Flietner, Barbara J - DNR

From: Erica Klingfus <eklingfus@msa-ps.com>
Sent: Friday, December 13, 2019 12:02 PM
To: Flietner, Barbara J - DNR
Cc: Shafel, Kathleen S - DNR; Jayne Englebert
Subject: RE: Webster VOC 02-07-000337
Attachments: 17644000 November 2019 Groundwater Analytical Results.pdf; 17644000 Analytical Data Table 2019.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Yes, these sampling results were recently received. Please see the attached lab report and table. Feel free to contact me with any questions.

From: Flietner, Barbara J - DNR <Barbara.Flietner@wisconsin.gov>
Sent: Friday, December 13, 2019 11:43 AM
To: Erica Klingfus <eklingfus@msa-ps.com>
Cc: Shafel, Kathleen S - DNR <Kathleen.Shafel@wisconsin.gov>
Subject: Webster VOC 02-07-000337

Hello Erica,

I had noted in your Sept 25, 2019 letter that you were planning on conducting another quarterly round of groundwater samples in October 2019. Were those samples collected? If so, can you please send an updated table and I will complete review and get back to you on this site. Thank you!

Barb

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Barbara J. Flietner, P.G., C.P.G.
Hydrogeologist
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
875 4th Ave. South
Park Falls, WI 54552
Phone: (715) 762-1351
Barbara.Flietner@Wisconsin.gov

dnr.wi.gov

Attachment A.1. Groundwater Analytical Table
Webster Quik Wash
BRRTS# 02-07-000337

	Acetone	Benzene	sec-Butyl benzene	2-Butanone (MEK)	Chloroform	Chloromethane	Ethylbenzene	Dichlorodifluoromethane	1,2-Dichlorobenzene	cis-1,2-Dichloroethene	1,2-Dichloroethane	Naphthalene	Tetrachloroethene	Toluene	Trichloroethene	Xylenes	Groundwater Elevation
NR 140 ES	**9000**	**5**	**NS**	**4000**	**6**	**30**	**700**	**1000**	**600**	**70**	**5**	**100**	**5**	**800**	**5**	**2000**	
NR 140 PAL	*1800*	*0.5*	*NS*	*800*	*0.6*	*3*	*140*	*200*	*60*	*7*	*0.5*	*10*	*0.5*	*160*	*0.5*	*400*	
	Groundwater Concentrations in ug/l (or ppb)																
91-1																	
9/17/1991		<0.2							<1.0		<0.5		<0.5	<0.5	<0.2		947.23
10/14/1991		0.6					<1.0		<1.0		<0.5		<0.5	1.0	<0.2	<1.0	947.39
5/5/2004		<0.20	<0.25		<0.20		<0.50		<0.20	<0.50		<0.25	<0.50	<0.20	<0.20	<0.50	
8/12/2004		<0.20	<0.25		<0.20		<0.50		<0.20	<0.50		<0.25	<0.50	<0.20	<0.20	<0.50	
6/22/2005		<0.31	<0.4		<0.2		<0.5		<0.60	<0.4		<0.8	<0.45	<0.3	<0.5	<0.62	949.04
6/21/2006		<0.31	<0.4		<0.2		<0.5		<0.60	<0.4		<0.8	<0.71	<0.3	<0.5	<0.62	949.56
6/12/2007		<0.20	<0.20		<0.20		<0.10		<0.80	<0.20		<1.0	<0.30	<0.40	<0.20	<0.40	948.21
7/5/2016	1.3 J	<0.042		<1.1	<0.21	<0.080		<0.075			0.13 J	<0.064	<0.13	<0.059	<0.051		950.78
10/3/2016	<2.0	<0.16		<1.1	<0.21	<0.25		<0.23			<0.17	<0.20	<0.25	<0.14	<0.052		951.35
9/26/2017	<8.8	<0.34	<0.12	<2.4	<0.46	<1.1	<0.14	<0.31	<0.21	<0.20	<0.32	<0.42	<0.16	<0.17	<0.18	<0.24	951.75
12/13/2017	<3.0	<0.50	<2.2	<3.0	<2.5	<0.50	<0.50	<0.22	<0.50	<0.26		<2.5	<0.50	<0.50	<0.33	<1.50	951.76
91-2A																	
9/17/1991		<0.2							<1.0		<0.5		<0.5	<0.5	<0.2		947.44
10/14/1991		0.5					<1.0		<1.0		<0.5		<0.5	0.9	<0.2	<1.0	947.56
5/5/2004		<0.20	<0.25		<0.20		<0.50		<0.20	<0.50		<0.25	*1.4*	<0.20	<0.20	<0.50	
8/12/2004		<0.20	<0.25		<0.20		<0.50		<0.20	<0.50		<0.25	<0.50	<0.20	<0.20	<0.50	
6/22/2005		<0.31	<0.4		<0.2		<0.5		<0.60	<0.4		<0.8	*0.711*	<0.3	<0.5	<0.62	948.57
6/21/2006		<0.31	<0.4		<0.2		<0.5		<0.60	<0.4		<0.8	*1.19*	ND	ND	<0.62	949.09
6/12/2007		<0.20	<0.20		<0.20		<0.10		<0.80	<0.20		<1.0	*1.78*	<0.40	<0.20	<0.40	947.80
7/5/2016	1.9 J	<0.042		<1.1	<0.21	0.18 J		<0.075			0.15 J	<0.064	0.30 J	<0.059	<0.051		950.31
10/3/2016	<2.0	<0.16		<1.1	<0.21	<0.25		<0.23			<0.17	<0.20	0.38 J	<0.14	<0.052		950.88
9/26/2017	<8.8	<0.34	<0.12	<2.4	<0.46	<1.1	<0.14	<0.31	<0.21	<0.20	<0.32	<0.42	<0.16	<0.17	<0.18	<0.24	951.26
12/13/2017	<3.0	<0.50	<2.2	<3.0	<2.5	<0.50	<0.50	<0.22	<0.50	<0.26		<2.5	<0.50	<0.50	<0.33	<1.50	951.24
91-2B																	
9/17/1991		0.5							1.4		<0.5		**112.0**	<0.5	**6.1**		947.42
10/14/1991		<0.2					<1.0		1.4		<0.5		**105.0**	<0.5	**7.2**	<1.0	947.55
5/5/2004		0.2	0.85	0.85	<0.20		<0.50		0.24	0.86		<0.25	**8.7**	<0.20	0.47	0.47	
8/12/2004		0.29	0.91	0.91	<0.20		<0.50		0.27	0.67		<0.28	**7.6**	<0.20	*0.52*	0.52	
6/22/2005		0.377	1.6	1.6	<0.2		<0.5		<0.60	<0.4		<0.8	**5.57**	<0.3	<0.5	<0.5	949.75
6/21/2006		<0.31	<0.4		<0.2		<0.5		<0.60	<0.4		<0.8	*3.43*	<0.3	<0.5	<0.5	950.26
6/12/2007		0.38	<0.20		<0.20		<0.10		<0.80	<0.20		<1.0	*3.71*	<0.40	0.92	0.92	948.98
7/5/2016	2.4 J	<0.042		<1.1	<0.21	<0.080		<0.075			0.093 J	<0.064	*1.5*	<0.059	<0.051		951.47
10/3/2016	<2.0	<0.16		<1.1	<0.21	<0.25		<0.23			<0.17	<0.20	*1.1*	<0.14	<0.052		952.07
9/26/2017	<8.8	<0.34	<0.12	<2.4	<0.46	<1.1	<0.14	<0.31	<0.21	<0.20	<0.32	<0.42	*1.1*	<0.17	<0.18	<0.24	952.43
12/13/2017	<3.0	<0.50	<2.2	<3.0	<2.5	<0.50	<0.50	<0.22	<0.50	<0.26		<2.5	<0.50	<0.50	<0.33	<1.50	952.45

Attachment A.1. Groundwater Analytical Table
Webster Quik Wash
BRRTS# 02-07-000337

	Acetone	Benzene	sec-Butyl benzene	2-Butanone (MEK)	Chloroform	Chloromethane	Ethylbenzene	Dichlorodifluoromethane	1,2-Dichlorobenzene	cis-1,2-Dichloroethene	1,2-Dichloroethane	Naphthalene	Tetrachloroethene	Toluene	Trichloroethene	Xylenes	Groundwater Elevation
NR 140 ES	**9000**	**5**	**NS**	**4000**	**6**	**30**	**700**	**1000**	**600**	**70**	**5**	**100**	**5**	**800**	**5**	**2000**	
NR 140 PAL	*1800*	*0.5*	*NS*	*800*	*0.6*	*3*	*140*	*200*	*60*	*7*	*0.5*	*10*	*0.5*	*160*	*0.5*	*400*	
	Groundwater Concentrations in ug/l (or ppb)																
91-5A																	
9/17/1991		<0.2							<1.0		<0.5		**8**	<0.5	<0.2		947.82
10/14/1991		0.4					<1.0		<1.0		<0.5		**5.1**	0.8	<0.2	<1.0	947.93
5/5/2004		<0.20	<0.25		<0.20		<0.50		<0.20	<0.50		<0.25	*1.8*	<0.20	<0.20	<0.50	
8/12/2004		<0.20	<0.25		<0.20		<0.50		<0.20	<0.50		<0.25	*1*	<0.20	<0.20	<0.50	
6/22/2005		<0.31	<0.4		<0.2		<0.5		<0.60	<0.4		<0.8	<0.45	<0.3	<0.5	<0.62	949.51
6/21/2006		<0.31	<0.4		<0.2		<0.5		<0.60	<0.4		<0.8	<0.71	<0.3	<0.5	<0.62	950.17
6/12/2007		<0.20	<0.20		<0.20		<0.10		<0.80	<0.20		<1.0	*1.15*	<0.40	<0.20	<0.40	948.96
7/5/2016	<0.64	<0.042		<1.1	<0.21	<0.080		<0.075			0.12 J	<0.064	*2.5*	<0.059	<0.051		951.33
10/3/2016	<2.0	<0.16		<1.1	<0.21	<0.25		<0.23			<0.17	<0.20	*1.8*	<0.14	<0.052		951.91
9/26/2017	<8.8	<0.34	<0.12	<2.4	<0.46	<1.1	<0.14	<0.31	<0.21	<0.20	<0.32	<0.42	*2.3*	<0.17	<0.18	<0.24	952.21
12/13/2017	<3.0	<0.50	<2.2	<3.0	<2.5	<0.50	<0.50	<0.22	<0.50	<0.26		<2.5	*2*	<0.50	<0.33	<1.50	952.24
8/21/2019	<50.0	<1.00	<1.00	<10.0	<5.00	<2.50	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<3.00	
11/25/2019	<33.3	<1.10	<1.22	<13.1	<1.08	<0.920	<1.28	<1.84	<0.733	<0.867	<1.20	<3.33	<1.24	<1.37	<1.33	<3.00	
91-5B																	
9/17/1991		<0.2							<1.0		<0.5		<0.5	<0.5	<0.2		947.81
10/14/1991		0.4					<1.0		<1.0		*0.8*		<0.5	<0.5	<0.2	<1.0	947.93
5/5/2004		<0.20	<0.25		<0.20		<0.50		<0.20	<0.50		<0.25	<0.50	<0.20	<0.20	<0.50	
8/12/2004		<0.20	<0.25		<0.20		<0.50		<0.20	<0.50		<0.25	<0.50	<0.20	<0.20	<0.50	
6/22/2005		<0.31	<0.4		<0.2		<0.5		<0.60	<0.5		<0.8	0.678	<0.3	<0.5	<0.62	949.53
6/21/2006		<0.31	<0.4		<0.2		<0.5		<0.60	<0.5		<0.8	0.91	<0.3	<0.5	<0.62	950.14
6/12/2007		<0.20	<0.20		<0.20		<0.10		<0.80	<0.10		<1.0	<0.30	<0.40	<0.20	<0.40	948.90
7/5/2016	<0.64	<0.042		<1.1	<0.21	<0.080		<0.075			0.19 J	<0.064	<0.13	<0.059	<0.051		951.25
10/3/2016	<2.0	<0.16		<1.1	<0.21	<0.25		<0.23			<0.17	<0.20	<0.25	<0.14	<0.052		951.85
9/26/2017	<8.8	<0.34	<0.12	<2.4	<0.46	<1.1	<0.14	<0.31	<0.21	<0.20	<0.32	<0.42	<0.16	<0.17	<0.18	<0.24	952.18
12/13/2017	<3.0	<0.50	<2.2	<3.0	<2.5	<0.50	<0.50	<0.22	<0.50	<0.26		<2.5	<0.50	<0.50	<0.33	<1.50	952.22
91-6																	
9/17/1991		<0.2							<1.0		<0.5		**31.8**	<0.5	0.4		948.09
10/14/1991		0.3					<1.0		<1.0		*<0.5*		**32.0**	<0.5	*0.7*	<1.0	948.20
5/5/2004		<0.20	<0.25		<0.20		<0.50		<0.20	<0.50		<0.25	**86**	<0.20	0.23	<0.50	
8/12/2004		<0.20	<0.25		<0.20		<0.50		<0.20	<0.50		<0.25	**95**	<0.20	0.3	<0.50	
6/22/2005		<0.31	<0.4		<0.2		<0.5		<0.60	<0.4		<0.8	**38.9**	<0.3	<0.5	<0.62	949.75
6/21/2006		*<1.55*	<2.0		<1.0		<2.5		<3.0	<2.0		<4.0	**42.7**	<1.5	*<2.5*	<3.1	950.18
6/12/2007		*<1.0*	<1.0		<1.0		<0.5		<4.0	<1.0		<5.0	**48.8**	<2.0	*<1.0*	<2.0	948.99
7/6/2016	<0.64	<0.042		<1.1	<0.21	<0.080		<0.075			0.12 J	<0.064	**55.2**	<0.059	*0.77*		951.36
10/3/2016	<2.0	<0.16		<1.1	<0.21	<0.25		<0.23			<0.17	<0.20	**38.4**	<0.14	*0.54*		951.88
9/26/2017	<8.8	<0.34	<0.12	<2.4	<0.46	<1.1	<0.14	<0.31	<0.21	<0.20	<0.32	<0.42	**45.7**	<0.17	*0.72*	<0.24	953.19
12/13/2017	<3.0	<0.50	<2.2	<3.0	<2.5	<0.50	<0.50	<0.22	<0.50	<0.26		<2.5	**17**	<0.50	<0.33	<1.50	952.21
7/16/2019	<50.0	<1.00	<1.00	<10.0	<5.00	<2.50	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	*2.87*	3.31	<1.00	<3.00	
11/25/2019	<33.3	<1.10	<1.22	<13.1	<1.08	<0.920	<1.28	<1.84	<0.733	<0.867	<1.20	<3.33	<1.24	<1.37	<1.33	<3.00	

Attachment A.1. Groundwater Analytical Table
Webster Quik Wash
BRRTS# 02-07-000337

	Acetone	Benzene	sec-Butyl benzene	2-Butanone (MEK)	Chloroform	Chloromethane	Ethylbenzene	Dichlorodifluoromethane	1,2-Dichlorobenzene	cis-1,2-Dichloroethene	1,2-Dichloroethane	Naphthalene	Tetrachloroethene	Toluene	Trichloroethene	Xylenes	Groundwater Elevation
NR 140 ES	**9000**	**5**	**NS**	**4000**	**6**	**30**	**700**	**1000**	**600**	**70**	**5**	**100**	**5**	**800**	**5**	**2000**	
NR 140 PAL	*1800*	*0.5*	*NS*	*800*	*0.6*	*3*	*140*	*200*	*60*	*7*	*0.5*	*10*	*0.5*	*160*	*0.5*	*400*	
	Groundwater Concentrations in ug/l (or ppb)																
91-7																	
9/17/1991		<0.2							<1.0		<0.5		<0.5	<0.5	<0.2		948.05
10/14/1991		<0.2					<1.0		<1.0		<0.5		*0.6*	<0.5	<0.2	<1.0	948.08
5/5/2004		<0.20	<0.25		<0.20		<0.50		<0.20	<0.50		<0.25	<0.50	<0.20	<0.20	<0.50	
8/12/2004		<0.20	<0.25		<0.20		<0.50		<0.20	<0.50		<0.25	<0.50	<0.20	<0.20	<0.50	
6/22/2005		<0.31	<0.4		<0.2		<0.5		<0.60	<0.4		<0.8	<0.45	<0.3	<0.5	<0.62	949.70
6/21/2006		<0.31	<0.4		<0.2		<0.5		<0.60	<0.4		<0.8	*<0.71*	<0.3	<0.5	<0.62	950.11
6/12/2007		<0.20	<0.20		<0.20		<0.10		<0.80	<0.20		<1.0	<0.30	<0.40	<0.20	<0.40	948.91
7/6/2016	2.8 J	<0.042		<1.1	<0.21	<0.080		<0.075			<0.072	<0.064	*1.6*	<0.059	<0.051		951.32
10/3/2016	<2.0	<0.16		<1.1	<0.21	<0.25		<0.23			<0.17	<0.20	<0.25	<0.14	<0.052		951.84
9/26/2017	<8.8	<0.34	<0.12	<2.4	<0.46	<1.1	<0.14	<0.31	<0.21	<0.20	<0.32	<0.42	<0.16	<0.17	<0.18	<0.24	952.15
12/13/2017	<3.0	<0.50	<2.2	<3.0	<2.5	<0.50	<0.50	<0.22	<0.50	<0.26		<2.5	<0.50	<0.50	<0.33	<1.50	952.18
7/16/2019	<50.0	<1.00	<1.00	<10.0	<5.00	<2.50	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<3.00	
OW-1																	
8/4/1986		*0.5*									<0.3		*0.6*	<0.1	<0.1		
9/23/1986		<0.2									<0.3		*3.3*	<0.1	<0.1		
9/17/1991		<0.2							<1.0		<0.5		**13.8**	<0.5	<0.2		947.25
10/14/1991		*1.1*					3.3		<1.0		*<0.5*		**9.4**	0.5	<0.2	1.1	947.43
5/5/2004		<0.20	<0.25		*1.5*		<0.50		<0.20	<0.50		<0.25	<0.50	<0.20	<0.20	<0.50	
8/12/2004		<0.20	<0.25		*0.69*		<0.50		<0.20	<0.50		<0.25	<0.50	<0.20	<0.20	<0.50	
6/22/2005		<0.31	<0.4		<0.2		<0.5		<0.60	<0.4		<0.8	<0.45	<0.3	<0.5	<0.62	949.22
6/21/2006		<0.31	<0.4		<0.2		<0.5		<0.60	<0.4		<0.8	<0.71	<0.3	<0.5	<0.62	949.86
6/12/2007		<0.20	<0.20		<0.20		<0.10		<0.80	<0.20		<1.0	<0.30	<0.40	<0.20	<0.40	948.48
7/6/2016	<0.64	<0.042		<1.1	<0.21	<0.080		<0.075			0.14 J	<0.064	<0.13	<0.059	<0.051		951.01
10/3/2016	<2.0	<0.16		<1.1	<0.21	<0.25		<0.23			<0.17	<0.20	<0.25	<0.14	<0.052		951.69
9/26/2017	<8.8	<0.34	<0.12	<2.4	<0.46	<1.1	<0.14	<0.31	<0.21	<0.20	<0.32	<0.42	<0.16	<0.17	<0.18	<0.24	952.02
12/13/2017	<3.0	<0.50	<2.2	<3.0	<2.5	<0.50	<0.50	<0.22	<0.50	<0.26		<2.5	<0.50	<0.50	<0.33	<1.50	952.07
OW-2																	
9/23/1986		<0.2									<0.3		*0.7*	<0.1	<0.1		
9/17/1991		<0.2							<1.0		*4.3*		*2.3*	<0.5	<0.2		947.25
10/14/1991		0.2					<1.0		<1.0				*1.2*	<0.5	<0.2	<1.0	947.20
5/5/2004		<0.20	<0.25		<0.20		<0.50		*<0.20*	<0.50		*<0.25*	<0.5	<0.20	<0.20	<0.50	
8/12/2004		<0.20	<0.25		<0.20		<0.50		*<0.20*	<0.50		*<0.25*	<0.5	<0.20	<0.20	<0.50	
6/22/2005		<0.31	<0.4		<0.2		<0.5		*<0.60*	<0.4		*<0.8*	<0.45	<0.3	<0.5	<0.62	949.24
6/21/2006		<0.31	<0.4		<0.2		<0.5		*<0.60*	<0.4		*<0.8*	<0.71	<0.3	<0.5	<0.62	949.84
6/12/2007		<0.20	<0.20		<0.20		<0.10		*<0.80*	<0.20		*<1.0*	<0.30	<0.40	<0.20	<0.40	948.47
7/6/2016	<0.64	<0.042		<1.1	<0.21	<0.080		<0.075			0.085 J	<0.064	<0.13	<0.059	<0.051		950.94
10/3/2016	<2.0	<0.16		<1.1	<0.21	<0.25		<0.23			<0.17	<0.20	<0.25	<0.14	<0.052		951.70
9/26/2017	<8.8	<0.34	<0.12	<2.4	<0.46	<1.1	<0.14	<0.31	<0.21	<0.20	<0.32	<0.42	<0.16	<0.17	<0.18	<0.24	952.04
12/13/2017	<3.0	<0.50	<2.2	<3.0	<2.5	<0.50	<0.50	<0.22	<0.50	<0.26		<2.5	<0.50	<0.50	<0.33	<1.50	952.07

Attachment A.1. Groundwater Analytical Table
Webster Quik Wash
BRRTS# 02-07-000337

	Acetone	Benzene	sec-Butyl benzene	2-Butanone (MEK)	Chloroform	Chloromethane	Ethylbenzene	Dichlorodifluoromethane	1,2-Dichlorobenzene	cis-1,2-Dichloroethene	1,2-Dichloroethane	Naphthalene	Tetrachloroethene	Toluene	Trichloroethene	Xylenes	Groundwater Elevation
NR 140 ES	**9000**	**5**	**NS**	**4000**	**6**	**30**	**700**	**1000**	**600**	**70**	**5**	**100**	**5**	**800**	**5**	**2000**	
NR 140 PAL	*1800*	*0.5*	*NS*	*800*	*0.6*	*3*	*140*	*200*	*60*	*7*	*0.5*	*10*	*0.5*	*160*	*0.5*	*400*	
	Groundwater Concentrations in ug/l (or ppb)																
Soil Boring Groundwater Samples																	
GP-1																	
7/5/2016	7.2 J	0.094 J		1.3 J	0.33 J	<0.080		0.21 J			0.15 J	0.14 J	**19**	0.13 J	0.28 J		
GP-5																	
7/15/2019	<50.0	<1.00	<1.00	<10.0	<5.00	<2.50	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	**19.9**	<1.00	<1.00	<3.00	
GP-6																	
7/15/2019	<50.0	<1.00	<1.00	<10.0	<5.00	<2.50	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	**15.2**	<1.00	<1.00	<3.00	
GP-7																	
7/15/2019	<50.0	<1.00	<1.00	<10.0	<5.00	<2.50	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	**7.06**	<1.00	<1.00	<3.00	
GP-8																	
7/15/2019	<50.0	<1.00	<1.00	<10.0	<5.00	<2.50	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	**50.2**	<1.00	*1.54*	<3.00	
GP-9																	
7/16/2019	<50.0	<1.00	<1.00	<10.0	<5.00	<2.50	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	*1.52*	<1.00	<1.00	<3.00	
GP-10-30																	
7/16/2019	<50.0	<1.00	<1.00	<10.0	<5.00	<2.50	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	**28.6**	<1.00	<1.00	<3.00	
GP-10-60																	
7/16/2019	<50.0	<1.00	<1.00	<10.0	<5.00	<2.50	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	<3.00	
GP-11-30																	
7/16/2019	<50.0	<1.00	<1.00	<10.0	<5.00	<2.50	<1.00	<5.00	<1.00	2.71	<1.00	<5.00	**17.5**	<1.00	*1.15*	<3.00	
GP-11-60																	
7/16/2019	<50.0	<1.00	<1.00	<10.0	<5.00	<2.50	<1.00	<5.00	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00	<1.00	3.96	
GP-12																	
7/16/2019	<250	**35.5**	6.94	<50.0	<25.0	<12.5	**992**	<25.0	<5.00	<5.00	<5.00	**329**	<5.00	**1540**	<5.00	**5420**	
Rob's Amoco Wells																	
RMW-1																	
12/3/1997		<0.010					<0.25				<0.25	<0.10	<0.25	<0.10		<0.25	
RMW-2																	
12/3/1997		<0.010					<0.25				<0.25	<0.10	*2.5*	<0.10		<0.25	
RMW-3																	
12/3/1997		<0.010					<0.25				<0.25	<0.10	<0.25	<0.10		<0.25	
RMW-4																	
12/3/1997		<0.010					<0.25				<0.25	<0.10	*3.2*	<0.10		<0.25	
RMW-5																	
12/3/1997		<0.010					<0.25				<0.25	<0.10	<0.25	<0.10		<0.25	
RMW-10																	
5/6/1998		<0.010					5.8				<0.25	5.1	*3.1*	0.15		4.1	

Exceedance Highlights:
BOLD font indicates NR 140 Enforcement Standard (ES) exceedance.
Italic font indicates NR 140 Preventative Action Limit (PAL) exceedance.
BTEX and other VOC compounds detected in at least one sample are included in table. See laboratory report for all results.
NS: No published standard.

Table Notes:
<: Indicates the analyte was not detected above the Laboratory Limit of Quantitation.
*: Indicates total xylenes (m-,o-,p- combined) and total trimethylbenzenes (1,2,4- and 1,3,5- combined).
Blanks indicate contaminant was not analyzed.
J: Laboratory qualifer indicating the estimated concentration at or above the Limit of Detection and below the Limit of Quantitation.

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

December 09, 2019

MSA Professional Services

Sample Delivery Group:	L1165020
Samples Received:	11/26/2019
Project Number:	17644000
Description:	Webster Quick Wash

Report To: Erica Klingfus
332 W. Superior Street, Suite 600
Duluth, MN 55802

Entire Report Reviewed By: John V Hawkins

John Hawkins
Project Manager

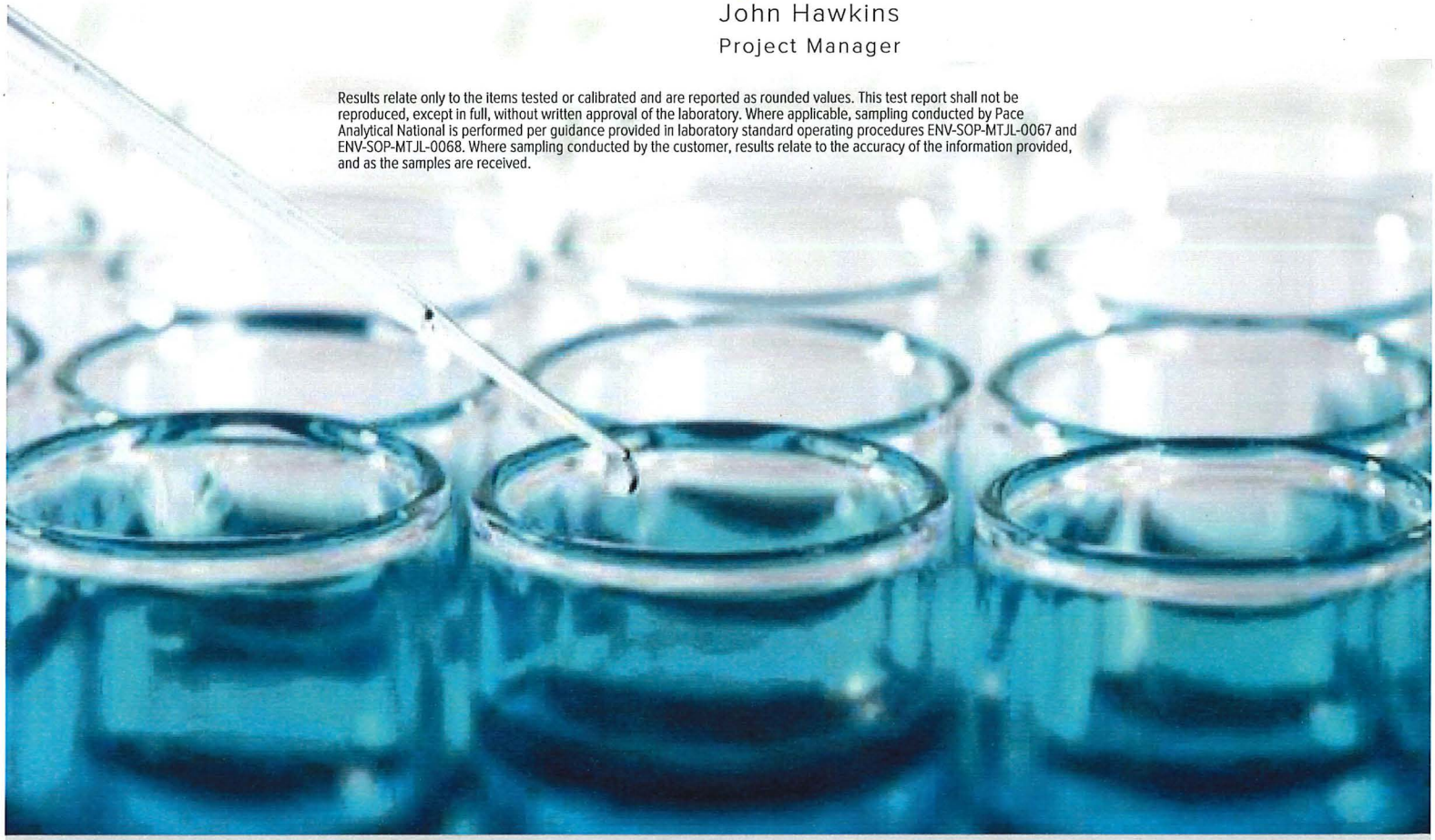


TABLE OF CONTENTS

ONE LAB. NATIONWIDE.

Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 4

Sr: Sample Results 5

91-6 L1165020-01 5

91-5A L1165020-02 7

Qc: Quality Control Summary 9

Volatile Organic Compounds (GC/MS) by Method 8260B 9

Gl: Glossary of Terms 15

Al: Accreditations & Locations 16

Sc: Sample Chain of Custody 17

91-6 L1165020-01 GW

Collected by: Paul Butler | Collected date/time: 11/25/19 11:25 | Received date/time: 11/26/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1391198	1	12/04/19 19:06	12/04/19 19:06	BMB	Mt. Juliet, TN

91-5A L1165020-02 GW

Collected by: Paul Butler | Collected date/time: 11/25/19 12:15 | Received date/time: 11/26/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1391198	1	12/04/19 19:25	12/04/19 19:25	BMB	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

John V Hawkins

John Hawkins
Project Manager

Report Revision History

Version 1: 12/05/19 10:49 AM

Sample Delivery Group (SDG) Narrative

2-Chloroethyl vinyl ether degrades under acidic conditions. Associated results were determined from the analysis of an acid-preserved sample.

Lab Sample ID	Project Sample ID	Method
L1165020-01	91-6	8260B
L1165020-02	91-5A	8260B

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		33.3	1	12/04/2019 19:06	WG1391198
Acrolein	ND		29.6	1	12/04/2019 19:06	WG1391198
Acrylonitrile	ND		6.23	1	12/04/2019 19:06	WG1391198
Allyl chloride	ND		5.67	1	12/04/2019 19:06	WG1391198
Benzene	ND		1.10	1	12/04/2019 19:06	WG1391198
Bromobenzene	ND		1.17	1	12/04/2019 19:06	WG1391198
Bromodichloromethane	ND		1.27	1	12/04/2019 19:06	WG1391198
Bromoform	ND		1.56	1	12/04/2019 19:06	WG1391198
Bromomethane	ND		2.89	1	12/04/2019 19:06	WG1391198
n-Butylbenzene	ND		1.20	1	12/04/2019 19:06	WG1391198
sec-Butylbenzene	ND		1.22	1	12/04/2019 19:06	WG1391198
tert-Butylbenzene	ND		1.33	1	12/04/2019 19:06	WG1391198
Carbon tetrachloride	ND		1.26	1	12/04/2019 19:06	WG1391198
Chlorobenzene	ND		1.16	1	12/04/2019 19:06	WG1391198
Chlorodibromomethane	ND		1.09	1	12/04/2019 19:06	WG1391198
Chloroethane	ND		1.51	1	12/04/2019 19:06	WG1391198
2-Chloroethyl vinyl ether	ND		10.0	1	12/04/2019 19:06	WG1391198
Chloroform	ND		1.08	1	12/04/2019 19:06	WG1391198
Chloromethane	ND		0.920	1	12/04/2019 19:06	WG1391198
2-Chlorotoluene	ND		1.25	1	12/04/2019 19:06	WG1391198
4-Chlorotoluene	ND		1.17	1	12/04/2019 19:06	WG1391198
1,2-Dibromo-3-Chloropropane	ND		4.43	1	12/04/2019 19:06	WG1391198
1,2-Dibromoethane	ND		1.27	1	12/04/2019 19:06	WG1391198
Dibromomethane	ND		1.15	1	12/04/2019 19:06	WG1391198
1,2-Dichlorobenzene	ND		1.16	1	12/04/2019 19:06	WG1391198
1,3-Dichlorobenzene	ND		0.733	1	12/04/2019 19:06	WG1391198
1,4-Dichlorobenzene	ND		0.913	1	12/04/2019 19:06	WG1391198
Dichlorodifluoromethane	ND		1.84	1	12/04/2019 19:06	WG1391198
Dichlorofluoromethane	ND		1.01	1	12/04/2019 19:06	WG1391198
1,1-Dichloroethane	ND		0.863	1	12/04/2019 19:06	WG1391198
1,2-Dichloroethane	ND		1.20	1	12/04/2019 19:06	WG1391198
1,1-Dichloroethene	ND		1.33	1	12/04/2019 19:06	WG1391198
cis-1,2-Dichloroethene	ND		0.867	1	12/04/2019 19:06	WG1391198
trans-1,2-Dichloroethene	ND		1.32	1	12/04/2019 19:06	WG1391198
1,2-Dichloropropane	ND		1.02	1	12/04/2019 19:06	WG1391198
1,1-Dichloropropene	ND		1.17	1	12/04/2019 19:06	WG1391198
1,3-Dichloropropane	ND		1.22	1	12/04/2019 19:06	WG1391198
cis-1,3-Dichloropropene	ND		1.39	1	12/04/2019 19:06	WG1391198
trans-1,3-Dichloropropene	ND		1.40	1	12/04/2019 19:06	WG1391198
2,2-Dichloropropane	ND		1.07	1	12/04/2019 19:06	WG1391198
Di-isopropyl ether	ND		1.07	1	12/04/2019 19:06	WG1391198
Ethylbenzene	ND		1.28	1	12/04/2019 19:06	WG1391198
Ethyl ether	ND		1.30	1	12/04/2019 19:06	WG1391198
Hexachloro-1,3-butadiene	ND		0.853	1	12/04/2019 19:06	WG1391198
Isopropylbenzene	ND		1.09	1	12/04/2019 19:06	WG1391198
p-Isopropyltoluene	ND		1.17	1	12/04/2019 19:06	WG1391198
2-Butanone (MEK)	ND		13.1	1	12/04/2019 19:06	WG1391198
Methylene Chloride	ND		3.33	1	12/04/2019 19:06	WG1391198
2-Hexanone	ND		12.7	1	12/04/2019 19:06	WG1391198
4-Methyl-2-pentanone (MIBK)	ND		7.13	1	12/04/2019 19:06	WG1391198
Methyl tert-butyl ether	ND		1.22	1	12/04/2019 19:06	WG1391198
Naphthalene	ND		3.33	1	12/04/2019 19:06	WG1391198
n-Propylbenzene	ND		1.16	1	12/04/2019 19:06	WG1391198
Styrene	ND		1.02	1	12/04/2019 19:06	WG1391198
1,1,1,2-Tetrachloroethane	ND		1.28	1	12/04/2019 19:06	WG1391198
1,1,2,2-Tetrachloroethane	ND		0.433	1	12/04/2019 19:06	WG1391198

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	ND		1.01	1	12/04/2019 19:06	WG1391198
Tetrachloroethene	ND		1.24	1	12/04/2019 19:06	WG1391198
Tetrahydrofuran	ND		6.07	1	12/04/2019 19:06	WG1391198
Toluene	ND		1.37	1	12/04/2019 19:06	WG1391198
1,2,3-Trichlorobenzene	ND		0.767	1	12/04/2019 19:06	WG1391198
1,2,4-Trichlorobenzene	ND		1.18	1	12/04/2019 19:06	WG1391198
1,1,1-Trichloroethane	ND		1.06	1	12/04/2019 19:06	WG1391198
1,1,2-Trichloroethane	ND		1.28	1	12/04/2019 19:06	WG1391198
Trichloroethene	ND		1.33	1	12/04/2019 19:06	WG1391198
Trichlorofluoromethane	ND		4.00	1	12/04/2019 19:06	WG1391198
1,2,3-Trichloropropane	ND		2.69	1	12/04/2019 19:06	WG1391198
1,2,4-Trimethylbenzene	ND		1.24	1	12/04/2019 19:06	WG1391198
1,2,3-Trimethylbenzene	ND		1.07	1	12/04/2019 19:06	WG1391198
1,3,5-Trimethylbenzene	ND		1.29	1	12/04/2019 19:06	WG1391198
Vinyl chloride	ND		0.863	1	12/04/2019 19:06	WG1391198
Xylenes, Total	ND		3.00	1	12/04/2019 19:06	WG1391198
(S) Toluene-d8	*101*		*80.0-120*		*12/04/2019 19:06*	WG1391198
(S) 4-Bromofluorobenzene	*99.7*		*77.0-126*		*12/04/2019 19:06*	WG1391198
(S) 1,2-Dichloroethane-d4	*102*		*70.0-130*		*12/04/2019 19:06*	WG1391198

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		33.3	1	12/04/2019 19:25	WG1391198
Acrolein	ND		29.6	1	12/04/2019 19:25	WG1391198
Acrylonitrile	ND		6.23	1	12/04/2019 19:25	WG1391198
Allyl chloride	ND		5.67	1	12/04/2019 19:25	WG1391198
Benzene	ND		1.10	1	12/04/2019 19:25	WG1391198
Bromobenzene	ND		1.17	1	12/04/2019 19:25	WG1391198
Bromodichloromethane	ND		1.27	1	12/04/2019 19:25	WG1391198
Bromoform	ND		1.56	1	12/04/2019 19:25	WG1391198
Bromomethane	ND		2.89	1	12/04/2019 19:25	WG1391198
n-Butylbenzene	ND		1.20	1	12/04/2019 19:25	WG1391198
sec-Butylbenzene	ND		1.22	1	12/04/2019 19:25	WG1391198
tert-Butylbenzene	ND		1.33	1	12/04/2019 19:25	WG1391198
Carbon tetrachloride	ND		1.26	1	12/04/2019 19:25	WG1391198
Chlorobenzene	ND		1.16	1	12/04/2019 19:25	WG1391198
Chlorodibromomethane	ND		1.09	1	12/04/2019 19:25	WG1391198
Chloroethane	ND		1.51	1	12/04/2019 19:25	WG1391198
2-Chloroethyl vinyl ether	ND		10.0	1	12/04/2019 19:25	WG1391198
Chloroform	ND		1.08	1	12/04/2019 19:25	WG1391198
Chloromethane	ND		0.920	1	12/04/2019 19:25	WG1391198
2-Chlorotoluene	ND		1.25	1	12/04/2019 19:25	WG1391198
4-Chlorotoluene	ND		1.17	1	12/04/2019 19:25	WG1391198
1,2-Dibromo-3-Chloropropane	ND		4.43	1	12/04/2019 19:25	WG1391198
1,2-Dibromoethane	ND		1.27	1	12/04/2019 19:25	WG1391198
Dibromomethane	ND		1.15	1	12/04/2019 19:25	WG1391198
1,2-Dichlorobenzene	ND		1.16	1	12/04/2019 19:25	WG1391198
1,3-Dichlorobenzene	ND		0.733	1	12/04/2019 19:25	WG1391198
1,4-Dichlorobenzene	ND		0.913	1	12/04/2019 19:25	WG1391198
Dichlorodifluoromethane	ND		1.84	1	12/04/2019 19:25	WG1391198
Dichlorofluoromethane	ND		1.01	1	12/04/2019 19:25	WG1391198
1,1-Dichloroethane	ND		0.863	1	12/04/2019 19:25	WG1391198
1,2-Dichloroethane	ND		1.20	1	12/04/2019 19:25	WG1391198
1,1-Dichloroethene	ND		1.33	1	12/04/2019 19:25	WG1391198
cis-1,2-Dichloroethene	ND		0.867	1	12/04/2019 19:25	WG1391198
trans-1,2-Dichloroethene	ND		1.32	1	12/04/2019 19:25	WG1391198
1,2-Dichloropropane	ND		1.02	1	12/04/2019 19:25	WG1391198
1,1-Dichloropropene	ND		1.17	1	12/04/2019 19:25	WG1391198
1,3-Dichloropropane	ND		1.22	1	12/04/2019 19:25	WG1391198
cis-1,3-Dichloropropene	ND		1.39	1	12/04/2019 19:25	WG1391198
trans-1,3-Dichloropropene	ND		1.40	1	12/04/2019 19:25	WG1391198
2,2-Dichloropropane	ND		1.07	1	12/04/2019 19:25	WG1391198
Di-isopropyl ether	ND		1.07	1	12/04/2019 19:25	WG1391198
Ethylbenzene	ND		1.28	1	12/04/2019 19:25	WG1391198
Ethyl ether	ND		1.30	1	12/04/2019 19:25	WG1391198
Hexachloro-1,3-butadiene	ND		0.853	1	12/04/2019 19:25	WG1391198
Isopropylbenzene	ND		1.09	1	12/04/2019 19:25	WG1391198
p-Isopropyltoluene	ND		1.17	1	12/04/2019 19:25	WG1391198
2-Butanone (MEK)	ND		13.1	1	12/04/2019 19:25	WG1391198
Methylene Chloride	ND		3.33	1	12/04/2019 19:25	WG1391198
2-Hexanone	ND		12.7	1	12/04/2019 19:25	WG1391198
4-Methyl-2-pentanone (MIBK)	ND		7.13	1	12/04/2019 19:25	WG1391198
Methyl tert-butyl ether	ND		1.22	1	12/04/2019 19:25	WG1391198
Naphthalene	ND		3.33	1	12/04/2019 19:25	WG1391198
n-Propylbenzene	ND		1.16	1	12/04/2019 19:25	WG1391198
Styrene	ND		1.02	1	12/04/2019 19:25	WG1391198
1,1,1,2-Tetrachloroethane	ND		1.28	1	12/04/2019 19:25	WG1391198
1,1,2,2-Tetrachloroethane	ND		0.433	1	12/04/2019 19:25	WG1391198

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	ND		1.01	1	12/04/2019 19:25	WG1391198
Tetrachloroethene	ND		1.24	1	12/04/2019 19:25	WG1391198
Tetrahydrofuran	ND		6.07	1	12/04/2019 19:25	WG1391198
Toluene	ND		1.37	1	12/04/2019 19:25	WG1391198
1,2,3-Trichlorobenzene	ND		0.767	1	12/04/2019 19:25	WG1391198
1,2,4-Trichlorobenzene	ND		1.18	1	12/04/2019 19:25	WG1391198
1,1,1-Trichloroethane	ND		1.06	1	12/04/2019 19:25	WG1391198
1,1,2-Trichloroethane	ND		1.28	1	12/04/2019 19:25	WG1391198
Trichloroethene	ND		1.33	1	12/04/2019 19:25	WG1391198
Trichlorofluoromethane	ND		4.00	1	12/04/2019 19:25	WG1391198
1,2,3-Trichloropropane	ND		2.69	1	12/04/2019 19:25	WG1391198
1,2,4-Trimethylbenzene	ND		1.24	1	12/04/2019 19:25	WG1391198
1,2,3-Trimethylbenzene	ND		1.07	1	12/04/2019 19:25	WG1391198
1,3,5-Trimethylbenzene	ND		1.29	1	12/04/2019 19:25	WG1391198
Vinyl chloride	ND		0.863	1	12/04/2019 19:25	WG1391198
Xylenes, Total	ND		3.00	1	12/04/2019 19:25	WG1391198
(S) Toluene-d8	*100*		*80.0-120*		*12/04/2019 19:25*	WG1391198
(S) 4-Bromofluorobenzene	*99.8*		*77.0-126*		*12/04/2019 19:25*	WG1391198
(S) 1,2-Dichloroethane-d4	*103*		*70.0-130*		*12/04/2019 19:25*	WG1391198

Method Blank (MB)

(MB) R3479180-3 12/04/19 16:58

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		10.0	33.3
Acrolein	U		8.87	29.6
Acrylonitrile	U		1.87	6.23
Benzene	U		0.331	1.10
Bromobenzene	U		0.352	1.17
Bromodichloromethane	U		0.380	1.27
Bromoform	U		0.469	1.56
Bromomethane	U		0.866	2.89
n-Butylbenzene	U		0.361	1.20
sec-Butylbenzene	U		0.365	1.22
tert-Butylbenzene	U		0.399	1.33
Carbon tetrachloride	U		0.379	1.26
Chlorobenzene	U		0.348	1.16
Chlorodibromomethane	U		0.327	1.09
Chloroethane	U		0.453	1.51
2-Chloroethyl vinyl ether	U		3.01	10.0
Chloroform	U		0.324	1.08
Chloromethane	U		0.276	0.920
2-Chlorotoluene	U		0.375	1.25
4-Chlorotoluene	U		0.351	1.17
1,2-Dibromo-3-Chloropropane	U		1.33	4.43
1,2-Dibromoethane	U		0.381	1.27
Dibromomethane	U		0.346	1.15
1,2-Dichlorobenzene	U		0.349	1.16
1,3-Dichlorobenzene	U		0.220	0.733
1,4-Dichlorobenzene	U		0.274	0.913
Dichlorodifluoromethane	U		0.551	1.84
Dichlorofluoromethane	U		0.302	1.01
1,1-Dichloroethane	U		0.259	0.863
1,2-Dichloroethane	U		0.361	1.20
1,1-Dichloroethene	U		0.398	1.33
cis-1,2-Dichloroethene	U		0.260	0.867
trans-1,2-Dichloroethene	U		0.396	1.32
1,2-Dichloropropane	U		0.306	1.02
1,1-Dichloropropene	U		0.352	1.17
1,3-Dichloropropane	U		0.366	1.22
cis-1,3-Dichloropropene	U		0.418	1.39
trans-1,3-Dichloropropene	U		0.419	1.40
2,2-Dichloropropane	U		0.321	1.07
Di-isopropyl ether	U		0.320	1.07

Method Blank (MB)

(MB) R3479180-3 12/04/19 16:58

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.384	1.28
Ethyl ether	U		0.389	1.30
Hexachloro-1,3-butadiene	U		0.256	0.853
2-Hexanone	U		3.82	12.7
Isopropylbenzene	U		0.326	1.09
p-Isopropyltoluene	U		0.350	1.17
2-Butanone (MEK)	U		3.93	13.1
Methylene Chloride	U		1.00	3.33
4-Methyl-2-pentanone (MIBK)	U		2.14	7.13
Methyl tert-butyl ether	U		0.367	1.22
Naphthalene	U		1.00	3.33
n-Propylbenzene	U		0.349	1.16
Styrene	U		0.307	1.02
1,1,1,2-Tetrachloroethane	U		0.385	1.28
1,1,2,2-Tetrachloroethane	U		0.130	0.433
Tetrachloroethene	U		0.372	1.24
Tetrahydrofuran	U		1.82	6.07
Toluene	U		0.412	1.37
1,1,2-Trichlorotrifluoroethane	U		0.303	1.01
1,2,3-Trichlorobenzene	U		0.230	0.767
1,2,4-Trichlorobenzene	U		0.355	1.18
1,1,1-Trichloroethane	U		0.319	1.06
1,1,2-Trichloroethane	U		0.383	1.28
Trichloroethene	U		0.398	1.33
Trichlorofluoromethane	U		1.20	4.00
1,2,3-Trichloropropane	U		0.807	2.69
1,2,3-Trimethylbenzene	U		0.321	1.07
1,2,4-Trimethylbenzene	U		0.373	1.24
1,3,5-Trimethylbenzene	U		0.387	1.29
Vinyl chloride	U		0.259	0.863
Xylenes, Total	U		1.06	3.53
Allyl Chloride	U		1.70	5.67
(S) Toluene-d8	*100*			*80.0-120*
(S) 4-Bromofluorobenzene	*99.7*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*

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) R3479180-1 12/04/19 16:02 • (LCSD) R3479180-2 12/04/19 16:20

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	27.8	27.1	111	108	19.0-160			2.55	27
Acrolein	25.0	32.6	37.6	130	150	10.0-160			14.2	26
Acrylonitrile	25.0	22.3	23.7	89.2	94.8	55.0-149			6.09	20
Benzene	5.00	4.93	5.08	98.6	102	70.0-123			3.00	20
Bromobenzene	5.00	4.88	5.02	97.6	100	73.0-121			2.83	20
Bromodichloromethane	5.00	4.98	5.03	99.6	101	75.0-120			0.999	20
Bromoform	5.00	5.64	5.50	113	110	68.0-132			2.51	20
Bromomethane	5.00	4.68	4.93	93.6	98.6	10.0-160			5.20	25
n-Butylbenzene	5.00	5.02	5.13	100	103	73.0-125			2.17	20
sec-Butylbenzene	5.00	5.04	5.14	101	103	75.0-125			1.96	20
tert-Butylbenzene	5.00	4.96	5.12	99.2	102	76.0-124			3.17	20
Carbon tetrachloride	5.00	5.44	5.69	109	114	68.0-126			4.49	20
Chlorobenzene	5.00	4.89	5.06	97.8	101	80.0-121			3.42	20
Chlorodibromomethane	5.00	5.15	5.19	103	104	77.0-125			0.774	20
Chloroethane	5.00	4.81	5.09	96.2	102	47.0-150			5.66	20
2-Chloroethyl vinyl ether	25.0	25.9	25.7	104	103	51.0-160			0.775	20
Chloroform	5.00	4.85	5.09	97.0	102	73.0-120			4.83	20
Chloromethane	5.00	4.50	4.77	90.0	95.4	41.0-142			5.83	20
2-Chlorotoluene	5.00	4.84	5.08	96.8	102	76.0-123			4.84	20
4-Chlorotoluene	5.00	4.83	4.99	96.6	99.8	75.0-122			3.26	20
1,2-Dibromo-3-Chloropropane	5.00	4.84	5.15	96.8	103	58.0-134			6.21	20
1,2-Dibromoethane	5.00	4.89	5.01	97.8	100	80.0-122			2.42	20
Dibromomethane	5.00	5.16	5.10	103	102	80.0-120			1.17	20
1,2-Dichlorobenzene	5.00	4.94	5.08	98.8	102	79.0-121			2.79	20
1,3-Dichlorobenzene	5.00	4.89	5.11	97.8	102	79.0-120			4.40	20
1,4-Dichlorobenzene	5.00	4.99	5.20	99.8	104	79.0-120			4.12	20
Dichlorodifluoromethane	5.00	4.54	5.14	90.8	103	51.0-149			12.4	20
Dichlorofluoromethane	5.00	4.80	4.89	96.0	97.8	65.0-133			1.86	20
1,1-Dichloroethane	5.00	4.79	4.97	95.8	99.4	70.0-126			3.69	20
1,2-Dichloroethane	5.00	5.02	5.19	100	104	70.0-128			3.33	20
1,1-Dichloroethene	5.00	4.89	4.91	97.8	98.2	71.0-124			0.408	20
cis-1,2-Dichloroethene	5.00	4.70	4.97	94.0	99.4	73.0-120			5.58	20
trans-1,2-Dichloroethene	5.00	5.05	5.31	101	106	73.0-120			5.02	20
1,2-Dichloropropane	5.00	4.91	5.04	98.2	101	77.0-125			2.61	20
1,1-Dichloropropene	5.00	5.10	5.31	102	106	74.0-126			4.03	20
1,3-Dichloropropane	5.00	5.04	4.99	101	99.8	80.0-120			0.997	20
cis-1,3-Dichloropropene	5.00	5.18	5.16	104	103	80.0-123			0.387	20
trans-1,3-Dichloropropene	5.00	5.04	5.18	101	104	78.0-124			2.74	20
2,2-Dichloropropane	5.00	5.44	5.45	109	109	58.0-130			0.184	20
Di-isopropyl ether	5.00	4.75	4.79	95.0	95.8	58.0-138			0.839	20

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

(LCS) R3479180-1 12/04/19 16:02 • (LCSD) R3479180-2 12/04/19 16:20

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	5.00	4.70	4.90	94.0	98.0	79.0-123			4.17	20
Ethyl ether	5.00	5.11	5.27	102	105	66.0-130			3.08	20
Hexachloro-1,3-butadiene	5.00	4.65	4.40	93.0	88.0	54.0-138			5.52	20
2-Hexanone	25.0	25.1	26.2	100	105	67.0-149			4.29	20
Isopropylbenzene	5.00	4.81	4.91	96.2	98.2	76.0-127			2.06	20
p-Isopropyltoluene	5.00	4.96	5.09	99.2	102	76.0-125			2.59	20
2-Butanone (MEK)	25.0	26.4	26.9	106	108	44.0-160			1.88	20
Methylene Chloride	5.00	4.64	5.30	92.8	106	67.0-120			13.3	20
4-Methyl-2-pentanone (MIBK)	25.0	24.1	25.8	96.4	103	68.0-142			6.81	20
Methyl tert-butyl ether	5.00	4.78	4.95	95.6	99.0	68.0-125			3.49	20
Naphthalene	5.00	4.83	5.16	96.6	103	54.0-135			6.61	20
n-Propylbenzene	5.00	4.90	5.17	98.0	103	77.0-124			5.36	20
Styrene	5.00	5.02	5.04	100	101	73.0-130			0.398	20
1,1,1,2-Tetrachloroethane	5.00	5.05	5.12	101	102	75.0-125			1.38	20
1,1,2,2-Tetrachloroethane	5.00	4.79	5.19	95.8	104	65.0-130			8.02	20
Tetrachloroethene	5.00	5.05	5.28	101	106	72.0-132			4.45	20
Tetrahydrofuran	5.00	5.20	4.62	104	92.4	41.0-146			11.8	20
Toluene	5.00	4.81	4.91	96.2	98.2	79.0-120			2.06	20
1,1,2-Trichlorotrifluoroethane	5.00	5.25	5.28	105	106	69.0-132			0.570	20
1,2,3-Trichlorobenzene	5.00	5.05	5.25	101	105	50.0-138			3.88	20
1,2,4-Trichlorobenzene	5.00	4.20	4.23	84.0	84.6	57.0-137			0.712	20
1,1,1-Trichloroethane	5.00	5.09	5.22	102	104	73.0-124			2.52	20
1,1,2-Trichloroethane	5.00	4.82	4.92	96.4	98.4	80.0-120			2.05	20
Trichloroethene	5.00	4.86	5.06	97.2	101	78.0-124			4.03	20
Trichlorofluoromethane	5.00	4.91	5.13	98.2	103	59.0-147			4.38	20
1,2,3-Trichloropropane	5.00	4.80	5.46	96.0	109	73.0-130			12.9	20
1,2,3-Trimethylbenzene	5.00	4.74	4.99	94.8	99.8	77.0-120			5.14	20
1,2,4-Trimethylbenzene	5.00	4.71	4.97	94.2	99.4	76.0-121			5.37	20
1,3,5-Trimethylbenzene	5.00	4.84	5.08	96.8	102	76.0-122			4.84	20
Vinyl chloride	5.00	4.89	5.17	97.8	103	67.0-131			5.57	20
Xylenes, Total	15.0	14.5	14.8	96.7	98.7	79.0-123			2.05	20
Allyl chloride	25.0	25.8	26.8	103	107	72.0-128			3.80	20
(S) Toluene-d8				*100*	*98.2*	*80.0-120*				
(S) 4-Bromofluorobenzene				*99.2*	*99.2*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*101*	*103*	*70.0-130*				

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

L1165020-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1165020-01 12/04/19 19:06 • (MS) R3479180-4 12/05/19 01:21 • (MSD) R3479180-5 12/05/19 01:40

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	ND	ND	40.0	0.000	160	1	10.0-160	J6	J3	200	35
Acrolein	25.0	ND	20.6	77.1	82.4	308	1	10.0-160		J3 J5	116	39
Acrylonitrile	25.0	ND	11.5	23.4	46.0	93.6	1	21.0-160		J3	68.2	32
Benzene	5.00	ND	5.44	5.53	109	111	1	17.0-158			1.64	27
Bromobenzene	5.00	ND	4.35	4.71	87.0	94.2	1	30.0-149			7.95	28
Bromodichloromethane	5.00	ND	5.18	5.59	104	112	1	31.0-150			7.61	27
Bromoform	5.00	ND	3.71	4.97	74.2	99.4	1	29.0-150			29.0	29
Bromomethane	5.00	ND	5.45	5.77	109	115	1	10.0-160			5.70	38
n-Butylbenzene	5.00	ND	5.40	5.17	108	103	1	31.0-150			4.35	30
sec-Butylbenzene	5.00	ND	5.12	5.18	102	104	1	33.0-155			1.17	29
tert-Butylbenzene	5.00	ND	4.83	4.85	96.6	97.0	1	34.0-153			0.413	28
Carbon tetrachloride	5.00	ND	6.68	6.24	134	125	1	23.0-159			6.81	28
Chlorobenzene	5.00	ND	4.70	4.78	94.0	95.6	1	33.0-152			1.69	27
Chlorodibromomethane	5.00	ND	4.52	5.25	90.4	105	1	37.0-149			14.9	27
Chloroethane	5.00	ND	5.96	6.17	119	123	1	10.0-160			3.46	30
2-Chloroethyl vinyl ether	25.0	ND	ND	ND	0.000	0.000	1	10.0-160	J6	J6	0.000	31
Chloroform	5.00	ND	5.50	5.75	110	115	1	29.0-154			4.44	28
Chloromethane	5.00	ND	6.29	5.99	126	120	1	10.0-160			4.89	29
2-Chlorotoluene	5.00	ND	4.42	4.67	88.4	93.4	1	32.0-153			5.50	28
4-Chlorotoluene	5.00	ND	4.43	4.55	88.6	91.0	1	32.0-150			2.67	28
1,2-Dibromo-3-Chloropropane	5.00	ND	3.79	5.37	75.8	107	1	22.0-151		J3	34.5	34
1,2-Dibromoethane	5.00	ND	3.91	4.93	78.2	98.6	1	34.0-147			23.1	27
Dibromomethane	5.00	ND	4.39	5.57	87.8	111	1	30.0-151			23.7	27
1,2-Dichlorobenzene	5.00	ND	4.41	4.66	88.2	93.2	1	34.0-149			5.51	28
1,3-Dichlorobenzene	5.00	ND	4.55	4.73	91.0	94.6	1	36.0-146			3.88	27
1,4-Dichlorobenzene	5.00	ND	4.56	4.77	91.2	95.4	1	35.0-142			4.50	27
Dichlorodifluoromethane	5.00	ND	7.99	8.18	160	164	1	10.0-160		J5	2.35	29
Dichlorofluoromethane	5.00	ND	6.96	7.09	139	142	1	59.0-143			1.85	33
1,1-Dichloroethane	5.00	ND	5.65	5.86	113	117	1	25.0-158			3.65	27
1,2-Dichloroethane	5.00	ND	4.79	5.87	95.8	117	1	29.0-151			20.3	27
1,1-Dichloroethene	5.00	ND	6.32	6.34	126	127	1	11.0-160			0.316	29
cis-1,2-Dichloroethene	5.00	ND	5.17	5.63	103	113	1	10.0-160			8.52	27
trans-1,2-Dichloroethene	5.00	ND	5.88	6.13	118	123	1	17.0-153			4.16	27
1,2-Dichloropropane	5.00	ND	5.29	5.71	106	114	1	30.0-156			7.64	27
1,1-Dichloropropene	5.00	ND	6.29	6.04	126	121	1	25.0-158			4.06	27
1,3-Dichloropropane	5.00	ND	4.18	5.10	83.6	102	1	38.0-147			19.8	27
cis-1,3-Dichloropropene	5.00	ND	4.71	5.34	94.2	107	1	34.0-149			12.5	28
trans-1,3-Dichloropropene	5.00	ND	4.25	5.00	85.0	100	1	32.0-149			16.2	28
2,2-Dichloropropane	5.00	ND	6.30	6.23	126	125	1	24.0-152			1.12	29
Di-isopropyl ether	5.00	ND	5.50	5.73	110	115	1	21.0-160			4.10	28

L1165020-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1165020-01 12/04/19 19:06 • (MS) R3479180-4 12/05/19 01:21 • (MSD) R3479180-5 12/05/19 01:40

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	5.00	ND	4.78	4.59	95.6	91.8	1	30.0-155			4.06	27
Ethyl ether	5.00	ND	4.81	5.81	96.2	116	1	45.0-135			18.8	23
Hexachloro-1,3-butadiene	5.00	ND	4.88	4.40	97.6	88.0	1	20.0-154			10.3	34
2-Hexanone	25.0	ND	12.7	26.9	50.8	108	1	21.0-160		J3	71.7	29
Isopropylbenzene	5.00	ND	5.09	4.69	102	93.8	1	28.0-157			8.18	27
p-Isopropyltoluene	5.00	ND	4.92	4.93	98.4	98.6	1	30.0-154			0.203	29
2-Butanone (MEK)	25.0	ND	10.3	30.1	41.2	120	1	10.0-160		J3	98.0	32
Methylene Chloride	5.00	ND	5.26	5.85	105	117	1	23.0-144			10.6	28
4-Methyl-2-pentanone (MIBK)	25.0	ND	15.6	27.6	62.4	110	1	29.0-160		J3	55.6	29
Methyl tert-butyl ether	5.00	ND	5.02	5.57	100	111	1	28.0-150			10.4	29
Naphthalene	5.00	ND	4.57	5.20	91.4	104	1	12.0-156			12.9	35
n-Propylbenzene	5.00	ND	4.91	4.90	98.2	98.0	1	31.0-154			0.204	28
Styrene	5.00	ND	4.68	4.73	93.6	94.6	1	33.0-155			1.06	28
1,1,1,2-Tetrachloroethane	5.00	ND	5.09	5.00	102	100	1	36.0-151			1.78	29
1,1,2,2-Tetrachloroethane	5.00	ND	3.66	5.11	73.2	102	1	33.0-150		J3	33.1	28
Tetrachloroethene	5.00	ND	5.80	5.03	116	101	1	10.0-160			14.2	27
Tetrahydrofuran	5.00	ND	2.12	6.13	42.4	123	1	12.0-156		J3	97.2	27
Toluene	5.00	ND	5.60	5.44	112	109	1	26.0-154			2.90	28
1,1,2-Trichlorotrifluoroethane	5.00	ND	6.69	6.62	134	132	1	23.0-160			1.05	30
1,2,3-Trichlorobenzene	5.00	ND	4.95	4.75	99.0	95.0	1	17.0-150			4.12	36
1,2,4-Trichlorobenzene	5.00	ND	4.16	3.74	83.2	74.8	1	24.0-150			10.6	33
1,1,1-Trichloroethane	5.00	ND	6.19	5.90	124	118	1	23.0-160			4.80	28
1,1,2-Trichloroethane	5.00	ND	4.22	5.19	84.4	104	1	35.0-147			20.6	27
Trichloroethene	5.00	ND	5.15	4.91	103	98.2	1	10.0-160			4.77	25
Trichlorofluoromethane	5.00	ND	6.95	6.87	139	137	1	17.0-160			1.16	31
1,2,3-Trichloropropane	5.00	ND	3.38	5.02	67.6	100	1	34.0-151		J3	39.0	29
1,2,3-Trimethylbenzene	5.00	ND	5.80	5.85	116	117	1	32.0-149			0.858	28
1,2,4-Trimethylbenzene	5.00	ND	4.63	4.60	92.6	92.0	1	26.0-154			0.650	27
1,3,5-Trimethylbenzene	5.00	ND	4.55	4.63	91.0	92.6	1	28.0-153			1.74	27
Vinyl chloride	5.00	ND	6.50	6.62	130	132	1	10.0-160			1.83	27
Xylenes, Total	15.0	ND	14.6	13.8	97.3	92.0	1	29.0-154			5.63	28
Allyl chloride	25.0	ND	29.3	31.1	117	124	1	39.0-145			5.96	30
(S) Toluene-d8					*99.7*	*97.9*		*80.0-120*				
(S) 4-Bromofluorobenzene					*95.1*	*95.7*		*77.0-126*				
(S) 1,2-Dichloroethane-d4					*92.3*	*109*		*70.0-130*				

Guide to Reading and Understanding Your Laboratory Report

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

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

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

Qualifier	Description
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

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

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

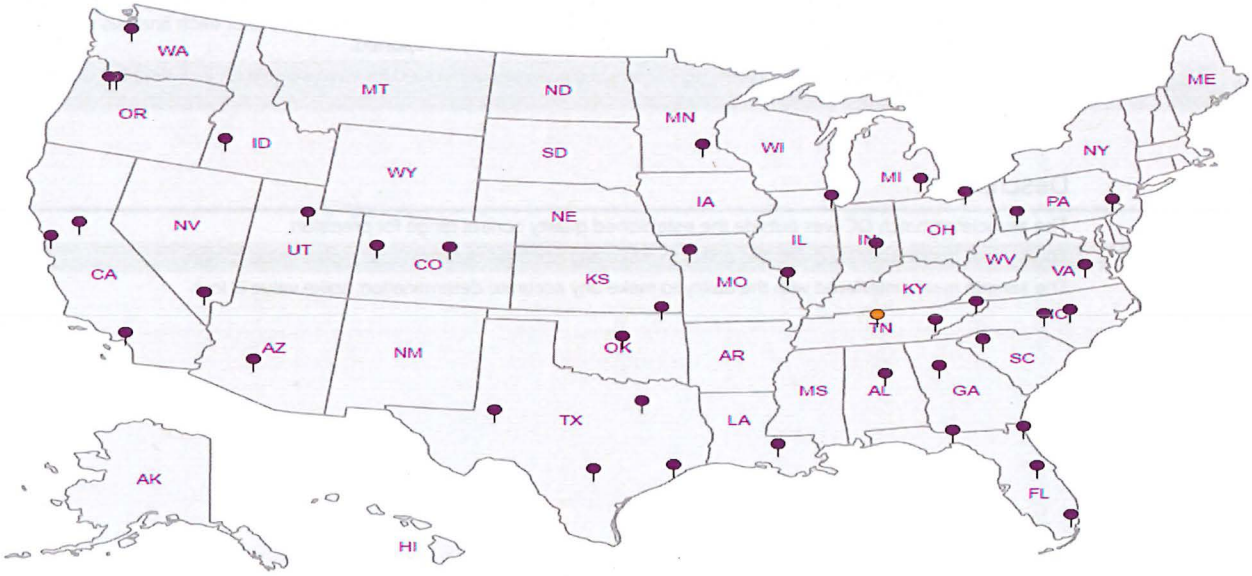
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

Our Locations

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



MSA Professional Services

332 W. Superior Street, Suite 600
Duluth, MN 55802

Billing Information:
332 W. Superior St, Ste. 600
Duluth, MN 55802

Report to: Erica Klinghs
Email To: eklinghs@msa-ps.com
Project Description: Webster Quick Wash
City/State Collected: Webster, WI
Phone: 218-722-3915
Fax: 218-722-4548
Client Project # 17644000
Lab Project #
Collected by (print): Paul Butler
Site/Facility ID #
P.O. #
Collected by (signature): Paul P Butler
Immediately Packed on Ice N ___ Y ✓
Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day
Quote #
Date Results Needed

Chain of Custody Page 1 of 1

Pace Analytical® National Center for Testing & Innovation
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1165078
Table E147
Acctnum: MSAPRODMN
Template:
Prelogin:
TSR: 341 - John Hawkins
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Analysis / Container / Preservative: VOC	Pres Chk	Remarks	Sample # (lab only)
91-6	Grab	GW		11/25/19	1125	3	X			01
91-5A	Grab	GW		11/25/19	1215	↓	X			02

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: * This sampling event is being re-done due to laboratory analysis error of previous samples collected.
pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking # 1145 2229 1979

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

RAD SCREEN: <0.5 mR/hr

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Paul P Butler	11/25/19	1400			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.1+1=1.0°C Bottles Received: 6	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11-26-19 Time: 0830	Hold: / Condition: NCF / OK