Metals: (FFiltered) As, Ba, Cr, Fe, Pb, Mn, Ni, Se, V	Cyanide	Anions: Chloride Fluoride Sulfate	Cations: Ca, K, Na (from Total Metals container)	NO2/NO3	TDS	Remarks/Comments	Sample # (lab only)	
MW-6A	G	GW					✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	54	
MW-6B							✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	50	
MW-85							✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	NO SAMPLE (LNAPL)	
MW-86							✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	NO SAMPLE (LNAPL)	
MW-120							✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		
MW-121							✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	54	
MW-84				4/16/15	1735	12	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	54	
MW-122							✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		-07
MW-81				4/16/15	1325	12	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	54	
MW-80	↓	↓		4/16/15	1425	12	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		-08 -09

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

Relinquished by: (Signature)
Scott Ude

Relinquished by: (Signature)

Relinquished by: (Signature)

Date: 4/17/15

Time: 1600

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

Samples returned via: ☐ UPS
☒ FedEx ☐ Courier ☐

Temp: °C

20.9

4/12/15

Hold #

Condition: (lab use only)

COC Seal Intact: Y N NA

pH Checked: 4.2

NCE:

ARCADIS, Inc.

2929 Briarpark Drive,
Suite 300
Houston, TX 77042

Billing Information:

Report to: Pam Krueger

Email To: pam.krueger@arcadis-us.com;
maisha.turner@arcadis-us.com;
melissa.osborne@arcadis-us.com

Project Navajo Refining Company

City/State Artesia, NM
Collected:

Phone: 713-953-4816
Fax: 713-977-4620

EP TX000836.0007.15004

Lab Project # ARCADHTX-
NAVAJO FULL

Collected by (print):
Brian Hillin + Hml

Site/Facility ID #

P.O. #

Collected by (signature):
Scott Ude

Rush? (Lab MUST Be
Notified)

Date Results Needed

Immediately Iced?
N ___ Y ☒

Next Day100%
Two Day50%
Three Day25%

Email? ___ No ___ Yes
FAX? ___ No ___ Yes

No.
of
Cntr

Sample ID

Comp/
Grab

Matrix *

Depth

Date

Time

No.
of
Cntr

KWB-P4

G

GW

4/16/15

1325

5

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

✓

~~MW-1R~~

~~MW-1S~~

~~OC-D-1R~~

~~OC-D-2A~~

~~OC-D-3~~

~~OC-D-4~~

~~MW-11A~~

~~MW-11B~~

~~OC-D-5~~

~~OC-D-5~~

~~OC-D-5~~

~~OC-D-5~~

~~OC-D-5~~

~~OC-D-5~~

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~~OC-D-5~~

Analysis / Container / Preservative

Chain of Custody Page 25 of 34

ESC
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YOUR LAB OF CHOICE

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



L# 1760247

Table #

Acctnum: ARCADHTX

Template: T101458

Prelogin:

ISR: Pam Langford

PR: 3/1/15 M2

Shipped Via:

Remarks/Comments Sample # (lab only)

17

SV

SV

SV

SV

SV

SV

SV

SV

SV

SV

SV

SV

SV

SV

SV

SV

SV

SV

SV

SV

SV

SV

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Samples returned via: ☐ UPS

☒ FedEx ☐ Courier ☐ _____

Condition (lab use only)

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: _____ °C

COC Seal Intact: ☒ Y ☐ N ☐ NA

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date:

pH Checked:

NGF

22-712

NGF

1760247

FedEx

TRK# 6361 0184 0723
0221

PRIORITY OVERNIGHT

FedEx

TRK# 6361 0184 0436
0221

PRIORITY OVERNIGHT

37122
TN-US

FedEx

TRK# 6361 0184 6088
0221

SATURDAY 12:00P
PRIORITY OVERNIGHT

SATURDAY 12:00P
PRIORITY OVERNIGHT

FedEx

37122
TN-US

FedEx

TRK# 6361 0184 0697
0221

SATURDAY 12:00P
PRIORITY OVERNIGHT

SATURDAY 12:00P
PRIORITY OVERNIGHT

FedEx

TRK# 6361 0184 4935
0221

SATURDAY 12:00P
PRIORITY OVERNIGHT

FedEx

TRK# 6361 0184 4876
0221

SATURDAY 12:00P
PRIORITY OVERNIGHT

FedEx

TRK# 6361 0184 6066
0221

SATURDAY 12:00P
PRIORITY OVERNIGHT

37122

FedEx

TRK# 6361 0184 0458
0221

SATURDAY 12:00P
PRIORITY OVERNIGHT

SATURDAY 12:00P
PRIORITY OVERNIGHT

FedEx

TRK# 6361 0184 4946
0221

SATURDAY 12:00P
PRIORITY OVERNIGHT

SATURDAY 12:00P
PRIORITY OVERNIGHT

FedEx

TRK# 6361 0184 4957
0221

SATURDAY 12:00P
PRIORITY OVERNIGHT

SATURDAY 12:00P
PRIORITY OVERNIGHT

FedEx

TRK# 6361 0184 0403
0221

SATURDAY 12:00P
PRIORITY OVERNIGHT

SATURDAY 12:00P
PRIORITY OVERNIGHT

FedEx

TRK# 6361 0184 6099
0221

SATURDAY 12:00P
PRIORITY OVERNIGHT

SATURDAY 12:00P
PRIORITY OVERNIGHT

FedEx

TRK# 6361 0184 0701
0221

SATURDAY 12:00P
PRIORITY OVERNIGHT

SATURDAY 12:00P
PRIORITY OVERNIGHT

FedEx

TRK# 6361 0184 0918
0221

SATURDAY 12:00P
PRIORITY OVERNIGHT

SATURDAY 12:00P
PRIORITY OVERNIGHT

FedEx

TRK# 6361 0184 5151
0221

SATURDAY 12:00P
PRIORITY OVERNIGHT

SATURDAY 12:00P
PRIORITY OVERNIGHT

FedEx

TRK# 6361 0184 0399
0221

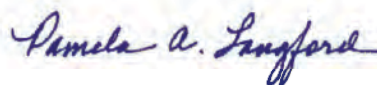
SATURDAY 12:00P
PRIORITY OVERNIGHT

SATURDAY 12:00P
PRIORITY OVERNIGHT

ARCADIS US - TX

Sample Delivery Group: L760254
Samples Received: 04/18/2015
Project Number: TX000836.0007.15004
Description: Navajo Refining Company - Artesia, NM
Site: EP
Report To: Pam Krueger
2929 Briarpark Dr., Suite 300
Houston, TX 77042

Entire Report Reviewed By:



Pam Langford

Pam Langford

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.



¹Cp: Cover Page	1
²Tc: Table of Contents	2
³Ss: Sample Summary	3
⁴Cn: Case Narrative	8
⁵Sr: Sample Results	9
MW-4A L760254-01	9
MW-5A L760254-02	11
MW-5B L760254-03	13
MW-5C L760254-04	15
MW-7A L760254-05	17
MW-7B L760254-06	19
OCD-8A L760254-07	21
OCD-8B L760254-08	24
MW-87 L760254-09	26
MW-18A L760254-10	28
MW-18B L760254-11	30
MW-70 L760254-12	32
MW-124 L760254-13	34
DUP-EP-01 L760254-14	36
DUP-EP-03 L760254-15	38
EB-EP-03 L760254-16	40
TRIPBLANK-EP-02 L760254-17	42
EB-EP-02 L760254-18	43
TRIPBLANK-EP-03 L760254-19	45
⁶Qc: Quality Control Summary	46
Gravimetric Analysis by Method 2540 C-2011	46
Wet Chemistry by Method 353.2	50
Wet Chemistry by Method 9012B	52
Wet Chemistry by Method 9056MOD	54
Mercury by Method 7470A	57
Metals (ICPMS) by Method 6020	58
Volatile Organic Compounds (GC) by Method 8015D/GRO	63
Volatile Organic Compounds (GC/MS) by Method 8260B	65
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	70
⁷Gl: Glossary of Terms	71
⁸Al: Accreditations & Locations	72
⁹Sc: Chain of Custody	73



SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-4A L760254-01 GW

			Collected by SU/BH	Collected date/time 04/17/15 12:10	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG784339	1	04/24/15 18:36	04/27/15 08:57	JG	¹ Cp
Metals (ICPMS) by Method 6020	WG783156	5	04/22/15 11:56	04/28/15 17:56	VSS	² Tc
Metals (ICPMS) by Method 6020	WG783444	1	04/23/15 10:16	04/28/15 02:57	AB	³ Ss
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783365	1	04/20/15 17:32	04/21/15 23:13	JNS	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783223	1	04/25/15 01:41	04/25/15 01:41	MCB	⁴ Cn
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783747	1	04/23/15 23:39	04/23/15 23:39	MCB	
Wet Chemistry by Method 353.2	WG785023	1	05/01/15 10:42	05/01/15 10:42	JAL	⁵ Sr
Wet Chemistry by Method 9056MOD	WG784715	1	04/27/15 21:11	04/27/15 21:11	NJM	
Wet Chemistry by Method 9056MOD	WG784715	100	04/28/15 08:34	04/28/15 08:34	NJM	⁶ Qc

MW-5A L760254-02 GW

			Collected by SU/BH	Collected date/time 04/16/15 09:55	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG783822	1	04/22/15 15:55	04/24/15 08:51	MF	⁷ Gl
Metals (ICPMS) by Method 6020	WG783156	10	04/22/15 11:56	04/28/15 18:07	VSS	⁸ Al
Metals (ICPMS) by Method 6020	WG783444	1	04/23/15 10:16	04/28/15 02:59	AB	⁹ Sc
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783365	1	04/20/15 17:32	04/21/15 23:32	JNS	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783223	1	04/25/15 02:06	04/25/15 02:06	MCB	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783747	1	04/23/15 23:58	04/23/15 23:58	MCB	
Wet Chemistry by Method 353.2	WG785023	1	05/01/15 10:44	05/01/15 10:44	JAL	
Wet Chemistry by Method 9056MOD	WG784715	1	04/27/15 21:25	04/27/15 21:25	NJM	
Wet Chemistry by Method 9056MOD	WG784715	100	04/28/15 08:48	04/28/15 08:48	NJM	

MW-5B L760254-03 GW

			Collected by SU/BH	Collected date/time 04/16/15 12:15	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG783822	1	04/22/15 15:55	04/24/15 08:53	MF	
Metals (ICPMS) by Method 6020	WG783156	5	04/22/15 11:56	04/28/15 18:09	VSS	
Metals (ICPMS) by Method 6020	WG783444	1	04/23/15 10:16	04/28/15 03:02	AB	
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783365	5	04/20/15 17:32	04/23/15 00:50	JNS	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783223	1	04/25/15 02:30	04/25/15 02:30	MCB	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783747	1	04/24/15 00:16	04/24/15 00:16	MCB	
Wet Chemistry by Method 353.2	WG785023	1	05/01/15 10:46	05/01/15 10:46	JAL	
Wet Chemistry by Method 9056MOD	WG784715	1	04/27/15 21:39	04/27/15 21:39	NJM	
Wet Chemistry by Method 9056MOD	WG784715	100	04/28/15 09:01	04/28/15 09:01	NJM	

MW-5C L760254-04 GW

			Collected by SU/BH	Collected date/time 04/16/15 11:00	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG783823	1	04/23/15 12:28	04/25/15 11:34	JG	
Metals (ICPMS) by Method 6020	WG783156	5	04/22/15 11:56	04/28/15 18:12	VSS	
Metals (ICPMS) by Method 6020	WG783444	1	04/23/15 10:16	04/28/15 03:05	AB	
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783365	1	04/20/15 17:32	04/22/15 00:10	JNS	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783223	1	04/25/15 02:55	04/25/15 02:55	MCB	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783747	1	04/24/15 00:34	04/24/15 00:34	MCB	
Wet Chemistry by Method 353.2	WG785023	1	05/01/15 10:47	05/01/15 10:47	JAL	
Wet Chemistry by Method 9056MOD	WG784715	1	04/27/15 21:53	04/27/15 21:53	NJM	
Wet Chemistry by Method 9056MOD	WG784715	100	04/28/15 09:15	04/28/15 09:15	NJM	

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-7A L760254-05 GW

					Collected by SU/BH	Collected date/time 04/16/15 13:20	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst			
Gravimetric Analysis by Method 2540 C-2011	WG783823	1	04/23/15 12:28	04/25/15 11:33	JG			¹ Cp
Metals (ICPMS) by Method 6020	WG783156	1	04/22/15 11:56	04/28/15 19:35	VSS			² Tc
Metals (ICPMS) by Method 6020	WG783156	5	04/22/15 11:56	04/28/15 20:50	VSS			³ Ss
Metals (ICPMS) by Method 6020	WG783444	1	04/23/15 10:16	04/28/15 03:07	AB			
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783365	1	04/20/15 17:32	04/22/15 00:29	JNS			⁴ Cn
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783223	1	04/25/15 03:20	04/25/15 03:20	MCB			
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783747	1	04/24/15 00:53	04/24/15 00:53	MCB			⁵ Sr
Wet Chemistry by Method 353.2	WG785023	1	05/01/15 10:48	05/01/15 10:48	JAL			
Wet Chemistry by Method 9056MOD	WG784715	1	04/27/15 22:07	04/27/15 22:07	NJM			⁶ Qc
Wet Chemistry by Method 9056MOD	WG784715	100	04/28/15 09:29	04/28/15 09:29	NJM			

MW-7B L760254-06 GW

					Collected by SU/BH	Collected date/time 04/16/15 14:30	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst			
Gravimetric Analysis by Method 2540 C-2011	WG783823	1	04/23/15 12:28	04/25/15 11:32	JG			⁷ Gl
Metals (ICPMS) by Method 6020	WG783156	1	04/22/15 11:56	04/28/15 19:38	VSS			⁸ Al
Metals (ICPMS) by Method 6020	WG783156	5	04/22/15 11:56	04/28/15 20:52	VSS			⁹ Sc
Metals (ICPMS) by Method 6020	WG783444	1	04/23/15 10:16	04/28/15 01:59	AB			
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783365	1	04/20/15 17:32	04/22/15 00:47	JNS			
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783223	1	04/25/15 03:45	04/25/15 03:45	MCB			
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783747	1	04/24/15 01:12	04/24/15 01:12	MCB			
Wet Chemistry by Method 353.2	WG785023	1	05/01/15 10:49	05/01/15 10:49	JAL			
Wet Chemistry by Method 9056MOD	WG784715	1	04/27/15 22:21	04/27/15 22:21	NJM			
Wet Chemistry by Method 9056MOD	WG784715	100	04/28/15 09:43	04/28/15 09:43	NJM			

OCD-8A L760254-07 GW

					Collected by SU/BH	Collected date/time 04/16/15 15:25	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst			
Gravimetric Analysis by Method 2540 C-2011	WG783823	1	04/23/15 12:28	04/25/15 11:33	JG			
Mercury by Method 7470A	WG783256	1	04/20/15 11:31	04/20/15 22:01	MPT			
Metals (ICPMS) by Method 6020	WG783156	1	04/22/15 11:56	04/28/15 19:40	VSS			
Metals (ICPMS) by Method 6020	WG783156	10	04/22/15 11:56	04/28/15 20:55	VSS			
Metals (ICPMS) by Method 6020	WG783445	1	04/28/15 09:20	04/28/15 17:07	JD			
Metals (ICPMS) by Method 6020	WG783445	10	04/28/15 09:20	04/28/15 18:08	JD			
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783365	1	04/20/15 17:32	04/22/15 01:06	JNS			
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783223	1	04/25/15 04:10	04/25/15 04:10	MCB			
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783747	1	04/24/15 01:30	04/24/15 01:30	MCB			
Wet Chemistry by Method 353.2	WG785023	1	05/01/15 10:50	05/01/15 10:50	JAL			
Wet Chemistry by Method 9012B	WG785558	1	05/01/15 07:38	05/01/15 10:34	CSU			
Wet Chemistry by Method 9056MOD	WG784715	1	04/27/15 22:35	04/27/15 22:35	NJM			
Wet Chemistry by Method 9056MOD	WG784715	100	04/28/15 09:57	04/28/15 09:57	CSU			

OCD-8B L760254-08 GW

					Collected by SU/BH	Collected date/time 04/16/15 16:15	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst			
Gravimetric Analysis by Method 2540 C-2011	WG783823	1	04/23/15 12:28	04/25/15 11:30	JG			
Metals (ICPMS) by Method 6020	WG783156	1	04/22/15 11:56	04/28/15 19:43	VSS			
Metals (ICPMS) by Method 6020	WG783156	5	04/22/15 11:56	04/28/15 20:57	VSS			
Metals (ICPMS) by Method 6020	WG783445	1	04/28/15 09:20	04/28/15 17:11	JD			
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783365	1	04/20/15 17:32	04/22/15 01:24	JNS			
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783223	1	04/25/15 04:35	04/25/15 04:35	MCB			

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



OCD-8B L760254-08 GW

			Collected by SU/BH	Collected date/time 04/16/15 16:15	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783747	1	04/24/15 01:55	04/24/15 01:55	MCB	¹ Cp
Wet Chemistry by Method 353.2	WG785023	1	05/01/15 10:52	05/01/15 10:52	JAL	² Tc
Wet Chemistry by Method 9056MOD	WG784716	1	04/28/15 20:04	04/28/15 20:04	NJM	³ Ss
Wet Chemistry by Method 9056MOD	WG784716	100	04/29/15 12:04	04/29/15 12:04	NJM	⁴ Cn

MW-87 L760254-09 GW

			Collected by SU/BH	Collected date/time 04/16/15 08:35	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG783823	1	04/23/15 12:28	04/25/15 11:30	JG	⁵ Sr
Metals (ICPMS) by Method 6020	WG783156	1	04/22/15 11:56	04/28/15 19:46	VSS	⁶ Qc
Metals (ICPMS) by Method 6020	WG783156	10	04/22/15 11:56	04/28/15 21:00	VSS	⁷ Gl
Metals (ICPMS) by Method 6020	WG783445	1	04/28/15 09:20	04/28/15 17:13	JD	⁸ Al
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783365	1	04/20/15 17:32	04/22/15 01:43	JNS	⁹ Sc
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783223	1	04/25/15 05:00	04/25/15 05:00	MCB	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783747	1	04/24/15 02:14	04/24/15 02:14	MCB	
Wet Chemistry by Method 353.2	WG785023	1	05/01/15 10:53	05/01/15 10:53	JAL	
Wet Chemistry by Method 9056MOD	WG784716	1	04/28/15 20:19	04/28/15 20:19	NJM	
Wet Chemistry by Method 9056MOD	WG784716	100	04/29/15 12:19	04/29/15 12:19	NJM	

MW-18A L760254-10 GW

			Collected by SU/BH	Collected date/time 04/16/15 09:30	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG783823	1	04/23/15 12:28	04/25/15 11:33	JG	
Mercury by Method 7470A	WG783256	1	04/20/15 11:31	04/20/15 22:03	MPT	
Metals (ICPMS) by Method 6020	WG783156	1	04/22/15 11:56	04/28/15 19:48	VSS	
Metals (ICPMS) by Method 6020	WG783156	20	04/22/15 11:56	04/28/15 21:03	VSS	
Metals (ICPMS) by Method 6020	WG783445	1	04/28/15 09:20	04/28/15 17:16	JD	
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783365	1	04/20/15 17:32	04/22/15 02:01	JNS	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783747	1	04/24/15 02:32	04/24/15 02:32	MCB	
Wet Chemistry by Method 353.2	WG785023	1	05/01/15 10:54	05/01/15 10:54	JAL	
Wet Chemistry by Method 9012B	WG784739	1	04/30/15 08:14	04/30/15 12:58	ASK	
Wet Chemistry by Method 9056MOD	WG784716	1	04/28/15 20:34	04/28/15 20:34	NJM	
Wet Chemistry by Method 9056MOD	WG784716	1000	04/29/15 12:34	04/29/15 12:34	NJM	

MW-18B L760254-11 GW

			Collected by SU/BH	Collected date/time 04/16/15 10:20	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG783823	1	04/23/15 12:28	04/25/15 11:32	JG	
Metals (ICPMS) by Method 6020	WG783156	1	04/22/15 11:56	04/28/15 19:51	VSS	
Metals (ICPMS) by Method 6020	WG783445	1	04/28/15 09:20	04/28/15 17:18	JD	
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783365	1	04/20/15 17:32	04/22/15 03:32	JNS	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783227	1	04/22/15 03:58	04/22/15 03:58	MCB	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783747	1	04/24/15 02:50	04/24/15 02:50	MCB	
Wet Chemistry by Method 353.2	WG785026	1	05/01/15 01:53	05/01/15 01:53	JAL	
Wet Chemistry by Method 9056MOD	WG784716	1	04/28/15 20:49	04/28/15 20:49	NJM	
Wet Chemistry by Method 9056MOD	WG784716	100	04/29/15 12:49	04/29/15 12:49	NJM	

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



MW-70 L760254-12 GW

			Collected by SU/BH	Collected date/time 04/16/15 11:15	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG783823	1	04/23/15 12:28	04/25/15 11:33	JG	¹ Cp
Metals (ICPMS) by Method 6020	WG783156	1	04/22/15 11:56	04/28/15 19:54	VSS	² Tc
Metals (ICPMS) by Method 6020	WG783156	5	04/22/15 11:56	04/28/15 21:05	VSS	³ Ss
Metals (ICPMS) by Method 6020	WG783445	1	04/28/15 09:20	04/28/15 17:20	JD	
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783365	1	04/20/15 17:32	04/22/15 03:50	JNS	⁴ Cn
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783227	1	04/22/15 04:21	04/22/15 04:21	MCB	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783747	1	04/24/15 03:09	04/24/15 03:09	MCB	⁵ Sr
Wet Chemistry by Method 353.2	WG785026	1	05/01/15 01:55	05/01/15 01:55	JAL	
Wet Chemistry by Method 9056MOD	WG784716	1	04/28/15 21:04	04/28/15 21:04	NJM	⁶ Qc
Wet Chemistry by Method 9056MOD	WG784716	100	04/29/15 13:04	04/29/15 13:04	NJM	

MW-124 L760254-13 GW

			Collected by SU/BH	Collected date/time 04/16/15 12:10	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG783823	1	04/23/15 12:28	04/25/15 11:32	JG	⁷ Gl
Metals (ICPMS) by Method 6020	WG783156	1	04/22/15 11:56	04/28/15 19:56	VSS	⁸ Al
Metals (ICPMS) by Method 6020	WG783156	5	04/22/15 11:56	04/28/15 22:21	VSS	
Metals (ICPMS) by Method 6020	WG783445	1	04/28/15 09:20	04/28/15 17:22	JD	⁹ Sc
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783365	1	04/20/15 17:32	04/22/15 04:08	JNS	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783227	1	04/22/15 04:43	04/22/15 04:43	MCB	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783747	1	04/24/15 03:28	04/24/15 03:28	MCB	
Wet Chemistry by Method 353.2	WG785026	1	05/01/15 01:59	05/01/15 01:59	JAL	
Wet Chemistry by Method 9056MOD	WG784716	1	04/28/15 21:19	04/28/15 21:19	NJM	
Wet Chemistry by Method 9056MOD	WG784716	100	04/29/15 13:19	04/29/15 13:19	NJM	

DUP-EP-01 L760254-14 GW

			Collected by SU/BH	Collected date/time 04/16/15 11:00	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG783825	1	04/23/15 13:49	04/25/15 11:19	JG	
Metals (ICPMS) by Method 6020	WG783156	1	04/22/15 11:56	04/28/15 19:59	VSS	
Metals (ICPMS) by Method 6020	WG783156	5	04/22/15 11:56	04/28/15 22:23	VSS	
Metals (ICPMS) by Method 6020	WG783445	1	04/28/15 09:20	04/28/15 17:25	JD	
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783365	1	04/20/15 17:32	04/22/15 04:26	JNS	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783227	1	04/22/15 05:05	04/22/15 05:05	MCB	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783747	1	04/24/15 03:46	04/24/15 03:46	MCB	
Wet Chemistry by Method 353.2	WG785026	1	05/01/15 02:00	05/01/15 02:00	JAL	
Wet Chemistry by Method 9056MOD	WG784716	1	04/28/15 21:34	04/28/15 21:34	NJM	
Wet Chemistry by Method 9056MOD	WG784716	100	04/29/15 13:34	04/29/15 13:34	NJM	

DUP-EP-03 L760254-15 GW

			Collected by SU/BH	Collected date/time 04/17/15 10:00	Received date/time 04/18/15 09:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst	
Gravimetric Analysis by Method 2540 C-2011	WG784339	1	04/24/15 18:36	04/27/15 08:58	JG	
Metals (ICPMS) by Method 6020	WG783156	1	04/22/15 11:56	04/28/15 20:42	VSS	
Metals (ICPMS) by Method 6020	WG783156	5	04/22/15 11:56	04/28/15 22:26	VSS	
Metals (ICPMS) by Method 6020	WG783445	1	04/28/15 09:20	04/28/15 17:27	JD	
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783365	1	04/20/15 17:32	04/22/15 04:44	JNS	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783227	1	04/22/15 05:27	04/22/15 05:27	MCB	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783747	1	04/24/15 04:05	04/24/15 04:05	MCB	
Wet Chemistry by Method 353.2	WG785026	5	05/01/15 02:01	05/01/15 02:01	JAL	
Wet Chemistry by Method 9056MOD	WG784716	1	04/28/15 21:49	04/28/15 21:49	NJM	

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



DUP-EP-03 L760254-15 GW

			Collected by SU/BH	Collected date/time 04/17/15 10:00	Received date/time 04/18/15 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Wet Chemistry by Method 9056MOD	WG784716	100	04/29/15 13:49	04/29/15 13:49	NJM

¹ Cp

² Tc

EB-EP-03 L760254-16 GW

			Collected by SU/BH	Collected date/time 04/16/15 10:15	Received date/time 04/18/15 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Gravimetric Analysis by Method 2540 C-2011	WG783825	1	04/23/15 13:49	04/25/15 11:22	JG
Metals (ICPMS) by Method 6020	WG783156	1	04/22/15 11:56	04/28/15 20:44	VSS
Metals (ICPMS) by Method 6020	WG783445	1	04/28/15 09:20	04/28/15 17:30	JD
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783365	1	04/20/15 17:32	04/22/15 05:02	JNS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783227	1	04/22/15 05:49	04/22/15 05:49	MCB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783747	1	04/24/15 04:23	04/24/15 04:23	MCB
Wet Chemistry by Method 353.2	WG785026	1	05/01/15 02:02	05/01/15 02:02	JAL
Wet Chemistry by Method 9056MOD	WG784716	1	04/28/15 22:04	04/28/15 22:04	NJM

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

TRIPBLANK-EP-02 L760254-17 GW

			Collected by SU/BH	Collected date/time 04/17/15 00:00	Received date/time 04/18/15 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783747	1	04/23/15 22:43	04/23/15 22:43	MCB

⁹ Sc

EB-EP-02 L760254-18 GW

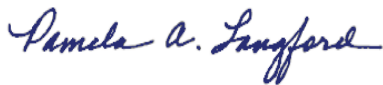
			Collected by SU/BH	Collected date/time 04/16/15 12:30	Received date/time 04/18/15 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Gravimetric Analysis by Method 2540 C-2011	WG783825	1	04/23/15 13:49	04/25/15 11:20	JG
Metals (ICPMS) by Method 6020	WG783156	1	04/22/15 11:56	04/28/15 20:47	VSS
Metals (ICPMS) by Method 6020	WG783445	1	04/28/15 09:20	04/28/15 17:48	JD
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG783365	1	04/20/15 17:32	04/22/15 05:20	JNS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG783227	1	04/22/15 06:11	04/22/15 06:11	MCB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783747	1	04/24/15 04:41	04/24/15 04:41	MCB
Wet Chemistry by Method 353.2	WG785026	1	05/01/15 02:04	05/01/15 02:04	JAL
Wet Chemistry by Method 9056MOD	WG784716	1	04/28/15 22:34	04/28/15 22:34	NJM

TRIPBLANK-EP-03 L760254-19 GW

			Collected by SU/BH	Collected date/time 04/16/15 00:00	Received date/time 04/18/15 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG783747	1	04/23/15 23:02	04/23/15 23:02	MCB



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.



Pam Langford

Pam Langford

Technical Service Representative

Sample Handling and Receiving

Sample quantity was not sufficient to complete analysis per recommended method guidelines for the following samples.

ESC Sample ID	Project Sample ID	Method
L760254-16	EB-EP-03	2540 C-2011
L760254-18	EB-EP-02	2540 C-2011

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	7470000		2800	10000	1	04/27/2015 08:57	WG784339

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		20.0	100	1	05/01/2015 10:42	WG785023

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	1560000		5200	100000	100	04/28/2015 08:34	WG784715
Fluoride	1290		9.90	100	1	04/27/2015 21:11	WG784715
Sulfate	2850000		7700	500000	100	04/28/2015 08:34	WG784715

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	108	J5	1.20	10.0	5	04/28/2015 17:56	WG783156
Arsenic,Dissolved	104		0.250	2.00	1	04/28/2015 02:57	WG783444
Barium	13.9	J	1.80	25.0	5	04/28/2015 17:56	WG783156
Barium,Dissolved	11.3		0.360	5.00	1	04/28/2015 02:57	WG783444
Calcium	660000	V	230	5000	5	04/28/2015 17:56	WG783156
Chromium	5.70	J	2.70	10.0	5	04/28/2015 17:56	WG783156
Chromium,Dissolved	0.987	J	0.540	2.00	1	04/28/2015 02:57	WG783444
Iron	3150		75.0	500	5	04/28/2015 17:56	WG783156
Iron,Dissolved	1890		15.0	100	1	04/28/2015 02:57	WG783444
Lead	U		1.20	10.0	5	04/28/2015 17:56	WG783156
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 02:57	WG783444
Manganese	2960	V	1.20	25.0	5	04/28/2015 17:56	WG783156
Manganese,Dissolved	2730		0.250	5.00	1	04/28/2015 02:57	WG783444
Potassium	4120	J	180	5000	5	04/28/2015 17:56	WG783156
Selenium	U		1.90	10.0	5	04/28/2015 17:56	WG783156
Selenium,Dissolved	0.614	J	0.380	2.00	1	04/28/2015 02:57	WG783444
Sodium	1080000	V	550	5000	5	04/28/2015 17:56	WG783156

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	130		31.0	100	1	04/25/2015 01:41	WG783223
(S) a,a,a-Trifluorotoluene(FID)	95.8			62.0-128		04/25/2015 01:41	WG783223

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/23/2015 23:39	WG783747
Benzene	U		0.330	1.00	1	04/23/2015 23:39	WG783747
Bromodichloromethane	U		0.380	1.00	1	04/23/2015 23:39	WG783747
Bromoform	U		0.470	1.00	1	04/23/2015 23:39	WG783747
Bromomethane	U		0.870	5.00	1	04/23/2015 23:39	WG783747
n-Butylbenzene	U		0.360	1.00	1	04/23/2015 23:39	WG783747
sec-Butylbenzene	U		0.360	1.00	1	04/23/2015 23:39	WG783747
Carbon disulfide	U		0.280	1.00	1	04/23/2015 23:39	WG783747
Carbon tetrachloride	U		0.380	1.00	1	04/23/2015 23:39	WG783747
Chlorobenzene	U		0.350	1.00	1	04/23/2015 23:39	WG783747



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/23/2015 23:39	WG783747
Chloroethane	U		0.450	5.00	1	04/23/2015 23:39	WG783747
Chloroform	U		0.320	5.00	1	04/23/2015 23:39	WG783747
Chloromethane	U		0.280	2.50	1	04/23/2015 23:39	WG783747
1,2-Dibromoethane	U		0.380	1.00	1	04/23/2015 23:39	WG783747
1,1-Dichloroethane	U		0.260	1.00	1	04/23/2015 23:39	WG783747
1,2-Dichloroethane	U		0.360	1.00	1	04/23/2015 23:39	WG783747
1,1-Dichloroethene	U		0.400	1.00	1	04/23/2015 23:39	WG783747
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/23/2015 23:39	WG783747
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/23/2015 23:39	WG783747
1,2-Dichloropropane	U		0.310	1.00	1	04/23/2015 23:39	WG783747
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/23/2015 23:39	WG783747
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/23/2015 23:39	WG783747
Ethylbenzene	U		0.380	1.00	1	04/23/2015 23:39	WG783747
Isopropylbenzene	1.59		0.330	1.00	1	04/23/2015 23:39	WG783747
p-Isopropyltoluene	U		0.350	1.00	1	04/23/2015 23:39	WG783747
2-Butanone (MEK)	U		3.90	10.0	1	04/23/2015 23:39	WG783747
2-Hexanone	U		3.80	10.0	1	04/23/2015 23:39	WG783747
Methylene Chloride	U		1.00	5.00	1	04/23/2015 23:39	WG783747
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/23/2015 23:39	WG783747
Methyl tert-butyl ether	0.461	U	0.370	1.00	1	04/23/2015 23:39	WG783747
Naphthalene	U		1.00	5.00	1	04/23/2015 23:39	WG783747
n-Propylbenzene	U		0.350	1.00	1	04/23/2015 23:39	WG783747
Styrene	U		0.310	1.00	1	04/23/2015 23:39	WG783747
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/23/2015 23:39	WG783747
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/23/2015 23:39	WG783747
Tetrachloroethene	U		0.370	1.00	1	04/23/2015 23:39	WG783747
Toluene	U		0.780	5.00	1	04/23/2015 23:39	WG783747
1,1,1-Trichloroethane	U		0.319	1.00	1	04/23/2015 23:39	WG783747
1,1,2-Trichloroethane	U		0.380	1.00	1	04/23/2015 23:39	WG783747
Trichloroethene	U		0.400	1.00	1	04/23/2015 23:39	WG783747
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/23/2015 23:39	WG783747
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/23/2015 23:39	WG783747
Vinyl chloride	U		0.260	1.00	1	04/23/2015 23:39	WG783747
o-Xylene	0.658	U	0.340	1.00	1	04/23/2015 23:39	WG783747
m&p-Xylene	2.27		0.720	1.00	1	04/23/2015 23:39	WG783747
Xylenes, Total	2.93	U	1.10	3.00	1	04/23/2015 23:39	WG783747
(S) Toluene-d8	107			88.5-111		04/23/2015 23:39	WG783747
(S) Dibromofluoromethane	105			78.3-121		04/23/2015 23:39	WG783747
(S) 4-Bromofluorobenzene	105			71.0-126		04/23/2015 23:39	WG783747

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	5600		25.0	100	1	04/21/2015 23:13	WG783365
(S) o-Terphenyl	112			50.0-150		04/21/2015 23:13	WG783365



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	17000000		2800	10000	1	04/24/2015 08:51	WG783822

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		20.0	100	1	05/01/2015 10:44	WG785023

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	4100000		5200	100000	100	04/28/2015 08:48	WG784715
Fluoride	1530		9.90	100	1	04/27/2015 21:25	WG784715
Sulfate	9370000		7700	500000	100	04/28/2015 08:48	WG784715

Metals (ICPMS) by Method 6020

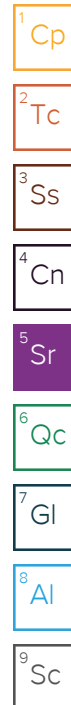
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	93.8		2.50	20.0	10	04/28/2015 18:07	WG783156
Arsenic,Dissolved	84.8		0.250	2.00	1	04/28/2015 02:59	WG783444
Barium	12.8	U	3.60	50.0	10	04/28/2015 18:07	WG783156
Barium,Dissolved	10.7		0.360	5.00	1	04/28/2015 02:59	WG783444
Calcium	519000		460	10000	10	04/28/2015 18:07	WG783156
Chromium	U		5.40	20.0	10	04/28/2015 18:07	WG783156
Chromium,Dissolved	0.957	U	0.540	2.00	1	04/28/2015 02:59	WG783444
Iron	5620		150	1000	10	04/28/2015 18:07	WG783156
Iron,Dissolved	4500		15.0	100	1	04/28/2015 02:59	WG783444
Lead	U		2.40	20.0	10	04/28/2015 18:07	WG783156
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 02:59	WG783444
Manganese	1840		2.50	50.0	10	04/28/2015 18:07	WG783156
Manganese,Dissolved	1580		0.250	5.00	1	04/28/2015 02:59	WG783444
Potassium	6150	U	370	10000	10	04/28/2015 18:07	WG783156
Selenium	U		3.80	20.0	10	04/28/2015 18:07	WG783156
Selenium,Dissolved	0.860	U	0.380	2.00	1	04/28/2015 02:59	WG783444
Sodium	4220000		1100	10000	10	04/28/2015 18:07	WG783156

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	1190		31.0	100	1	04/25/2015 02:06	WG783223
(S) a,a,a-Trifluorotoluene(FID)	95.6			62.0-128		04/25/2015 02:06	WG783223

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/23/2015 23:58	WG783747
Benzene	U		0.330	1.00	1	04/23/2015 23:58	WG783747
Bromodichloromethane	U		0.380	1.00	1	04/23/2015 23:58	WG783747
Bromoform	U		0.470	1.00	1	04/23/2015 23:58	WG783747
Bromomethane	U		0.870	5.00	1	04/23/2015 23:58	WG783747
n-Butylbenzene	U		0.360	1.00	1	04/23/2015 23:58	WG783747
sec-Butylbenzene	U		0.360	1.00	1	04/23/2015 23:58	WG783747
Carbon disulfide	U		0.280	1.00	1	04/23/2015 23:58	WG783747
Carbon tetrachloride	U		0.380	1.00	1	04/23/2015 23:58	WG783747
Chlorobenzene	U		0.350	1.00	1	04/23/2015 23:58	WG783747





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/23/2015 23:58	WG783747
Chloroethane	U		0.450	5.00	1	04/23/2015 23:58	WG783747
Chloroform	U		0.320	5.00	1	04/23/2015 23:58	WG783747
Chloromethane	U		0.280	2.50	1	04/23/2015 23:58	WG783747
1,2-Dibromoethane	U		0.380	1.00	1	04/23/2015 23:58	WG783747
1,1-Dichloroethane	U		0.260	1.00	1	04/23/2015 23:58	WG783747
1,2-Dichloroethane	U		0.360	1.00	1	04/23/2015 23:58	WG783747
1,1-Dichloroethene	U		0.400	1.00	1	04/23/2015 23:58	WG783747
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/23/2015 23:58	WG783747
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/23/2015 23:58	WG783747
1,2-Dichloropropane	U		0.310	1.00	1	04/23/2015 23:58	WG783747
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/23/2015 23:58	WG783747
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/23/2015 23:58	WG783747
Ethylbenzene	U		0.380	1.00	1	04/23/2015 23:58	WG783747
Isopropylbenzene	U		0.330	1.00	1	04/23/2015 23:58	WG783747
p-Isopropyltoluene	U		0.350	1.00	1	04/23/2015 23:58	WG783747
2-Butanone (MEK)	U		3.90	10.0	1	04/23/2015 23:58	WG783747
2-Hexanone	U		3.80	10.0	1	04/23/2015 23:58	WG783747
Methylene Chloride	U		1.00	5.00	1	04/23/2015 23:58	WG783747
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/23/2015 23:58	WG783747
Methyl tert-butyl ether	1.38		0.370	1.00	1	04/23/2015 23:58	WG783747
Naphthalene	U		1.00	5.00	1	04/23/2015 23:58	WG783747
n-Propylbenzene	U		0.350	1.00	1	04/23/2015 23:58	WG783747
Styrene	U		0.310	1.00	1	04/23/2015 23:58	WG783747
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/23/2015 23:58	WG783747
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/23/2015 23:58	WG783747
Tetrachloroethene	U		0.370	1.00	1	04/23/2015 23:58	WG783747
Toluene	U		0.780	5.00	1	04/23/2015 23:58	WG783747
1,1,1-Trichloroethane	U		0.319	1.00	1	04/23/2015 23:58	WG783747
1,1,2-Trichloroethane	U		0.380	1.00	1	04/23/2015 23:58	WG783747
Trichloroethene	U		0.400	1.00	1	04/23/2015 23:58	WG783747
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/23/2015 23:58	WG783747
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/23/2015 23:58	WG783747
Vinyl chloride	U		0.260	1.00	1	04/23/2015 23:58	WG783747
o-Xylene	U		0.340	1.00	1	04/23/2015 23:58	WG783747
m&p-Xylene	U		0.720	1.00	1	04/23/2015 23:58	WG783747
Xylenes, Total	U		1.10	3.00	1	04/23/2015 23:58	WG783747
(S) Toluene-d8	106			88.5-111		04/23/2015 23:58	WG783747
(S) Dibromofluoromethane	107			78.3-121		04/23/2015 23:58	WG783747
(S) 4-Bromofluorobenzene	111			71.0-126		04/23/2015 23:58	WG783747

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	4300		25.0	100	1	04/21/2015 23:32	WG783365
(S) o-Terphenyl	101			50.0-150		04/21/2015 23:32	WG783365



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	5980000		2800	10000	1	04/24/2015 08:53	WG783822

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		20.0	100	1	05/01/2015 10:46	WG785023

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	1590000		5200	100000	100	04/28/2015 09:01	WG784715
Fluoride	1410		9.90	100	1	04/27/2015 21:39	WG784715
Sulfate	3510000		7700	500000	100	04/28/2015 09:01	WG784715

Metals (ICPMS) by Method 6020

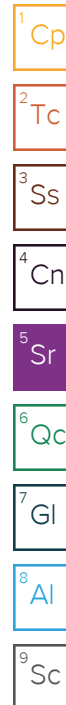
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	201		1.20	10.0	5	04/28/2015 18:09	WG783156
Arsenic,Dissolved	198		0.250	2.00	1	04/28/2015 03:02	WG783444
Barium	11.2	U	1.80	25.0	5	04/28/2015 18:09	WG783156
Barium,Dissolved	10.4		0.360	5.00	1	04/28/2015 03:02	WG783444
Calcium	482000		230	5000	5	04/28/2015 18:09	WG783156
Chromium	2.77	U	2.70	10.0	5	04/28/2015 18:09	WG783156
Chromium,Dissolved	0.978	U	0.540	2.00	1	04/28/2015 03:02	WG783444
Iron	6110		75.0	500	5	04/28/2015 18:09	WG783156
Iron,Dissolved	4710		15.0	100	1	04/28/2015 03:02	WG783444
Lead	U		1.20	10.0	5	04/28/2015 18:09	WG783156
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 03:02	WG783444
Manganese	3870		1.20	25.0	5	04/28/2015 18:09	WG783156
Manganese,Dissolved	3490		0.250	5.00	1	04/28/2015 03:02	WG783444
Potassium	9010		180	5000	5	04/28/2015 18:09	WG783156
Selenium	1.97	U	1.90	10.0	5	04/28/2015 18:09	WG783156
Selenium,Dissolved	1.97	U	0.380	2.00	1	04/28/2015 03:02	WG783444
Sodium	1580000		550	5000	5	04/28/2015 18:09	WG783156

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	1140		31.0	100	1	04/25/2015 02:30	WG783223
(S) a,a,a-Trifluorotoluene(FID)	96.2			62.0-128		04/25/2015 02:30	WG783223

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/24/2015 00:16	WG783747
Benzene	U		0.330	1.00	1	04/24/2015 00:16	WG783747
Bromodichloromethane	U		0.380	1.00	1	04/24/2015 00:16	WG783747
Bromoform	U		0.470	1.00	1	04/24/2015 00:16	WG783747
Bromomethane	U		0.870	5.00	1	04/24/2015 00:16	WG783747
n-Butylbenzene	U		0.360	1.00	1	04/24/2015 00:16	WG783747
sec-Butylbenzene	U		0.360	1.00	1	04/24/2015 00:16	WG783747
Carbon disulfide	U		0.280	1.00	1	04/24/2015 00:16	WG783747
Carbon tetrachloride	U		0.380	1.00	1	04/24/2015 00:16	WG783747
Chlorobenzene	U		0.350	1.00	1	04/24/2015 00:16	WG783747





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/24/2015 00:16	WG783747
Chloroethane	U		0.450	5.00	1	04/24/2015 00:16	WG783747
Chloroform	U		0.320	5.00	1	04/24/2015 00:16	WG783747
Chloromethane	U		0.280	2.50	1	04/24/2015 00:16	WG783747
1,2-Dibromoethane	U		0.380	1.00	1	04/24/2015 00:16	WG783747
1,1-Dichloroethane	U		0.260	1.00	1	04/24/2015 00:16	WG783747
1,2-Dichloroethane	U		0.360	1.00	1	04/24/2015 00:16	WG783747
1,1-Dichloroethene	U		0.400	1.00	1	04/24/2015 00:16	WG783747
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/24/2015 00:16	WG783747
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/24/2015 00:16	WG783747
1,2-Dichloropropane	U		0.310	1.00	1	04/24/2015 00:16	WG783747
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 00:16	WG783747
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 00:16	WG783747
Ethylbenzene	U		0.380	1.00	1	04/24/2015 00:16	WG783747
Isopropylbenzene	U		0.330	1.00	1	04/24/2015 00:16	WG783747
p-Isopropyltoluene	U		0.350	1.00	1	04/24/2015 00:16	WG783747
2-Butanone (MEK)	U		3.90	10.0	1	04/24/2015 00:16	WG783747
2-Hexanone	U		3.80	10.0	1	04/24/2015 00:16	WG783747
Methylene Chloride	U		1.00	5.00	1	04/24/2015 00:16	WG783747
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/24/2015 00:16	WG783747
Methyl tert-butyl ether	1.48		0.370	1.00	1	04/24/2015 00:16	WG783747
Naphthalene	U		1.00	5.00	1	04/24/2015 00:16	WG783747
n-Propylbenzene	U		0.350	1.00	1	04/24/2015 00:16	WG783747
Styrene	U		0.310	1.00	1	04/24/2015 00:16	WG783747
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/24/2015 00:16	WG783747
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/24/2015 00:16	WG783747
Tetrachloroethene	U		0.370	1.00	1	04/24/2015 00:16	WG783747
Toluene	U		0.780	5.00	1	04/24/2015 00:16	WG783747
1,1,1-Trichloroethane	U		0.319	1.00	1	04/24/2015 00:16	WG783747
1,1,2-Trichloroethane	U		0.380	1.00	1	04/24/2015 00:16	WG783747
Trichloroethene	U		0.400	1.00	1	04/24/2015 00:16	WG783747
1,2,4-Trimethylbenzene	0.976	J	0.370	1.00	1	04/24/2015 00:16	WG783747
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/24/2015 00:16	WG783747
Vinyl chloride	U		0.260	1.00	1	04/24/2015 00:16	WG783747
o-Xylene	U		0.340	1.00	1	04/24/2015 00:16	WG783747
m&p-Xylene	U		0.720	1.00	1	04/24/2015 00:16	WG783747
Xylenes, Total	U		1.10	3.00	1	04/24/2015 00:16	WG783747
(S) Toluene-d8	105			88.5-111		04/24/2015 00:16	WG783747
(S) Dibromofluoromethane	106			78.3-121		04/24/2015 00:16	WG783747
(S) 4-Bromofluorobenzene	108			71.0-126		04/24/2015 00:16	WG783747

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	11000		120	500	5	04/23/2015 00:50	WG783365
(S) o-Terphenyl	104			50.0-150		04/23/2015 00:50	WG783365



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	3290000		2800	10000	1	04/25/2015 11:34	WG783823

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		20.0	100	1	05/01/2015 10:47	WG785023

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	585000		5200	100000	100	04/28/2015 09:15	WG784715
Fluoride	910		9.90	100	1	04/27/2015 21:53	WG784715
Sulfate	2020000		7700	500000	100	04/28/2015 09:15	WG784715

Metals (ICPMS) by Method 6020

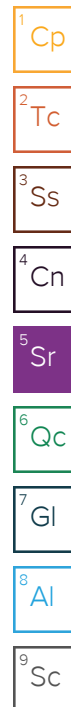
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	14.5		1.20	10.0	5	04/28/2015 18:12	WG783156
Arsenic,Dissolved	12.4		0.250	2.00	1	04/28/2015 03:05	WG783444
Barium	20.0	U	1.80	25.0	5	04/28/2015 18:12	WG783156
Barium,Dissolved	17.2		0.360	5.00	1	04/28/2015 03:05	WG783444
Calcium	427000		230	5000	5	04/28/2015 18:12	WG783156
Chromium	U		2.70	10.0	5	04/28/2015 18:12	WG783156
Chromium,Dissolved	1.15	U	0.540	2.00	1	04/28/2015 03:05	WG783444
Iron	1150		75.0	500	5	04/28/2015 18:12	WG783156
Iron,Dissolved	770		15.0	100	1	04/28/2015 03:05	WG783444
Lead	U		1.20	10.0	5	04/28/2015 18:12	WG783156
Lead,Dissolved	0.449	U	0.240	2.00	1	04/28/2015 03:05	WG783444
Manganese	975		1.20	25.0	5	04/28/2015 18:12	WG783156
Manganese,Dissolved	687		0.250	5.00	1	04/28/2015 03:05	WG783444
Potassium	3970	U	180	5000	5	04/28/2015 18:12	WG783156
Selenium	U		1.90	10.0	5	04/28/2015 18:12	WG783156
Selenium,Dissolved	U		0.380	2.00	1	04/28/2015 03:05	WG783444
Sodium	485000		550	5000	5	04/28/2015 18:12	WG783156

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	U		31.0	100	1	04/25/2015 02:55	WG783223
(S) a,a,a-Trifluorotoluene(FID)	95.8			62.0-128		04/25/2015 02:55	WG783223

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/24/2015 00:34	WG783747
Benzene	U		0.330	1.00	1	04/24/2015 00:34	WG783747
Bromodichloromethane	U		0.380	1.00	1	04/24/2015 00:34	WG783747
Bromoform	U		0.470	1.00	1	04/24/2015 00:34	WG783747
Bromomethane	U		0.870	5.00	1	04/24/2015 00:34	WG783747
n-Butylbenzene	U		0.360	1.00	1	04/24/2015 00:34	WG783747
sec-Butylbenzene	U		0.360	1.00	1	04/24/2015 00:34	WG783747
Carbon disulfide	U		0.280	1.00	1	04/24/2015 00:34	WG783747
Carbon tetrachloride	U		0.380	1.00	1	04/24/2015 00:34	WG783747
Chlorobenzene	U		0.350	1.00	1	04/24/2015 00:34	WG783747





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/24/2015 00:34	WG783747
Chloroethane	U		0.450	5.00	1	04/24/2015 00:34	WG783747
Chloroform	U		0.320	5.00	1	04/24/2015 00:34	WG783747
Chloromethane	U		0.280	2.50	1	04/24/2015 00:34	WG783747
1,2-Dibromoethane	U		0.380	1.00	1	04/24/2015 00:34	WG783747
1,1-Dichloroethane	U		0.260	1.00	1	04/24/2015 00:34	WG783747
1,2-Dichloroethane	U		0.360	1.00	1	04/24/2015 00:34	WG783747
1,1-Dichloroethene	U		0.400	1.00	1	04/24/2015 00:34	WG783747
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/24/2015 00:34	WG783747
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/24/2015 00:34	WG783747
1,2-Dichloropropane	U		0.310	1.00	1	04/24/2015 00:34	WG783747
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 00:34	WG783747
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 00:34	WG783747
Ethylbenzene	U		0.380	1.00	1	04/24/2015 00:34	WG783747
Isopropylbenzene	U		0.330	1.00	1	04/24/2015 00:34	WG783747
p-Isopropyltoluene	U		0.350	1.00	1	04/24/2015 00:34	WG783747
2-Butanone (MEK)	U		3.90	10.0	1	04/24/2015 00:34	WG783747
2-Hexanone	U		3.80	10.0	1	04/24/2015 00:34	WG783747
Methylene Chloride	U		1.00	5.00	1	04/24/2015 00:34	WG783747
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/24/2015 00:34	WG783747
Methyl tert-butyl ether	0.507	U	0.370	1.00	1	04/24/2015 00:34	WG783747
Naphthalene	U		1.00	5.00	1	04/24/2015 00:34	WG783747
n-Propylbenzene	U		0.350	1.00	1	04/24/2015 00:34	WG783747
Styrene	U		0.310	1.00	1	04/24/2015 00:34	WG783747
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/24/2015 00:34	WG783747
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/24/2015 00:34	WG783747
Tetrachloroethene	U		0.370	1.00	1	04/24/2015 00:34	WG783747
Toluene	U		0.780	5.00	1	04/24/2015 00:34	WG783747
1,1,1-Trichloroethane	U		0.319	1.00	1	04/24/2015 00:34	WG783747
1,1,2-Trichloroethane	U		0.380	1.00	1	04/24/2015 00:34	WG783747
Trichloroethene	U		0.400	1.00	1	04/24/2015 00:34	WG783747
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/24/2015 00:34	WG783747
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/24/2015 00:34	WG783747
Vinyl chloride	U		0.260	1.00	1	04/24/2015 00:34	WG783747
o-Xylene	U		0.340	1.00	1	04/24/2015 00:34	WG783747
m&p-Xylene	U		0.720	1.00	1	04/24/2015 00:34	WG783747
Xylenes, Total	U		1.10	3.00	1	04/24/2015 00:34	WG783747
(S) Toluene-d8	104			88.5-111		04/24/2015 00:34	WG783747
(S) Dibromofluoromethane	103			78.3-121		04/24/2015 00:34	WG783747
(S) 4-Bromofluorobenzene	96.3			71.0-126		04/24/2015 00:34	WG783747

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	580		25.0	100	1	04/22/2015 00:10	WG783365
(S) o-Terphenyl	108			50.0-150		04/22/2015 00:10	WG783365



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	9840000		2800	10000	1	04/25/2015 11:33	WG783823

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		20.0	100	1	05/01/2015 10:48	WG785023

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	3080000		5200	100000	100	04/28/2015 09:29	WG784715
Fluoride	693		9.90	100	1	04/27/2015 22:07	WG784715
Sulfate	3620000		7700	500000	100	04/28/2015 09:29	WG784715

Metals (ICPMS) by Method 6020

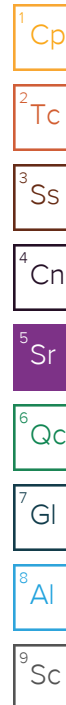
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	19.0		0.250	2.00	1	04/28/2015 19:35	WG783156
Arsenic,Dissolved	17.2		0.250	2.00	1	04/28/2015 03:07	WG783444
Barium	14.9		0.360	5.00	1	04/28/2015 19:35	WG783156
Barium,Dissolved	14.8		0.360	5.00	1	04/28/2015 03:07	WG783444
Calcium	609000		46.0	1000	1	04/28/2015 19:35	WG783156
Chromium	0.895	U	0.540	2.00	1	04/28/2015 19:35	WG783156
Chromium,Dissolved	0.890	U	0.540	2.00	1	04/28/2015 03:07	WG783444
Iron	984		15.0	100	1	04/28/2015 19:35	WG783156
Iron,Dissolved	676		15.0	100	1	04/28/2015 03:07	WG783444
Lead	U		0.240	2.00	1	04/28/2015 19:35	WG783156
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 03:07	WG783444
Manganese	1110		0.250	5.00	1	04/28/2015 19:35	WG783156
Manganese,Dissolved	994		0.250	5.00	1	04/28/2015 03:07	WG783444
Potassium	4180		37.0	1000	1	04/28/2015 19:35	WG783156
Selenium	0.620	U	0.380	2.00	1	04/28/2015 19:35	WG783156
Selenium,Dissolved	0.532	U	0.380	2.00	1	04/28/2015 03:07	WG783444
Sodium	2060000		550	5000	5	04/28/2015 20:50	WG783156

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	201		31.0	100	1	04/25/2015 03:20	WG783223
(S) a,a,a-Trifluorotoluene(FID)	95.7			62.0-128		04/25/2015 03:20	WG783223

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/24/2015 00:53	WG783747
Benzene	U		0.330	1.00	1	04/24/2015 00:53	WG783747
Bromodichloromethane	U		0.380	1.00	1	04/24/2015 00:53	WG783747
Bromoform	U		0.470	1.00	1	04/24/2015 00:53	WG783747
Bromomethane	U		0.870	5.00	1	04/24/2015 00:53	WG783747
n-Butylbenzene	U		0.360	1.00	1	04/24/2015 00:53	WG783747
sec-Butylbenzene	U		0.360	1.00	1	04/24/2015 00:53	WG783747
Carbon disulfide	U		0.280	1.00	1	04/24/2015 00:53	WG783747
Carbon tetrachloride	U		0.380	1.00	1	04/24/2015 00:53	WG783747
Chlorobenzene	U		0.350	1.00	1	04/24/2015 00:53	WG783747





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/24/2015 00:53	WG783747
Chloroethane	U		0.450	5.00	1	04/24/2015 00:53	WG783747
Chloroform	U		0.320	5.00	1	04/24/2015 00:53	WG783747
Chloromethane	U		0.280	2.50	1	04/24/2015 00:53	WG783747
1,2-Dibromoethane	U		0.380	1.00	1	04/24/2015 00:53	WG783747
1,1-Dichloroethane	U		0.260	1.00	1	04/24/2015 00:53	WG783747
1,2-Dichloroethane	U		0.360	1.00	1	04/24/2015 00:53	WG783747
1,1-Dichloroethene	U		0.400	1.00	1	04/24/2015 00:53	WG783747
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/24/2015 00:53	WG783747
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/24/2015 00:53	WG783747
1,2-Dichloropropane	U		0.310	1.00	1	04/24/2015 00:53	WG783747
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 00:53	WG783747
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 00:53	WG783747
Ethylbenzene	U		0.380	1.00	1	04/24/2015 00:53	WG783747
Isopropylbenzene	U		0.330	1.00	1	04/24/2015 00:53	WG783747
p-Isopropyltoluene	U		0.350	1.00	1	04/24/2015 00:53	WG783747
2-Butanone (MEK)	U		3.90	10.0	1	04/24/2015 00:53	WG783747
2-Hexanone	U		3.80	10.0	1	04/24/2015 00:53	WG783747
Methylene Chloride	U		1.00	5.00	1	04/24/2015 00:53	WG783747
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/24/2015 00:53	WG783747
Methyl tert-butyl ether	1.94		0.370	1.00	1	04/24/2015 00:53	WG783747
Naphthalene	U		1.00	5.00	1	04/24/2015 00:53	WG783747
n-Propylbenzene	U		0.350	1.00	1	04/24/2015 00:53	WG783747
Styrene	U		0.310	1.00	1	04/24/2015 00:53	WG783747
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/24/2015 00:53	WG783747
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/24/2015 00:53	WG783747
Tetrachloroethene	U		0.370	1.00	1	04/24/2015 00:53	WG783747
Toluene	U		0.780	5.00	1	04/24/2015 00:53	WG783747
1,1,1-Trichloroethane	U		0.319	1.00	1	04/24/2015 00:53	WG783747
1,1,2-Trichloroethane	U		0.380	1.00	1	04/24/2015 00:53	WG783747
Trichloroethene	U		0.400	1.00	1	04/24/2015 00:53	WG783747
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/24/2015 00:53	WG783747
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/24/2015 00:53	WG783747
Vinyl chloride	U		0.260	1.00	1	04/24/2015 00:53	WG783747
o-Xylene	U		0.340	1.00	1	04/24/2015 00:53	WG783747
m&p-Xylene	U		0.720	1.00	1	04/24/2015 00:53	WG783747
Xylenes, Total	U		1.10	3.00	1	04/24/2015 00:53	WG783747
(S) Toluene-d8	106			88.5-111		04/24/2015 00:53	WG783747
(S) Dibromofluoromethane	105			78.3-121		04/24/2015 00:53	WG783747
(S) 4-Bromofluorobenzene	107			71.0-126		04/24/2015 00:53	WG783747

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1200		25.0	100	1	04/22/2015 00:29	WG783365
(S) o-Terphenyl	107			50.0-150		04/22/2015 00:29	WG783365



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	4640000		2800	10000	1	04/25/2015 11:32	WG783823

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		20.0	100	1	05/01/2015 10:49	WG785023

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	1060000		5200	100000	100	04/28/2015 09:43	WG784715
Fluoride	795		9.90	100	1	04/27/2015 22:21	WG784715
Sulfate	2200000		7700	500000	100	04/28/2015 09:43	WG784715

Metals (ICPMS) by Method 6020

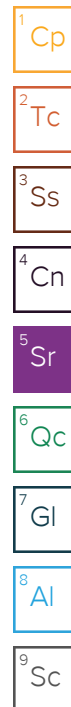
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	5.88		0.250	2.00	1	04/28/2015 19:38	WG783156
Arsenic,Dissolved	5.29		0.250	2.00	1	04/28/2015 01:59	WG783444
Barium	11.1		0.360	5.00	1	04/28/2015 19:38	WG783156
Barium,Dissolved	11.0		0.360	5.00	1	04/28/2015 01:59	WG783444
Calcium	556000		46.0	1000	1	04/28/2015 19:38	WG783156
Chromium	0.702	J	0.540	2.00	1	04/28/2015 19:38	WG783156
Chromium,Dissolved	U		0.540	2.00	1	04/28/2015 01:59	WG783444
Iron	188		15.0	100	1	04/28/2015 19:38	WG783156
Iron,Dissolved	87.9	J	15.0	100	1	04/28/2015 01:59	WG783444
Lead	U		0.240	2.00	1	04/28/2015 19:38	WG783156
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 01:59	WG783444
Manganese	580		0.250	5.00	1	04/28/2015 19:38	WG783156
Manganese,Dissolved	541	Q1 V	0.250	5.00	1	04/28/2015 01:59	WG783444
Potassium	6270		37.0	1000	1	04/28/2015 19:38	WG783156
Selenium	U		0.380	2.00	1	04/28/2015 19:38	WG783156
Selenium,Dissolved	U		0.380	2.00	1	04/28/2015 01:59	WG783444
Sodium	672000		550	5000	5	04/28/2015 20:52	WG783156

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	U		31.0	100	1	04/25/2015 03:45	WG783223
(S) a,a,a-Trifluorotoluene(FID)	95.3			62.0-128		04/25/2015 03:45	WG783223

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/24/2015 01:12	WG783747
Benzene	U		0.330	1.00	1	04/24/2015 01:12	WG783747
Bromodichloromethane	U		0.380	1.00	1	04/24/2015 01:12	WG783747
Bromoform	U		0.470	1.00	1	04/24/2015 01:12	WG783747
Bromomethane	U		0.870	5.00	1	04/24/2015 01:12	WG783747
n-Butylbenzene	U		0.360	1.00	1	04/24/2015 01:12	WG783747
sec-Butylbenzene	U		0.360	1.00	1	04/24/2015 01:12	WG783747
Carbon disulfide	U		0.280	1.00	1	04/24/2015 01:12	WG783747
Carbon tetrachloride	U		0.380	1.00	1	04/24/2015 01:12	WG783747
Chlorobenzene	U		0.350	1.00	1	04/24/2015 01:12	WG783747





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/24/2015 01:12	WG783747
Chloroethane	U		0.450	5.00	1	04/24/2015 01:12	WG783747
Chloroform	U		0.320	5.00	1	04/24/2015 01:12	WG783747
Chloromethane	U		0.280	2.50	1	04/24/2015 01:12	WG783747
1,2-Dibromoethane	U		0.380	1.00	1	04/24/2015 01:12	WG783747
1,1-Dichloroethane	U		0.260	1.00	1	04/24/2015 01:12	WG783747
1,2-Dichloroethane	U		0.360	1.00	1	04/24/2015 01:12	WG783747
1,1-Dichloroethene	U		0.400	1.00	1	04/24/2015 01:12	WG783747
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/24/2015 01:12	WG783747
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/24/2015 01:12	WG783747
1,2-Dichloropropane	U		0.310	1.00	1	04/24/2015 01:12	WG783747
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 01:12	WG783747
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 01:12	WG783747
Ethylbenzene	U		0.380	1.00	1	04/24/2015 01:12	WG783747
Isopropylbenzene	U		0.330	1.00	1	04/24/2015 01:12	WG783747
p-Isopropyltoluene	U		0.350	1.00	1	04/24/2015 01:12	WG783747
2-Butanone (MEK)	U		3.90	10.0	1	04/24/2015 01:12	WG783747
2-Hexanone	U		3.80	10.0	1	04/24/2015 01:12	WG783747
Methylene Chloride	U		1.00	5.00	1	04/24/2015 01:12	WG783747
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/24/2015 01:12	WG783747
Methyl tert-butyl ether	U		0.370	1.00	1	04/24/2015 01:12	WG783747
Naphthalene	U		1.00	5.00	1	04/24/2015 01:12	WG783747
n-Propylbenzene	U		0.350	1.00	1	04/24/2015 01:12	WG783747
Styrene	U		0.310	1.00	1	04/24/2015 01:12	WG783747
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/24/2015 01:12	WG783747
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/24/2015 01:12	WG783747
Tetrachloroethene	U		0.370	1.00	1	04/24/2015 01:12	WG783747
Toluene	U		0.780	5.00	1	04/24/2015 01:12	WG783747
1,1,1-Trichloroethane	U		0.319	1.00	1	04/24/2015 01:12	WG783747
1,1,2-Trichloroethane	U		0.380	1.00	1	04/24/2015 01:12	WG783747
Trichloroethene	U		0.400	1.00	1	04/24/2015 01:12	WG783747
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/24/2015 01:12	WG783747
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/24/2015 01:12	WG783747
Vinyl chloride	U		0.260	1.00	1	04/24/2015 01:12	WG783747
o-Xylene	U		0.340	1.00	1	04/24/2015 01:12	WG783747
m&p-Xylene	U		0.720	1.00	1	04/24/2015 01:12	WG783747
Xylenes, Total	U		1.10	3.00	1	04/24/2015 01:12	WG783747
(S) Toluene-d8	103			88.5-111		04/24/2015 01:12	WG783747
(S) Dibromofluoromethane	106			78.3-121		04/24/2015 01:12	WG783747
(S) 4-Bromofluorobenzene	98.1			71.0-126		04/24/2015 01:12	WG783747

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	120		25.0	100	1	04/22/2015 00:47	WG783365
(S) o-Terphenyl	107			50.0-150		04/22/2015 00:47	WG783365



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	13700000		2800	10000	1	04/25/2015 11:33	WG783823

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		20.0	100	1	05/01/2015 10:50	WG785023

Wet Chemistry by Method 9012B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Cyanide	U		1.80	5.00	1	05/01/2015 10:34	WG785558

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	6270000		5200	100000	100	04/28/2015 09:57	WG784715
Fluoride	826		9.90	100	1	04/27/2015 22:35	WG784715
Sulfate	3620000		7700	500000	100	04/28/2015 09:57	WG784715

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	U		0.0490	0.200	1	04/20/2015 22:01	WG783256

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	54.1		0.250	2.00	1	04/28/2015 19:40	WG783156
Arsenic,Dissolved	54.3		0.250	2.00	1	04/28/2015 17:07	WG783445
Barium	33.6		0.360	5.00	1	04/28/2015 19:40	WG783156
Barium,Dissolved	31.5		0.360	5.00	1	04/28/2015 17:07	WG783445
Calcium	1190000		460	10000	10	04/28/2015 20:55	WG783156
Chromium	0.836	L	0.540	2.00	1	04/28/2015 19:40	WG783156
Chromium,Dissolved	0.744	L	0.540	2.00	1	04/28/2015 17:07	WG783445
Iron	12300		15.0	100	1	04/28/2015 19:40	WG783156
Iron,Dissolved	11000		15.0	100	1	04/28/2015 17:07	WG783445
Lead	U		0.240	2.00	1	04/28/2015 19:40	WG783156
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 17:07	WG783445
Manganese	6380		0.250	5.00	1	04/28/2015 19:40	WG783156
Manganese,Dissolved	6400		2.50	50.0	10	04/28/2015 18:08	WG783445
Nickel	59.8		0.350	2.00	1	04/28/2015 19:40	WG783156
Nickel,Dissolved	56.2		0.350	2.00	1	04/28/2015 17:07	WG783445
Potassium	10800		37.0	1000	1	04/28/2015 19:40	WG783156
Selenium	0.802	L	0.380	2.00	1	04/28/2015 19:40	WG783156
Selenium,Dissolved	0.889	L	0.380	2.00	1	04/28/2015 17:07	WG783445
Sodium	3330000		1100	10000	10	04/28/2015 20:55	WG783156
Vanadium	1.00	L	0.180	5.00	1	04/28/2015 19:40	WG783156
Vanadium,Dissolved	0.737	L	0.180	5.00	1	04/28/2015 17:07	WG783445

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	491		31.0	100	1	04/25/2015 04:10	WG783223



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
(S) a,a,a-Trifluorotoluene(FID)	95.6			62.0-128		04/25/2015 04:10	WG783223

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 ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		10.0	50.0	1	04/24/2015 01:30	WG783747
Benzene	U		0.330	1.00	1	04/24/2015 01:30	WG783747
Bromodichloromethane	U		0.380	1.00	1	04/24/2015 01:30	WG783747
Bromoform	U		0.470	1.00	1	04/24/2015 01:30	WG783747
Bromomethane	U		0.870	5.00	1	04/24/2015 01:30	WG783747
n-Butylbenzene	U		0.360	1.00	1	04/24/2015 01:30	WG783747
sec-Butylbenzene	U		0.360	1.00	1	04/24/2015 01:30	WG783747
Carbon disulfide	U		0.280	1.00	1	04/24/2015 01:30	WG783747
Carbon tetrachloride	U		0.380	1.00	1	04/24/2015 01:30	WG783747
Chlorobenzene	U		0.350	1.00	1	04/24/2015 01:30	WG783747
Chlorodibromomethane	U		0.330	1.00	1	04/24/2015 01:30	WG783747
Chloroethane	U		0.450	5.00	1	04/24/2015 01:30	WG783747
Chloroform	U		0.320	5.00	1	04/24/2015 01:30	WG783747
Chloromethane	U		0.280	2.50	1	04/24/2015 01:30	WG783747
1,2-Dibromoethane	U		0.380	1.00	1	04/24/2015 01:30	WG783747
1,1-Dichloroethane	U		0.260	1.00	1	04/24/2015 01:30	WG783747
1,2-Dichloroethane	U		0.360	1.00	1	04/24/2015 01:30	WG783747
1,1-Dichloroethene	U		0.400	1.00	1	04/24/2015 01:30	WG783747
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/24/2015 01:30	WG783747
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/24/2015 01:30	WG783747
1,2-Dichloropropane	U		0.310	1.00	1	04/24/2015 01:30	WG783747
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 01:30	WG783747
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 01:30	WG783747
Ethylbenzene	U		0.380	1.00	1	04/24/2015 01:30	WG783747
Isopropylbenzene	U		0.330	1.00	1	04/24/2015 01:30	WG783747
p-Isopropyltoluene	U		0.350	1.00	1	04/24/2015 01:30	WG783747
2-Butanone (MEK)	U		3.90	10.0	1	04/24/2015 01:30	WG783747
2-Hexanone	U		3.80	10.0	1	04/24/2015 01:30	WG783747
Methylene Chloride	U		1.00	5.00	1	04/24/2015 01:30	WG783747
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/24/2015 01:30	WG783747
Methyl tert-butyl ether	4.98		0.370	1.00	1	04/24/2015 01:30	WG783747
Naphthalene	U		1.00	5.00	1	04/24/2015 01:30	WG783747
n-Propylbenzene	U		0.350	1.00	1	04/24/2015 01:30	WG783747
Styrene	U		0.310	1.00	1	04/24/2015 01:30	WG783747
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/24/2015 01:30	WG783747
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/24/2015 01:30	WG783747
Tetrachloroethene	U		0.370	1.00	1	04/24/2015 01:30	WG783747
Toluene	U		0.780	5.00	1	04/24/2015 01:30	WG783747
1,1,1-Trichloroethane	U		0.319	1.00	1	04/24/2015 01:30	WG783747
1,1,2-Trichloroethane	U		0.380	1.00	1	04/24/2015 01:30	WG783747
Trichloroethene	U		0.400	1.00	1	04/24/2015 01:30	WG783747
1,2,4-Trimethylbenzene	0.370	J	0.370	1.00	1	04/24/2015 01:30	WG783747
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/24/2015 01:30	WG783747
Vinyl chloride	U		0.260	1.00	1	04/24/2015 01:30	WG783747
o-Xylene	U		0.340	1.00	1	04/24/2015 01:30	WG783747
m&p-Xylene	U		0.720	1.00	1	04/24/2015 01:30	WG783747
Xylenes, Total	U		1.10	3.00	1	04/24/2015 01:30	WG783747
(S) Toluene-d8	107			88.5-111		04/24/2015 01:30	WG783747
(S) Dibromofluoromethane	109			78.3-121		04/24/2015 01:30	WG783747
(S) 4-Bromofluorobenzene	109			71.0-126		04/24/2015 01:30	WG783747



Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2600		25.0	100	1	04/22/2015 01:06	WG783365
(S) o-Terphenyl	107			50.0-150		04/22/2015 01:06	WG783365

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	7110000		2800	10000	1	04/25/2015 11:30	WG783823

1 Cp

2 Tc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	23.3	J	20.0	100	1	05/01/2015 10:52	WG785023

3 Ss

4 Cn

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	2020000		5200	100000	100	04/29/2015 12:04	WG784716
Fluoride	934		9.90	100	1	04/28/2015 20:04	WG784716
Sulfate	2910000		7700	500000	100	04/29/2015 12:04	WG784716

5 Sr

6 Qc

7 Gl

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	12.6		0.250	2.00	1	04/28/2015 19:43	WG783156
Arsenic,Dissolved	11.3		0.250	2.00	1	04/28/2015 17:11	WG783445
Barium	14.1		0.360	5.00	1	04/28/2015 19:43	WG783156
Barium,Dissolved	12.0		0.360	5.00	1	04/28/2015 17:11	WG783445
Calcium	680000		46.0	1000	1	04/28/2015 19:43	WG783156
Chromium	0.872	J	0.540	2.00	1	04/28/2015 19:43	WG783156
Chromium,Dissolved	0.653	J	0.540	2.00	1	04/28/2015 17:11	WG783445
Iron	239		15.0	100	1	04/28/2015 19:43	WG783156
Iron,Dissolved	200		15.0	100	1	04/28/2015 17:11	WG783445
Lead	0.392	J	0.240	2.00	1	04/28/2015 19:43	WG783156
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 17:11	WG783445
Manganese	5980		0.250	5.00	1	04/28/2015 19:43	WG783156
Manganese,Dissolved	5180		0.250	5.00	1	04/28/2015 17:11	WG783445
Potassium	9510		37.0	1000	1	04/28/2015 19:43	WG783156
Selenium	0.525	J	0.380	2.00	1	04/28/2015 19:43	WG783156
Selenium,Dissolved	0.497	J	0.380	2.00	1	04/28/2015 17:11	WG783445
Sodium	1520000		550	5000	5	04/28/2015 20:57	WG783156

8 Al

9 Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	U		31.0	100	1	04/25/2015 04:35	WG783223
(S) a,a,a-Trifluorotoluene(FID)	95.4			62.0-128		04/25/2015 04:35	WG783223

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/24/2015 01:55	WG783747
Benzene	U		0.330	1.00	1	04/24/2015 01:55	WG783747
Bromodichloromethane	U		0.380	1.00	1	04/24/2015 01:55	WG783747
Bromoform	U		0.470	1.00	1	04/24/2015 01:55	WG783747
Bromomethane	U		0.870	5.00	1	04/24/2015 01:55	WG783747
n-Butylbenzene	U		0.360	1.00	1	04/24/2015 01:55	WG783747
sec-Butylbenzene	U		0.360	1.00	1	04/24/2015 01:55	WG783747
Carbon disulfide	U		0.280	1.00	1	04/24/2015 01:55	WG783747
Carbon tetrachloride	U		0.380	1.00	1	04/24/2015 01:55	WG783747
Chlorobenzene	U		0.350	1.00	1	04/24/2015 01:55	WG783747



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/24/2015 01:55	WG783747
Chloroethane	U		0.450	5.00	1	04/24/2015 01:55	WG783747
Chloroform	U		0.320	5.00	1	04/24/2015 01:55	WG783747
Chloromethane	U		0.280	2.50	1	04/24/2015 01:55	WG783747
1,2-Dibromoethane	U		0.380	1.00	1	04/24/2015 01:55	WG783747
1,1-Dichloroethane	U		0.260	1.00	1	04/24/2015 01:55	WG783747
1,2-Dichloroethane	U		0.360	1.00	1	04/24/2015 01:55	WG783747
1,1-Dichloroethene	U		0.400	1.00	1	04/24/2015 01:55	WG783747
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/24/2015 01:55	WG783747
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/24/2015 01:55	WG783747
1,2-Dichloropropane	U		0.310	1.00	1	04/24/2015 01:55	WG783747
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 01:55	WG783747
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 01:55	WG783747
Ethylbenzene	U		0.380	1.00	1	04/24/2015 01:55	WG783747
Isopropylbenzene	U		0.330	1.00	1	04/24/2015 01:55	WG783747
p-Isopropyltoluene	U		0.350	1.00	1	04/24/2015 01:55	WG783747
2-Butanone (MEK)	U		3.90	10.0	1	04/24/2015 01:55	WG783747
2-Hexanone	U		3.80	10.0	1	04/24/2015 01:55	WG783747
Methylene Chloride	U		1.00	5.00	1	04/24/2015 01:55	WG783747
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/24/2015 01:55	WG783747
Methyl tert-butyl ether	1.55		0.370	1.00	1	04/24/2015 01:55	WG783747
Naphthalene	U		1.00	5.00	1	04/24/2015 01:55	WG783747
n-Propylbenzene	U		0.350	1.00	1	04/24/2015 01:55	WG783747
Styrene	U		0.310	1.00	1	04/24/2015 01:55	WG783747
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/24/2015 01:55	WG783747
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/24/2015 01:55	WG783747
Tetrachloroethene	U		0.370	1.00	1	04/24/2015 01:55	WG783747
Toluene	U		0.780	5.00	1	04/24/2015 01:55	WG783747
1,1,1-Trichloroethane	U		0.319	1.00	1	04/24/2015 01:55	WG783747
1,1,2-Trichloroethane	U		0.380	1.00	1	04/24/2015 01:55	WG783747
Trichloroethene	U		0.400	1.00	1	04/24/2015 01:55	WG783747
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/24/2015 01:55	WG783747
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/24/2015 01:55	WG783747
Vinyl chloride	U		0.260	1.00	1	04/24/2015 01:55	WG783747
o-Xylene	U		0.340	1.00	1	04/24/2015 01:55	WG783747
m&p-Xylene	U		0.720	1.00	1	04/24/2015 01:55	WG783747
Xylenes, Total	U		1.10	3.00	1	04/24/2015 01:55	WG783747
(S) Toluene-d8	104			88.5-111		04/24/2015 01:55	WG783747
(S) Dibromofluoromethane	107			78.3-121		04/24/2015 01:55	WG783747
(S) 4-Bromofluorobenzene	99.1			71.0-126		04/24/2015 01:55	WG783747

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	840		25.0	100	1	04/22/2015 01:24	WG783365
(S) o-Terphenyl	109			50.0-150		04/22/2015 01:24	WG783365



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Dissolved Solids	13800000		2800	10000	1	04/25/2015 11:30	WG783823

Wet Chemistry by Method 353.2

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	241		20.0	100	1	05/01/2015 10:53	WG785023

Wet Chemistry by Method 9056MOD

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chloride	4880000		5200	100000	100	04/29/2015 12:19	WG784716
Fluoride	1190		9.90	100	1	04/28/2015 20:19	WG784716
Sulfate	4390000		7700	500000	100	04/29/2015 12:19	WG784716

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	6.35		0.250	2.00	1	04/28/2015 19:46	WG783156
Arsenic,Dissolved	5.65		0.250	2.00	1	04/28/2015 17:13	WG783445
Barium	18.4		0.360	5.00	1	04/28/2015 19:46	WG783156
Barium,Dissolved	18.6		0.360	5.00	1	04/28/2015 17:13	WG783445
Calcium	740000		46.0	1000	1	04/28/2015 19:46	WG783156
Chromium	0.789	⬇	0.540	2.00	1	04/28/2015 19:46	WG783156
Chromium,Dissolved	0.544	⬇	0.540	2.00	1	04/28/2015 17:13	WG783445
Iron	194		15.0	100	1	04/28/2015 19:46	WG783156
Iron,Dissolved	U		15.0	100	1	04/28/2015 17:13	WG783445
Lead	U		0.240	2.00	1	04/28/2015 19:46	WG783156
Lead,Dissolved	0.455	⬇	0.240	2.00	1	04/28/2015 17:13	WG783445
Manganese	102		0.250	5.00	1	04/28/2015 19:46	WG783156
Manganese,Dissolved	41.9		0.250	5.00	1	04/28/2015 17:13	WG783445
Potassium	27300		37.0	1000	1	04/28/2015 19:46	WG783156
Selenium	1.15	⬇	0.380	2.00	1	04/28/2015 19:46	WG783156
Selenium,Dissolved	1.10	⬇	0.380	2.00	1	04/28/2015 17:13	WG783445
Sodium	3190000		1100	10000	10	04/28/2015 21:00	WG783156

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		31.0	100	1	04/25/2015 05:00	WG783223
(S) a,a,a-Trifluorotoluene(FID)	95.0			62.0-128		04/25/2015 05:00	WG783223

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		10.0	50.0	1	04/24/2015 02:14	WG783747
Benzene	U		0.330	1.00	1	04/24/2015 02:14	WG783747
Bromodichloromethane	U		0.380	1.00	1	04/24/2015 02:14	WG783747
Bromoform	U		0.470	1.00	1	04/24/2015 02:14	WG783747
Bromomethane	U		0.870	5.00	1	04/24/2015 02:14	WG783747
n-Butylbenzene	U		0.360	1.00	1	04/24/2015 02:14	WG783747
sec-Butylbenzene	U		0.360	1.00	1	04/24/2015 02:14	WG783747
Carbon disulfide	U		0.280	1.00	1	04/24/2015 02:14	WG783747
Carbon tetrachloride	U		0.380	1.00	1	04/24/2015 02:14	WG783747
Chlorobenzene	U		0.350	1.00	1	04/24/2015 02:14	WG783747



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/24/2015 02:14	WG783747
Chloroethane	U		0.450	5.00	1	04/24/2015 02:14	WG783747
Chloroform	U		0.320	5.00	1	04/24/2015 02:14	WG783747
Chloromethane	U		0.280	2.50	1	04/24/2015 02:14	WG783747
1,2-Dibromoethane	U		0.380	1.00	1	04/24/2015 02:14	WG783747
1,1-Dichloroethane	U		0.260	1.00	1	04/24/2015 02:14	WG783747
1,2-Dichloroethane	U		0.360	1.00	1	04/24/2015 02:14	WG783747
1,1-Dichloroethene	U		0.400	1.00	1	04/24/2015 02:14	WG783747
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/24/2015 02:14	WG783747
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/24/2015 02:14	WG783747
1,2-Dichloropropane	U		0.310	1.00	1	04/24/2015 02:14	WG783747
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 02:14	WG783747
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 02:14	WG783747
Ethylbenzene	U		0.380	1.00	1	04/24/2015 02:14	WG783747
Isopropylbenzene	U		0.330	1.00	1	04/24/2015 02:14	WG783747
p-Isopropyltoluene	U		0.350	1.00	1	04/24/2015 02:14	WG783747
2-Butanone (MEK)	U		3.90	10.0	1	04/24/2015 02:14	WG783747
2-Hexanone	U		3.80	10.0	1	04/24/2015 02:14	WG783747
Methylene Chloride	U		1.00	5.00	1	04/24/2015 02:14	WG783747
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/24/2015 02:14	WG783747
Methyl tert-butyl ether	0.569	J	0.370	1.00	1	04/24/2015 02:14	WG783747
Naphthalene	U		1.00	5.00	1	04/24/2015 02:14	WG783747
n-Propylbenzene	U		0.350	1.00	1	04/24/2015 02:14	WG783747
Styrene	U		0.310	1.00	1	04/24/2015 02:14	WG783747
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/24/2015 02:14	WG783747
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/24/2015 02:14	WG783747
Tetrachloroethene	U		0.370	1.00	1	04/24/2015 02:14	WG783747
Toluene	U		0.780	5.00	1	04/24/2015 02:14	WG783747
1,1,1-Trichloroethane	U		0.319	1.00	1	04/24/2015 02:14	WG783747
1,1,2-Trichloroethane	U		0.380	1.00	1	04/24/2015 02:14	WG783747
Trichloroethene	U		0.400	1.00	1	04/24/2015 02:14	WG783747
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/24/2015 02:14	WG783747
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/24/2015 02:14	WG783747
Vinyl chloride	U		0.260	1.00	1	04/24/2015 02:14	WG783747
o-Xylene	U		0.340	1.00	1	04/24/2015 02:14	WG783747
m&p-Xylene	U		0.720	1.00	1	04/24/2015 02:14	WG783747
Xylenes, Total	U		1.10	3.00	1	04/24/2015 02:14	WG783747
(S) Toluene-d8	105			88.5-111		04/24/2015 02:14	WG783747
(S) Dibromofluoromethane	108			78.3-121		04/24/2015 02:14	WG783747
(S) 4-Bromofluorobenzene	101			71.0-126		04/24/2015 02:14	WG783747

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	390		25.0	100	1	04/22/2015 01:43	WG783365
(S) o-Terphenyl	107			50.0-150		04/22/2015 01:43	WG783365



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	32600000		2800	10000	1	04/25/2015 11:33	WG783823

1 Cp

2 Tc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	2180		20.0	100	1	05/01/2015 10:54	WG785023

3 Ss

4 Cn

Wet Chemistry by Method 9012B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Cyanide	U		1.80	5.00	1	04/30/2015 12:58	WG784739

5 Sr

6 Qc

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	11600000		52000	1000000	1000	04/29/2015 12:34	WG784716
Fluoride	6140		9.90	100	1	04/28/2015 20:34	WG784716
Sulfate	9490000		77000	5000000	1000	04/29/2015 12:34	WG784716

7 Gl

8 Al

9 Sc

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Mercury	U		0.0490	0.200	1	04/20/2015 22:03	WG783256

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	4.10		0.250	2.00	1	04/28/2015 19:48	WG783156
Arsenic,Dissolved	3.41		0.250	2.00	1	04/28/2015 17:16	WG783445
Barium	12.9		0.360	5.00	1	04/28/2015 19:48	WG783156
Barium,Dissolved	11.6		0.360	5.00	1	04/28/2015 17:16	WG783445
Calcium	718000		46.0	1000	1	04/28/2015 19:48	WG783156
Chromium	0.794	J	0.540	2.00	1	04/28/2015 19:48	WG783156
Chromium,Dissolved	U		0.540	2.00	1	04/28/2015 17:16	WG783445
Iron	379		15.0	100	1	04/28/2015 19:48	WG783156
Iron,Dissolved	U		15.0	100	1	04/28/2015 17:16	WG783445
Lead	U		4.80	40.0	20	04/28/2015 21:03	WG783156
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 17:16	WG783445
Manganese	22.1		0.250	5.00	1	04/28/2015 19:48	WG783156
Manganese,Dissolved	9.39		0.250	5.00	1	04/28/2015 17:16	WG783445
Nickel	2.25		0.350	2.00	1	04/28/2015 19:48	WG783156
Nickel,Dissolved	1.94	J	0.350	2.00	1	04/28/2015 17:16	WG783445
Potassium	56700		37.0	1000	1	04/28/2015 19:48	WG783156
Selenium	50.3		0.380	2.00	1	04/28/2015 19:48	WG783156
Selenium,Dissolved	46.4		0.380	2.00	1	04/28/2015 17:16	WG783445
Sodium	7290000		2200	20000	20	04/28/2015 21:03	WG783156
Vanadium	6.52		0.180	5.00	1	04/28/2015 19:48	WG783156
Vanadium,Dissolved	4.20	J	0.180	5.00	1	04/28/2015 17:16	WG783445



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		10.0	50.0	1	04/24/2015 02:32	WG783747
Benzene	U		0.330	1.00	1	04/24/2015 02:32	WG783747
Bromodichloromethane	U		0.380	1.00	1	04/24/2015 02:32	WG783747
Bromoform	U		0.470	1.00	1	04/24/2015 02:32	WG783747
Bromomethane	U		0.870	5.00	1	04/24/2015 02:32	WG783747
n-Butylbenzene	U		0.360	1.00	1	04/24/2015 02:32	WG783747
sec-Butylbenzene	U		0.360	1.00	1	04/24/2015 02:32	WG783747
Carbon disulfide	U		0.280	1.00	1	04/24/2015 02:32	WG783747
Carbon tetrachloride	U		0.380	1.00	1	04/24/2015 02:32	WG783747
Chlorobenzene	U		0.350	1.00	1	04/24/2015 02:32	WG783747
Chlorodibromomethane	U		0.330	1.00	1	04/24/2015 02:32	WG783747
Chloroethane	U		0.450	5.00	1	04/24/2015 02:32	WG783747
Chloroform	U		0.320	5.00	1	04/24/2015 02:32	WG783747
Chloromethane	U		0.280	2.50	1	04/24/2015 02:32	WG783747
1,2-Dibromoethane	U		0.380	1.00	1	04/24/2015 02:32	WG783747
1,1-Dichloroethane	U		0.260	1.00	1	04/24/2015 02:32	WG783747
1,2-Dichloroethane	U		0.360	1.00	1	04/24/2015 02:32	WG783747
1,1-Dichloroethene	U		0.400	1.00	1	04/24/2015 02:32	WG783747
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/24/2015 02:32	WG783747
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/24/2015 02:32	WG783747
1,2-Dichloropropane	U		0.310	1.00	1	04/24/2015 02:32	WG783747
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 02:32	WG783747
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 02:32	WG783747
Ethylbenzene	U		0.380	1.00	1	04/24/2015 02:32	WG783747
Isopropylbenzene	U		0.330	1.00	1	04/24/2015 02:32	WG783747
p-Isopropyltoluene	U		0.350	1.00	1	04/24/2015 02:32	WG783747
2-Butanone (MEK)	U		3.90	10.0	1	04/24/2015 02:32	WG783747
2-Hexanone	U		3.80	10.0	1	04/24/2015 02:32	WG783747
Methylene Chloride	U		1.00	5.00	1	04/24/2015 02:32	WG783747
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/24/2015 02:32	WG783747
Methyl tert-butyl ether	U		0.370	1.00	1	04/24/2015 02:32	WG783747
Naphthalene	U		1.00	5.00	1	04/24/2015 02:32	WG783747
n-Propylbenzene	U		0.350	1.00	1	04/24/2015 02:32	WG783747
Styrene	U		0.310	1.00	1	04/24/2015 02:32	WG783747
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/24/2015 02:32	WG783747
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/24/2015 02:32	WG783747
Tetrachloroethene	U		0.370	1.00	1	04/24/2015 02:32	WG783747
Toluene	U		0.780	5.00	1	04/24/2015 02:32	WG783747
1,1,1-Trichloroethane	U		0.319	1.00	1	04/24/2015 02:32	WG783747
1,1,2-Trichloroethane	U		0.380	1.00	1	04/24/2015 02:32	WG783747
Trichloroethene	U		0.400	1.00	1	04/24/2015 02:32	WG783747
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/24/2015 02:32	WG783747
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/24/2015 02:32	WG783747
Vinyl chloride	U		0.260	1.00	1	04/24/2015 02:32	WG783747
o-Xylene	U		0.340	1.00	1	04/24/2015 02:32	WG783747
m&p-Xylene	U		0.720	1.00	1	04/24/2015 02:32	WG783747
Xylenes, Total	U		1.10	3.00	1	04/24/2015 02:32	WG783747
(S) Toluene-d8	107			88.5-111		04/24/2015 02:32	WG783747
(S) Dibromofluoromethane	108			78.3-121		04/24/2015 02:32	WG783747
(S) 4-Bromofluorobenzene	99.6			71.0-126		04/24/2015 02:32	WG783747

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	77.0	J	25.0	100	1	04/22/2015 02:01	WG783365
(S) o-Terphenyl	104			50.0-150		04/22/2015 02:01	WG783365



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	4410000		2800	10000	1	04/25/2015 11:32	WG783823

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	28.0	J	20.0	100	1	05/01/2015 01:53	WG785026

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	763000		5200	100000	100	04/29/2015 12:49	WG784716
Fluoride	931		9.90	100	1	04/28/2015 20:49	WG784716
Sulfate	1840000		7700	500000	100	04/29/2015 12:49	WG784716

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	12.0		0.250	2.00	1	04/28/2015 19:51	WG783156
Arsenic,Dissolved	10.4		0.250	2.00	1	04/28/2015 17:18	WG783445
Barium	12.5		0.360	5.00	1	04/28/2015 19:51	WG783156
Barium,Dissolved	11.6		0.360	5.00	1	04/28/2015 17:18	WG783445
Calcium	581000		46.0	1000	1	04/28/2015 19:51	WG783156
Chromium	0.942	J	0.540	2.00	1	04/28/2015 19:51	WG783156
Chromium,Dissolved	U		0.540	2.00	1	04/28/2015 17:18	WG783445
Iron	139		15.0	100	1	04/28/2015 19:51	WG783156
Iron,Dissolved	39.8	J	15.0	100	1	04/28/2015 17:18	WG783445
Lead	0.814	J	0.240	2.00	1	04/28/2015 19:51	WG783156
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 17:18	WG783445
Manganese	789		0.250	5.00	1	04/28/2015 19:51	WG783156
Manganese,Dissolved	723		0.250	5.00	1	04/28/2015 17:18	WG783445
Potassium	5910		37.0	1000	1	04/28/2015 19:51	WG783156
Selenium	U		0.380	2.00	1	04/28/2015 19:51	WG783156
Selenium,Dissolved	U		0.380	2.00	1	04/28/2015 17:18	WG783445
Sodium	460000		110	1000	1	04/28/2015 19:51	WG783156

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	U		31.0	100	1	04/22/2015 03:58	WG783227
(S) a,a,a-Trifluorotoluene(FID)	92.3			62.0-128		04/22/2015 03:58	WG783227

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/24/2015 02:50	WG783747
Benzene	U		0.330	1.00	1	04/24/2015 02:50	WG783747
Bromodichloromethane	U		0.380	1.00	1	04/24/2015 02:50	WG783747
Bromoform	U		0.470	1.00	1	04/24/2015 02:50	WG783747
Bromomethane	U		0.870	5.00	1	04/24/2015 02:50	WG783747
n-Butylbenzene	U		0.360	1.00	1	04/24/2015 02:50	WG783747
sec-Butylbenzene	U		0.360	1.00	1	04/24/2015 02:50	WG783747
Carbon disulfide	U		0.280	1.00	1	04/24/2015 02:50	WG783747
Carbon tetrachloride	U		0.380	1.00	1	04/24/2015 02:50	WG783747
Chlorobenzene	U		0.350	1.00	1	04/24/2015 02:50	WG783747



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/24/2015 02:50	WG783747
Chloroethane	U		0.450	5.00	1	04/24/2015 02:50	WG783747
Chloroform	U		0.320	5.00	1	04/24/2015 02:50	WG783747
Chloromethane	U		0.280	2.50	1	04/24/2015 02:50	WG783747
1,2-Dibromoethane	U		0.380	1.00	1	04/24/2015 02:50	WG783747
1,1-Dichloroethane	U		0.260	1.00	1	04/24/2015 02:50	WG783747
1,2-Dichloroethane	U		0.360	1.00	1	04/24/2015 02:50	WG783747
1,1-Dichloroethene	U		0.400	1.00	1	04/24/2015 02:50	WG783747
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/24/2015 02:50	WG783747
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/24/2015 02:50	WG783747
1,2-Dichloropropane	U		0.310	1.00	1	04/24/2015 02:50	WG783747
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 02:50	WG783747
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 02:50	WG783747
Ethylbenzene	U		0.380	1.00	1	04/24/2015 02:50	WG783747
Isopropylbenzene	U		0.330	1.00	1	04/24/2015 02:50	WG783747
p-Isopropyltoluene	U		0.350	1.00	1	04/24/2015 02:50	WG783747
2-Butanone (MEK)	U		3.90	10.0	1	04/24/2015 02:50	WG783747
2-Hexanone	U		3.80	10.0	1	04/24/2015 02:50	WG783747
Methylene Chloride	U		1.00	5.00	1	04/24/2015 02:50	WG783747
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/24/2015 02:50	WG783747
Methyl tert-butyl ether	U		0.370	1.00	1	04/24/2015 02:50	WG783747
Naphthalene	U		1.00	5.00	1	04/24/2015 02:50	WG783747
n-Propylbenzene	U		0.350	1.00	1	04/24/2015 02:50	WG783747
Styrene	U		0.310	1.00	1	04/24/2015 02:50	WG783747
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/24/2015 02:50	WG783747
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/24/2015 02:50	WG783747
Tetrachloroethene	U		0.370	1.00	1	04/24/2015 02:50	WG783747
Toluene	U		0.780	5.00	1	04/24/2015 02:50	WG783747
1,1,1-Trichloroethane	U		0.319	1.00	1	04/24/2015 02:50	WG783747
1,1,2-Trichloroethane	U		0.380	1.00	1	04/24/2015 02:50	WG783747
Trichloroethene	U		0.400	1.00	1	04/24/2015 02:50	WG783747
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/24/2015 02:50	WG783747
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/24/2015 02:50	WG783747
Vinyl chloride	U		0.260	1.00	1	04/24/2015 02:50	WG783747
o-Xylene	U		0.340	1.00	1	04/24/2015 02:50	WG783747
m&p-Xylene	U		0.720	1.00	1	04/24/2015 02:50	WG783747
Xylenes, Total	U		1.10	3.00	1	04/24/2015 02:50	WG783747
(S) Toluene-d8	107			88.5-111		04/24/2015 02:50	WG783747
(S) Dibromofluoromethane	107			78.3-121		04/24/2015 02:50	WG783747
(S) 4-Bromofluorobenzene	101			71.0-126		04/24/2015 02:50	WG783747

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	280		25.0	100	1	04/22/2015 03:32	WG783365
(S) o-Terphenyl	110			50.0-150		04/22/2015 03:32	WG783365



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	5700000		2800	10000	1	04/25/2015 11:33	WG783823

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U	J6	20.0	100	1	05/01/2015 01:55	WG785026

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	1240000		5200	100000	100	04/29/2015 13:04	WG784716
Fluoride	740		9.90	100	1	04/28/2015 21:04	WG784716
Sulfate	2230000		7700	500000	100	04/29/2015 13:04	WG784716

Metals (ICPMS) by Method 6020

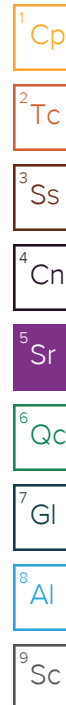
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	25.2		0.250	2.00	1	04/28/2015 19:54	WG783156
Arsenic,Dissolved	19.6		0.250	2.00	1	04/28/2015 17:20	WG783445
Barium	15.1		0.360	5.00	1	04/28/2015 19:54	WG783156
Barium,Dissolved	13.9		0.360	5.00	1	04/28/2015 17:20	WG783445
Calcium	695000		46.0	1000	1	04/28/2015 19:54	WG783156
Chromium	0.653	J	0.540	2.00	1	04/28/2015 19:54	WG783156
Chromium,Dissolved	U		0.540	2.00	1	04/28/2015 17:20	WG783445
Iron	3290		15.0	100	1	04/28/2015 19:54	WG783156
Iron,Dissolved	1570		15.0	100	1	04/28/2015 17:20	WG783445
Lead	U		0.240	2.00	1	04/28/2015 19:54	WG783156
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 17:20	WG783445
Manganese	222		0.250	5.00	1	04/28/2015 19:54	WG783156
Manganese,Dissolved	213		0.250	5.00	1	04/28/2015 17:20	WG783445
Potassium	4900		37.0	1000	1	04/28/2015 19:54	WG783156
Selenium	U		0.380	2.00	1	04/28/2015 19:54	WG783156
Selenium,Dissolved	U		0.380	2.00	1	04/28/2015 17:20	WG783445
Sodium	774000		550	5000	5	04/28/2015 21:05	WG783156

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	1270	J3	31.0	100	1	04/22/2015 04:21	WG783227
(S) a,a,a-Trifluorotoluene(FID)	87.1			62.0-128		04/22/2015 04:21	WG783227

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/24/2015 03:09	WG783747
Benzene	U		0.330	1.00	1	04/24/2015 03:09	WG783747
Bromodichloromethane	U		0.380	1.00	1	04/24/2015 03:09	WG783747
Bromoform	U		0.470	1.00	1	04/24/2015 03:09	WG783747
Bromomethane	U		0.870	5.00	1	04/24/2015 03:09	WG783747
n-Butylbenzene	U		0.360	1.00	1	04/24/2015 03:09	WG783747
sec-Butylbenzene	U		0.360	1.00	1	04/24/2015 03:09	WG783747
Carbon disulfide	U		0.280	1.00	1	04/24/2015 03:09	WG783747
Carbon tetrachloride	U		0.380	1.00	1	04/24/2015 03:09	WG783747
Chlorobenzene	U		0.350	1.00	1	04/24/2015 03:09	WG783747





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/24/2015 03:09	WG783747
Chloroethane	U		0.450	5.00	1	04/24/2015 03:09	WG783747
Chloroform	U		0.320	5.00	1	04/24/2015 03:09	WG783747
Chloromethane	U		0.280	2.50	1	04/24/2015 03:09	WG783747
1,2-Dibromoethane	U		0.380	1.00	1	04/24/2015 03:09	WG783747
1,1-Dichloroethane	U		0.260	1.00	1	04/24/2015 03:09	WG783747
1,2-Dichloroethane	U		0.360	1.00	1	04/24/2015 03:09	WG783747
1,1-Dichloroethene	U		0.400	1.00	1	04/24/2015 03:09	WG783747
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/24/2015 03:09	WG783747
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/24/2015 03:09	WG783747
1,2-Dichloropropane	U		0.310	1.00	1	04/24/2015 03:09	WG783747
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 03:09	WG783747
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 03:09	WG783747
Ethylbenzene	U		0.380	1.00	1	04/24/2015 03:09	WG783747
Isopropylbenzene	U		0.330	1.00	1	04/24/2015 03:09	WG783747
p-Isopropyltoluene	U		0.350	1.00	1	04/24/2015 03:09	WG783747
2-Butanone (MEK)	U		3.90	10.0	1	04/24/2015 03:09	WG783747
2-Hexanone	U		3.80	10.0	1	04/24/2015 03:09	WG783747
Methylene Chloride	U		1.00	5.00	1	04/24/2015 03:09	WG783747
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/24/2015 03:09	WG783747
Methyl tert-butyl ether	U		0.370	1.00	1	04/24/2015 03:09	WG783747
Naphthalene	U		1.00	5.00	1	04/24/2015 03:09	WG783747
n-Propylbenzene	U		0.350	1.00	1	04/24/2015 03:09	WG783747
Styrene	U		0.310	1.00	1	04/24/2015 03:09	WG783747
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/24/2015 03:09	WG783747
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/24/2015 03:09	WG783747
Tetrachloroethene	U		0.370	1.00	1	04/24/2015 03:09	WG783747
Toluene	U		0.780	5.00	1	04/24/2015 03:09	WG783747
1,1,1-Trichloroethane	U		0.319	1.00	1	04/24/2015 03:09	WG783747
1,1,2-Trichloroethane	U		0.380	1.00	1	04/24/2015 03:09	WG783747
Trichloroethene	U		0.400	1.00	1	04/24/2015 03:09	WG783747
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/24/2015 03:09	WG783747
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/24/2015 03:09	WG783747
Vinyl chloride	U		0.260	1.00	1	04/24/2015 03:09	WG783747
o-Xylene	U		0.340	1.00	1	04/24/2015 03:09	WG783747
m&p-Xylene	U		0.720	1.00	1	04/24/2015 03:09	WG783747
Xylenes, Total	U		1.10	3.00	1	04/24/2015 03:09	WG783747
(S) Toluene-d8	107			88.5-111		04/24/2015 03:09	WG783747
(S) Dibromofluoromethane	109			78.3-121		04/24/2015 03:09	WG783747
(S) 4-Bromofluorobenzene	107			71.0-126		04/24/2015 03:09	WG783747

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	790		25.0	100	1	04/22/2015 03:50	WG783365
(S) o-Terphenyl	112			50.0-150		04/22/2015 03:50	WG783365



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	11400000		2800	10000	1	04/25/2015 11:32	WG783823

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	26.5	J	20.0	100	1	05/01/2015 01:59	WG785026

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	3240000		5200	100000	100	04/29/2015 13:19	WG784716
Fluoride	922		9.90	100	1	04/28/2015 21:19	WG784716
Sulfate	3610000		7700	500000	100	04/29/2015 13:19	WG784716

Metals (ICPMS) by Method 6020

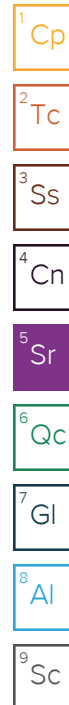
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	2.76		0.250	2.00	1	04/28/2015 19:56	WG783156
Arsenic,Dissolved	1.99	J	0.250	2.00	1	04/28/2015 17:22	WG783445
Barium	19.2		0.360	5.00	1	04/28/2015 19:56	WG783156
Barium,Dissolved	17.0		0.360	5.00	1	04/28/2015 17:22	WG783445
Calcium	779000		46.0	1000	1	04/28/2015 19:56	WG783156
Chromium	1.26	J	0.540	2.00	1	04/28/2015 19:56	WG783156
Chromium,Dissolved	U		0.540	2.00	1	04/28/2015 17:22	WG783445
Iron	1220		15.0	100	1	04/28/2015 19:56	WG783156
Iron,Dissolved	961		15.0	100	1	04/28/2015 17:22	WG783445
Lead	0.379	J	0.240	2.00	1	04/28/2015 19:56	WG783156
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 17:22	WG783445
Manganese	816		0.250	5.00	1	04/28/2015 19:56	WG783156
Manganese,Dissolved	703		0.250	5.00	1	04/28/2015 17:22	WG783445
Potassium	6800		37.0	1000	1	04/28/2015 19:56	WG783156
Selenium	U		0.380	2.00	1	04/28/2015 19:56	WG783156
Selenium,Dissolved	U		0.380	2.00	1	04/28/2015 17:22	WG783445
Sodium	1970000		550	5000	5	04/28/2015 22:21	WG783156

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	U	J3	31.0	100	1	04/22/2015 04:43	WG783227
(S) a,a,a-Trifluorotoluene(FID)	93.0			62.0-128		04/22/2015 04:43	WG783227

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/24/2015 03:28	WG783747
Benzene	U		0.330	1.00	1	04/24/2015 03:28	WG783747
Bromodichloromethane	U		0.380	1.00	1	04/24/2015 03:28	WG783747
Bromoform	U		0.470	1.00	1	04/24/2015 03:28	WG783747
Bromomethane	U		0.870	5.00	1	04/24/2015 03:28	WG783747
n-Butylbenzene	U		0.360	1.00	1	04/24/2015 03:28	WG783747
sec-Butylbenzene	U		0.360	1.00	1	04/24/2015 03:28	WG783747
Carbon disulfide	U		0.280	1.00	1	04/24/2015 03:28	WG783747
Carbon tetrachloride	U		0.380	1.00	1	04/24/2015 03:28	WG783747
Chlorobenzene	U		0.350	1.00	1	04/24/2015 03:28	WG783747





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/24/2015 03:28	WG783747
Chloroethane	U		0.450	5.00	1	04/24/2015 03:28	WG783747
Chloroform	U		0.320	5.00	1	04/24/2015 03:28	WG783747
Chloromethane	U		0.280	2.50	1	04/24/2015 03:28	WG783747
1,2-Dibromoethane	U		0.380	1.00	1	04/24/2015 03:28	WG783747
1,1-Dichloroethane	U		0.260	1.00	1	04/24/2015 03:28	WG783747
1,2-Dichloroethane	U		0.360	1.00	1	04/24/2015 03:28	WG783747
1,1-Dichloroethene	U		0.400	1.00	1	04/24/2015 03:28	WG783747
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/24/2015 03:28	WG783747
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/24/2015 03:28	WG783747
1,2-Dichloropropane	U		0.310	1.00	1	04/24/2015 03:28	WG783747
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 03:28	WG783747
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 03:28	WG783747
Ethylbenzene	U		0.380	1.00	1	04/24/2015 03:28	WG783747
Isopropylbenzene	U		0.330	1.00	1	04/24/2015 03:28	WG783747
p-Isopropyltoluene	U		0.350	1.00	1	04/24/2015 03:28	WG783747
2-Butanone (MEK)	U		3.90	10.0	1	04/24/2015 03:28	WG783747
2-Hexanone	U		3.80	10.0	1	04/24/2015 03:28	WG783747
Methylene Chloride	U		1.00	5.00	1	04/24/2015 03:28	WG783747
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/24/2015 03:28	WG783747
Methyl tert-butyl ether	U		0.370	1.00	1	04/24/2015 03:28	WG783747
Naphthalene	U		1.00	5.00	1	04/24/2015 03:28	WG783747
n-Propylbenzene	U		0.350	1.00	1	04/24/2015 03:28	WG783747
Styrene	U		0.310	1.00	1	04/24/2015 03:28	WG783747
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/24/2015 03:28	WG783747
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/24/2015 03:28	WG783747
Tetrachloroethene	U		0.370	1.00	1	04/24/2015 03:28	WG783747
Toluene	U		0.780	5.00	1	04/24/2015 03:28	WG783747
1,1,1-Trichloroethane	U		0.319	1.00	1	04/24/2015 03:28	WG783747
1,1,2-Trichloroethane	U		0.380	1.00	1	04/24/2015 03:28	WG783747
Trichloroethene	U		0.400	1.00	1	04/24/2015 03:28	WG783747
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/24/2015 03:28	WG783747
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/24/2015 03:28	WG783747
Vinyl chloride	U		0.260	1.00	1	04/24/2015 03:28	WG783747
o-Xylene	U		0.340	1.00	1	04/24/2015 03:28	WG783747
m&p-Xylene	U		0.720	1.00	1	04/24/2015 03:28	WG783747
Xylenes, Total	U		1.10	3.00	1	04/24/2015 03:28	WG783747
(S) Toluene-d8	106			88.5-111		04/24/2015 03:28	WG783747
(S) Dibromofluoromethane	106			78.3-121		04/24/2015 03:28	WG783747
(S) 4-Bromofluorobenzene	99.2			71.0-126		04/24/2015 03:28	WG783747

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	55.0	J	25.0	100	1	04/22/2015 04:08	WG783365
(S) o-Terphenyl	110			50.0-150		04/22/2015 04:08	WG783365



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	9300000		2800	10000	1	04/25/2015 11:19	WG783825

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	26.2	J	20.0	100	1	05/01/2015 02:00	WG785026

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	3100000		5200	100000	100	04/29/2015 13:34	WG784716
Fluoride	996		9.90	100	1	04/28/2015 21:34	WG784716
Sulfate	3190000		7700	500000	100	04/29/2015 13:34	WG784716

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	19.4		0.250	2.00	1	04/28/2015 19:59	WG783156
Arsenic,Dissolved	14.1		0.250	2.00	1	04/28/2015 17:25	WG783445
Barium	15.6		0.360	5.00	1	04/28/2015 19:59	WG783156
Barium,Dissolved	14.9		0.360	5.00	1	04/28/2015 17:25	WG783445
Calcium	593000		46.0	1000	1	04/28/2015 19:59	WG783156
Chromium	1.31	J	0.540	2.00	1	04/28/2015 19:59	WG783156
Chromium,Dissolved	0.544	J	0.540	2.00	1	04/28/2015 17:25	WG783445
Iron	996		15.0	100	1	04/28/2015 19:59	WG783156
Iron,Dissolved	U		15.0	100	1	04/28/2015 17:25	WG783445
Lead	0.288	J	0.240	2.00	1	04/28/2015 19:59	WG783156
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 17:25	WG783445
Manganese	1060		0.250	5.00	1	04/28/2015 19:59	WG783156
Manganese,Dissolved	997		0.250	5.00	1	04/28/2015 17:25	WG783445
Potassium	4210		37.0	1000	1	04/28/2015 19:59	WG783156
Selenium	0.570	J	0.380	2.00	1	04/28/2015 19:59	WG783156
Selenium,Dissolved	0.601	J	0.380	2.00	1	04/28/2015 17:25	WG783445
Sodium	2060000		550	5000	5	04/28/2015 22:23	WG783156

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	190	J3	31.0	100	1	04/22/2015 05:05	WG783227
(S) a,a,a-Trifluorotoluene(FID)	92.3			62.0-128		04/22/2015 05:05	WG783227

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	18.4	J	10.0	50.0	1	04/24/2015 03:46	WG783747
Benzene	U		0.330	1.00	1	04/24/2015 03:46	WG783747
Bromodichloromethane	U		0.380	1.00	1	04/24/2015 03:46	WG783747
Bromoform	U		0.470	1.00	1	04/24/2015 03:46	WG783747
Bromomethane	U		0.870	5.00	1	04/24/2015 03:46	WG783747
n-Butylbenzene	U		0.360	1.00	1	04/24/2015 03:46	WG783747
sec-Butylbenzene	U		0.360	1.00	1	04/24/2015 03:46	WG783747
Carbon disulfide	U		0.280	1.00	1	04/24/2015 03:46	WG783747
Carbon tetrachloride	U		0.380	1.00	1	04/24/2015 03:46	WG783747
Chlorobenzene	U		0.350	1.00	1	04/24/2015 03:46	WG783747



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/24/2015 03:46	WG783747
Chloroethane	U		0.450	5.00	1	04/24/2015 03:46	WG783747
Chloroform	U		0.320	5.00	1	04/24/2015 03:46	WG783747
Chloromethane	U		0.280	2.50	1	04/24/2015 03:46	WG783747
1,2-Dibromoethane	U		0.380	1.00	1	04/24/2015 03:46	WG783747
1,1-Dichloroethane	U		0.260	1.00	1	04/24/2015 03:46	WG783747
1,2-Dichloroethane	U		0.360	1.00	1	04/24/2015 03:46	WG783747
1,1-Dichloroethene	U		0.400	1.00	1	04/24/2015 03:46	WG783747
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/24/2015 03:46	WG783747
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/24/2015 03:46	WG783747
1,2-Dichloropropane	U		0.310	1.00	1	04/24/2015 03:46	WG783747
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 03:46	WG783747
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 03:46	WG783747
Ethylbenzene	U		0.380	1.00	1	04/24/2015 03:46	WG783747
Isopropylbenzene	U		0.330	1.00	1	04/24/2015 03:46	WG783747
p-Isopropyltoluene	U		0.350	1.00	1	04/24/2015 03:46	WG783747
2-Butanone (MEK)	U		3.90	10.0	1	04/24/2015 03:46	WG783747
2-Hexanone	U		3.80	10.0	1	04/24/2015 03:46	WG783747
Methylene Chloride	U		1.00	5.00	1	04/24/2015 03:46	WG783747
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/24/2015 03:46	WG783747
Methyl tert-butyl ether	1.85		0.370	1.00	1	04/24/2015 03:46	WG783747
Naphthalene	U		1.00	5.00	1	04/24/2015 03:46	WG783747
n-Propylbenzene	U		0.350	1.00	1	04/24/2015 03:46	WG783747
Styrene	U		0.310	1.00	1	04/24/2015 03:46	WG783747
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/24/2015 03:46	WG783747
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/24/2015 03:46	WG783747
Tetrachloroethene	U		0.370	1.00	1	04/24/2015 03:46	WG783747
Toluene	U		0.780	5.00	1	04/24/2015 03:46	WG783747
1,1,1-Trichloroethane	U		0.319	1.00	1	04/24/2015 03:46	WG783747
1,1,2-Trichloroethane	U		0.380	1.00	1	04/24/2015 03:46	WG783747
Trichloroethene	U		0.400	1.00	1	04/24/2015 03:46	WG783747
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/24/2015 03:46	WG783747
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/24/2015 03:46	WG783747
Vinyl chloride	U		0.260	1.00	1	04/24/2015 03:46	WG783747
o-Xylene	U		0.340	1.00	1	04/24/2015 03:46	WG783747
m&p-Xylene	U		0.720	1.00	1	04/24/2015 03:46	WG783747
Xylenes, Total	U		1.10	3.00	1	04/24/2015 03:46	WG783747
(S) Toluene-d8	105			88.5-111		04/24/2015 03:46	WG783747
(S) Dibromofluoromethane	106			78.3-121		04/24/2015 03:46	WG783747
(S) 4-Bromofluorobenzene	108			71.0-126		04/24/2015 03:46	WG783747

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1200		25.0	100	1	04/22/2015 04:26	WG783365
(S) o-Terphenyl	111			50.0-150		04/22/2015 04:26	WG783365



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	17800000		2800	10000	1	04/27/2015 08:58	WG784339

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	20200		98.0	500	5	05/01/2015 02:01	WG785026

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	3270000		5200	100000	100	04/29/2015 13:49	WG784716
Fluoride	1600		9.90	100	1	04/28/2015 21:49	WG784716
Sulfate	3000000		7700	500000	100	04/29/2015 13:49	WG784716

Metals (ICPMS) by Method 6020

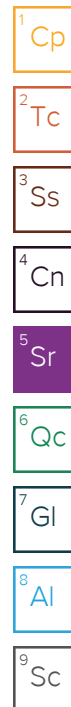
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	34.6		0.250	2.00	1	04/28/2015 20:42	WG783156
Arsenic,Dissolved	25.3		0.250	2.00	1	04/28/2015 17:27	WG783445
Barium	21.5		0.360	5.00	1	04/28/2015 20:42	WG783156
Barium,Dissolved	17.1		0.360	5.00	1	04/28/2015 17:27	WG783445
Calcium	927000		46.0	1000	1	04/28/2015 20:42	WG783156
Chromium	1.98	J	0.540	2.00	1	04/28/2015 20:42	WG783156
Chromium,Dissolved	U		0.540	2.00	1	04/28/2015 17:27	WG783445
Iron	80.6	J	15.0	100	1	04/28/2015 20:42	WG783156
Iron,Dissolved	U		15.0	100	1	04/28/2015 17:27	WG783445
Lead	0.346	J	0.240	2.00	1	04/28/2015 20:42	WG783156
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 17:27	WG783445
Manganese	1850		0.250	5.00	1	04/28/2015 20:42	WG783156
Manganese,Dissolved	1300		0.250	5.00	1	04/28/2015 17:27	WG783445
Potassium	6800		37.0	1000	1	04/28/2015 20:42	WG783156
Selenium	112		0.380	2.00	1	04/28/2015 20:42	WG783156
Selenium,Dissolved	95.5		0.380	2.00	1	04/28/2015 17:27	WG783445
Sodium	1790000		550	5000	5	04/28/2015 22:26	WG783156

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	151	J3	31.0	100	1	04/22/2015 05:27	WG783227
(S) a,a,a-Trifluorotoluene(FID)	92.7			62.0-128		04/22/2015 05:27	WG783227

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	19.1	J	10.0	50.0	1	04/24/2015 04:05	WG783747
Benzene	0.638	J	0.330	1.00	1	04/24/2015 04:05	WG783747
Bromodichloromethane	U		0.380	1.00	1	04/24/2015 04:05	WG783747
Bromoform	U		0.470	1.00	1	04/24/2015 04:05	WG783747
Bromomethane	U		0.870	5.00	1	04/24/2015 04:05	WG783747
n-Butylbenzene	U		0.360	1.00	1	04/24/2015 04:05	WG783747
sec-Butylbenzene	U		0.360	1.00	1	04/24/2015 04:05	WG783747
Carbon disulfide	U		0.280	1.00	1	04/24/2015 04:05	WG783747
Carbon tetrachloride	U		0.380	1.00	1	04/24/2015 04:05	WG783747
Chlorobenzene	U		0.350	1.00	1	04/24/2015 04:05	WG783747





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/24/2015 04:05	WG783747
Chloroethane	U		0.450	5.00	1	04/24/2015 04:05	WG783747
Chloroform	U		0.320	5.00	1	04/24/2015 04:05	WG783747
Chloromethane	U		0.280	2.50	1	04/24/2015 04:05	WG783747
1,2-Dibromoethane	U		0.380	1.00	1	04/24/2015 04:05	WG783747
1,1-Dichloroethane	U		0.260	1.00	1	04/24/2015 04:05	WG783747
1,2-Dichloroethane	U		0.360	1.00	1	04/24/2015 04:05	WG783747
1,1-Dichloroethene	U		0.400	1.00	1	04/24/2015 04:05	WG783747
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/24/2015 04:05	WG783747
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/24/2015 04:05	WG783747
1,2-Dichloropropane	U		0.310	1.00	1	04/24/2015 04:05	WG783747
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 04:05	WG783747
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 04:05	WG783747
Ethylbenzene	U		0.380	1.00	1	04/24/2015 04:05	WG783747
Isopropylbenzene	U		0.330	1.00	1	04/24/2015 04:05	WG783747
p-Isopropyltoluene	U		0.350	1.00	1	04/24/2015 04:05	WG783747
2-Butanone (MEK)	U		3.90	10.0	1	04/24/2015 04:05	WG783747
2-Hexanone	U		3.80	10.0	1	04/24/2015 04:05	WG783747
Methylene Chloride	U		1.00	5.00	1	04/24/2015 04:05	WG783747
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/24/2015 04:05	WG783747
Methyl tert-butyl ether	U		0.370	1.00	1	04/24/2015 04:05	WG783747
Naphthalene	U		1.00	5.00	1	04/24/2015 04:05	WG783747
n-Propylbenzene	U		0.350	1.00	1	04/24/2015 04:05	WG783747
Styrene	U		0.310	1.00	1	04/24/2015 04:05	WG783747
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/24/2015 04:05	WG783747
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/24/2015 04:05	WG783747
Tetrachloroethene	U		0.370	1.00	1	04/24/2015 04:05	WG783747
Toluene	U		0.780	5.00	1	04/24/2015 04:05	WG783747
1,1,1-Trichloroethane	U		0.319	1.00	1	04/24/2015 04:05	WG783747
1,1,2-Trichloroethane	U		0.380	1.00	1	04/24/2015 04:05	WG783747
Trichloroethene	U		0.400	1.00	1	04/24/2015 04:05	WG783747
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/24/2015 04:05	WG783747
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/24/2015 04:05	WG783747
Vinyl chloride	U		0.260	1.00	1	04/24/2015 04:05	WG783747
o-Xylene	U		0.340	1.00	1	04/24/2015 04:05	WG783747
m&p-Xylene	U		0.720	1.00	1	04/24/2015 04:05	WG783747
Xylenes, Total	U		1.10	3.00	1	04/24/2015 04:05	WG783747
(S) Toluene-d8	105			88.5-111		04/24/2015 04:05	WG783747
(S) Dibromofluoromethane	109			78.3-121		04/24/2015 04:05	WG783747
(S) 4-Bromofluorobenzene	108			71.0-126		04/24/2015 04:05	WG783747

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	8600		25.0	100	1	04/22/2015 04:44	WG783365
(S) o-Terphenyl	117			50.0-150		04/22/2015 04:44	WG783365



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	U		2800	10000	1	04/25/2015 11:22	WG783825

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		20.0	100	1	05/01/2015 02:02	WG785026

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	U		52.0	1000	1	04/28/2015 22:04	WG784716
Fluoride	19.7	J P1	9.90	100	1	04/28/2015 22:04	WG784716
Sulfate	323	J P1	77.0	5000	1	04/28/2015 22:04	WG784716

Metals (ICPMS) by Method 6020

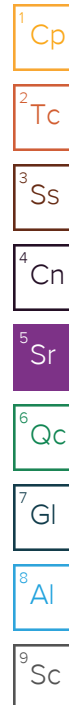
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	U		0.250	2.00	1	04/28/2015 20:44	WG783156
Arsenic,Dissolved	U		0.250	2.00	1	04/28/2015 17:30	WG783445
Barium	U		0.360	5.00	1	04/28/2015 20:44	WG783156
Barium,Dissolved	U		0.360	5.00	1	04/28/2015 17:30	WG783445
Calcium	103	J	46.0	1000	1	04/28/2015 20:44	WG783156
Chromium	0.619	J	0.540	2.00	1	04/28/2015 20:44	WG783156
Chromium,Dissolved	U		0.540	2.00	1	04/28/2015 17:30	WG783445
Iron	20.0	J	15.0	100	1	04/28/2015 20:44	WG783156
Iron,Dissolved	U		15.0	100	1	04/28/2015 17:30	WG783445
Lead	U		0.240	2.00	1	04/28/2015 20:44	WG783156
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 17:30	WG783445
Manganese	0.319	J	0.250	5.00	1	04/28/2015 20:44	WG783156
Manganese,Dissolved	U		0.250	5.00	1	04/28/2015 17:30	WG783445
Potassium	U		37.0	1000	1	04/28/2015 20:44	WG783156
Selenium	U		0.380	2.00	1	04/28/2015 20:44	WG783156
Selenium,Dissolved	U		0.380	2.00	1	04/28/2015 17:30	WG783445
Sodium	640	J	110	1000	1	04/28/2015 20:44	WG783156

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	U	J3	31.0	100	1	04/22/2015 05:49	WG783227
(S) a,a,a-Trifluorotoluene(FID)	92.4			62.0-128		04/22/2015 05:49	WG783227

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/24/2015 04:23	WG783747
Benzene	U		0.330	1.00	1	04/24/2015 04:23	WG783747
Bromodichloromethane	U		0.380	1.00	1	04/24/2015 04:23	WG783747
Bromoform	U		0.470	1.00	1	04/24/2015 04:23	WG783747
Bromomethane	U		0.870	5.00	1	04/24/2015 04:23	WG783747
n-Butylbenzene	U		0.360	1.00	1	04/24/2015 04:23	WG783747
sec-Butylbenzene	U		0.360	1.00	1	04/24/2015 04:23	WG783747
Carbon disulfide	U		0.280	1.00	1	04/24/2015 04:23	WG783747
Carbon tetrachloride	U		0.380	1.00	1	04/24/2015 04:23	WG783747
Chlorobenzene	U		0.350	1.00	1	04/24/2015 04:23	WG783747





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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/24/2015 04:23	WG783747
Chloroethane	U		0.450	5.00	1	04/24/2015 04:23	WG783747
Chloroform	1.15	J	0.320	5.00	1	04/24/2015 04:23	WG783747
Chloromethane	U		0.280	2.50	1	04/24/2015 04:23	WG783747
1,2-Dibromoethane	U		0.380	1.00	1	04/24/2015 04:23	WG783747
1,1-Dichloroethane	U		0.260	1.00	1	04/24/2015 04:23	WG783747
1,2-Dichloroethane	U		0.360	1.00	1	04/24/2015 04:23	WG783747
1,1-Dichloroethene	U		0.400	1.00	1	04/24/2015 04:23	WG783747
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/24/2015 04:23	WG783747
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/24/2015 04:23	WG783747
1,2-Dichloropropane	U		0.310	1.00	1	04/24/2015 04:23	WG783747
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 04:23	WG783747
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 04:23	WG783747
Ethylbenzene	U		0.380	1.00	1	04/24/2015 04:23	WG783747
Isopropylbenzene	U		0.330	1.00	1	04/24/2015 04:23	WG783747
p-Isopropyltoluene	U		0.350	1.00	1	04/24/2015 04:23	WG783747
2-Butanone (MEK)	U		3.90	10.0	1	04/24/2015 04:23	WG783747
2-Hexanone	U		3.80	10.0	1	04/24/2015 04:23	WG783747
Methylene Chloride	U		1.00	5.00	1	04/24/2015 04:23	WG783747
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/24/2015 04:23	WG783747
Methyl tert-butyl ether	U		0.370	1.00	1	04/24/2015 04:23	WG783747
Naphthalene	U		1.00	5.00	1	04/24/2015 04:23	WG783747
n-Propylbenzene	U		0.350	1.00	1	04/24/2015 04:23	WG783747
Styrene	U		0.310	1.00	1	04/24/2015 04:23	WG783747
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/24/2015 04:23	WG783747
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/24/2015 04:23	WG783747
Tetrachloroethene	U		0.370	1.00	1	04/24/2015 04:23	WG783747
Toluene	U		0.780	5.00	1	04/24/2015 04:23	WG783747
1,1,1-Trichloroethane	U		0.319	1.00	1	04/24/2015 04:23	WG783747
1,1,2-Trichloroethane	U		0.380	1.00	1	04/24/2015 04:23	WG783747
Trichloroethene	U		0.400	1.00	1	04/24/2015 04:23	WG783747
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/24/2015 04:23	WG783747
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/24/2015 04:23	WG783747
Vinyl chloride	U		0.260	1.00	1	04/24/2015 04:23	WG783747
o-Xylene	U		0.340	1.00	1	04/24/2015 04:23	WG783747
m&p-Xylene	U		0.720	1.00	1	04/24/2015 04:23	WG783747
Xylenes, Total	U		1.10	3.00	1	04/24/2015 04:23	WG783747
(S) Toluene-d8	106			88.5-111		04/24/2015 04:23	WG783747
(S) Dibromofluoromethane	105			78.3-121		04/24/2015 04:23	WG783747
(S) 4-Bromofluorobenzene	98.4			71.0-126		04/24/2015 04:23	WG783747

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	77.0	J	25.0	100	1	04/22/2015 05:02	WG783365
(S) o-Terphenyl	114			50.0-150		04/22/2015 05:02	WG783365



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	111		10.0	50.0	1	04/23/2015 22:43	WG783747
Benzene	U		0.330	1.00	1	04/23/2015 22:43	WG783747
Bromodichloromethane	U		0.380	1.00	1	04/23/2015 22:43	WG783747
Bromoform	U		0.470	1.00	1	04/23/2015 22:43	WG783747
Bromomethane	U		0.870	5.00	1	04/23/2015 22:43	WG783747
n-Butylbenzene	U		0.360	1.00	1	04/23/2015 22:43	WG783747
sec-Butylbenzene	U		0.360	1.00	1	04/23/2015 22:43	WG783747
Carbon disulfide	U		0.280	1.00	1	04/23/2015 22:43	WG783747
Carbon tetrachloride	U		0.380	1.00	1	04/23/2015 22:43	WG783747
Chlorobenzene	U		0.350	1.00	1	04/23/2015 22:43	WG783747
Chlorodibromomethane	U		0.330	1.00	1	04/23/2015 22:43	WG783747
Chloroethane	U		0.450	5.00	1	04/23/2015 22:43	WG783747
Chloroform	U		0.320	5.00	1	04/23/2015 22:43	WG783747
Chloromethane	U		0.280	2.50	1	04/23/2015 22:43	WG783747
1,2-Dibromoethane	U		0.380	1.00	1	04/23/2015 22:43	WG783747
1,1-Dichloroethane	U		0.260	1.00	1	04/23/2015 22:43	WG783747
1,2-Dichloroethane	U		0.360	1.00	1	04/23/2015 22:43	WG783747
1,1-Dichloroethene	U		0.400	1.00	1	04/23/2015 22:43	WG783747
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/23/2015 22:43	WG783747
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/23/2015 22:43	WG783747
1,2-Dichloropropane	U		0.310	1.00	1	04/23/2015 22:43	WG783747
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/23/2015 22:43	WG783747
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/23/2015 22:43	WG783747
Ethylbenzene	U		0.380	1.00	1	04/23/2015 22:43	WG783747
Isopropylbenzene	U		0.330	1.00	1	04/23/2015 22:43	WG783747
p-Isopropyltoluene	U		0.350	1.00	1	04/23/2015 22:43	WG783747
2-Butanone (MEK)	4.26	U	3.90	10.0	1	04/23/2015 22:43	WG783747
2-Hexanone	U		3.80	10.0	1	04/23/2015 22:43	WG783747
Methylene Chloride	U		1.00	5.00	1	04/23/2015 22:43	WG783747
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/23/2015 22:43	WG783747
Methyl tert-butyl ether	U		0.370	1.00	1	04/23/2015 22:43	WG783747
Naphthalene	U		1.00	5.00	1	04/23/2015 22:43	WG783747
n-Propylbenzene	U		0.350	1.00	1	04/23/2015 22:43	WG783747
Styrene	U		0.310	1.00	1	04/23/2015 22:43	WG783747
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/23/2015 22:43	WG783747
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/23/2015 22:43	WG783747
Tetrachloroethene	U		0.370	1.00	1	04/23/2015 22:43	WG783747
Toluene	U		0.780	5.00	1	04/23/2015 22:43	WG783747
1,1,1-Trichloroethane	U		0.319	1.00	1	04/23/2015 22:43	WG783747
1,1,2-Trichloroethane	U		0.380	1.00	1	04/23/2015 22:43	WG783747
Trichloroethene	U		0.400	1.00	1	04/23/2015 22:43	WG783747
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/23/2015 22:43	WG783747
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/23/2015 22:43	WG783747
Vinyl chloride	U		0.260	1.00	1	04/23/2015 22:43	WG783747
o-Xylene	U		0.340	1.00	1	04/23/2015 22:43	WG783747
m&p-Xylene	U		0.720	1.00	1	04/23/2015 22:43	WG783747
Xylenes, Total	U		1.10	3.00	1	04/23/2015 22:43	WG783747
(S) Toluene-d8	105			88.5-111		04/23/2015 22:43	WG783747
(S) Dibromofluoromethane	105			78.3-121		04/23/2015 22:43	WG783747
(S) 4-Bromofluorobenzene	99.3			71.0-126		04/23/2015 22:43	WG783747

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Dissolved Solids	U		2800	10000	1	04/25/2015 11:20	WG783825

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Nitrate-Nitrite	U		20.0	100	1	05/01/2015 02:04	WG785026

Wet Chemistry by Method 9056MOD

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	U		52.0	1000	1	04/28/2015 22:34	WG784716
Fluoride	14.8	J	9.90	100	1	04/28/2015 22:34	WG784716
Sulfate	U		77.0	5000	1	04/28/2015 22:34	WG784716

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Arsenic	U		0.250	2.00	1	04/28/2015 20:47	WG783156
Arsenic,Dissolved	U		0.250	2.00	1	04/28/2015 17:48	WG783445
Barium	U		0.360	5.00	1	04/28/2015 20:47	WG783156
Barium,Dissolved	U		0.360	5.00	1	04/28/2015 17:48	WG783445
Calcium	68.1	J	46.0	1000	1	04/28/2015 20:47	WG783156
Chromium	U		0.540	2.00	1	04/28/2015 20:47	WG783156
Chromium,Dissolved	U		0.540	2.00	1	04/28/2015 17:48	WG783445
Iron	107		15.0	100	1	04/28/2015 20:47	WG783156
Iron,Dissolved	U		15.0	100	1	04/28/2015 17:48	WG783445
Lead	U		0.240	2.00	1	04/28/2015 20:47	WG783156
Lead,Dissolved	U		0.240	2.00	1	04/28/2015 17:48	WG783445
Manganese	0.630	J	0.250	5.00	1	04/28/2015 20:47	WG783156
Manganese,Dissolved	U		0.250	5.00	1	04/28/2015 17:48	WG783445
Potassium	U		37.0	1000	1	04/28/2015 20:47	WG783156
Selenium	U		0.380	2.00	1	04/28/2015 20:47	WG783156
Selenium,Dissolved	U		0.380	2.00	1	04/28/2015 17:48	WG783445
Sodium	367	J	110	1000	1	04/28/2015 20:47	WG783156

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPH (GC/FID) Low Fraction	U	J3	31.0	100	1	04/22/2015 06:11	WG783227
(S) a,a,a-Trifluorotoluene(FID)	92.2			62.0-128		04/22/2015 06:11	WG783227

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		10.0	50.0	1	04/24/2015 04:41	WG783747
Benzene	U		0.330	1.00	1	04/24/2015 04:41	WG783747
Bromodichloromethane	U		0.380	1.00	1	04/24/2015 04:41	WG783747
Bromoform	U		0.470	1.00	1	04/24/2015 04:41	WG783747
Bromomethane	U		0.870	5.00	1	04/24/2015 04:41	WG783747
n-Butylbenzene	U		0.360	1.00	1	04/24/2015 04:41	WG783747
sec-Butylbenzene	U		0.360	1.00	1	04/24/2015 04:41	WG783747
Carbon disulfide	U		0.280	1.00	1	04/24/2015 04:41	WG783747
Carbon tetrachloride	U		0.380	1.00	1	04/24/2015 04:41	WG783747
Chlorobenzene	U		0.350	1.00	1	04/24/2015 04:41	WG783747



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorodibromomethane	U		0.330	1.00	1	04/24/2015 04:41	WG783747
Chloroethane	U		0.450	5.00	1	04/24/2015 04:41	WG783747
Chloroform	U		0.320	5.00	1	04/24/2015 04:41	WG783747
Chloromethane	U		0.280	2.50	1	04/24/2015 04:41	WG783747
1,2-Dibromoethane	U		0.380	1.00	1	04/24/2015 04:41	WG783747
1,1-Dichloroethane	U		0.260	1.00	1	04/24/2015 04:41	WG783747
1,2-Dichloroethane	U		0.360	1.00	1	04/24/2015 04:41	WG783747
1,1-Dichloroethene	U		0.400	1.00	1	04/24/2015 04:41	WG783747
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/24/2015 04:41	WG783747
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/24/2015 04:41	WG783747
1,2-Dichloropropane	U		0.310	1.00	1	04/24/2015 04:41	WG783747
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 04:41	WG783747
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/24/2015 04:41	WG783747
Ethylbenzene	U		0.380	1.00	1	04/24/2015 04:41	WG783747
Isopropylbenzene	U		0.330	1.00	1	04/24/2015 04:41	WG783747
p-Isopropyltoluene	U		0.350	1.00	1	04/24/2015 04:41	WG783747
2-Butanone (MEK)	U		3.90	10.0	1	04/24/2015 04:41	WG783747
2-Hexanone	U		3.80	10.0	1	04/24/2015 04:41	WG783747
Methylene Chloride	U		1.00	5.00	1	04/24/2015 04:41	WG783747
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/24/2015 04:41	WG783747
Methyl tert-butyl ether	U		0.370	1.00	1	04/24/2015 04:41	WG783747
Naphthalene	U		1.00	5.00	1	04/24/2015 04:41	WG783747
n-Propylbenzene	U		0.350	1.00	1	04/24/2015 04:41	WG783747
Styrene	U		0.310	1.00	1	04/24/2015 04:41	WG783747
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/24/2015 04:41	WG783747
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/24/2015 04:41	WG783747
Tetrachloroethene	U		0.370	1.00	1	04/24/2015 04:41	WG783747
Toluene	U		0.780	5.00	1	04/24/2015 04:41	WG783747
1,1,1-Trichloroethane	U		0.319	1.00	1	04/24/2015 04:41	WG783747
1,1,2-Trichloroethane	U		0.380	1.00	1	04/24/2015 04:41	WG783747
Trichloroethene	U		0.400	1.00	1	04/24/2015 04:41	WG783747
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/24/2015 04:41	WG783747
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/24/2015 04:41	WG783747
Vinyl chloride	U		0.260	1.00	1	04/24/2015 04:41	WG783747
o-Xylene	U		0.340	1.00	1	04/24/2015 04:41	WG783747
m&p-Xylene	U		0.720	1.00	1	04/24/2015 04:41	WG783747
Xylenes, Total	U		1.10	3.00	1	04/24/2015 04:41	WG783747
(S) Toluene-d8	105			88.5-111		04/24/2015 04:41	WG783747
(S) Dibromofluoromethane	107			78.3-121		04/24/2015 04:41	WG783747
(S) 4-Bromofluorobenzene	101			71.0-126		04/24/2015 04:41	WG783747

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 3511/8015

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	38.0	J	25.0	100	1	04/22/2015 05:20	WG783365
(S) o-Terphenyl	108			50.0-150		04/22/2015 05:20	WG783365



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	12.8	J	10.0	50.0	1	04/23/2015 23:02	WG783747
Benzene	U		0.330	1.00	1	04/23/2015 23:02	WG783747
Bromodichloromethane	U		0.380	1.00	1	04/23/2015 23:02	WG783747
Bromoform	U		0.470	1.00	1	04/23/2015 23:02	WG783747
Bromomethane	U		0.870	5.00	1	04/23/2015 23:02	WG783747
n-Butylbenzene	U		0.360	1.00	1	04/23/2015 23:02	WG783747
sec-Butylbenzene	U		0.360	1.00	1	04/23/2015 23:02	WG783747
Carbon disulfide	U		0.280	1.00	1	04/23/2015 23:02	WG783747
Carbon tetrachloride	U		0.380	1.00	1	04/23/2015 23:02	WG783747
Chlorobenzene	U		0.350	1.00	1	04/23/2015 23:02	WG783747
Chlorodibromomethane	U		0.330	1.00	1	04/23/2015 23:02	WG783747
Chloroethane	U		0.450	5.00	1	04/23/2015 23:02	WG783747
Chloroform	U		0.320	5.00	1	04/23/2015 23:02	WG783747
Chloromethane	U		0.280	2.50	1	04/23/2015 23:02	WG783747
1,2-Dibromoethane	U		0.380	1.00	1	04/23/2015 23:02	WG783747
1,1-Dichloroethane	U		0.260	1.00	1	04/23/2015 23:02	WG783747
1,2-Dichloroethane	U		0.360	1.00	1	04/23/2015 23:02	WG783747
1,1-Dichloroethene	U		0.400	1.00	1	04/23/2015 23:02	WG783747
cis-1,2-Dichloroethene	U		0.260	1.00	1	04/23/2015 23:02	WG783747
trans-1,2-Dichloroethene	U		0.400	1.00	1	04/23/2015 23:02	WG783747
1,2-Dichloropropane	U		0.310	1.00	1	04/23/2015 23:02	WG783747
cis-1,3-Dichloropropene	U		0.420	1.00	1	04/23/2015 23:02	WG783747
trans-1,3-Dichloropropene	U		0.420	1.00	1	04/23/2015 23:02	WG783747
Ethylbenzene	U		0.380	1.00	1	04/23/2015 23:02	WG783747
Isopropylbenzene	U		0.330	1.00	1	04/23/2015 23:02	WG783747
p-Isopropyltoluene	U		0.350	1.00	1	04/23/2015 23:02	WG783747
2-Butanone (MEK)	U		3.90	10.0	1	04/23/2015 23:02	WG783747
2-Hexanone	U		3.80	10.0	1	04/23/2015 23:02	WG783747
Methylene Chloride	U		1.00	5.00	1	04/23/2015 23:02	WG783747
4-Methyl-2-pentanone (MIBK)	U		2.10	10.0	1	04/23/2015 23:02	WG783747
Methyl tert-butyl ether	U		0.370	1.00	1	04/23/2015 23:02	WG783747
Naphthalene	U		1.00	5.00	1	04/23/2015 23:02	WG783747
n-Propylbenzene	U		0.350	1.00	1	04/23/2015 23:02	WG783747
Styrene	U		0.310	1.00	1	04/23/2015 23:02	WG783747
1,1,1,2-Tetrachloroethane	U		0.380	1.00	1	04/23/2015 23:02	WG783747
1,1,2,2-Tetrachloroethane	U		0.130	1.00	1	04/23/2015 23:02	WG783747
Tetrachloroethene	U		0.370	1.00	1	04/23/2015 23:02	WG783747
Toluene	U		0.780	5.00	1	04/23/2015 23:02	WG783747
1,1,1-Trichloroethane	U		0.319	1.00	1	04/23/2015 23:02	WG783747
1,1,2-Trichloroethane	U		0.380	1.00	1	04/23/2015 23:02	WG783747
Trichloroethene	U		0.400	1.00	1	04/23/2015 23:02	WG783747
1,2,4-Trimethylbenzene	U		0.370	1.00	1	04/23/2015 23:02	WG783747
1,3,5-Trimethylbenzene	U		0.390	1.00	1	04/23/2015 23:02	WG783747
Vinyl chloride	U		0.260	1.00	1	04/23/2015 23:02	WG783747
o-Xylene	U		0.340	1.00	1	04/23/2015 23:02	WG783747
m&p-Xylene	U		0.720	1.00	1	04/23/2015 23:02	WG783747
Xylenes, Total	U		1.10	3.00	1	04/23/2015 23:02	WG783747
(S) Toluene-d8	106			88.5-111		04/23/2015 23:02	WG783747
(S) Dibromofluoromethane	105			78.3-121		04/23/2015 23:02	WG783747
(S) 4-Bromofluorobenzene	100			71.0-126		04/23/2015 23:02	WG783747

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc