Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

August 29, 2016

Matt Faust
Bristol Environmental Remediation Services, LLC
111 W. 16th Avenue
Anchorage, AK 99501

RE: Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Dear Matt Faust:
Enclosed are the analytical results for sample(s) received by the laboratory on August 10, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Shawn Davis
shawn.davis@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Montana Certification IDs

150 N. 9th Street, Billings, MT 59101
A2LA Certification #: 3590.01
EPA Region 8 Certification #: 8TMS-L
Idaho Certification #: MT00012
Minnesota Dept of Health Certification #: 030-999-442
Montana Certification #: MT CERT0040
North Dakota Dept. Of Health #: R-209
Washington Department of Ecology #: C993

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SAMPLE SUMMARY

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10358621001	**1608TOWERMW16**	Water	08/08/16 10:55	08/10/16 12:23
10358621002	**1608TOWERMW16D**	Water	08/08/16 13:00	08/10/16 12:23
10358621003	**1608TOWERMW18D**	Water	08/08/16 13:30	08/10/16 12:23
10358621004	**1608TOWERMW16E**	Water	08/09/16 09:00	08/10/16 12:23
10358621005	**1608TOWERMW21**	Water	08/09/16 11:20	08/10/16 12:23
10358621006	**1608TOWERMW21M**	Water	08/09/16 13:00	08/10/16 12:23
10358621007	**1608TOWERMW21D**	Water	08/09/16 14:50	08/10/16 12:23
10358621008	**1608TOWERTB1**	Solid	08/05/16 08:00	08/10/16 12:23
10358621009	**1608TOWERIDWSS**	Solid	08/05/16 14:30	08/10/16 12:23
10358621010	**1608TOWERTB2**	Water	08/08/16 08:00	08/10/16 12:23
10358621011	**1608TOWEREQB**	Water	08/09/16 09:30	08/10/16 12:23

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SAMPLE ANALYTE COUNT

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10358621001	**1608TOWERMW16**	EPA 8011	XV1	2	PASI-M
		EPA 8260B	PRD	70	PASI-M
10358621002	**1608TOWERMW16D**	EPA 8011	XV1	2	PASI-M
		EPA 8260B	EMC, PRD	70	PASI-M
10358621003	**1608TOWERMW18D**	EPA 8011	XV1	2	PASI-M
		EPA 8260B	EMC, PRD	70	PASI-M
10358621004	**1608TOWERMW16E**	EPA 8011	XV1	2	PASI-M
		EPA 6020B	TT3	9	PASI-M
		EPA 7470A	LMW	1	PASI-M
		EPA 8260B	EMC, PRD	70	PASI-M
		SM 2510B	CAC	1	PASI-MT
		SM 4500-H+B	CAC	1	PASI-MT
		SM 4500-S2-D	JME	1	PASI-MT
		SM 4500-S H	VRJ	1	PASI-MT
		SM 4500-NO3 H	DCL	2	PASI-M
		ASTM D516	KEO	1	PASI-M
		SM 4500-NO2 B	KEO	1	PASI-M
10358621005	**1608TOWERMW21**	EPA 8011	XV1	2	PASI-M
		EPA 6020B	TT3	9	PASI-M
		EPA 7470A	LMW	1	PASI-M
		EPA 8260B	EMC, PRD	70	PASI-M
		SM 2510B	CAC	1	PASI-MT
		SM 4500-H+B	CAC	1	PASI-MT
		SM 4500-S2-D	JME	1	PASI-MT
		SM 4500-S H	VRJ	1	PASI-MT
		SM 4500-NO3 H	DCL	2	PASI-M
		ASTM D516	KEO	1	PASI-M
		SM 4500-NO2 B	KEO	1	PASI-M
10358621006	**1608TOWERMW21M**	EPA 8011	XV1	2	PASI-M
		EPA 6020B	TT3	9	PASI-M
		EPA 7470A	LMW	1	PASI-M
		EPA 8260B	EMC, PRD	70	PASI-M
		SM 2510B	CAC	1	PASI-MT
		SM 4500-H+B	CAC	1	PASI-MT
		SM 4500-S2-D	JME	1	PASI-MT
		SM 4500-S H	VRJ	1	PASI-MT
		SM 4500-NO3 H	DCL	2	PASI-M

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SAMPLE ANALYTE COUNT

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D516	KEO	1	PASI-M
		SM 4500-NO2 B	KEO	1	PASI-M
10358621007	**1608TOWERMW21D**	EPA 8011	XV1	2	PASI-M
		EPA 6020B	TT3	9	PASI-M
		EPA 7470A	LMW	1	PASI-M
		EPA 8260B	EMC	70	PASI-M
		SM 2510B	CAC	1	PASI-MT
		SM 4500-H+B	CAC	1	PASI-MT
		SM 4500-S2-D	JME	1	PASI-MT
		SM 4500-S H	VRJ	1	PASI-MT
		SM 4500-NO3 H	DCL	2	PASI-M
		ASTM D516	KEO	1	PASI-M
		SM 4500-NO2 B	KEO	1	PASI-M
10358621008	**1608TOWERTB1**	EPA 8260B	MRB	7	PASI-M
10358621009	**1608TOWERIDWSS**	EPA 6020B	TT3	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8260B	MRB	7	PASI-M
10358621010	**1608TOWERTB2**	EPA 8011	XV1	2	PASI-M
		EPA 8260B	PRD	70	PASI-M
10358621011	**1608TOWEREQB**	EPA 8011	XV1	2	PASI-M
		EPA 6020B	TT3	9	PASI-M
		EPA 7470A	LMW	1	PASI-M
		EPA 8260B	EMC	70	PASI-M
		SM 2510B	CAC	1	PASI-MT
		SM 4500-H+B	CAC	1	PASI-MT
		SM 4500-S2-D	JME	1	PASI-MT
		SM 4500-S H	VRJ	1	PASI-MT
		SM 4500-NO3 H	DCL	2	PASI-M
		ASTM D516	KEO	1	PASI-M
		SM 4500-NO2 B	KEO	1	PASI-M

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SUMMARY OF DETECTION

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10358621001	**1608TOWERMW16**					
EPA 8260B	Acetone	2.4J	ug/L	20.0	08/11/16 21:16	B
EPA 8260B	Benzene	0.75J	ug/L	1.0	08/11/16 21:16	
10358621002	**1608TOWERMW16D**					
EPA 8260B	Benzene	1240	ug/L	20.0	08/14/16 16:30	
EPA 8260B	n-Butylbenzene	3.3	ug/L	1.0	08/12/16 01:53	
EPA 8260B	sec-Butylbenzene	4.0	ug/L	1.0	08/12/16 01:53	
EPA 8260B	Ethylbenzene	61.8	ug/L	1.0	08/12/16 01:53	
EPA 8260B	Isopropylbenzene (Cumene)	26.0	ug/L	1.0	08/12/16 01:53	
EPA 8260B	p-Isopropyltoluene	1.6	ug/L	1.0	08/12/16 01:53	
EPA 8260B	4-Methyl-2-pentanone (MIBK)	0.69J	ug/L	5.0	08/12/16 01:53	
EPA 8260B	Methyl-tert-butyl ether	1.9	ug/L	1.0	08/12/16 01:53	
EPA 8260B	Naphthalene	109	ug/L	4.0	08/12/16 01:53	
EPA 8260B	n-Propylbenzene	66.9	ug/L	1.0	08/12/16 01:53	
EPA 8260B	Toluene	22.2	ug/L	1.0	08/12/16 01:53	
EPA 8260B	1,2,4-Trimethylbenzene	367	ug/L	20.0	08/14/16 16:30	
EPA 8260B	1,3,5-Trimethylbenzene	79.5	ug/L	1.0	08/12/16 01:53	
EPA 8260B	Xylene (Total)	1610	ug/L	60.0	08/14/16 16:30	
10358621003	**1608TOWERMW18D**					
EPA 8260B	Benzene	1300	ug/L	20.0	08/15/16 21:59	
EPA 8260B	n-Butylbenzene	3.5	ug/L	1.0	08/12/16 02:09	
EPA 8260B	sec-Butylbenzene	4.3	ug/L	1.0	08/12/16 02:09	
EPA 8260B	Ethylbenzene	65.3	ug/L	1.0	08/12/16 02:09	
EPA 8260B	Isopropylbenzene (Cumene)	26.7	ug/L	1.0	08/12/16 02:09	
EPA 8260B	p-Isopropyltoluene	1.7	ug/L	1.0	08/12/16 02:09	
EPA 8260B	4-Methyl-2-pentanone (MIBK)	0.72J	ug/L	5.0	08/12/16 02:09	
EPA 8260B	Methyl-tert-butyl ether	2.3	ug/L	1.0	08/12/16 02:09	
EPA 8260B	Naphthalene	114	ug/L	4.0	08/12/16 02:09	
EPA 8260B	n-Propylbenzene	69.5	ug/L	1.0	08/12/16 02:09	
EPA 8260B	Toluene	23.0	ug/L	1.0	08/12/16 02:09	
EPA 8260B	1,2,4-Trimethylbenzene	336	ug/L	20.0	08/15/16 21:59	
EPA 8260B	1,3,5-Trimethylbenzene	84.3	ug/L	1.0	08/12/16 02:09	
EPA 8260B	Xylene (Total)	1410	ug/L	60.0	08/15/16 21:59	
10358621004	**1608TOWERMW16E**					
EPA 6020B	Arsenic	0.59	ug/L	0.50	08/19/16 14:05	
EPA 6020B	Barium	205	ug/L	0.30	08/19/16 14:05	
EPA 6020B	Chromium	2.3	ug/L	0.50	08/19/16 14:05	
EPA 6020B	Iron	1460	ug/L	50.0	08/19/16 14:05	
EPA 6020B	Lead	0.29	ug/L	0.10	08/19/16 14:05	B
EPA 6020B	Manganese	1650	ug/L	5.0	08/20/16 16:13	
EPA 6020B	Selenium	0.18J	ug/L	0.50	08/19/16 14:05	
EPA 8260B	Acetone	10J	ug/L	20.0	08/12/16 09:19	B
EPA 8260B	Benzene	768	ug/L	20.0	08/14/16 16:46	
EPA 8260B	n-Butylbenzene	0.59J	ug/L	1.0	08/12/16 09:19	
EPA 8260B	sec-Butylbenzene	1.3	ug/L	1.0	08/12/16 09:19	
EPA 8260B	1,4-Dichlorobenzene	0.28J	ug/L	1.0	08/12/16 09:19	
EPA 8260B	Ethylbenzene	8.9	ug/L	1.0	08/12/16 09:19	

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SUMMARY OF DETECTION

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10358621004	**1608TOWERMW16E**					
EPA 8260B	Isopropylbenzene (Cumene)	9.9	ug/L	1.0	08/12/16 09:19	
EPA 8260B	p-Isopropyltoluene	0.52J	ug/L	1.0	08/12/16 09:19	
EPA 8260B	Methyl-tert-butyl ether	10.0	ug/L	1.0	08/12/16 09:19	
EPA 8260B	Naphthalene	28.2	ug/L	4.0	08/12/16 09:19	
EPA 8260B	n-Propylbenzene	18.4	ug/L	1.0	08/12/16 09:19	
EPA 8260B	Toluene	6.1	ug/L	1.0	08/12/16 09:19	
EPA 8260B	1,2,4-Trimethylbenzene	96.6	ug/L	1.0	08/12/16 09:19	
EPA 8260B	1,3,5-Trimethylbenzene	16.9	ug/L	1.0	08/12/16 09:19	
EPA 8260B	Xylene (Total)	506	ug/L	3.0	08/12/16 09:19	
SM 2510B	Specific Conductance	1570	umhos/cm	10.0	08/16/16 15:02	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	08/15/16 19:10	H6
SM 4500-S2-D	Sulfide	0.024J	mg/L	0.10	08/16/16 13:29	
ASTM D516	Sulfate	1.2J	mg/L	3.5	08/12/16 09:05	
SM 4500-NO2 B	Nitrite as N	0.0044J	mg/L	0.012	08/11/16 09:00	H1
10358621005	**1608TOWERMW21**					
EPA 8011	1,2-Dibromoethane (EDB)	0.0072J	ug/L	0.0098	08/18/16 04:37	
EPA 6020B	Arsenic	2.3	ug/L	0.50	08/19/16 14:19	
EPA 6020B	Barium	95.9	ug/L	0.30	08/19/16 14:19	
EPA 6020B	Cadmium	0.078J	ug/L	0.080	08/19/16 14:19	
EPA 6020B	Chromium	8.5	ug/L	0.50	08/19/16 14:19	
EPA 6020B	Iron	19200	ug/L	50.0	08/19/16 14:19	
EPA 6020B	Lead	8.6	ug/L	0.10	08/19/16 14:19	
EPA 6020B	Manganese	6550	ug/L	10.0	08/20/16 16:15	
EPA 6020B	Selenium	0.39J	ug/L	0.50	08/19/16 14:19	
EPA 6020B	Silver	0.042J	ug/L	0.50	08/19/16 14:19	B
EPA 8260B	Acetone	37.3	ug/L	20.0	08/12/16 09:34	
EPA 8260B	Benzene	458	ug/L	25.0	08/14/16 17:01	
EPA 8260B	n-Butylbenzene	52.4	ug/L	1.0	08/12/16 09:34	
EPA 8260B	sec-Butylbenzene	21.6	ug/L	1.0	08/12/16 09:34	
EPA 8260B	Ethylbenzene	1700	ug/L	25.0	08/14/16 17:01	
EPA 8260B	Isopropylbenzene (Cumene)	111	ug/L	1.0	08/12/16 09:34	
EPA 8260B	p-Isopropyltoluene	15.9	ug/L	1.0	08/12/16 09:34	
EPA 8260B	4-Methyl-2-pentanone (MIBK)	9.4	ug/L	5.0	08/12/16 09:34	
EPA 8260B	Methyl-tert-butyl ether	0.24J	ug/L	1.0	08/12/16 09:34	
EPA 8260B	Naphthalene	703	ug/L	100	08/14/16 17:01	
EPA 8260B	n-Propylbenzene	268	ug/L	25.0	08/14/16 17:01	
EPA 8260B	Styrene	12.5	ug/L	1.0	08/12/16 09:34	
EPA 8260B	Toluene	3280	ug/L	25.0	08/14/16 17:01	
EPA 8260B	1,2,4-Trimethylbenzene	2920	ug/L	25.0	08/14/16 17:01	
EPA 8260B	1,3,5-Trimethylbenzene	744	ug/L	25.0	08/14/16 17:01	
EPA 8260B	Xylene (Total)	9060	ug/L	75.0	08/14/16 17:01	
SM 2510B	Specific Conductance	411	umhos/cm	10.0	08/16/16 15:04	
SM 4500-H+B	pH at 25 Degrees C	6.7	Std. Units	0.10	08/15/16 19:12	H6
SM 4500-S2-D	Sulfide	0.022J	mg/L	0.10	08/16/16 13:30	
SM 4500-NO3 H	Nitrate as N	0.047J	mg/L	0.058	08/24/16 09:12	
ASTM D516	Sulfate	1.5J	mg/L	3.5	08/12/16 09:05	

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SUMMARY OF DETECTION

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10358621006	**1608TOWERMW21M**					
EPA 8011	1,2-Dibromoethane (EDB)	0.011	ug/L	0.0099	08/18/16 05:03	
EPA 6020B	Arsenic	1.5	ug/L	0.50	08/19/16 14:21	
EPA 6020B	Barium	80.9	ug/L	0.30	08/19/16 14:21	
EPA 6020B	Cadmium	0.057J	ug/L	0.080	08/19/16 14:21	
EPA 6020B	Chromium	9.5	ug/L	0.50	08/19/16 14:21	
EPA 6020B	Iron	8830	ug/L	50.0	08/19/16 14:21	
EPA 6020B	Lead	2.8	ug/L	0.10	08/19/16 14:21	
EPA 6020B	Manganese	3170	ug/L	10.0	08/20/16 16:18	
EPA 6020B	Selenium	0.43J	ug/L	0.50	08/19/16 14:21	
EPA 6020B	Silver	0.069J	ug/L	0.50	08/19/16 14:21	B
EPA 8260B	Acetone	32.1	ug/L	20.0	08/12/16 09:50	
EPA 8260B	Benzene	2150	ug/L	25.0	08/14/16 17:17	
EPA 8260B	n-Butylbenzene	29.3	ug/L	1.0	08/12/16 09:50	
EPA 8260B	sec-Butylbenzene	16.2	ug/L	1.0	08/12/16 09:50	
EPA 8260B	Ethylbenzene	1660	ug/L	25.0	08/14/16 17:17	
EPA 8260B	Isopropylbenzene (Cumene)	81.1	ug/L	1.0	08/12/16 09:50	
EPA 8260B	p-Isopropyltoluene	8.0	ug/L	1.0	08/12/16 09:50	
EPA 8260B	4-Methyl-2-pentanone (MIBK)	2.6J	ug/L	5.0	08/12/16 09:50	
EPA 8260B	Methyl-tert-butyl ether	7.4	ug/L	1.0	08/12/16 09:50	
EPA 8260B	Naphthalene	470	ug/L	100	08/14/16 17:17	
EPA 8260B	n-Propylbenzene	238	ug/L	1.0	08/12/16 09:50	
EPA 8260B	Styrene	5.9	ug/L	1.0	08/12/16 09:50	
EPA 8260B	Toluene	1320	ug/L	25.0	08/14/16 17:17	
EPA 8260B	1,2,4-Trimethylbenzene	1310	ug/L	25.0	08/14/16 17:17	
EPA 8260B	1,3,5-Trimethylbenzene	480	ug/L	25.0	08/14/16 17:17	
EPA 8260B	Xylene (Total)	4340	ug/L	75.0	08/14/16 17:17	
SM 2510B	Specific Conductance	595	umhos/cm	10.0	08/16/16 15:05	
SM 4500-H+B	pH at 25 Degrees C	6.6	Std. Units	0.10	08/15/16 19:13	H6
SM 4500-NO3 H	Nitrate as N	0.12	mg/L	0.058	08/24/16 09:13	
SM 4500-NO3 H	Nitrogen, NO2 plus NO3	0.12J	mg/L	0.17	08/24/16 09:13	
10358621007	**1608TOWERMW21D**					
EPA 6020B	Arsenic	0.43J	ug/L	0.50	08/19/16 14:23	
EPA 6020B	Barium	299	ug/L	0.30	08/19/16 14:23	
EPA 6020B	Chromium	4.4	ug/L	0.50	08/19/16 14:23	
EPA 6020B	Iron	65700	ug/L	500	08/20/16 16:20	M1
EPA 6020B	Lead	0.41	ug/L	0.10	08/19/16 14:23	
EPA 6020B	Manganese	1580	ug/L	5.0	08/20/16 16:20	M1
EPA 6020B	Selenium	0.19J	ug/L	0.50	08/19/16 14:23	
EPA 6020B	Silver	0.013J	ug/L	0.50	08/19/16 14:23	B
EPA 8260B	Acetone	2.2J	ug/L	20.0	08/17/16 01:09	
EPA 8260B	Benzene	45.9	ug/L	1.0	08/17/16 01:09	
EPA 8260B	n-Butylbenzene	1.8	ug/L	1.0	08/17/16 01:09	
EPA 8260B	sec-Butylbenzene	0.69J	ug/L	1.0	08/17/16 01:09	
EPA 8260B	Ethylbenzene	8.1	ug/L	1.0	08/17/16 01:09	
EPA 8260B	Isopropylbenzene (Cumene)	1.2	ug/L	1.0	08/17/16 01:09	
EPA 8260B	p-Isopropyltoluene	0.44J	ug/L	1.0	08/17/16 01:09	
EPA 8260B	Naphthalene	4.9	ug/L	4.0	08/17/16 01:09	

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SUMMARY OF DETECTION

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10358621007	**1608TOWERMW21D**					
EPA 8260B	n-Propylbenzene	5.3	ug/L	1.0	08/17/16 01:09	
EPA 8260B	Toluene	7.3	ug/L	1.0	08/17/16 01:09	
EPA 8260B	1,2,4-Trimethylbenzene	30.6	ug/L	1.0	08/17/16 01:09	
EPA 8260B	1,3,5-Trimethylbenzene	8.2	ug/L	1.0	08/17/16 01:09	
EPA 8260B	Xylene (Total)	64.5	ug/L	3.0	08/17/16 01:09	
SM 2510B	Specific Conductance	2100	umhos/cm	10.0	08/16/16 15:05	
SM 4500-H+B	pH at 25 Degrees C	6.5	Std. Units	0.10	08/15/16 19:14	H6
SM 4500-S2-D	Sulfide	0.014J	mg/L	0.10	08/16/16 13:34	
SM 4500-NO3 H	Nitrate as N	0.063	mg/L	0.058	08/24/16 09:14	
SM 4500-NO3 H	Nitrogen, NO2 plus NO3	0.063J	mg/L	0.17	08/24/16 09:14	
ASTM D516	Sulfate	1.1J	mg/L	3.5	08/12/16 09:07	
10358621009	**1608TOWERIDWSS**					
EPA 6020B	Lead	2.7	mg/kg	0.11	08/19/16 11:55	
ASTM D2974	Percent Moisture	20.7	%	0.10	08/15/16 16:34	
EPA 8260B	Benzene	601	ug/kg	29.5	08/15/16 23:24	
EPA 8260B	Ethylbenzene	2930	ug/kg	31.5	08/15/16 23:24	
EPA 8260B	Toluene	4330	ug/kg	40.4	08/15/16 23:24	
EPA 8260B	Xylene (Total)	14500	ug/kg	126	08/15/16 23:24	
10358621010	**1608TOWERTB2**					
EPA 8260B	Acetone	2.2J	ug/L	20.0	08/12/16 09:03	B
EPA 8260B	Toluene	0.17J	ug/L	1.0	08/12/16 09:03	B
10358621011	**1608TOWEREQB**					
EPA 6020B	Barium	0.070J	ug/L	0.30	08/19/16 14:33	B
EPA 6020B	Chromium	0.36J	ug/L	0.50	08/19/16 14:33	
EPA 6020B	Lead	0.076J	ug/L	0.10	08/19/16 14:33	B
EPA 6020B	Manganese	0.21J	ug/L	0.50	08/19/16 14:33	
EPA 6020B	Silver	0.043J	ug/L	0.50	08/19/16 14:33	B
EPA 8260B	Acetone	2.9J	ug/L	20.0	08/16/16 22:58	
EPA 8260B	Naphthalene	1.6J	ug/L	4.0	08/16/16 22:58	
EPA 8260B	Toluene	0.48J	ug/L	1.0	08/16/16 22:58	
SM 4500-H+B	pH at 25 Degrees C	5.7	Std. Units	0.10	08/15/16 19:19	H6
SM 4500-NO3 H	Nitrate as N	0.042J	mg/L	0.058	08/24/16 09:18	

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PROJECT NARRATIVE

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Method: **EPA 8011**
Description: 8011 GCS EDB and DBCP
Client: Bristol Environmental Remediation Services, LLC
Date: August 29, 2016

General Information:
9 samples were analyzed for EPA 8011. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 8011 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

QC Batch: 430673

S5: Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).
- 1608TOWERMW16 (Lab ID: 10358621001)
  - 4-Bromofluorobenzene (S)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 430673

1M: Low surrogate recovery due to emulsion forming during the extraction process.
- 1608TOWERMW16 (Lab ID: 10358621001)
  - 4-Bromofluorobenzene (S)

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PROJECT NARRATIVE

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Method: **EPA 6020B**
Description: 6020B MET ICPMS
Client: Bristol Environmental Remediation Services, LLC
Date: August 29, 2016

General Information:
6 samples were analyzed for EPA 6020B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3050 with any exceptions noted below.
The samples were prepared in accordance with EPA 3020 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 429937

B: Analyte was detected in the associated method blank.
- BLANK for HBN 429937 [MPRP/658 (Lab ID: 2339230)
  - Barium
  - Lead
  - Silver

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 429937

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10358621007

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- MS (Lab ID: 2342797)
  - Iron
  - Manganese
- MSD (Lab ID: 2342798)
  - Iron

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PROJECT NARRATIVE

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Method: **EPA 6020B**
Description: 6020B MET ICPMS
Client: Bristol Environmental Remediation Services, LLC
Date: August 29, 2016

Additional Comments:

Analyte Comments:

QC Batch: 429937

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 2342797)
  - Iron
  - Manganese
- MSD (Lab ID: 2342798)
  - Iron
  - Manganese

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PROJECT NARRATIVE

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Method: **EPA 7470A**
Description: 7470A Mercury
Client: Bristol Environmental Remediation Services, LLC
Date: August 29, 2016

General Information:
5 samples were analyzed for EPA 7470A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Method: **EPA 8260B**
Description: 8260B MSV UST
Client: Bristol Environmental Remediation Services, LLC
Date: August 29, 2016

General Information:
2 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Method: **EPA 8260B**
Description: 8260B VOC
Client: Bristol Environmental Remediation Services, LLC
Date: August 29, 2016

General Information:
9 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
- 1608TOWERMW16 (Lab ID: 10358621001)
- 1608TOWERMW16D (Lab ID: 10358621002)
- 1608TOWERMW16E (Lab ID: 10358621004)
- 1608TOWERMW18D (Lab ID: 10358621003)
- 1608TOWERMW21 (Lab ID: 10358621005)
- 1608TOWERMW21M (Lab ID: 10358621006)
- 1608TOWERTB2 (Lab ID: 10358621010)

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

QC Batch: 430040

B: Analyte was detected in the associated method blank.
- BLANK for HBN 430040 [MSV/3659 (Lab ID: 2339727)
  - Acetone

QC Batch: 430041

B: Analyte was detected in the associated method blank.
- BLANK for HBN 430041 [MSV/3659 (Lab ID: 2339729)
  - Acetone
  - Toluene

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

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PROJECT NARRATIVE

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Method: **EPA 8260B**
Description: 8260B VOC
Client: Bristol Environmental Remediation Services, LLC
Date: August 29, 2016

QC Batch: 430040

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 2339728)
  - Bromoform

QC Batch: 430041

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 2339730)
  - Bromoform

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 430040

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10358621001

R1: RPD value was outside control limits.

- MSD (Lab ID: 2341622)
  - Tetrahydrofuran

QC Batch: 430041

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10359186001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 2343936)
  - 1,1,1,2-Tetrachloroethane
  - 1,3-Dichlorobenzene
  - 2,2-Dichloropropane
  - Carbon tetrachloride
  - Dibromochloromethane
  - Dichlorodifluoromethane
  - Tetrachloroethene
  - Trichlorofluoromethane
  - cis-1,3-Dichloropropene

R1: RPD value was outside control limits.

- MSD (Lab ID: 2343936)
  - 1,1,2-Trichlorotrifluoroethane
  - 1,1-Dichloroethane
  - 1,2,4-Trichlorobenzene
  - n-Butylbenzene

QC Batch: 430893

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10358621007

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2343944)
  - 1,1,1,2-Tetrachloroethane
  - 1,1,2-Trichloroethane
  - Bromochloromethane

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PROJECT NARRATIVE

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Method: **EPA 8260B**
Description: 8260B VOC
Client: Bristol Environmental Remediation Services, LLC
Date: August 29, 2016

QC Batch: 430893

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10358621007

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- Trichlorofluoromethane
- MSD (Lab ID: 2343945)
  - 1,1,1,2-Tetrachloroethane
  - 1,1,1-Trichloroethane
  - 1,1,2,2-Tetrachloroethane
  - 1,1,2-Trichloroethane
  - 1,1,2-Trichlorotrifluoroethane
  - 1,2,3-Trichloropropane
  - 1,2,4-Trimethylbenzene
  - 1,2-Dibromoethane (EDB)
  - 1,2-Dichlorobenzene
  - 1,3-Dichloropropane
  - 2-Chlorotoluene
  - Benzene
  - Bromobenzene
  - Bromochloromethane
  - Bromodichloromethane
  - Bromomethane
  - Carbon tetrachloride
  - Chlorobenzene
  - Chloroethane
  - Chloroform
  - Chloromethane
  - Dibromomethane
  - Dichlorodifluoromethane
  - Dichlorofluoromethane
  - Hexachloro-1,3-butadiene
  - Tetrachloroethene
  - Trichloroethene
  - Trichlorofluoromethane
  - Vinyl chloride
  - cis-1,3-Dichloropropene
  - n-Butylbenzene
  - p-Isopropyltoluene
  - trans-1,2-Dichloroethene

R1: RPD value was outside control limits.

- MSD (Lab ID: 2343945)
  - Chloromethane

Additional Comments:

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PROJECT NARRATIVE

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Method: **SM 2510B**
Description: 2510B Specific Conductance
Client: Bristol Environmental Remediation Services, LLC
Date: August 29, 2016

General Information:
5 samples were analyzed for SM 2510B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: Bristol Environmental Remediation Services, LLC
Date: August 29, 2016

General Information:
5 samples were analyzed for SM 4500-H+B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA required holding time.
- 1608TOWEREQB (Lab ID: 10358621011)
- 1608TOWERMW16E (Lab ID: 10358621004)
- 1608TOWERMW21 (Lab ID: 10358621005)
- 1608TOWERMW21D (Lab ID: 10358621007)
- 1608TOWERMW21M (Lab ID: 10358621006)

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Method: **SM 4500-S2-D**
Description: 4500S2D Sulfide Water
Client: Bristol Environmental Remediation Services, LLC
Date: August 29, 2016

General Information:
5 samples were analyzed for SM 4500-S2-D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Method: **SM 4500-S H**
Description: 4500S2H Sulfide as H2S Calc
Client: Bristol Environmental Remediation Services, LLC
Date: August 29, 2016

General Information:
5 samples were analyzed for SM 4500-S H. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Method: **SM 4500-NO3 H**
Description: SM4500NO3-H, NO2 + NO3 pres.
Client: Bristol Environmental Remediation Services, LLC
Date: August 29, 2016

General Information:
5 samples were analyzed for SM 4500-NO3 H. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 431923

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10358583039,10358621007

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2349008)
  - Nitrogen, NO2 plus NO3
- MSD (Lab ID: 2349009)
  - Nitrogen, NO2 plus NO3

Additional Comments:

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(612)607-1700

PROJECT NARRATIVE

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Method: **ASTM D516**
Description: ASTM D516 Sulfate Water
Client: Bristol Environmental Remediation Services, LLC
Date: August 29, 2016

General Information:
5 samples were analyzed for ASTM D516. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 430263

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10358073002,10358621007

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 2340954)
  - Sulfate

Additional Comments:

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PROJECT NARRATIVE

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Method: **SM 4500-NO2 B**
Description: SM4500NO2-B, Nitrite, unpres
Client: Bristol Environmental Remediation Services, LLC
Date: August 29, 2016

General Information:
5 samples were analyzed for SM 4500-NO2 B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the recognized method holding time.
- 1608TOWERMW16E (Lab ID: 10358621004)

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Sample: 1608TOWERMW16 **Lab ID: 10358621001** Collected: 08/08/16 10:55 Received: 08/10/16 12:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**<0.0016**	ug/L	0.0097	0.0016	1	08/15/16 15:31	08/18/16 02:52	106-93-4	
Surrogates									
4-Bromofluorobenzene (S)	22	%.	30-150		1	08/15/16 15:31	08/18/16 02:52	460-00-4	1M,S5
8260B VOC	Analytical Method: EPA 8260B								
Acetone	**2.4J**	ug/L	20.0	0.64	1		08/11/16 21:16	67-64-1	B
Allyl chloride	**<0.25**	ug/L	4.0	0.25	1		08/11/16 21:16	107-05-1	
Benzene	**0.75J**	ug/L	1.0	0.16	1		08/11/16 21:16	71-43-2	
Bromobenzene	**<0.34**	ug/L	1.0	0.34	1		08/11/16 21:16	108-86-1	
Bromochloromethane	**<0.19**	ug/L	1.0	0.19	1		08/11/16 21:16	74-97-5	
Bromodichloromethane	**<0.24**	ug/L	1.0	0.24	1		08/11/16 21:16	75-27-4	
Bromoform	**<0.27**	ug/L	10.0	0.27	1		08/11/16 21:16	75-25-2	L2
Bromomethane	**<0.44**	ug/L	4.0	0.44	1		08/11/16 21:16	74-83-9	
2-Butanone (MEK)	**<1.1**	ug/L	5.0	1.1	1		08/11/16 21:16	78-93-3	
n-Butylbenzene	**<0.16**	ug/L	1.0	0.16	1		08/11/16 21:16	104-51-8	
sec-Butylbenzene	**<0.19**	ug/L	1.0	0.19	1		08/11/16 21:16	135-98-8	
tert-Butylbenzene	**<0.22**	ug/L	1.0	0.22	1		08/11/16 21:16	98-06-6	
Carbon tetrachloride	**<0.20**	ug/L	4.0	0.20	1		08/11/16 21:16	56-23-5	
Chlorobenzene	**<0.11**	ug/L	1.0	0.11	1		08/11/16 21:16	108-90-7	
Chloroethane	**<0.34**	ug/L	4.0	0.34	1		08/11/16 21:16	75-00-3	
Chloroform	**<0.21**	ug/L	1.0	0.21	1		08/11/16 21:16	67-66-3	
Chloromethane	**<0.25**	ug/L	4.0	0.25	1		08/11/16 21:16	74-87-3	
2-Chlorotoluene	**<0.30**	ug/L	1.0	0.30	1		08/11/16 21:16	95-49-8	
4-Chlorotoluene	**<0.26**	ug/L	1.0	0.26	1		08/11/16 21:16	106-43-4	
1,2-Dibromo-3-chloropropane	**<0.60**	ug/L	10.0	0.60	1		08/11/16 21:16	96-12-8	
Dibromochloromethane	**<0.16**	ug/L	4.0	0.16	1		08/11/16 21:16	124-48-1	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	0.20	1		08/11/16 21:16	106-93-4	
Dibromomethane	**<0.19**	ug/L	4.0	0.19	1		08/11/16 21:16	74-95-3	
1,2-Dichlorobenzene	**<0.17**	ug/L	1.0	0.17	1		08/11/16 21:16	95-50-1	
1,3-Dichlorobenzene	**<0.12**	ug/L	1.0	0.12	1		08/11/16 21:16	541-73-1	
1,4-Dichlorobenzene	**<0.21**	ug/L	1.0	0.21	1		08/11/16 21:16	106-46-7	
Dichlorodifluoromethane	**<0.23**	ug/L	1.0	0.23	1		08/11/16 21:16	75-71-8	
1,1-Dichloroethane	**<0.17**	ug/L	4.0	0.17	1		08/11/16 21:16	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		08/11/16 21:16	107-06-2	
1,1-Dichloroethene	**<0.28**	ug/L	1.0	0.28	1		08/11/16 21:16	75-35-4	
cis-1,2-Dichloroethene	**<0.12**	ug/L	1.0	0.12	1		08/11/16 21:16	156-59-2	
trans-1,2-Dichloroethene	**<0.16**	ug/L	1.0	0.16	1		08/11/16 21:16	156-60-5	
Dichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		08/11/16 21:16	75-43-4	
1,2-Dichloropropane	**<0.22**	ug/L	4.0	0.22	1		08/11/16 21:16	78-87-5	
1,3-Dichloropropane	**<0.096**	ug/L	1.0	0.096	1		08/11/16 21:16	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	4.0	0.13	1		08/11/16 21:16	594-20-7	
1,1-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		08/11/16 21:16	563-58-6	
cis-1,3-Dichloropropene	**<0.15**	ug/L	4.0	0.15	1		08/11/16 21:16	10061-01-5	
trans-1,3-Dichloropropene	**<0.15**	ug/L	4.0	0.15	1		08/11/16 21:16	10061-02-6	
Diethyl ether (Ethyl ether)	**<0.19**	ug/L	4.0	0.19	1		08/11/16 21:16	60-29-7	
Ethylbenzene	**<0.15**	ug/L	1.0	0.15	1		08/11/16 21:16	100-41-4	

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ANALYTICAL RESULTS

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Sample: 1608TOWERMW16 **Lab ID: 10358621001** Collected: 08/08/16 10:55 Received: 08/10/16 12:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B								
Hexachloro-1,3-butadiene	**<0.18**	ug/L	4.0	0.18	1		08/11/16 21:16	87-68-3	
Isopropylbenzene (Cumene)	**<0.25**	ug/L	1.0	0.25	1		08/11/16 21:16	98-82-8	
p-Isopropyltoluene	**<0.19**	ug/L	1.0	0.19	1		08/11/16 21:16	99-87-6	
Methylene Chloride	**<0.29**	ug/L	4.0	0.29	1		08/11/16 21:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.43**	ug/L	5.0	0.43	1		08/11/16 21:16	108-10-1	
Methyl-tert-butyl ether	**<0.15**	ug/L	1.0	0.15	1		08/11/16 21:16	1634-04-4	
Naphthalene	**<0.20**	ug/L	4.0	0.20	1		08/11/16 21:16	91-20-3	
n-Propylbenzene	**<0.23**	ug/L	1.0	0.23	1		08/11/16 21:16	103-65-1	
Styrene	**<0.29**	ug/L	1.0	0.29	1		08/11/16 21:16	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.17**	ug/L	4.0	0.17	1		08/11/16 21:16	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.22**	ug/L	1.0	0.22	1		08/11/16 21:16	79-34-5	
Tetrachloroethene	**<0.25**	ug/L	1.0	0.25	1		08/11/16 21:16	127-18-4	
Tetrahydrofuran	**<1.5**	ug/L	10.0	1.5	1		08/11/16 21:16	109-99-9	R1
Toluene	**<0.14**	ug/L	1.0	0.14	1		08/11/16 21:16	108-88-3	
1,2,3-Trichlorobenzene	**<0.21**	ug/L	1.0	0.21	1		08/11/16 21:16	87-61-6	
1,2,4-Trichlorobenzene	**<0.21**	ug/L	1.0	0.21	1		08/11/16 21:16	120-82-1	
1,1,1-Trichloroethane	**<0.17**	ug/L	1.0	0.17	1		08/11/16 21:16	71-55-6	
1,1,2-Trichloroethane	**<0.15**	ug/L	1.0	0.15	1		08/11/16 21:16	79-00-5	
Trichloroethene	**<0.20**	ug/L	0.40	0.20	1		08/11/16 21:16	79-01-6	
Trichlorofluoromethane	**<0.33**	ug/L	1.0	0.33	1		08/11/16 21:16	75-69-4	
1,2,3-Trichloropropane	**<0.28**	ug/L	4.0	0.28	1		08/11/16 21:16	96-18-4	
1,1,2-Trichlorotrifluoroethane	**<0.32**	ug/L	1.0	0.32	1		08/11/16 21:16	76-13-1	
1,2,4-Trimethylbenzene	**<0.18**	ug/L	1.0	0.18	1		08/11/16 21:16	95-63-6	
1,3,5-Trimethylbenzene	**<0.27**	ug/L	1.0	0.27	1		08/11/16 21:16	108-67-8	
Vinyl chloride	**<0.29**	ug/L	0.40	0.29	1		08/11/16 21:16	75-01-4	
Xylene (Total)	**<0.32**	ug/L	3.0	0.32	1		08/11/16 21:16	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	106	%.	75-125		1		08/11/16 21:16	17060-07-0	
Toluene-d8 (S)	105	%.	75-125		1		08/11/16 21:16	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125		1		08/11/16 21:16	460-00-4	

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ANALYTICAL RESULTS

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Sample: 1608TOWERMW16D **Lab ID: 10358621002** Collected: 08/08/16 13:00 Received: 08/10/16 12:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**<0.0016**	ug/L	0.0098	0.0016	1	08/15/16 15:31	08/18/16 03:18	106-93-4	
Surrogates									
4-Bromofluorobenzene (S)	78	%.	30-150		1	08/15/16 15:31	08/18/16 03:18	460-00-4	
8260B VOC	Analytical Method: EPA 8260B								
Acetone	**<0.64**	ug/L	20.0	0.64	1		08/12/16 01:53	67-64-1	
Allyl chloride	**<0.25**	ug/L	4.0	0.25	1		08/12/16 01:53	107-05-1	
Benzene	**1240**	ug/L	20.0	3.1	20		08/14/16 16:30	71-43-2	
Bromobenzene	**<0.34**	ug/L	1.0	0.34	1		08/12/16 01:53	108-86-1	
Bromochloromethane	**<0.19**	ug/L	1.0	0.19	1		08/12/16 01:53	74-97-5	
Bromodichloromethane	**<0.24**	ug/L	1.0	0.24	1		08/12/16 01:53	75-27-4	
Bromoform	**<0.27**	ug/L	10.0	0.27	1		08/12/16 01:53	75-25-2	L2
Bromomethane	**<0.44**	ug/L	4.0	0.44	1		08/12/16 01:53	74-83-9	
2-Butanone (MEK)	**<1.1**	ug/L	5.0	1.1	1		08/12/16 01:53	78-93-3	
n-Butylbenzene	**3.3**	ug/L	1.0	0.16	1		08/12/16 01:53	104-51-8	
sec-Butylbenzene	**4.0**	ug/L	1.0	0.19	1		08/12/16 01:53	135-98-8	
tert-Butylbenzene	**<0.22**	ug/L	1.0	0.22	1		08/12/16 01:53	98-06-6	
Carbon tetrachloride	**<0.20**	ug/L	4.0	0.20	1		08/12/16 01:53	56-23-5	
Chlorobenzene	**<0.11**	ug/L	1.0	0.11	1		08/12/16 01:53	108-90-7	
Chloroethane	**<0.34**	ug/L	4.0	0.34	1		08/12/16 01:53	75-00-3	
Chloroform	**<0.21**	ug/L	1.0	0.21	1		08/12/16 01:53	67-66-3	
Chloromethane	**<0.25**	ug/L	4.0	0.25	1		08/12/16 01:53	74-87-3	
2-Chlorotoluene	**<0.30**	ug/L	1.0	0.30	1		08/12/16 01:53	95-49-8	
4-Chlorotoluene	**<0.26**	ug/L	1.0	0.26	1		08/12/16 01:53	106-43-4	
1,2-Dibromo-3-chloropropane	**<0.60**	ug/L	10.0	0.60	1		08/12/16 01:53	96-12-8	
Dibromochloromethane	**<0.16**	ug/L	4.0	0.16	1		08/12/16 01:53	124-48-1	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	0.20	1		08/12/16 01:53	106-93-4	
Dibromomethane	**<0.19**	ug/L	4.0	0.19	1		08/12/16 01:53	74-95-3	
1,2-Dichlorobenzene	**<0.17**	ug/L	1.0	0.17	1		08/12/16 01:53	95-50-1	
1,3-Dichlorobenzene	**<0.12**	ug/L	1.0	0.12	1		08/12/16 01:53	541-73-1	
1,4-Dichlorobenzene	**<0.21**	ug/L	1.0	0.21	1		08/12/16 01:53	106-46-7	
Dichlorodifluoromethane	**<0.23**	ug/L	1.0	0.23	1		08/12/16 01:53	75-71-8	
1,1-Dichloroethane	**<0.17**	ug/L	4.0	0.17	1		08/12/16 01:53	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		08/12/16 01:53	107-06-2	
1,1-Dichloroethene	**<0.28**	ug/L	1.0	0.28	1		08/12/16 01:53	75-35-4	
cis-1,2-Dichloroethene	**<0.12**	ug/L	1.0	0.12	1		08/12/16 01:53	156-59-2	
trans-1,2-Dichloroethene	**<0.16**	ug/L	1.0	0.16	1		08/12/16 01:53	156-60-5	
Dichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		08/12/16 01:53	75-43-4	
1,2-Dichloropropane	**<0.22**	ug/L	4.0	0.22	1		08/12/16 01:53	78-87-5	
1,3-Dichloropropane	**<0.096**	ug/L	1.0	0.096	1		08/12/16 01:53	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	4.0	0.13	1		08/12/16 01:53	594-20-7	
1,1-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		08/12/16 01:53	563-58-6	
cis-1,3-Dichloropropene	**<0.15**	ug/L	4.0	0.15	1		08/12/16 01:53	10061-01-5	
trans-1,3-Dichloropropene	**<0.15**	ug/L	4.0	0.15	1		08/12/16 01:53	10061-02-6	
Diethyl ether (Ethyl ether)	**<0.19**	ug/L	4.0	0.19	1		08/12/16 01:53	60-29-7	
Ethylbenzene	**61.8**	ug/L	1.0	0.15	1		08/12/16 01:53	100-41-4	

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ANALYTICAL RESULTS

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Sample: 1608TOWERMW16D **Lab ID: 10358621002** Collected: 08/08/16 13:00 Received: 08/10/16 12:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B								
Hexachloro-1,3-butadiene	**<0.18**	ug/L	4.0	0.18	1		08/12/16 01:53	87-68-3	
Isopropylbenzene (Cumene)	**26.0**	ug/L	1.0	0.25	1		08/12/16 01:53	98-82-8	
p-Isopropyltoluene	**1.6**	ug/L	1.0	0.19	1		08/12/16 01:53	99-87-6	
Methylene Chloride	**<0.29**	ug/L	4.0	0.29	1		08/12/16 01:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.69J**	ug/L	5.0	0.43	1		08/12/16 01:53	108-10-1	
Methyl-tert-butyl ether	**1.9**	ug/L	1.0	0.15	1		08/12/16 01:53	1634-04-4	
Naphthalene	**109**	ug/L	4.0	0.20	1		08/12/16 01:53	91-20-3	
n-Propylbenzene	**66.9**	ug/L	1.0	0.23	1		08/12/16 01:53	103-65-1	
Styrene	**<0.29**	ug/L	1.0	0.29	1		08/12/16 01:53	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.17**	ug/L	4.0	0.17	1		08/12/16 01:53	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.22**	ug/L	1.0	0.22	1		08/12/16 01:53	79-34-5	
Tetrachloroethene	**<0.25**	ug/L	1.0	0.25	1		08/12/16 01:53	127-18-4	
Tetrahydrofuran	**<1.5**	ug/L	10.0	1.5	1		08/12/16 01:53	109-99-9	
Toluene	**22.2**	ug/L	1.0	0.14	1		08/12/16 01:53	108-88-3	
1,2,3-Trichlorobenzene	**<0.21**	ug/L	1.0	0.21	1		08/12/16 01:53	87-61-6	
1,2,4-Trichlorobenzene	**<0.21**	ug/L	1.0	0.21	1		08/12/16 01:53	120-82-1	
1,1,1-Trichloroethane	**<0.17**	ug/L	1.0	0.17	1		08/12/16 01:53	71-55-6	
1,1,2-Trichloroethane	**<0.15**	ug/L	1.0	0.15	1		08/12/16 01:53	79-00-5	
Trichloroethene	**<0.20**	ug/L	0.40	0.20	1		08/12/16 01:53	79-01-6	
Trichlorofluoromethane	**<0.33**	ug/L	1.0	0.33	1		08/12/16 01:53	75-69-4	
1,2,3-Trichloropropane	**<0.28**	ug/L	4.0	0.28	1		08/12/16 01:53	96-18-4	
1,1,2-Trichlorotrifluoroethane	**<0.32**	ug/L	1.0	0.32	1		08/12/16 01:53	76-13-1	
1,2,4-Trimethylbenzene	**367**	ug/L	20.0	3.6	20		08/14/16 16:30	95-63-6	
1,3,5-Trimethylbenzene	**79.5**	ug/L	1.0	0.27	1		08/12/16 01:53	108-67-8	
Vinyl chloride	**<0.29**	ug/L	0.40	0.29	1		08/12/16 01:53	75-01-4	
Xylene (Total)	**1610**	ug/L	60.0	6.3	20		08/14/16 16:30	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	100	%.	75-125		1		08/12/16 01:53	17060-07-0	
Toluene-d8 (S)	106	%.	75-125		1		08/12/16 01:53	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	75-125		1		08/12/16 01:53	460-00-4	

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ANALYTICAL RESULTS

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Sample: 1608TOWERMW18D **Lab ID: 10358621003** Collected: 08/08/16 13:30 Received: 08/10/16 12:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**<0.0016**	ug/L	0.010	0.0016	1	08/15/16 15:31	08/18/16 03:44	106-93-4	
Surrogates									
4-Bromofluorobenzene (S)	80	%.	30-150		1	08/15/16 15:31	08/18/16 03:44	460-00-4	
8260B VOC	Analytical Method: EPA 8260B								
Acetone	**<0.64**	ug/L	20.0	0.64	1		08/12/16 02:09	67-64-1	
Allyl chloride	**<0.25**	ug/L	4.0	0.25	1		08/12/16 02:09	107-05-1	
Benzene	**1300**	ug/L	20.0	3.1	20		08/15/16 21:59	71-43-2	
Bromobenzene	**<0.34**	ug/L	1.0	0.34	1		08/12/16 02:09	108-86-1	
Bromochloromethane	**<0.19**	ug/L	1.0	0.19	1		08/12/16 02:09	74-97-5	
Bromodichloromethane	**<0.24**	ug/L	1.0	0.24	1		08/12/16 02:09	75-27-4	
Bromoform	**<0.27**	ug/L	10.0	0.27	1		08/12/16 02:09	75-25-2	L2
Bromomethane	**<0.44**	ug/L	4.0	0.44	1		08/12/16 02:09	74-83-9	
2-Butanone (MEK)	**<1.1**	ug/L	5.0	1.1	1		08/12/16 02:09	78-93-3	
n-Butylbenzene	**3.5**	ug/L	1.0	0.16	1		08/12/16 02:09	104-51-8	
sec-Butylbenzene	**4.3**	ug/L	1.0	0.19	1		08/12/16 02:09	135-98-8	
tert-Butylbenzene	**<0.22**	ug/L	1.0	0.22	1		08/12/16 02:09	98-06-6	
Carbon tetrachloride	**<0.20**	ug/L	4.0	0.20	1		08/12/16 02:09	56-23-5	
Chlorobenzene	**<0.11**	ug/L	1.0	0.11	1		08/12/16 02:09	108-90-7	
Chloroethane	**<0.34**	ug/L	4.0	0.34	1		08/12/16 02:09	75-00-3	
Chloroform	**<0.21**	ug/L	1.0	0.21	1		08/12/16 02:09	67-66-3	
Chloromethane	**<0.25**	ug/L	4.0	0.25	1		08/12/16 02:09	74-87-3	
2-Chlorotoluene	**<0.30**	ug/L	1.0	0.30	1		08/12/16 02:09	95-49-8	
4-Chlorotoluene	**<0.26**	ug/L	1.0	0.26	1		08/12/16 02:09	106-43-4	
1,2-Dibromo-3-chloropropane	**<0.60**	ug/L	10.0	0.60	1		08/12/16 02:09	96-12-8	
Dibromochloromethane	**<0.16**	ug/L	4.0	0.16	1		08/12/16 02:09	124-48-1	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	0.20	1		08/12/16 02:09	106-93-4	
Dibromomethane	**<0.19**	ug/L	4.0	0.19	1		08/12/16 02:09	74-95-3	
1,2-Dichlorobenzene	**<0.17**	ug/L	1.0	0.17	1		08/12/16 02:09	95-50-1	
1,3-Dichlorobenzene	**<0.12**	ug/L	1.0	0.12	1		08/12/16 02:09	541-73-1	
1,4-Dichlorobenzene	**<0.21**	ug/L	1.0	0.21	1		08/12/16 02:09	106-46-7	
Dichlorodifluoromethane	**<0.23**	ug/L	1.0	0.23	1		08/12/16 02:09	75-71-8	
1,1-Dichloroethane	**<0.17**	ug/L	4.0	0.17	1		08/12/16 02:09	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		08/12/16 02:09	107-06-2	
1,1-Dichloroethene	**<0.28**	ug/L	1.0	0.28	1		08/12/16 02:09	75-35-4	
cis-1,2-Dichloroethene	**<0.12**	ug/L	1.0	0.12	1		08/12/16 02:09	156-59-2	
trans-1,2-Dichloroethene	**<0.16**	ug/L	1.0	0.16	1		08/12/16 02:09	156-60-5	
Dichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		08/12/16 02:09	75-43-4	
1,2-Dichloropropane	**<0.22**	ug/L	4.0	0.22	1		08/12/16 02:09	78-87-5	
1,3-Dichloropropane	**<0.096**	ug/L	1.0	0.096	1		08/12/16 02:09	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	4.0	0.13	1		08/12/16 02:09	594-20-7	
1,1-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		08/12/16 02:09	563-58-6	
cis-1,3-Dichloropropene	**<0.15**	ug/L	4.0	0.15	1		08/12/16 02:09	10061-01-5	
trans-1,3-Dichloropropene	**<0.15**	ug/L	4.0	0.15	1		08/12/16 02:09	10061-02-6	
Diethyl ether (Ethyl ether)	**<0.19**	ug/L	4.0	0.19	1		08/12/16 02:09	60-29-7	
Ethylbenzene	**65.3**	ug/L	1.0	0.15	1		08/12/16 02:09	100-41-4	

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ANALYTICAL RESULTS

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Sample: 1608TOWERMW18D **Lab ID: 10358621003** Collected: 08/08/16 13:30 Received: 08/10/16 12:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B								
Hexachloro-1,3-butadiene	**<0.18**	ug/L	4.0	0.18	1		08/12/16 02:09	87-68-3	
Isopropylbenzene (Cumene)	**26.7**	ug/L	1.0	0.25	1		08/12/16 02:09	98-82-8	
p-Isopropyltoluene	**1.7**	ug/L	1.0	0.19	1		08/12/16 02:09	99-87-6	
Methylene Chloride	**<0.29**	ug/L	4.0	0.29	1		08/12/16 02:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.72J**	ug/L	5.0	0.43	1		08/12/16 02:09	108-10-1	
Methyl-tert-butyl ether	**2.3**	ug/L	1.0	0.15	1		08/12/16 02:09	1634-04-4	
Naphthalene	**114**	ug/L	4.0	0.20	1		08/12/16 02:09	91-20-3	
n-Propylbenzene	**69.5**	ug/L	1.0	0.23	1		08/12/16 02:09	103-65-1	
Styrene	**<0.29**	ug/L	1.0	0.29	1		08/12/16 02:09	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.17**	ug/L	4.0	0.17	1		08/12/16 02:09	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.22**	ug/L	1.0	0.22	1		08/12/16 02:09	79-34-5	
Tetrachloroethene	**<0.25**	ug/L	1.0	0.25	1		08/12/16 02:09	127-18-4	
Tetrahydrofuran	**<1.5**	ug/L	10.0	1.5	1		08/12/16 02:09	109-99-9	
Toluene	**23.0**	ug/L	1.0	0.14	1		08/12/16 02:09	108-88-3	
1,2,3-Trichlorobenzene	**<0.21**	ug/L	1.0	0.21	1		08/12/16 02:09	87-61-6	
1,2,4-Trichlorobenzene	**<0.21**	ug/L	1.0	0.21	1		08/12/16 02:09	120-82-1	
1,1,1-Trichloroethane	**<0.17**	ug/L	1.0	0.17	1		08/12/16 02:09	71-55-6	
1,1,2-Trichloroethane	**<0.15**	ug/L	1.0	0.15	1		08/12/16 02:09	79-00-5	
Trichloroethene	**<0.20**	ug/L	0.40	0.20	1		08/12/16 02:09	79-01-6	
Trichlorofluoromethane	**<0.33**	ug/L	1.0	0.33	1		08/12/16 02:09	75-69-4	
1,2,3-Trichloropropane	**<0.28**	ug/L	4.0	0.28	1		08/12/16 02:09	96-18-4	
1,1,2-Trichlorotrifluoroethane	**<0.32**	ug/L	1.0	0.32	1		08/12/16 02:09	76-13-1	
1,2,4-Trimethylbenzene	**336**	ug/L	20.0	3.6	20		08/15/16 21:59	95-63-6	
1,3,5-Trimethylbenzene	**84.3**	ug/L	1.0	0.27	1		08/12/16 02:09	108-67-8	
Vinyl chloride	**<0.29**	ug/L	0.40	0.29	1		08/12/16 02:09	75-01-4	
Xylene (Total)	**1410**	ug/L	60.0	6.3	20		08/15/16 21:59	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	103	%.	75-125		1		08/12/16 02:09	17060-07-0	
Toluene-d8 (S)	106	%.	75-125		1		08/12/16 02:09	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125		1		08/12/16 02:09	460-00-4	

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ANALYTICAL RESULTS

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Sample: 1608TOWERMW16E **Lab ID: 10358621004** Collected: 08/09/16 09:00 Received: 08/10/16 12:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**<0.0016**	ug/L	0.0098	0.0016	1	08/15/16 15:31	08/18/16 04:10	106-93-4	
Surrogates									
4-Bromofluorobenzene (S)	84	%.	30-150		1	08/15/16 15:31	08/18/16 04:10	460-00-4	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3020								
Arsenic	**0.59**	ug/L	0.50	0.091	1	08/18/16 16:36	08/19/16 14:05	7440-38-2	
Barium	**205**	ug/L	0.30	0.019	1	08/18/16 16:36	08/19/16 14:05	7440-39-3	
Cadmium	**<0.013**	ug/L	0.080	0.013	1	08/18/16 16:36	08/19/16 14:05	7440-43-9	
Chromium	**2.3**	ug/L	0.50	0.14	1	08/18/16 16:36	08/19/16 14:05	7440-47-3	
Iron	**1460**	ug/L	50.0	18.5	1	08/18/16 16:36	08/19/16 14:05	7439-89-6	
Lead	**0.29**	ug/L	0.10	0.012	1	08/18/16 16:36	08/19/16 14:05	7439-92-1	B
Manganese	**1650**	ug/L	5.0	1.3	10	08/18/16 16:36	08/20/16 16:13	7439-96-5	
Selenium	**0.18J**	ug/L	0.50	0.13	1	08/18/16 16:36	08/19/16 14:05	7782-49-2	
Silver	**<0.0092**	ug/L	0.50	0.0092	1	08/18/16 16:36	08/19/16 14:05	7440-22-4	
7470A Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**<0.031**	ug/L	0.10	0.031	1	08/25/16 13:15	08/25/16 15:16	7439-97-6	
8260B VOC	Analytical Method: EPA 8260B								
Acetone	**10J**	ug/L	20.0	0.64	1		08/12/16 09:19	67-64-1	B
Allyl chloride	**<0.25**	ug/L	4.0	0.25	1		08/12/16 09:19	107-05-1	
Benzene	**768**	ug/L	20.0	3.1	20		08/14/16 16:46	71-43-2	
Bromobenzene	**<0.34**	ug/L	1.0	0.34	1		08/12/16 09:19	108-86-1	
Bromochloromethane	**<0.19**	ug/L	1.0	0.19	1		08/12/16 09:19	74-97-5	
Bromodichloromethane	**<0.24**	ug/L	1.0	0.24	1		08/12/16 09:19	75-27-4	
Bromoform	**<0.27**	ug/L	10.0	0.27	1		08/12/16 09:19	75-25-2	L2
Bromomethane	**<0.44**	ug/L	4.0	0.44	1		08/12/16 09:19	74-83-9	
2-Butanone (MEK)	**<1.1**	ug/L	5.0	1.1	1		08/12/16 09:19	78-93-3	
n-Butylbenzene	**0.59J**	ug/L	1.0	0.16	1		08/12/16 09:19	104-51-8	
sec-Butylbenzene	**1.3**	ug/L	1.0	0.19	1		08/12/16 09:19	135-98-8	
tert-Butylbenzene	**<0.22**	ug/L	1.0	0.22	1		08/12/16 09:19	98-06-6	
Carbon tetrachloride	**<0.20**	ug/L	4.0	0.20	1		08/12/16 09:19	56-23-5	
Chlorobenzene	**<0.11**	ug/L	1.0	0.11	1		08/12/16 09:19	108-90-7	
Chloroethane	**<0.34**	ug/L	4.0	0.34	1		08/12/16 09:19	75-00-3	
Chloroform	**<0.21**	ug/L	1.0	0.21	1		08/12/16 09:19	67-66-3	
Chloromethane	**<0.25**	ug/L	4.0	0.25	1		08/12/16 09:19	74-87-3	
2-Chlorotoluene	**<0.30**	ug/L	1.0	0.30	1		08/12/16 09:19	95-49-8	
4-Chlorotoluene	**<0.26**	ug/L	1.0	0.26	1		08/12/16 09:19	106-43-4	
1,2-Dibromo-3-chloropropane	**<0.60**	ug/L	10.0	0.60	1		08/12/16 09:19	96-12-8	
Dibromochloromethane	**<0.16**	ug/L	4.0	0.16	1		08/12/16 09:19	124-48-1	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	0.20	1		08/12/16 09:19	106-93-4	
Dibromomethane	**<0.19**	ug/L	4.0	0.19	1		08/12/16 09:19	74-95-3	
1,2-Dichlorobenzene	**<0.17**	ug/L	1.0	0.17	1		08/12/16 09:19	95-50-1	
1,3-Dichlorobenzene	**<0.12**	ug/L	1.0	0.12	1		08/12/16 09:19	541-73-1	
1,4-Dichlorobenzene	**0.28J**	ug/L	1.0	0.21	1		08/12/16 09:19	106-46-7	
Dichlorodifluoromethane	**<0.23**	ug/L	1.0	0.23	1		08/12/16 09:19	75-71-8	

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ANALYTICAL RESULTS

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Sample: 1608TOWERMW16E **Lab ID: 10358621004** Collected: 08/09/16 09:00 Received: 08/10/16 12:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B								
1,1-Dichloroethane	**<0.17**	ug/L	4.0	0.17	1		08/12/16 09:19	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		08/12/16 09:19	107-06-2	
1,1-Dichloroethene	**<0.28**	ug/L	1.0	0.28	1		08/12/16 09:19	75-35-4	
cis-1,2-Dichloroethene	**<0.12**	ug/L	1.0	0.12	1		08/12/16 09:19	156-59-2	
trans-1,2-Dichloroethene	**<0.16**	ug/L	1.0	0.16	1		08/12/16 09:19	156-60-5	
Dichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		08/12/16 09:19	75-43-4	
1,2-Dichloropropane	**<0.22**	ug/L	4.0	0.22	1		08/12/16 09:19	78-87-5	
1,3-Dichloropropane	**<0.096**	ug/L	1.0	0.096	1		08/12/16 09:19	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	4.0	0.13	1		08/12/16 09:19	594-20-7	
1,1-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		08/12/16 09:19	563-58-6	
cis-1,3-Dichloropropene	**<0.15**	ug/L	4.0	0.15	1		08/12/16 09:19	10061-01-5	
trans-1,3-Dichloropropene	**<0.15**	ug/L	4.0	0.15	1		08/12/16 09:19	10061-02-6	
Diethyl ether (Ethyl ether)	**<0.19**	ug/L	4.0	0.19	1		08/12/16 09:19	60-29-7	
Ethylbenzene	**8.9**	ug/L	1.0	0.15	1		08/12/16 09:19	100-41-4	
Hexachloro-1,3-butadiene	**<0.18**	ug/L	4.0	0.18	1		08/12/16 09:19	87-68-3	
Isopropylbenzene (Cumene)	**9.9**	ug/L	1.0	0.25	1		08/12/16 09:19	98-82-8	
p-Isopropyltoluene	**0.52J**	ug/L	1.0	0.19	1		08/12/16 09:19	99-87-6	
Methylene Chloride	**<0.29**	ug/L	4.0	0.29	1		08/12/16 09:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.43**	ug/L	5.0	0.43	1		08/12/16 09:19	108-10-1	
Methyl-tert-butyl ether	**10.0**	ug/L	1.0	0.15	1		08/12/16 09:19	1634-04-4	
Naphthalene	**28.2**	ug/L	4.0	0.20	1		08/12/16 09:19	91-20-3	
n-Propylbenzene	**18.4**	ug/L	1.0	0.23	1		08/12/16 09:19	103-65-1	
Styrene	**<0.29**	ug/L	1.0	0.29	1		08/12/16 09:19	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.17**	ug/L	4.0	0.17	1		08/12/16 09:19	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.22**	ug/L	1.0	0.22	1		08/12/16 09:19	79-34-5	
Tetrachloroethene	**<0.25**	ug/L	1.0	0.25	1		08/12/16 09:19	127-18-4	
Tetrahydrofuran	**<1.5**	ug/L	10.0	1.5	1		08/12/16 09:19	109-99-9	
Toluene	**6.1**	ug/L	1.0	0.14	1		08/12/16 09:19	108-88-3	
1,2,3-Trichlorobenzene	**<0.21**	ug/L	1.0	0.21	1		08/12/16 09:19	87-61-6	
1,2,4-Trichlorobenzene	**<0.21**	ug/L	1.0	0.21	1		08/12/16 09:19	120-82-1	
1,1,1-Trichloroethane	**<0.17**	ug/L	1.0	0.17	1		08/12/16 09:19	71-55-6	
1,1,2-Trichloroethane	**<0.15**	ug/L	1.0	0.15	1		08/12/16 09:19	79-00-5	
Trichloroethene	**<0.20**	ug/L	0.40	0.20	1		08/12/16 09:19	79-01-6	
Trichlorofluoromethane	**<0.33**	ug/L	1.0	0.33	1		08/12/16 09:19	75-69-4	
1,2,3-Trichloropropane	**<0.28**	ug/L	4.0	0.28	1		08/12/16 09:19	96-18-4	
1,1,2-Trichlorotrifluoroethane	**<0.32**	ug/L	1.0	0.32	1		08/12/16 09:19	76-13-1	
1,2,4-Trimethylbenzene	**96.6**	ug/L	1.0	0.18	1		08/12/16 09:19	95-63-6	
1,3,5-Trimethylbenzene	**16.9**	ug/L	1.0	0.27	1		08/12/16 09:19	108-67-8	
Vinyl chloride	**<0.29**	ug/L	0.40	0.29	1		08/12/16 09:19	75-01-4	
Xylene (Total)	**506**	ug/L	3.0	0.32	1		08/12/16 09:19	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	103	%.	75-125		1		08/12/16 09:19	17060-07-0	
Toluene-d8 (S)	105	%.	75-125		1		08/12/16 09:19	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125		1		08/12/16 09:19	460-00-4	

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ANALYTICAL RESULTS

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Sample: 1608TOWERMW16E **Lab ID: 10358621004** Collected: 08/09/16 09:00 Received: 08/10/16 12:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2510B Specific Conductance	Analytical Method: SM 2510B								
Specific Conductance	**1570**	umhos/cm	10.0	10.0	1		08/16/16 15:02		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**7.7**	Std. Units	0.10	0.10	1		08/15/16 19:10		H6
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D								
Sulfide	**0.024J**	mg/L	0.10	0.011	1		08/16/16 13:29		
4500S2H Sulfide as H2S Calc	Analytical Method: SM 4500-S H								
Sulfide as H2S (calc)	**<0.020**	mg/L	0.10	0.020	1		08/16/16 16:40		AL
SM4500NO3-H, NO2 + NO3 pres.	Analytical Method: SM 4500-NO3 H								
Nitrate as N	**<0.018**	mg/L	0.058	0.018	1		08/24/16 09:12	14797-55-8	
Nitrogen, NO2 plus NO3	**<0.050**	mg/L	0.17	0.050	1		08/24/16 09:12		
ASTM D516 Sulfate Water	Analytical Method: ASTM D516								
Sulfate	**1.2J**	mg/L	3.5	1.0	1		08/12/16 09:05	14808-79-8	
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B								
Nitrite as N	**0.0044J**	mg/L	0.012	0.0036	1		08/11/16 09:00	14797-65-0	H1

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ANALYTICAL RESULTS

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Sample: 1608TOWERMW21 **Lab ID: 10358621005** Collected: 08/09/16 11:20 Received: 08/10/16 12:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**0.0072J**	ug/L	0.0098	0.0016	1	08/15/16 15:31	08/18/16 04:37	106-93-4	
Surrogates									
4-Bromofluorobenzene (S)	73	%.	30-150		1	08/15/16 15:31	08/18/16 04:37	460-00-4	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3020								
Arsenic	**2.3**	ug/L	0.50	0.091	1	08/18/16 16:36	08/19/16 14:19	7440-38-2	
Barium	**95.9**	ug/L	0.30	0.019	1	08/18/16 16:36	08/19/16 14:19	7440-39-3	
Cadmium	**0.078J**	ug/L	0.080	0.013	1	08/18/16 16:36	08/19/16 14:19	7440-43-9	
Chromium	**8.5**	ug/L	0.50	0.14	1	08/18/16 16:36	08/19/16 14:19	7440-47-3	
Iron	**19200**	ug/L	50.0	18.5	1	08/18/16 16:36	08/19/16 14:19	7439-89-6	
Lead	**8.6**	ug/L	0.10	0.012	1	08/18/16 16:36	08/19/16 14:19	7439-92-1	
Manganese	**6550**	ug/L	10.0	2.5	20	08/18/16 16:36	08/20/16 16:15	7439-96-5	
Selenium	**0.39J**	ug/L	0.50	0.13	1	08/18/16 16:36	08/19/16 14:19	7782-49-2	
Silver	**0.042J**	ug/L	0.50	0.0092	1	08/18/16 16:36	08/19/16 14:19	7440-22-4	B
7470A Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**<0.031**	ug/L	0.10	0.031	1	08/25/16 13:15	08/25/16 15:18	7439-97-6	
8260B VOC	Analytical Method: EPA 8260B								
Acetone	**37.3**	ug/L	20.0	0.64	1		08/12/16 09:34	67-64-1	
Allyl chloride	**<0.25**	ug/L	4.0	0.25	1		08/12/16 09:34	107-05-1	
Benzene	**458**	ug/L	25.0	3.9	25		08/14/16 17:01	71-43-2	
Bromobenzene	**<0.34**	ug/L	1.0	0.34	1		08/12/16 09:34	108-86-1	
Bromochloromethane	**<0.19**	ug/L	1.0	0.19	1		08/12/16 09:34	74-97-5	
Bromodichloromethane	**<0.24**	ug/L	1.0	0.24	1		08/12/16 09:34	75-27-4	
Bromoform	**<0.27**	ug/L	10.0	0.27	1		08/12/16 09:34	75-25-2	L2
Bromomethane	**<0.44**	ug/L	4.0	0.44	1		08/12/16 09:34	74-83-9	
2-Butanone (MEK)	**<1.1**	ug/L	5.0	1.1	1		08/12/16 09:34	78-93-3	
n-Butylbenzene	**52.4**	ug/L	1.0	0.16	1		08/12/16 09:34	104-51-8	
sec-Butylbenzene	**21.6**	ug/L	1.0	0.19	1		08/12/16 09:34	135-98-8	
tert-Butylbenzene	**<0.22**	ug/L	1.0	0.22	1		08/12/16 09:34	98-06-6	
Carbon tetrachloride	**<0.20**	ug/L	4.0	0.20	1		08/12/16 09:34	56-23-5	
Chlorobenzene	**<0.11**	ug/L	1.0	0.11	1		08/12/16 09:34	108-90-7	
Chloroethane	**<0.34**	ug/L	4.0	0.34	1		08/12/16 09:34	75-00-3	
Chloroform	**<0.21**	ug/L	1.0	0.21	1		08/12/16 09:34	67-66-3	
Chloromethane	**<0.25**	ug/L	4.0	0.25	1		08/12/16 09:34	74-87-3	
2-Chlorotoluene	**<0.30**	ug/L	1.0	0.30	1		08/12/16 09:34	95-49-8	
4-Chlorotoluene	**<0.26**	ug/L	1.0	0.26	1		08/12/16 09:34	106-43-4	
1,2-Dibromo-3-chloropropane	**<0.60**	ug/L	10.0	0.60	1		08/12/16 09:34	96-12-8	
Dibromochloromethane	**<0.16**	ug/L	4.0	0.16	1		08/12/16 09:34	124-48-1	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	0.20	1		08/12/16 09:34	106-93-4	
Dibromomethane	**<0.19**	ug/L	4.0	0.19	1		08/12/16 09:34	74-95-3	
1,2-Dichlorobenzene	**<0.17**	ug/L	1.0	0.17	1		08/12/16 09:34	95-50-1	
1,3-Dichlorobenzene	**<0.12**	ug/L	1.0	0.12	1		08/12/16 09:34	541-73-1	
1,4-Dichlorobenzene	**<0.21**	ug/L	1.0	0.21	1		08/12/16 09:34	106-46-7	
Dichlorodifluoromethane	**<0.23**	ug/L	1.0	0.23	1		08/12/16 09:34	75-71-8	

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ANALYTICAL RESULTS

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Sample: 1608TOWERMW21 **Lab ID: 10358621005** Collected: 08/09/16 11:20 Received: 08/10/16 12:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B								
1,1-Dichloroethane	**<0.17**	ug/L	4.0	0.17	1		08/12/16 09:34	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		08/12/16 09:34	107-06-2	
1,1-Dichloroethene	**<0.28**	ug/L	1.0	0.28	1		08/12/16 09:34	75-35-4	
cis-1,2-Dichloroethene	**<0.12**	ug/L	1.0	0.12	1		08/12/16 09:34	156-59-2	
trans-1,2-Dichloroethene	**<0.16**	ug/L	1.0	0.16	1		08/12/16 09:34	156-60-5	
Dichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		08/12/16 09:34	75-43-4	
1,2-Dichloropropane	**<0.22**	ug/L	4.0	0.22	1		08/12/16 09:34	78-87-5	
1,3-Dichloropropane	**<0.096**	ug/L	1.0	0.096	1		08/12/16 09:34	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	4.0	0.13	1		08/12/16 09:34	594-20-7	
1,1-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		08/12/16 09:34	563-58-6	
cis-1,3-Dichloropropene	**<0.15**	ug/L	4.0	0.15	1		08/12/16 09:34	10061-01-5	
trans-1,3-Dichloropropene	**<0.15**	ug/L	4.0	0.15	1		08/12/16 09:34	10061-02-6	
Diethyl ether (Ethyl ether)	**<0.19**	ug/L	4.0	0.19	1		08/12/16 09:34	60-29-7	
Ethylbenzene	**1700**	ug/L	25.0	3.8	25		08/14/16 17:01	100-41-4	
Hexachloro-1,3-butadiene	**<0.18**	ug/L	4.0	0.18	1		08/12/16 09:34	87-68-3	
Isopropylbenzene (Cumene)	**111**	ug/L	1.0	0.25	1		08/12/16 09:34	98-82-8	
p-Isopropyltoluene	**15.9**	ug/L	1.0	0.19	1		08/12/16 09:34	99-87-6	
Methylene Chloride	**<0.29**	ug/L	4.0	0.29	1		08/12/16 09:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	**9.4**	ug/L	5.0	0.43	1		08/12/16 09:34	108-10-1	
Methyl-tert-butyl ether	**0.24J**	ug/L	1.0	0.15	1		08/12/16 09:34	1634-04-4	
Naphthalene	**703**	ug/L	100	5.1	25		08/14/16 17:01	91-20-3	
n-Propylbenzene	**268**	ug/L	25.0	5.8	25		08/14/16 17:01	103-65-1	
Styrene	**12.5**	ug/L	1.0	0.29	1		08/12/16 09:34	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.17**	ug/L	4.0	0.17	1		08/12/16 09:34	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.22**	ug/L	1.0	0.22	1		08/12/16 09:34	79-34-5	
Tetrachloroethene	**<0.25**	ug/L	1.0	0.25	1		08/12/16 09:34	127-18-4	
Tetrahydrofuran	**<1.5**	ug/L	10.0	1.5	1		08/12/16 09:34	109-99-9	
Toluene	**3280**	ug/L	25.0	3.6	25		08/14/16 17:01	108-88-3	
1,2,3-Trichlorobenzene	**<0.21**	ug/L	1.0	0.21	1		08/12/16 09:34	87-61-6	
1,2,4-Trichlorobenzene	**<0.21**	ug/L	1.0	0.21	1		08/12/16 09:34	120-82-1	
1,1,1-Trichloroethane	**<0.17**	ug/L	1.0	0.17	1		08/12/16 09:34	71-55-6	
1,1,2-Trichloroethane	**<0.15**	ug/L	1.0	0.15	1		08/12/16 09:34	79-00-5	
Trichloroethene	**<0.20**	ug/L	0.40	0.20	1		08/12/16 09:34	79-01-6	
Trichlorofluoromethane	**<0.33**	ug/L	1.0	0.33	1		08/12/16 09:34	75-69-4	
1,2,3-Trichloropropane	**<0.28**	ug/L	4.0	0.28	1		08/12/16 09:34	96-18-4	
1,1,2-Trichlorotrifluoroethane	**<0.32**	ug/L	1.0	0.32	1		08/12/16 09:34	76-13-1	
1,2,4-Trimethylbenzene	**2920**	ug/L	25.0	4.4	25		08/14/16 17:01	95-63-6	
1,3,5-Trimethylbenzene	**744**	ug/L	25.0	6.7	25		08/14/16 17:01	108-67-8	
Vinyl chloride	**<0.29**	ug/L	0.40	0.29	1		08/12/16 09:34	75-01-4	
Xylene (Total)	**9060**	ug/L	75.0	7.9	25		08/14/16 17:01	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	109	%.	75-125		1		08/12/16 09:34	17060-07-0	
Toluene-d8 (S)	102	%.	75-125		1		08/12/16 09:34	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	75-125		1		08/12/16 09:34	460-00-4	

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ANALYTICAL RESULTS

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Sample: 1608TOWERMW21 **Lab ID: 10358621005** Collected: 08/09/16 11:20 Received: 08/10/16 12:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2510B Specific Conductance	Analytical Method: SM 2510B								
Specific Conductance	**411**	umhos/cm	10.0	10.0	1		08/16/16 15:04		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.7**	Std. Units	0.10	0.10	1		08/15/16 19:12		H6
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D								
Sulfide	**0.022J**	mg/L	0.10	0.011	1		08/16/16 13:30		
4500S2H Sulfide as H2S Calc	Analytical Method: SM 4500-S H								
Sulfide as H2S (calc)	**<0.020**	mg/L	0.10	0.020	1		08/16/16 16:40		AL
SM4500NO3-H, NO2 + NO3 pres.	Analytical Method: SM 4500-NO3 H								
Nitrate as N	**0.047J**	mg/L	0.058	0.018	1		08/24/16 09:12	14797-55-8	
Nitrogen, NO2 plus NO3	**<0.050**	mg/L	0.17	0.050	1		08/24/16 09:12		
ASTM D516 Sulfate Water	Analytical Method: ASTM D516								
Sulfate	**1.5J**	mg/L	3.5	1.0	1		08/12/16 09:05	14808-79-8	
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B								
Nitrite as N	**<0.0036**	mg/L	0.012	0.0036	1		08/11/16 09:00	14797-65-0	

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ANALYTICAL RESULTS

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Sample: 1608TOWERMW21M **Lab ID: 10358621006** Collected: 08/09/16 13:00 Received: 08/10/16 12:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**0.011**	ug/L	0.0099	0.0016	1	08/15/16 15:31	08/18/16 05:03	106-93-4	
Surrogates									
4-Bromofluorobenzene (S)	52	%.	30-150		1	08/15/16 15:31	08/18/16 05:03	460-00-4	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3020								
Arsenic	**1.5**	ug/L	0.50	0.091	1	08/18/16 16:36	08/19/16 14:21	7440-38-2	
Barium	**80.9**	ug/L	0.30	0.019	1	08/18/16 16:36	08/19/16 14:21	7440-39-3	
Cadmium	**0.057J**	ug/L	0.080	0.013	1	08/18/16 16:36	08/19/16 14:21	7440-43-9	
Chromium	**9.5**	ug/L	0.50	0.14	1	08/18/16 16:36	08/19/16 14:21	7440-47-3	
Iron	**8830**	ug/L	50.0	18.5	1	08/18/16 16:36	08/19/16 14:21	7439-89-6	
Lead	**2.8**	ug/L	0.10	0.012	1	08/18/16 16:36	08/19/16 14:21	7439-92-1	
Manganese	**3170**	ug/L	10.0	2.5	20	08/18/16 16:36	08/20/16 16:18	7439-96-5	
Selenium	**0.43J**	ug/L	0.50	0.13	1	08/18/16 16:36	08/19/16 14:21	7782-49-2	
Silver	**0.069J**	ug/L	0.50	0.0092	1	08/18/16 16:36	08/19/16 14:21	7440-22-4	B
7470A Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**<0.031**	ug/L	0.10	0.031	1	08/25/16 13:15	08/25/16 15:20	7439-97-6	
8260B VOC	Analytical Method: EPA 8260B								
Acetone	**32.1**	ug/L	20.0	0.64	1		08/12/16 09:50	67-64-1	
Allyl chloride	**<0.25**	ug/L	4.0	0.25	1		08/12/16 09:50	107-05-1	
Benzene	**2150**	ug/L	25.0	3.9	25		08/14/16 17:17	71-43-2	
Bromobenzene	**<0.34**	ug/L	1.0	0.34	1		08/12/16 09:50	108-86-1	
Bromochloromethane	**<0.19**	ug/L	1.0	0.19	1		08/12/16 09:50	74-97-5	
Bromodichloromethane	**<0.24**	ug/L	1.0	0.24	1		08/12/16 09:50	75-27-4	
Bromoform	**<0.27**	ug/L	10.0	0.27	1		08/12/16 09:50	75-25-2	L2
Bromomethane	**<0.44**	ug/L	4.0	0.44	1		08/12/16 09:50	74-83-9	
2-Butanone (MEK)	**<1.1**	ug/L	5.0	1.1	1		08/12/16 09:50	78-93-3	
n-Butylbenzene	**29.3**	ug/L	1.0	0.16	1		08/12/16 09:50	104-51-8	
sec-Butylbenzene	**16.2**	ug/L	1.0	0.19	1		08/12/16 09:50	135-98-8	
tert-Butylbenzene	**<0.22**	ug/L	1.0	0.22	1		08/12/16 09:50	98-06-6	
Carbon tetrachloride	**<0.20**	ug/L	4.0	0.20	1		08/12/16 09:50	56-23-5	
Chlorobenzene	**<0.11**	ug/L	1.0	0.11	1		08/12/16 09:50	108-90-7	
Chloroethane	**<0.34**	ug/L	4.0	0.34	1		08/12/16 09:50	75-00-3	
Chloroform	**<0.21**	ug/L	1.0	0.21	1		08/12/16 09:50	67-66-3	
Chloromethane	**<0.25**	ug/L	4.0	0.25	1		08/12/16 09:50	74-87-3	
2-Chlorotoluene	**<0.30**	ug/L	1.0	0.30	1		08/12/16 09:50	95-49-8	
4-Chlorotoluene	**<0.26**	ug/L	1.0	0.26	1		08/12/16 09:50	106-43-4	
1,2-Dibromo-3-chloropropane	**<0.60**	ug/L	10.0	0.60	1		08/12/16 09:50	96-12-8	
Dibromochloromethane	**<0.16**	ug/L	4.0	0.16	1		08/12/16 09:50	124-48-1	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	0.20	1		08/12/16 09:50	106-93-4	
Dibromomethane	**<0.19**	ug/L	4.0	0.19	1		08/12/16 09:50	74-95-3	
1,2-Dichlorobenzene	**<0.17**	ug/L	1.0	0.17	1		08/12/16 09:50	95-50-1	
1,3-Dichlorobenzene	**<0.12**	ug/L	1.0	0.12	1		08/12/16 09:50	541-73-1	
1,4-Dichlorobenzene	**<0.21**	ug/L	1.0	0.21	1		08/12/16 09:50	106-46-7	
Dichlorodifluoromethane	**<0.23**	ug/L	1.0	0.23	1		08/12/16 09:50	75-71-8	

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ANALYTICAL RESULTS

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Sample: 1608TOWERMW21M **Lab ID: 10358621006** Collected: 08/09/16 13:00 Received: 08/10/16 12:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B								
1,1-Dichloroethane	**<0.17**	ug/L	4.0	0.17	1		08/12/16 09:50	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		08/12/16 09:50	107-06-2	
1,1-Dichloroethene	**<0.28**	ug/L	1.0	0.28	1		08/12/16 09:50	75-35-4	
cis-1,2-Dichloroethene	**<0.12**	ug/L	1.0	0.12	1		08/12/16 09:50	156-59-2	
trans-1,2-Dichloroethene	**<0.16**	ug/L	1.0	0.16	1		08/12/16 09:50	156-60-5	
Dichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		08/12/16 09:50	75-43-4	
1,2-Dichloropropane	**<0.22**	ug/L	4.0	0.22	1		08/12/16 09:50	78-87-5	
1,3-Dichloropropane	**<0.096**	ug/L	1.0	0.096	1		08/12/16 09:50	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	4.0	0.13	1		08/12/16 09:50	594-20-7	
1,1-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		08/12/16 09:50	563-58-6	
cis-1,3-Dichloropropene	**<0.15**	ug/L	4.0	0.15	1		08/12/16 09:50	10061-01-5	
trans-1,3-Dichloropropene	**<0.15**	ug/L	4.0	0.15	1		08/12/16 09:50	10061-02-6	
Diethyl ether (Ethyl ether)	**<0.19**	ug/L	4.0	0.19	1		08/12/16 09:50	60-29-7	
Ethylbenzene	**1660**	ug/L	25.0	3.8	25		08/14/16 17:17	100-41-4	
Hexachloro-1,3-butadiene	**<0.18**	ug/L	4.0	0.18	1		08/12/16 09:50	87-68-3	
Isopropylbenzene (Cumene)	**81.1**	ug/L	1.0	0.25	1		08/12/16 09:50	98-82-8	
p-Isopropyltoluene	**8.0**	ug/L	1.0	0.19	1		08/12/16 09:50	99-87-6	
Methylene Chloride	**<0.29**	ug/L	4.0	0.29	1		08/12/16 09:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2.6J**	ug/L	5.0	0.43	1		08/12/16 09:50	108-10-1	
Methyl-tert-butyl ether	**7.4**	ug/L	1.0	0.15	1		08/12/16 09:50	1634-04-4	
Naphthalene	**470**	ug/L	100	5.1	25		08/14/16 17:17	91-20-3	
n-Propylbenzene	**238**	ug/L	1.0	0.23	1		08/12/16 09:50	103-65-1	
Styrene	**5.9**	ug/L	1.0	0.29	1		08/12/16 09:50	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.17**	ug/L	4.0	0.17	1		08/12/16 09:50	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.22**	ug/L	1.0	0.22	1		08/12/16 09:50	79-34-5	
Tetrachloroethene	**<0.25**	ug/L	1.0	0.25	1		08/12/16 09:50	127-18-4	
Tetrahydrofuran	**<1.5**	ug/L	10.0	1.5	1		08/12/16 09:50	109-99-9	
Toluene	**1320**	ug/L	25.0	3.6	25		08/14/16 17:17	108-88-3	
1,2,3-Trichlorobenzene	**<0.21**	ug/L	1.0	0.21	1		08/12/16 09:50	87-61-6	
1,2,4-Trichlorobenzene	**<0.21**	ug/L	1.0	0.21	1		08/12/16 09:50	120-82-1	
1,1,1-Trichloroethane	**<0.17**	ug/L	1.0	0.17	1		08/12/16 09:50	71-55-6	
1,1,2-Trichloroethane	**<0.15**	ug/L	1.0	0.15	1		08/12/16 09:50	79-00-5	
Trichloroethene	**<0.20**	ug/L	0.40	0.20	1		08/12/16 09:50	79-01-6	
Trichlorofluoromethane	**<0.33**	ug/L	1.0	0.33	1		08/12/16 09:50	75-69-4	
1,2,3-Trichloropropane	**<0.28**	ug/L	4.0	0.28	1		08/12/16 09:50	96-18-4	
1,1,2-Trichlorotrifluoroethane	**<0.32**	ug/L	1.0	0.32	1		08/12/16 09:50	76-13-1	
1,2,4-Trimethylbenzene	**1310**	ug/L	25.0	4.4	25		08/14/16 17:17	95-63-6	
1,3,5-Trimethylbenzene	**480**	ug/L	25.0	6.7	25		08/14/16 17:17	108-67-8	
Vinyl chloride	**<0.29**	ug/L	0.40	0.29	1		08/12/16 09:50	75-01-4	
Xylene (Total)	**4340**	ug/L	75.0	7.9	25		08/14/16 17:17	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	102	%.	75-125		1		08/12/16 09:50	17060-07-0	
Toluene-d8 (S)	106	%.	75-125		1		08/12/16 09:50	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125		1		08/12/16 09:50	460-00-4	

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ANALYTICAL RESULTS

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Sample: 1608TOWERMW21M **Lab ID: 10358621006** Collected: 08/09/16 13:00 Received: 08/10/16 12:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2510B Specific Conductance	Analytical Method: SM 2510B								
Specific Conductance	**595**	umhos/cm	10.0	10.0	1		08/16/16 15:05		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.6**	Std. Units	0.10	0.10	1		08/15/16 19:13		H6
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D								
Sulfide	**<0.011**	mg/L	0.10	0.011	1		08/16/16 13:33		
4500S2H Sulfide as H2S Calc	Analytical Method: SM 4500-S H								
Sulfide as H2S (calc)	**<0.020**	mg/L	0.10	0.020	1		08/16/16 16:40		AL
SM4500NO3-H, NO2 + NO3 pres.	Analytical Method: SM 4500-NO3 H								
Nitrate as N	**0.12**	mg/L	0.058	0.018	1		08/24/16 09:13	14797-55-8	
Nitrogen, NO2 plus NO3	**0.12J**	mg/L	0.17	0.050	1		08/24/16 09:13		
ASTM D516 Sulfate Water	Analytical Method: ASTM D516								
Sulfate	**<1.0**	mg/L	3.5	1.0	1		08/12/16 09:05	14808-79-8	
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B								
Nitrite as N	**<0.0036**	mg/L	0.012	0.0036	1		08/11/16 09:00	14797-65-0	

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ANALYTICAL RESULTS

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Sample: 1608TOWERMW21D **Lab ID: 10358621007** Collected: 08/09/16 14:50 Received: 08/10/16 12:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**<0.0016**	ug/L	0.0099	0.0016	1	08/15/16 15:31	08/18/16 00:42	106-93-4	
Surrogates									
4-Bromofluorobenzene (S)	34	%.	30-150		1	08/15/16 15:31	08/18/16 00:42	460-00-4	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3020								
Arsenic	**0.43J**	ug/L	0.50	0.091	1	08/18/16 16:36	08/19/16 14:23	7440-38-2	
Barium	**299**	ug/L	0.30	0.019	1	08/18/16 16:36	08/19/16 14:23	7440-39-3	
Cadmium	**<0.013**	ug/L	0.080	0.013	1	08/18/16 16:36	08/19/16 14:23	7440-43-9	
Chromium	**4.4**	ug/L	0.50	0.14	1	08/18/16 16:36	08/19/16 14:23	7440-47-3	
Iron	**65700**	ug/L	500	185	10	08/18/16 16:36	08/20/16 16:20	7439-89-6	M1
Lead	**0.41**	ug/L	0.10	0.012	1	08/18/16 16:36	08/19/16 14:23	7439-92-1	
Manganese	**1580**	ug/L	5.0	1.3	10	08/18/16 16:36	08/20/16 16:20	7439-96-5	M1
Selenium	**0.19J**	ug/L	0.50	0.13	1	08/18/16 16:36	08/19/16 14:23	7782-49-2	
Silver	**0.013J**	ug/L	0.50	0.0092	1	08/18/16 16:36	08/19/16 14:23	7440-22-4	B
7470A Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**<0.031**	ug/L	0.10	0.031	1	08/25/16 13:15	08/25/16 15:22	7439-97-6	
8260B VOC	Analytical Method: EPA 8260B								
Acetone	**2.2J**	ug/L	20.0	2.0	1		08/17/16 01:09	67-64-1	
Allyl chloride	**<0.25**	ug/L	4.0	0.25	1		08/17/16 01:09	107-05-1	
Benzene	**45.9**	ug/L	1.0	0.16	1		08/17/16 01:09	71-43-2	
Bromobenzene	**<0.34**	ug/L	1.0	0.34	1		08/17/16 01:09	108-86-1	
Bromochloromethane	**<0.19**	ug/L	1.0	0.19	1		08/17/16 01:09	74-97-5	
Bromodichloromethane	**<0.24**	ug/L	1.0	0.24	1		08/17/16 01:09	75-27-4	
Bromoform	**<0.27**	ug/L	4.0	0.27	1		08/17/16 01:09	75-25-2	
Bromomethane	**<0.44**	ug/L	4.0	0.44	1		08/17/16 01:09	74-83-9	
2-Butanone (MEK)	**<1.1**	ug/L	5.0	1.1	1		08/17/16 01:09	78-93-3	
n-Butylbenzene	**1.8**	ug/L	1.0	0.16	1		08/17/16 01:09	104-51-8	
sec-Butylbenzene	**0.69J**	ug/L	1.0	0.19	1		08/17/16 01:09	135-98-8	
tert-Butylbenzene	**<0.22**	ug/L	1.0	0.22	1		08/17/16 01:09	98-06-6	
Carbon tetrachloride	**<0.20**	ug/L	4.0	0.20	1		08/17/16 01:09	56-23-5	
Chlorobenzene	**<0.11**	ug/L	1.0	0.11	1		08/17/16 01:09	108-90-7	
Chloroethane	**<0.34**	ug/L	1.0	0.34	1		08/17/16 01:09	75-00-3	
Chloroform	**<0.21**	ug/L	1.0	0.21	1		08/17/16 01:09	67-66-3	
Chloromethane	**<0.25**	ug/L	4.0	0.25	1		08/17/16 01:09	74-87-3	
2-Chlorotoluene	**<0.30**	ug/L	1.0	0.30	1		08/17/16 01:09	95-49-8	
4-Chlorotoluene	**<0.26**	ug/L	1.0	0.26	1		08/17/16 01:09	106-43-4	
1,2-Dibromo-3-chloropropane	**<0.60**	ug/L	10.0	0.60	1		08/17/16 01:09	96-12-8	
Dibromochloromethane	**<0.16**	ug/L	4.0	0.16	1		08/17/16 01:09	124-48-1	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	0.20	1		08/17/16 01:09	106-93-4	
Dibromomethane	**<0.19**	ug/L	4.0	0.19	1		08/17/16 01:09	74-95-3	
1,2-Dichlorobenzene	**<0.17**	ug/L	1.0	0.17	1		08/17/16 01:09	95-50-1	
1,3-Dichlorobenzene	**<0.12**	ug/L	1.0	0.12	1		08/17/16 01:09	541-73-1	
1,4-Dichlorobenzene	**<0.21**	ug/L	1.0	0.21	1		08/17/16 01:09	106-46-7	
Dichlorodifluoromethane	**<0.23**	ug/L	1.0	0.23	1		08/17/16 01:09	75-71-8	

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ANALYTICAL RESULTS

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Sample: 1608TOWERMW21D **Lab ID: 10358621007** Collected: 08/09/16 14:50 Received: 08/10/16 12:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B								
1,1-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		08/17/16 01:09	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		08/17/16 01:09	107-06-2	
1,1-Dichloroethene	**<0.28**	ug/L	1.0	0.28	1		08/17/16 01:09	75-35-4	
cis-1,2-Dichloroethene	**<0.12**	ug/L	1.0	0.12	1		08/17/16 01:09	156-59-2	
trans-1,2-Dichloroethene	**<0.16**	ug/L	1.0	0.16	1		08/17/16 01:09	156-60-5	
Dichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		08/17/16 01:09	75-43-4	
1,2-Dichloropropane	**<0.22**	ug/L	4.0	0.22	1		08/17/16 01:09	78-87-5	
1,3-Dichloropropane	**<0.096**	ug/L	1.0	0.096	1		08/17/16 01:09	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	4.0	0.13	1		08/17/16 01:09	594-20-7	
1,1-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		08/17/16 01:09	563-58-6	
cis-1,3-Dichloropropene	**<0.15**	ug/L	4.0	0.15	1		08/17/16 01:09	10061-01-5	
trans-1,3-Dichloropropene	**<0.15**	ug/L	4.0	0.15	1		08/17/16 01:09	10061-02-6	
Diethyl ether (Ethyl ether)	**<0.19**	ug/L	4.0	0.19	1		08/17/16 01:09	60-29-7	
Ethylbenzene	**8.1**	ug/L	1.0	0.15	1		08/17/16 01:09	100-41-4	
Hexachloro-1,3-butadiene	**<0.18**	ug/L	1.0	0.18	1		08/17/16 01:09	87-68-3	
Isopropylbenzene (Cumene)	**1.2**	ug/L	1.0	0.25	1		08/17/16 01:09	98-82-8	
p-Isopropyltoluene	**0.44J**	ug/L	1.0	0.19	1		08/17/16 01:09	99-87-6	
Methylene Chloride	**<0.29**	ug/L	4.0	0.29	1		08/17/16 01:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.43**	ug/L	5.0	0.43	1		08/17/16 01:09	108-10-1	
Methyl-tert-butyl ether	**<0.15**	ug/L	1.0	0.15	1		08/17/16 01:09	1634-04-4	
Naphthalene	**4.9**	ug/L	4.0	0.20	1		08/17/16 01:09	91-20-3	
n-Propylbenzene	**5.3**	ug/L	1.0	0.23	1		08/17/16 01:09	103-65-1	
Styrene	**<0.29**	ug/L	1.0	0.29	1		08/17/16 01:09	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.17**	ug/L	4.0	0.17	1		08/17/16 01:09	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.22**	ug/L	1.0	0.22	1		08/17/16 01:09	79-34-5	
Tetrachloroethene	**<0.25**	ug/L	1.0	0.25	1		08/17/16 01:09	127-18-4	
Tetrahydrofuran	**<1.5**	ug/L	10.0	1.5	1		08/17/16 01:09	109-99-9	
Toluene	**7.3**	ug/L	1.0	0.14	1		08/17/16 01:09	108-88-3	
1,2,3-Trichlorobenzene	**<0.21**	ug/L	1.0	0.21	1		08/17/16 01:09	87-61-6	
1,2,4-Trichlorobenzene	**<0.21**	ug/L	1.0	0.21	1		08/17/16 01:09	120-82-1	
1,1,1-Trichloroethane	**<0.17**	ug/L	1.0	0.17	1		08/17/16 01:09	71-55-6	
1,1,2-Trichloroethane	**<0.15**	ug/L	1.0	0.15	1		08/17/16 01:09	79-00-5	
Trichloroethene	**<0.20**	ug/L	0.40	0.20	1		08/17/16 01:09	79-01-6	
Trichlorofluoromethane	**<0.33**	ug/L	1.0	0.33	1		08/17/16 01:09	75-69-4	
1,2,3-Trichloropropane	**<0.28**	ug/L	4.0	0.28	1		08/17/16 01:09	96-18-4	
1,1,2-Trichlorotrifluoroethane	**<0.32**	ug/L	1.0	0.32	1		08/17/16 01:09	76-13-1	
1,2,4-Trimethylbenzene	**30.6**	ug/L	1.0	0.18	1		08/17/16 01:09	95-63-6	
1,3,5-Trimethylbenzene	**8.2**	ug/L	1.0	0.27	1		08/17/16 01:09	108-67-8	
Vinyl chloride	**<0.15**	ug/L	1.0	0.15	1		08/17/16 01:09	75-01-4	
Xylene (Total)	**64.5**	ug/L	3.0	0.32	1		08/17/16 01:09	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	96	%.	75-125		1		08/17/16 01:09	17060-07-0	
Toluene-d8 (S)	97	%.	75-125		1		08/17/16 01:09	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	75-125		1		08/17/16 01:09	460-00-4	

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ANALYTICAL RESULTS

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Sample: 1608TOWERMW21D **Lab ID: 10358621007** Collected: 08/09/16 14:50 Received: 08/10/16 12:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2510B Specific Conductance	Analytical Method: SM 2510B								
Specific Conductance	**2100**	umhos/cm	10.0	10.0	1		08/16/16 15:05		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**6.5**	Std. Units	0.10	0.10	1		08/15/16 19:14		H6
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D								
Sulfide	**0.014J**	mg/L	0.10	0.011	1		08/16/16 13:34		
4500S2H Sulfide as H2S Calc	Analytical Method: SM 4500-S H								
Sulfide as H2S (calc)	**<0.020**	mg/L	0.10	0.020	1		08/16/16 16:40		AL
SM4500NO3-H, NO2 + NO3 pres.	Analytical Method: SM 4500-NO3 H								
Nitrate as N	**0.063**	mg/L	0.058	0.018	1		08/24/16 09:14	14797-55-8	
Nitrogen, NO2 plus NO3	**0.063J**	mg/L	0.17	0.050	1		08/24/16 09:14		
ASTM D516 Sulfate Water	Analytical Method: ASTM D516								
Sulfate	**1.1J**	mg/L	3.5	1.0	1		08/12/16 09:07	14808-79-8	
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B								
Nitrite as N	**<0.0036**	mg/L	0.012	0.0036	1		08/11/16 09:00	14797-65-0	

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ANALYTICAL RESULTS

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Sample: 1608TOWERTB1 **Lab ID: 10358621008** Collected: 08/05/16 08:00 Received: 08/10/16 12:23 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV UST	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Benzene	**<4.3**	ug/kg	23.3	4.3	1	08/15/16 12:41	08/15/16 20:30	71-43-2	
Ethylbenzene	**<8.2**	ug/kg	24.9	8.2	1	08/15/16 12:41	08/15/16 20:30	100-41-4	
Toluene	**<8.5**	ug/kg	31.9	8.5	1	08/15/16 12:41	08/15/16 20:30	108-88-3	
Xylene (Total)	**<22.0**	ug/kg	99.6	22.0	1	08/15/16 12:41	08/15/16 20:30	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	100	%.	75-129		1	08/15/16 12:41	08/15/16 20:30	17060-07-0	
Toluene-d8 (S)	102	%.	75-125		1	08/15/16 12:41	08/15/16 20:30	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	75-125		1	08/15/16 12:41	08/15/16 20:30	460-00-4	

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ANALYTICAL RESULTS

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Sample: 1608TOWERIDWSS **Lab ID: 10358621009** Collected: 08/05/16 14:30 Received: 08/10/16 12:23 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3050								
Lead	**2.7**	mg/kg	0.11	0.020	20	08/17/16 10:01	08/19/16 11:55	7439-92-1	
Dry Weight	Analytical Method: ASTM D2974								
Percent Moisture	**20.7**	%	0.10	0.10	1		08/15/16 16:34		
8260B MSV UST	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B								
Benzene	**601**	ug/kg	29.5	5.5	1	08/15/16 12:41	08/15/16 23:24	71-43-2	
Ethylbenzene	**2930**	ug/kg	31.5	10.4	1	08/15/16 12:41	08/15/16 23:24	100-41-4	
Toluene	**4330**	ug/kg	40.4	10.8	1	08/15/16 12:41	08/15/16 23:24	108-88-3	
Xylene (Total)	**14500**	ug/kg	126	27.8	1	08/15/16 12:41	08/15/16 23:24	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%.	75-129		1	08/15/16 12:41	08/15/16 23:24	17060-07-0	
Toluene-d8 (S)	101	%.	75-125		1	08/15/16 12:41	08/15/16 23:24	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	75-125		1	08/15/16 12:41	08/15/16 23:24	460-00-4	

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ANALYTICAL RESULTS

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Sample: 1608TOWERTB2 **Lab ID: 10358621010** Collected: 08/08/16 08:00 Received: 08/10/16 12:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**<0.0016**	ug/L	0.010	0.0016	1	08/15/16 15:31	08/18/16 05:29	106-93-4	
Surrogates									
4-Bromofluorobenzene (S)	74	%.	30-150		1	08/15/16 15:31	08/18/16 05:29	460-00-4	
8260B VOC	Analytical Method: EPA 8260B								
Acetone	**2.2J**	ug/L	20.0	0.64	1		08/12/16 09:03	67-64-1	B
Allyl chloride	**<0.25**	ug/L	4.0	0.25	1		08/12/16 09:03	107-05-1	
Benzene	**<0.16**	ug/L	1.0	0.16	1		08/12/16 09:03	71-43-2	
Bromobenzene	**<0.34**	ug/L	1.0	0.34	1		08/12/16 09:03	108-86-1	
Bromochloromethane	**<0.19**	ug/L	1.0	0.19	1		08/12/16 09:03	74-97-5	
Bromodichloromethane	**<0.24**	ug/L	1.0	0.24	1		08/12/16 09:03	75-27-4	
Bromoform	**<0.27**	ug/L	10.0	0.27	1		08/12/16 09:03	75-25-2	L2
Bromomethane	**<0.44**	ug/L	4.0	0.44	1		08/12/16 09:03	74-83-9	
2-Butanone (MEK)	**<1.1**	ug/L	5.0	1.1	1		08/12/16 09:03	78-93-3	
n-Butylbenzene	**<0.16**	ug/L	1.0	0.16	1		08/12/16 09:03	104-51-8	
sec-Butylbenzene	**<0.19**	ug/L	1.0	0.19	1		08/12/16 09:03	135-98-8	
tert-Butylbenzene	**<0.22**	ug/L	1.0	0.22	1		08/12/16 09:03	98-06-6	
Carbon tetrachloride	**<0.20**	ug/L	4.0	0.20	1		08/12/16 09:03	56-23-5	
Chlorobenzene	**<0.11**	ug/L	1.0	0.11	1		08/12/16 09:03	108-90-7	
Chloroethane	**<0.34**	ug/L	4.0	0.34	1		08/12/16 09:03	75-00-3	
Chloroform	**<0.21**	ug/L	1.0	0.21	1		08/12/16 09:03	67-66-3	
Chloromethane	**<0.25**	ug/L	4.0	0.25	1		08/12/16 09:03	74-87-3	
2-Chlorotoluene	**<0.30**	ug/L	1.0	0.30	1		08/12/16 09:03	95-49-8	
4-Chlorotoluene	**<0.26**	ug/L	1.0	0.26	1		08/12/16 09:03	106-43-4	
1,2-Dibromo-3-chloropropane	**<0.60**	ug/L	10.0	0.60	1		08/12/16 09:03	96-12-8	
Dibromochloromethane	**<0.16**	ug/L	4.0	0.16	1		08/12/16 09:03	124-48-1	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	0.20	1		08/12/16 09:03	106-93-4	
Dibromomethane	**<0.19**	ug/L	4.0	0.19	1		08/12/16 09:03	74-95-3	
1,2-Dichlorobenzene	**<0.17**	ug/L	1.0	0.17	1		08/12/16 09:03	95-50-1	
1,3-Dichlorobenzene	**<0.12**	ug/L	1.0	0.12	1		08/12/16 09:03	541-73-1	
1,4-Dichlorobenzene	**<0.21**	ug/L	1.0	0.21	1		08/12/16 09:03	106-46-7	
Dichlorodifluoromethane	**<0.23**	ug/L	1.0	0.23	1		08/12/16 09:03	75-71-8	
1,1-Dichloroethane	**<0.17**	ug/L	4.0	0.17	1		08/12/16 09:03	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		08/12/16 09:03	107-06-2	
1,1-Dichloroethene	**<0.28**	ug/L	1.0	0.28	1		08/12/16 09:03	75-35-4	
cis-1,2-Dichloroethene	**<0.12**	ug/L	1.0	0.12	1		08/12/16 09:03	156-59-2	
trans-1,2-Dichloroethene	**<0.16**	ug/L	1.0	0.16	1		08/12/16 09:03	156-60-5	
Dichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		08/12/16 09:03	75-43-4	
1,2-Dichloropropane	**<0.22**	ug/L	4.0	0.22	1		08/12/16 09:03	78-87-5	
1,3-Dichloropropane	**<0.096**	ug/L	1.0	0.096	1		08/12/16 09:03	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	4.0	0.13	1		08/12/16 09:03	594-20-7	
1,1-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		08/12/16 09:03	563-58-6	
cis-1,3-Dichloropropene	**<0.15**	ug/L	4.0	0.15	1		08/12/16 09:03	10061-01-5	
trans-1,3-Dichloropropene	**<0.15**	ug/L	4.0	0.15	1		08/12/16 09:03	10061-02-6	
Diethyl ether (Ethyl ether)	**<0.19**	ug/L	4.0	0.19	1		08/12/16 09:03	60-29-7	
Ethylbenzene	**<0.15**	ug/L	1.0	0.15	1		08/12/16 09:03	100-41-4	

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ANALYTICAL RESULTS

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Sample: 1608TOWERTB2 **Lab ID: 10358621010** Collected: 08/08/16 08:00 Received: 08/10/16 12:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B								
Hexachloro-1,3-butadiene	**<0.18**	ug/L	4.0	0.18	1		08/12/16 09:03	87-68-3	
Isopropylbenzene (Cumene)	**<0.25**	ug/L	1.0	0.25	1		08/12/16 09:03	98-82-8	
p-Isopropyltoluene	**<0.19**	ug/L	1.0	0.19	1		08/12/16 09:03	99-87-6	
Methylene Chloride	**<0.29**	ug/L	4.0	0.29	1		08/12/16 09:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.43**	ug/L	5.0	0.43	1		08/12/16 09:03	108-10-1	
Methyl-tert-butyl ether	**<0.15**	ug/L	1.0	0.15	1		08/12/16 09:03	1634-04-4	
Naphthalene	**<0.20**	ug/L	4.0	0.20	1		08/12/16 09:03	91-20-3	
n-Propylbenzene	**<0.23**	ug/L	1.0	0.23	1		08/12/16 09:03	103-65-1	
Styrene	**<0.29**	ug/L	1.0	0.29	1		08/12/16 09:03	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.17**	ug/L	4.0	0.17	1		08/12/16 09:03	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.22**	ug/L	1.0	0.22	1		08/12/16 09:03	79-34-5	
Tetrachloroethene	**<0.25**	ug/L	1.0	0.25	1		08/12/16 09:03	127-18-4	
Tetrahydrofuran	**<1.5**	ug/L	10.0	1.5	1		08/12/16 09:03	109-99-9	
Toluene	**0.17J**	ug/L	1.0	0.14	1		08/12/16 09:03	108-88-3	B
1,2,3-Trichlorobenzene	**<0.21**	ug/L	1.0	0.21	1		08/12/16 09:03	87-61-6	
1,2,4-Trichlorobenzene	**<0.21**	ug/L	1.0	0.21	1		08/12/16 09:03	120-82-1	
1,1,1-Trichloroethane	**<0.17**	ug/L	1.0	0.17	1		08/12/16 09:03	71-55-6	
1,1,2-Trichloroethane	**<0.15**	ug/L	1.0	0.15	1		08/12/16 09:03	79-00-5	
Trichloroethene	**<0.20**	ug/L	0.40	0.20	1		08/12/16 09:03	79-01-6	
Trichlorofluoromethane	**<0.33**	ug/L	1.0	0.33	1		08/12/16 09:03	75-69-4	
1,2,3-Trichloropropane	**<0.28**	ug/L	4.0	0.28	1		08/12/16 09:03	96-18-4	
1,1,2-Trichlorotrifluoroethane	**<0.32**	ug/L	1.0	0.32	1		08/12/16 09:03	76-13-1	
1,2,4-Trimethylbenzene	**<0.18**	ug/L	1.0	0.18	1		08/12/16 09:03	95-63-6	
1,3,5-Trimethylbenzene	**<0.27**	ug/L	1.0	0.27	1		08/12/16 09:03	108-67-8	
Vinyl chloride	**<0.29**	ug/L	0.40	0.29	1		08/12/16 09:03	75-01-4	
Xylene (Total)	**<0.32**	ug/L	3.0	0.32	1		08/12/16 09:03	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	109	%.	75-125		1		08/12/16 09:03	17060-07-0	
Toluene-d8 (S)	107	%.	75-125		1		08/12/16 09:03	2037-26-5	
4-Bromofluorobenzene (S)	105	%.	75-125		1		08/12/16 09:03	460-00-4	

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ANALYTICAL RESULTS

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Sample: 1608TOWEREQB **Lab ID: 10358621011** Collected: 08/09/16 09:30 Received: 08/10/16 12:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**<0.0016**	ug/L	0.0098	0.0016	1	08/15/16 15:31	08/18/16 05:55	106-93-4	
Surrogates									
4-Bromofluorobenzene (S)	74	%.	30-150		1	08/15/16 15:31	08/18/16 05:55	460-00-4	
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3020								
Arsenic	**<0.091**	ug/L	0.50	0.091	1	08/18/16 16:36	08/19/16 14:33	7440-38-2	
Barium	**0.070J**	ug/L	0.30	0.019	1	08/18/16 16:36	08/19/16 14:33	7440-39-3	B
Cadmium	**<0.013**	ug/L	0.080	0.013	1	08/18/16 16:36	08/19/16 14:33	7440-43-9	
Chromium	**0.36J**	ug/L	0.50	0.14	1	08/18/16 16:36	08/19/16 14:33	7440-47-3	
Iron	**<18.5**	ug/L	50.0	18.5	1	08/18/16 16:36	08/19/16 14:33	7439-89-6	
Lead	**0.076J**	ug/L	0.10	0.012	1	08/18/16 16:36	08/19/16 14:33	7439-92-1	B
Manganese	**0.21J**	ug/L	0.50	0.13	1	08/18/16 16:36	08/19/16 14:33	7439-96-5	
Selenium	**<0.13**	ug/L	0.50	0.13	1	08/18/16 16:36	08/20/16 16:27	7782-49-2	
Silver	**0.043J**	ug/L	0.50	0.0092	1	08/18/16 16:36	08/19/16 14:33	7440-22-4	B
7470A Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	**<0.031**	ug/L	0.10	0.031	1	08/15/16 09:47	08/15/16 16:44	7439-97-6	
8260B VOC	Analytical Method: EPA 8260B								
Acetone	**2.9J**	ug/L	20.0	2.0	1		08/16/16 22:58	67-64-1	
Allyl chloride	**<0.25**	ug/L	4.0	0.25	1		08/16/16 22:58	107-05-1	
Benzene	**<0.16**	ug/L	1.0	0.16	1		08/16/16 22:58	71-43-2	
Bromobenzene	**<0.34**	ug/L	1.0	0.34	1		08/16/16 22:58	108-86-1	
Bromochloromethane	**<0.19**	ug/L	1.0	0.19	1		08/16/16 22:58	74-97-5	
Bromodichloromethane	**<0.24**	ug/L	1.0	0.24	1		08/16/16 22:58	75-27-4	
Bromoform	**<0.27**	ug/L	4.0	0.27	1		08/16/16 22:58	75-25-2	
Bromomethane	**<0.44**	ug/L	4.0	0.44	1		08/16/16 22:58	74-83-9	
2-Butanone (MEK)	**<1.1**	ug/L	5.0	1.1	1		08/16/16 22:58	78-93-3	
n-Butylbenzene	**<0.16**	ug/L	1.0	0.16	1		08/16/16 22:58	104-51-8	
sec-Butylbenzene	**<0.19**	ug/L	1.0	0.19	1		08/16/16 22:58	135-98-8	
tert-Butylbenzene	**<0.22**	ug/L	1.0	0.22	1		08/16/16 22:58	98-06-6	
Carbon tetrachloride	**<0.20**	ug/L	4.0	0.20	1		08/16/16 22:58	56-23-5	
Chlorobenzene	**<0.11**	ug/L	1.0	0.11	1		08/16/16 22:58	108-90-7	
Chloroethane	**<0.34**	ug/L	1.0	0.34	1		08/16/16 22:58	75-00-3	
Chloroform	**<0.21**	ug/L	1.0	0.21	1		08/16/16 22:58	67-66-3	
Chloromethane	**<0.25**	ug/L	4.0	0.25	1		08/16/16 22:58	74-87-3	
2-Chlorotoluene	**<0.30**	ug/L	1.0	0.30	1		08/16/16 22:58	95-49-8	
4-Chlorotoluene	**<0.26**	ug/L	1.0	0.26	1		08/16/16 22:58	106-43-4	
1,2-Dibromo-3-chloropropane	**<0.60**	ug/L	10.0	0.60	1		08/16/16 22:58	96-12-8	
Dibromochloromethane	**<0.16**	ug/L	4.0	0.16	1		08/16/16 22:58	124-48-1	
1,2-Dibromoethane (EDB)	**<0.20**	ug/L	1.0	0.20	1		08/16/16 22:58	106-93-4	
Dibromomethane	**<0.19**	ug/L	4.0	0.19	1		08/16/16 22:58	74-95-3	
1,2-Dichlorobenzene	**<0.17**	ug/L	1.0	0.17	1		08/16/16 22:58	95-50-1	
1,3-Dichlorobenzene	**<0.12**	ug/L	1.0	0.12	1		08/16/16 22:58	541-73-1	
1,4-Dichlorobenzene	**<0.21**	ug/L	1.0	0.21	1		08/16/16 22:58	106-46-7	
Dichlorodifluoromethane	**<0.23**	ug/L	1.0	0.23	1		08/16/16 22:58	75-71-8	

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ANALYTICAL RESULTS

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Sample: 1608TOWEREQB **Lab ID: 10358621011** Collected: 08/09/16 09:30 Received: 08/10/16 12:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC	Analytical Method: EPA 8260B								
1,1-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		08/16/16 22:58	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		08/16/16 22:58	107-06-2	
1,1-Dichloroethene	**<0.28**	ug/L	1.0	0.28	1		08/16/16 22:58	75-35-4	
cis-1,2-Dichloroethene	**<0.12**	ug/L	1.0	0.12	1		08/16/16 22:58	156-59-2	
trans-1,2-Dichloroethene	**<0.16**	ug/L	1.0	0.16	1		08/16/16 22:58	156-60-5	
Dichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		08/16/16 22:58	75-43-4	
1,2-Dichloropropane	**<0.22**	ug/L	4.0	0.22	1		08/16/16 22:58	78-87-5	
1,3-Dichloropropane	**<0.096**	ug/L	1.0	0.096	1		08/16/16 22:58	142-28-9	
2,2-Dichloropropane	**<0.13**	ug/L	4.0	0.13	1		08/16/16 22:58	594-20-7	
1,1-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		08/16/16 22:58	563-58-6	
cis-1,3-Dichloropropene	**<0.15**	ug/L	4.0	0.15	1		08/16/16 22:58	10061-01-5	
trans-1,3-Dichloropropene	**<0.15**	ug/L	4.0	0.15	1		08/16/16 22:58	10061-02-6	
Diethyl ether (Ethyl ether)	**<0.19**	ug/L	4.0	0.19	1		08/16/16 22:58	60-29-7	
Ethylbenzene	**<0.15**	ug/L	1.0	0.15	1		08/16/16 22:58	100-41-4	
Hexachloro-1,3-butadiene	**<0.18**	ug/L	1.0	0.18	1		08/16/16 22:58	87-68-3	
Isopropylbenzene (Cumene)	**<0.25**	ug/L	1.0	0.25	1		08/16/16 22:58	98-82-8	
p-Isopropyltoluene	**<0.19**	ug/L	1.0	0.19	1		08/16/16 22:58	99-87-6	
Methylene Chloride	**<0.29**	ug/L	4.0	0.29	1		08/16/16 22:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.43**	ug/L	5.0	0.43	1		08/16/16 22:58	108-10-1	
Methyl-tert-butyl ether	**<0.15**	ug/L	1.0	0.15	1		08/16/16 22:58	1634-04-4	
Naphthalene	**1.6J**	ug/L	4.0	0.20	1		08/16/16 22:58	91-20-3	
n-Propylbenzene	**<0.23**	ug/L	1.0	0.23	1		08/16/16 22:58	103-65-1	
Styrene	**<0.29**	ug/L	1.0	0.29	1		08/16/16 22:58	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.17**	ug/L	4.0	0.17	1		08/16/16 22:58	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.22**	ug/L	1.0	0.22	1		08/16/16 22:58	79-34-5	
Tetrachloroethene	**<0.25**	ug/L	1.0	0.25	1		08/16/16 22:58	127-18-4	
Tetrahydrofuran	**<1.5**	ug/L	10.0	1.5	1		08/16/16 22:58	109-99-9	
Toluene	**0.48J**	ug/L	1.0	0.14	1		08/16/16 22:58	108-88-3	
1,2,3-Trichlorobenzene	**<0.21**	ug/L	1.0	0.21	1		08/16/16 22:58	87-61-6	
1,2,4-Trichlorobenzene	**<0.21**	ug/L	1.0	0.21	1		08/16/16 22:58	120-82-1	
1,1,1-Trichloroethane	**<0.17**	ug/L	1.0	0.17	1		08/16/16 22:58	71-55-6	
1,1,2-Trichloroethane	**<0.15**	ug/L	1.0	0.15	1		08/16/16 22:58	79-00-5	
Trichloroethene	**<0.20**	ug/L	0.40	0.20	1		08/16/16 22:58	79-01-6	
Trichlorofluoromethane	**<0.33**	ug/L	1.0	0.33	1		08/16/16 22:58	75-69-4	
1,2,3-Trichloropropane	**<0.28**	ug/L	4.0	0.28	1		08/16/16 22:58	96-18-4	
1,1,2-Trichlorotrifluoroethane	**<0.32**	ug/L	1.0	0.32	1		08/16/16 22:58	76-13-1	
1,2,4-Trimethylbenzene	**<0.18**	ug/L	1.0	0.18	1		08/16/16 22:58	95-63-6	
1,3,5-Trimethylbenzene	**<0.27**	ug/L	1.0	0.27	1		08/16/16 22:58	108-67-8	
Vinyl chloride	**<0.15**	ug/L	1.0	0.15	1		08/16/16 22:58	75-01-4	
Xylene (Total)	**<0.32**	ug/L	3.0	0.32	1		08/16/16 22:58	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	96	%.	75-125		1		08/16/16 22:58	17060-07-0	
Toluene-d8 (S)	98	%.	75-125		1		08/16/16 22:58	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125		1		08/16/16 22:58	460-00-4	

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ANALYTICAL RESULTS

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Sample: 1608TOWEREQB **Lab ID: 10358621011** Collected: 08/09/16 09:30 Received: 08/10/16 12:23 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2510B Specific Conductance	Analytical Method: SM 2510B								
Specific Conductance	**<10.0**	umhos/cm	10.0	10.0	1		08/16/16 15:06		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B								
pH at 25 Degrees C	**5.7**	Std. Units	0.10	0.10	1		08/15/16 19:19		H6
4500S2D Sulfide Water	Analytical Method: SM 4500-S2-D								
Sulfide	**<0.011**	mg/L	0.10	0.011	1		08/16/16 13:37		
4500S2H Sulfide as H2S Calc	Analytical Method: SM 4500-S H								
Sulfide as H2S (calc)	**<0.020**	mg/L	0.10	0.020	1		08/16/16 16:40		AL
SM4500NO3-H, NO2 + NO3 pres.	Analytical Method: SM 4500-NO3 H								
Nitrate as N	**0.042J**	mg/L	0.058	0.018	1		08/24/16 09:18	14797-55-8	
Nitrogen, NO2 plus NO3	**<0.050**	mg/L	0.17	0.050	1		08/24/16 09:18		
ASTM D516 Sulfate Water	Analytical Method: ASTM D516								
Sulfate	**<1.0**	mg/L	3.5	1.0	1		08/12/16 09:07	14808-79-8	
SM4500NO2-B, Nitrite, unpres	Analytical Method: SM 4500-NO2 B								
Nitrite as N	**<0.0036**	mg/L	0.012	0.0036	1		08/11/16 09:00	14797-65-0	

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QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

QC Batch: 430004 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470A Mercury Water
Associated Lab Samples: 10358621011

METHOD BLANK: 2339606 | Matrix: Water
Associated Lab Samples: 10358621011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.031	0.10	08/15/16 16:11	

LABORATORY CONTROL SAMPLE: 2339607

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339608 2339609

Parameter	Units	10358540002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.54	5	5	5.3	5.4	96	98	80-120	2	20	

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QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

QC Batch: 432384 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470A Mercury Water
Associated Lab Samples: 10358621004, 10358621005, 10358621006, 10358621007

METHOD BLANK: 2351398 Matrix: Water
Associated Lab Samples: 10358621004, 10358621005, 10358621006, 10358621007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.031	0.10	08/25/16 15:12	

LABORATORY CONTROL SAMPLE: 2351399

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2351400 2351401

Parameter	Units	10358621007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.031	5	5	5.1	5.2	101	105	80-120	3	20	

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QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

QC Batch: 430644
QC Batch Method: EPA 3050
Analysis Method: EPA 6020B
Analysis Description: 6020B Solids UPD5
Associated Lab Samples: 10358621009

METHOD BLANK: 2342888
Matrix: Solid
Associated Lab Samples: 10358621009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	0.018J	0.092	08/19/16 11:50	

LABORATORY CONTROL SAMPLE: 2342889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	49	52.4	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2342890 2342891

Parameter	Units	10358621009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	2.7	53.8	54.9	58.4	61.5	103	107	75-125	5	20	

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QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

QC Batch: 429937 Analysis Method: EPA 6020B
QC Batch Method: EPA 3020 Analysis Description: 6020B Water UPD5
Associated Lab Samples: 10358621004, 10358621005, 10358621006, 10358621007, 10358621011

METHOD BLANK: 2339230 Matrix: Water
Associated Lab Samples: 10358621004, 10358621005, 10358621006, 10358621007, 10358621011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<0.091	0.50	08/19/16 14:16	
Barium	ug/L	0.030J	0.30	08/19/16 14:16	
Cadmium	ug/L	<0.013	0.080	08/19/16 14:16	
Chromium	ug/L	<0.14	0.50	08/19/16 14:16	
Iron	ug/L	<18.5	50.0	08/19/16 14:16	
Lead	ug/L	0.036J	0.10	08/19/16 14:16	
Manganese	ug/L	<0.13	0.50	08/19/16 14:16	
Selenium	ug/L	<0.13	0.50	08/20/16 16:08	
Silver	ug/L	0.082J	0.50	08/19/16 14:16	

LABORATORY CONTROL SAMPLE: 2339231

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	100	89.0	89	80-120	
Barium	ug/L	100	102	102	80-120	
Cadmium	ug/L	100	101	101	80-120	
Chromium	ug/L	100	103	103	80-120	
Iron	ug/L	2000	1850	92	80-120	
Lead	ug/L	100	103	103	80-120	
Manganese	ug/L	100	100	100	80-120	
Selenium	ug/L	100	92.5	92	80-120	
Silver	ug/L	50	47.2	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2342797 2342798

Parameter	Units	10358621007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	0.43J	100	100	92.4	86.1	92	86	75-125	7	20	
Barium	ug/L	299	100	100	399	401	100	102	75-125	1	20	
Cadmium	ug/L	<0.013	100	100	101	101	101	101	75-125	1	20	
Chromium	ug/L	4.4	100	100	105	105	101	101	75-125	0	20	
Iron	ug/L	65700	2000	2000	60200	56400	-274	-466	75-125	7	20	E,M1
Lead	ug/L	0.41	100	100	100	100	100	100	75-125	0	20	
Manganese	ug/L	1580	100	100	1660	1680	73	100	75-125	2	20	E,M1
Selenium	ug/L	0.19J	100	100	94.1	83.7	94	83	75-125	12	20	
Silver	ug/L	0.013J	50	50	45.6	41.9	91	84	75-125	9	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

QC Batch: 430659
QC Batch Method: ASTM D2974
Analysis Method: ASTM D2974
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 10358621009

SAMPLE DUPLICATE: 2343005

Parameter	Units	10359038001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.2	12.6	3	30	

SAMPLE DUPLICATE: 2343065

Parameter	Units	10358621009 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.7	21.1	2	30	

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QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

QC Batch: 430540 | Analysis Method: EPA 8260B
QC Batch Method: EPA 5035/5030B | Analysis Description: 8260B MSV UST
Associated Lab Samples: 10358621008, 10358621009

METHOD BLANK: 2342270 | Matrix: Solid
Associated Lab Samples: 10358621008, 10358621009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	<4.3	23.3	08/15/16 19:55	
Ethylbenzene	ug/kg	<8.2	24.9	08/15/16 19:55	
Toluene	ug/kg	<8.5	31.9	08/15/16 19:55	
Xylene (Total)	ug/kg	<22.0	99.6	08/15/16 19:55	
1,2-Dichloroethane-d4 (S)	%.	104	75-129	08/15/16 19:55	
4-Bromofluorobenzene (S)	%.	100	75-125	08/15/16 19:55	
Toluene-d8 (S)	%.	101	75-125	08/15/16 19:55	

LABORATORY CONTROL SAMPLE & LCSD: 2342271 2342272

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/kg	1000	927	979	93	98	64-125	5	20	
Ethylbenzene	ug/kg	1000	1040	1050	104	105	70-129	1	20	
Toluene	ug/kg	1000	966	1030	97	103	69-125	6	20	
Xylene (Total)	ug/kg	3000	2960	3100	99	103	73-128	5	20	
1,2-Dichloroethane-d4 (S)	%.				101	104	75-129			
4-Bromofluorobenzene (S)	%.				102	100	75-125			
Toluene-d8 (S)	%.				102	101	75-125			

MATRIX SPIKE SAMPLE: 2342799

Parameter	Units	10358819007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	<5.3	1260	1080	85	41-134	
Ethylbenzene	ug/kg	<10.1	1260	1200	95	56-141	
Toluene	ug/kg	12.6J	1260	1160	91	55-134	
Xylene (Total)	ug/kg	<27.1	3790	3490	92	56-137	
1,2-Dichloroethane-d4 (S)	%.				98	75-129	
4-Bromofluorobenzene (S)	%.				100	75-125	
Toluene-d8 (S)	%.				103	75-125	

SAMPLE DUPLICATE: 2342800

Parameter	Units	10358819008 Result	Dup Result	RPD	Max RPD	Qualifiers
Benzene	ug/kg	<5.5	<5.3		30	
Ethylbenzene	ug/kg	<10.4	<10.1		30	
Toluene	ug/kg	11.1J	<10.5		30	
Xylene (Total)	ug/kg	<27.9	<27.0		30	

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QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

SAMPLE DUPLICATE: 2342800

Parameter	Units	10358819008 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane-d4 (S)	%.	102	99	6		
4-Bromofluorobenzene (S)	%.	104	104	3		
Toluene-d8 (S)	%.	101	104	0		

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QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

QC Batch: 430040 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV 465 W
Associated Lab Samples: 10358621001, 10358621002, 10358621003

METHOD BLANK: 2339727 Matrix: Water
Associated Lab Samples: 10358621001, 10358621002, 10358621003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.17	4.0	08/11/16 20:30	
1,1,1-Trichloroethane	ug/L	<0.17	1.0	08/11/16 20:30	
1,1,2,2-Tetrachloroethane	ug/L	<0.22	1.0	08/11/16 20:30	
1,1,2-Trichloroethane	ug/L	<0.15	1.0	08/11/16 20:30	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.32	1.0	08/11/16 20:30	
1,1-Dichloroethane	ug/L	<0.17	4.0	08/11/16 20:30	
1,1-Dichloroethene	ug/L	<0.28	1.0	08/11/16 20:30	
1,1-Dichloropropene	ug/L	<0.23	1.0	08/11/16 20:30	
1,2,3-Trichlorobenzene	ug/L	<0.21	1.0	08/11/16 20:30	
1,2,3-Trichloropropane	ug/L	<0.28	4.0	08/11/16 20:30	
1,2,4-Trichlorobenzene	ug/L	<0.21	1.0	08/11/16 20:30	
1,2,4-Trimethylbenzene	ug/L	<0.18	1.0	08/11/16 20:30	
1,2-Dibromo-3-chloropropane	ug/L	<0.60	10.0	08/11/16 20:30	
1,2-Dibromoethane (EDB)	ug/L	<0.20	1.0	08/11/16 20:30	
1,2-Dichlorobenzene	ug/L	<0.17	1.0	08/11/16 20:30	
1,2-Dichloroethane	ug/L	<0.17	1.0	08/11/16 20:30	
1,2-Dichloropropane	ug/L	<0.22	4.0	08/11/16 20:30	
1,3,5-Trimethylbenzene	ug/L	<0.27	1.0	08/11/16 20:30	
1,3-Dichlorobenzene	ug/L	<0.12	1.0	08/11/16 20:30	
1,3-Dichloropropane	ug/L	<0.096	1.0	08/11/16 20:30	
1,4-Dichlorobenzene	ug/L	<0.21	1.0	08/11/16 20:30	
2,2-Dichloropropane	ug/L	<0.13	4.0	08/11/16 20:30	
2-Butanone (MEK)	ug/L	<1.1	5.0	08/11/16 20:30	
2-Chlorotoluene	ug/L	<0.30	1.0	08/11/16 20:30	
4-Chlorotoluene	ug/L	<0.26	1.0	08/11/16 20:30	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.43	5.0	08/11/16 20:30	
Acetone	ug/L	2.9J	20.0	08/11/16 20:30	
Allyl chloride	ug/L	<0.25	4.0	08/11/16 20:30	
Benzene	ug/L	<0.16	1.0	08/11/16 20:30	
Bromobenzene	ug/L	<0.34	1.0	08/11/16 20:30	
Bromochloromethane	ug/L	<0.19	1.0	08/11/16 20:30	
Bromodichloromethane	ug/L	<0.24	1.0	08/11/16 20:30	
Bromoform	ug/L	<0.27	10.0	08/11/16 20:30	
Bromomethane	ug/L	<0.44	4.0	08/11/16 20:30	
Carbon tetrachloride	ug/L	<0.20	4.0	08/11/16 20:30	
Chlorobenzene	ug/L	<0.11	1.0	08/11/16 20:30	
Chloroethane	ug/L	<0.34	4.0	08/11/16 20:30	
Chloroform	ug/L	<0.21	1.0	08/11/16 20:30	
Chloromethane	ug/L	<0.25	4.0	08/11/16 20:30	
cis-1,2-Dichloroethene	ug/L	<0.12	1.0	08/11/16 20:30	
cis-1,3-Dichloropropene	ug/L	<0.15	4.0	08/11/16 20:30	

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QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

METHOD BLANK: 2339727 Matrix: Water
Associated Lab Samples: 10358621001, 10358621002, 10358621003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	<0.16	4.0	08/11/16 20:30	
Dibromomethane	ug/L	<0.19	4.0	08/11/16 20:30	
Dichlorodifluoromethane	ug/L	<0.23	1.0	08/11/16 20:30	
Dichlorofluoromethane	ug/L	<0.21	1.0	08/11/16 20:30	
Diethyl ether (Ethyl ether)	ug/L	<0.19	4.0	08/11/16 20:30	
Ethylbenzene	ug/L	<0.15	1.0	08/11/16 20:30	
Hexachloro-1,3-butadiene	ug/L	<0.18	4.0	08/11/16 20:30	
Isopropylbenzene (Cumene)	ug/L	<0.25	1.0	08/11/16 20:30	
Methyl-tert-butyl ether	ug/L	<0.15	1.0	08/11/16 20:30	
Methylene Chloride	ug/L	<0.29	4.0	08/11/16 20:30	
n-Butylbenzene	ug/L	<0.16	1.0	08/11/16 20:30	
n-Propylbenzene	ug/L	<0.23	1.0	08/11/16 20:30	
Naphthalene	ug/L	<0.20	4.0	08/11/16 20:30	
p-Isopropyltoluene	ug/L	<0.19	1.0	08/11/16 20:30	
sec-Butylbenzene	ug/L	<0.19	1.0	08/11/16 20:30	
Styrene	ug/L	<0.29	1.0	08/11/16 20:30	
tert-Butylbenzene	ug/L	<0.22	1.0	08/11/16 20:30	
Tetrachloroethene	ug/L	<0.25	1.0	08/11/16 20:30	
Tetrahydrofuran	ug/L	<1.5	10.0	08/11/16 20:30	
Toluene	ug/L	<0.14	1.0	08/11/16 20:30	
trans-1,2-Dichloroethene	ug/L	<0.16	1.0	08/11/16 20:30	
trans-1,3-Dichloropropene	ug/L	<0.15	4.0	08/11/16 20:30	
Trichloroethene	ug/L	<0.20	0.40	08/11/16 20:30	
Trichlorofluoromethane	ug/L	<0.33	1.0	08/11/16 20:30	
Vinyl chloride	ug/L	<0.29	0.40	08/11/16 20:30	
Xylene (Total)	ug/L	<0.32	3.0	08/11/16 20:30	
1,2-Dichloroethane-d4 (S)	%.	106	75-125	08/11/16 20:30	
4-Bromofluorobenzene (S)	%.	105	75-125	08/11/16 20:30	
Toluene-d8 (S)	%.	103	75-125	08/11/16 20:30	

LABORATORY CONTROL SAMPLE: 2339728

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.0	90	75-125	
1,1,1-Trichloroethane	ug/L	20	16.0	80	73-125	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	75-128	
1,1,2-Trichloroethane	ug/L	20	19.5	97	75-129	
1,1,2-Trichlorotrifluoroethane	ug/L	20	18.6	93	69-125	
1,1-Dichloroethane	ug/L	20	18.4	92	75-131	
1,1-Dichloroethene	ug/L	20	17.7	88	72-125	
1,1-Dichloropropene	ug/L	20	16.3	82	74-125	
1,2,3-Trichlorobenzene	ug/L	20	19.4	97	68-127	
1,2,3-Trichloropropane	ug/L	20	20.0	100	75-125	
1,2,4-Trichlorobenzene	ug/L	20	17.8	89	70-125	

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QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

LABORATORY CONTROL SAMPLE: 2339728

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.6	103	75-130	
1,2-Dibromo-3-chloropropane	ug/L	50	43.0	86	74-125	
1,2-Dibromoethane (EDB)	ug/L	20	18.9	94	75-125	
1,2-Dichlorobenzene	ug/L	20	19.8	99	75-125	
1,2-Dichloroethane	ug/L	20	17.4	87	72-129	
1,2-Dichloropropane	ug/L	20	17.1	86	71-129	
1,3,5-Trimethylbenzene	ug/L	20	19.8	99	75-127	
1,3-Dichlorobenzene	ug/L	20	19.0	95	75-125	
1,3-Dichloropropane	ug/L	20	19.3	97	75-125	
1,4-Dichlorobenzene	ug/L	20	19.1	96	75-125	
2,2-Dichloropropane	ug/L	20	15.0	75	71-125	
2-Butanone (MEK)	ug/L	100	88.3	88	58-150	
2-Chlorotoluene	ug/L	20	19.5	97	75-125	
4-Chlorotoluene	ug/L	20	19.9	99	75-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	95.4	95	72-140	
Acetone	ug/L	100	102	102	69-137	
Allyl chloride	ug/L	20	18.9	94	68-132	
Benzene	ug/L	20	18.2	91	75-125	
Bromobenzene	ug/L	20	20.3	102	75-125	
Bromochloromethane	ug/L	20	19.0	95	75-125	
Bromodichloromethane	ug/L	20	18.7	93	69-128	
Bromoform	ug/L	20	14.6	73	75-125	L0
Bromomethane	ug/L	20	19.9	100	30-150	
Carbon tetrachloride	ug/L	20	16.8	84	74-125	
Chlorobenzene	ug/L	20	18.8	94	75-125	
Chloroethane	ug/L	20	18.7	94	60-150	
Chloroform	ug/L	20	18.6	93	75-126	
Chloromethane	ug/L	20	18.5	93	46-150	
cis-1,2-Dichloroethene	ug/L	20	18.9	94	75-126	
cis-1,3-Dichloropropene	ug/L	20	17.3	86	75-125	
Dibromochloromethane	ug/L	20	17.0	85	75-125	
Dibromomethane	ug/L	20	18.2	91	72-127	
Dichlorodifluoromethane	ug/L	20	17.1	86	58-135	
Dichlorofluoromethane	ug/L	20	19.3	96	68-149	
Diethyl ether (Ethyl ether)	ug/L	20	19.7	99	66-144	
Ethylbenzene	ug/L	20	18.0	90	75-125	
Hexachloro-1,3-butadiene	ug/L	20	19.7	98	73-125	
Isopropylbenzene (Cumene)	ug/L	20	18.8	94	69-140	
Methyl-tert-butyl ether	ug/L	20	16.3	81	75-126	
Methylene Chloride	ug/L	20	17.7	88	71-130	
n-Butylbenzene	ug/L	20	19.3	97	71-129	
n-Propylbenzene	ug/L	20	18.9	95	71-133	
Naphthalene	ug/L	20	18.7	94	59-137	
p-Isopropyltoluene	ug/L	20	21.0	105	74-127	
sec-Butylbenzene	ug/L	20	19.0	95	66-140	
Styrene	ug/L	20	20.4	102	75-125	
tert-Butylbenzene	ug/L	20	19.1	96	73-129	

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QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

LABORATORY CONTROL SAMPLE: 2339728

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	20	18.1	90	75-125	
Tetrahydrofuran	ug/L	200	229	114	71-129	
Toluene	ug/L	20	17.8	89	75-125	
trans-1,2-Dichloroethene	ug/L	20	15.7	78	75-125	
trans-1,3-Dichloropropene	ug/L	20	17.9	90	75-125	
Trichloroethene	ug/L	20	18.5	93	75-125	
Trichlorofluoromethane	ug/L	20	17.2	86	74-128	
Vinyl chloride	ug/L	20	17.1	85	71-131	
Xylene (Total)	ug/L	60	56.2	94	75-125	
1,2-Dichloroethane-d4 (S)	%.			105	75-125	
4-Bromofluorobenzene (S)	%.			98	75-125	
Toluene-d8 (S)	%.			102	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2341621 2341622

Parameter	Units	10358621001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<0.17	20	20	17.3	21.2	86	106	75-125	20	30	
1,1,1-Trichloroethane	ug/L	<0.17	20	20	18.0	22.5	90	112	71-144	22	30	
1,1,2,2-Tetrachloroethane	ug/L	<0.22	20	20	20.0	24.8	100	124	75-131	22	30	
1,1,2-Trichloroethane	ug/L	<0.15	20	20	19.6	24.1	98	121	75-125	21	30	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.32	20	20	18.4	20.3	92	102	75-150	10	30	
1,1-Dichloroethane	ug/L	<0.17	20	20	24.0	22.0	120	110	64-150	9	30	
1,1-Dichloroethene	ug/L	<0.28	20	20	19.8	25.4	99	127	68-150	25	30	
1,1-Dichloropropene	ug/L	<0.23	20	20	17.7	20.3	89	101	68-145	14	30	
1,2,3-Trichlorobenzene	ug/L	<0.21	20	20	16.6	20.1	83	100	57-142	19	30	
1,2,3-Trichloropropane	ug/L	<0.28	20	20	20.0	24.8	100	124	75-125	21	30	
1,2,4-Trichlorobenzene	ug/L	<0.21	20	20	16.1	18.0	81	90	60-135	11	30	
1,2,4-Trimethylbenzene	ug/L	<0.18	20	20	18.9	21.8	95	109	67-148	14	30	
1,2-Dibromo-3-chloropropane	ug/L	<0.60	50	50	39.1	49.6	78	99	32-137	24	30	
1,2-Dibromoethane (EDB)	ug/L	<0.20	20	20	19.2	23.9	96	119	75-125	21	30	
1,2-Dichlorobenzene	ug/L	<0.17	20	20	18.7	22.2	93	111	75-125	17	30	
1,2-Dichloroethane	ug/L	<0.17	20	20	17.1	21.2	86	106	62-138	21	30	
1,2-Dichloropropane	ug/L	<0.22	20	20	17.4	22.2	87	111	62-144	25	30	
1,3,5-Trimethylbenzene	ug/L	<0.27	20	20	19.2	22.0	96	110	67-148	13	30	
1,3-Dichlorobenzene	ug/L	<0.12	20	20	17.7	20.0	89	100	74-131	12	30	
1,3-Dichloropropane	ug/L	<0.096	20	20	19.6	24.4	98	122	75-127	22	30	
1,4-Dichlorobenzene	ug/L	<0.21	20	20	18.0	20.8	90	104	74-126	15	30	
2,2-Dichloropropane	ug/L	<0.13	20	20	15.6	19.7	78	99	56-146	23	30	
2-Butanone (MEK)	ug/L	<1.1	100	100	79.7	101	80	101	47-150	23	30	
2-Chlorotoluene	ug/L	<0.30	20	20	19.1	22.2	96	111	74-137	15	30	
4-Chlorotoluene	ug/L	<0.26	20	20	19.0	21.4	95	107	72-138	12	30	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.43	100	100	88.9	112	89	112	60-147	23	30	
Acetone	ug/L	2.4J	100	100	99.9	126	98	123	61-150	23	30	

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QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2341621 2341622

Parameter	Units	10358621001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Allyl chloride	ug/L	<0.25	20	20	19.3	23.4	97	117	53-150	19	30	
Benzene	ug/L	0.75J	20	20	17.8	22.5	85	109	52-147	23	30	
Bromobenzene	ug/L	<0.34	20	20	19.8	23.6	99	118	75-129	17	30	
Bromochloromethane	ug/L	<0.19	20	20	18.4	23.1	92	115	72-128	22	30	
Bromodichloromethane	ug/L	<0.24	20	20	18.1	22.6	91	113	65-137	22	30	
Bromoform	ug/L	<0.27	20	20	15.2	19.1	76	95	59-133	23	30	
Bromomethane	ug/L	<0.44	20	20	18.5	24.5	93	123	30-150	28	30	
Carbon tetrachloride	ug/L	<0.20	20	20	17.6	21.5	88	108	73-144	20	30	
Chlorobenzene	ug/L	<0.11	20	20	18.0	21.7	90	109	75-126	19	30	
Chloroethane	ug/L	<0.34	20	20	17.1	21.0	86	105	55-150	21	30	
Chloroform	ug/L	<0.21	20	20	18.7	22.6	93	113	66-143	19	30	
Chloromethane	ug/L	<0.25	20	20	20.3	23.0	101	115	42-150	12	30	
cis-1,2-Dichloroethene	ug/L	<0.12	20	20	17.7	21.6	88	108	65-143	20	30	
cis-1,3-Dichloropropene	ug/L	<0.15	20	20	16.4	20.4	82	102	75-125	22	30	
Dibromochloromethane	ug/L	<0.16	20	20	16.6	20.5	83	103	75-125	21	30	
Dibromomethane	ug/L	<0.19	20	20	18.1	22.5	91	113	66-133	22	30	
Dichlorodifluoromethane	ug/L	<0.23	20	20	18.8	22.0	94	110	74-150	16	30	
Dichlorofluoromethane	ug/L	<0.21	20	20	18.5	22.5	93	112	68-150	19	30	
Diethyl ether (Ethyl ether)	ug/L	<0.19	20	20	18.8	24.7	94	124	57-148	27	30	
Ethylbenzene	ug/L	<0.15	20	20	17.8	20.5	89	102	67-149	14	30	
Hexachloro-1,3-butadiene	ug/L	<0.18	20	20	18.2	21.2	91	106	65-143	15	30	
Isopropylbenzene (Cumene)	ug/L	<0.25	20	20	18.5	22.1	93	111	64-150	18	30	
Methyl-tert-butyl ether	ug/L	<0.15	20	20	20.5	19.7	103	98	71-130	4	30	
Methylene Chloride	ug/L	<0.29	20	20	21.1	22.9	106	114	67-137	8	30	
n-Butylbenzene	ug/L	<0.16	20	20	17.8	19.6	89	98	70-138	10	30	
n-Propylbenzene	ug/L	<0.23	20	20	19.0	21.4	95	107	70-148	12	30	
Naphthalene	ug/L	<0.20	20	20	16.9	20.8	84	104	39-150	21	30	
p-Isopropyltoluene	ug/L	<0.19	20	20	19.3	21.7	96	109	74-138	12	30	
sec-Butylbenzene	ug/L	<0.19	20	20	19.5	22.2	97	111	64-150	13	30	
Styrene	ug/L	<0.29	20	20	19.2	22.7	96	113	75-132	17	30	
tert-Butylbenzene	ug/L	<0.22	20	20	19.7	23.6	99	118	75-138	18	30	
Tetrachloroethene	ug/L	<0.25	20	20	17.8	19.5	89	98	73-136	9	30	
Tetrahydrofuran	ug/L	<1.5	200	200	181	274	90	137	68-142	41	30	R1
Toluene	ug/L	<0.14	20	20	18.1	22.0	91	110	69-139	19	30	
trans-1,2-Dichloroethene	ug/L	<0.16	20	20	20.5	19.3	103	97	75-135	6	30	
trans-1,3-Dichloropropene	ug/L	<0.15	20	20	17.5	22.2	88	111	66-136	24	30	
Trichloroethene	ug/L	<0.20	20	20	17.7	21.8	89	109	74-135	21	30	
Trichlorofluoromethane	ug/L	<0.33	20	20	18.9	23.5	94	118	75-150	22	30	
Vinyl chloride	ug/L	<0.29	20	20	18.3	22.7	92	114	69-150	22	30	
Xylene (Total)	ug/L	<0.32	60	60	56.0	65.5	93	109	70-147	16	30	
1,2-Dichloroethane-d4 (S)	%.						106	106	75-125			
4-Bromofluorobenzene (S)	%.						102	99	75-125			
Toluene-d8 (S)	%.						105	104	75-125			

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QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

QC Batch: 430041 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV 465 W
Associated Lab Samples: 10358621004, 10358621005, 10358621006, 10358621010

METHOD BLANK: 2339729 Matrix: Water
Associated Lab Samples: 10358621004, 10358621005, 10358621006, 10358621010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.17	4.0	08/12/16 05:28	
1,1,1-Trichloroethane	ug/L	<0.17	1.0	08/12/16 05:28	
1,1,2,2-Tetrachloroethane	ug/L	<0.22	1.0	08/12/16 05:28	
1,1,2-Trichloroethane	ug/L	<0.15	1.0	08/12/16 05:28	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.32	1.0	08/12/16 05:28	
1,1-Dichloroethane	ug/L	<0.17	4.0	08/12/16 05:28	
1,1-Dichloroethene	ug/L	<0.28	1.0	08/12/16 05:28	
1,1-Dichloropropene	ug/L	<0.23	1.0	08/12/16 05:28	
1,2,3-Trichlorobenzene	ug/L	<0.21	1.0	08/12/16 05:28	
1,2,3-Trichloropropane	ug/L	<0.28	4.0	08/12/16 05:28	
1,2,4-Trichlorobenzene	ug/L	<0.21	1.0	08/12/16 05:28	
1,2,4-Trimethylbenzene	ug/L	<0.18	1.0	08/12/16 05:28	
1,2-Dibromo-3-chloropropane	ug/L	<0.60	10.0	08/12/16 05:28	
1,2-Dibromoethane (EDB)	ug/L	<0.20	1.0	08/12/16 05:28	
1,2-Dichlorobenzene	ug/L	<0.17	1.0	08/12/16 05:28	
1,2-Dichloroethane	ug/L	<0.17	1.0	08/12/16 05:28	
1,2-Dichloropropane	ug/L	<0.22	4.0	08/12/16 05:28	
1,3,5-Trimethylbenzene	ug/L	<0.27	1.0	08/12/16 05:28	
1,3-Dichlorobenzene	ug/L	<0.12	1.0	08/12/16 05:28	
1,3-Dichloropropane	ug/L	<0.096	1.0	08/12/16 05:28	
1,4-Dichlorobenzene	ug/L	<0.21	1.0	08/12/16 05:28	
2,2-Dichloropropane	ug/L	<0.13	4.0	08/12/16 05:28	
2-Butanone (MEK)	ug/L	<1.1	5.0	08/12/16 05:28	
2-Chlorotoluene	ug/L	<0.30	1.0	08/12/16 05:28	
4-Chlorotoluene	ug/L	<0.26	1.0	08/12/16 05:28	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.43	5.0	08/12/16 05:28	
Acetone	ug/L	1.7J	20.0	08/12/16 05:28	
Allyl chloride	ug/L	<0.25	4.0	08/12/16 05:28	
Benzene	ug/L	<0.16	1.0	08/12/16 05:28	
Bromobenzene	ug/L	<0.34	1.0	08/12/16 05:28	
Bromochloromethane	ug/L	<0.19	1.0	08/12/16 05:28	
Bromodichloromethane	ug/L	<0.24	1.0	08/12/16 05:28	
Bromoform	ug/L	<0.27	10.0	08/12/16 05:28	
Bromomethane	ug/L	<0.44	4.0	08/12/16 05:28	
Carbon tetrachloride	ug/L	<0.20	4.0	08/12/16 05:28	
Chlorobenzene	ug/L	<0.11	1.0	08/12/16 05:28	
Chloroethane	ug/L	<0.34	4.0	08/12/16 05:28	
Chloroform	ug/L	<0.21	1.0	08/12/16 05:28	
Chloromethane	ug/L	<0.25	4.0	08/12/16 05:28	
cis-1,2-Dichloroethene	ug/L	<0.12	1.0	08/12/16 05:28	
cis-1,3-Dichloropropene	ug/L	<0.15	4.0	08/12/16 05:28	

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(612)607-1700

QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

METHOD BLANK: 2339729 Matrix: Water
Associated Lab Samples: 10358621004, 10358621005, 10358621006, 10358621010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	<0.16	4.0	08/12/16 05:28	
Dibromomethane	ug/L	<0.19	4.0	08/12/16 05:28	
Dichlorodifluoromethane	ug/L	<0.23	1.0	08/12/16 05:28	
Dichlorofluoromethane	ug/L	<0.21	1.0	08/12/16 05:28	
Diethyl ether (Ethyl ether)	ug/L	<0.19	4.0	08/12/16 05:28	
Ethylbenzene	ug/L	<0.15	1.0	08/12/16 05:28	
Hexachloro-1,3-butadiene	ug/L	<0.18	4.0	08/12/16 05:28	
Isopropylbenzene (Cumene)	ug/L	<0.25	1.0	08/12/16 05:28	
Methyl-tert-butyl ether	ug/L	<0.15	1.0	08/12/16 05:28	
Methylene Chloride	ug/L	<0.29	4.0	08/12/16 05:28	
n-Butylbenzene	ug/L	<0.16	1.0	08/12/16 05:28	
n-Propylbenzene	ug/L	<0.23	1.0	08/12/16 05:28	
Naphthalene	ug/L	<0.20	4.0	08/12/16 05:28	
p-Isopropyltoluene	ug/L	<0.19	1.0	08/12/16 05:28	
sec-Butylbenzene	ug/L	<0.19	1.0	08/12/16 05:28	
Styrene	ug/L	<0.29	1.0	08/12/16 05:28	
tert-Butylbenzene	ug/L	<0.22	1.0	08/12/16 05:28	
Tetrachloroethene	ug/L	<0.25	1.0	08/12/16 05:28	
Tetrahydrofuran	ug/L	<1.5	10.0	08/12/16 05:28	
Toluene	ug/L	0.20J	1.0	08/12/16 05:28	
trans-1,2-Dichloroethene	ug/L	<0.16	1.0	08/12/16 05:28	
trans-1,3-Dichloropropene	ug/L	<0.15	4.0	08/12/16 05:28	
Trichloroethene	ug/L	<0.20	0.40	08/12/16 05:28	
Trichlorofluoromethane	ug/L	<0.33	1.0	08/12/16 05:28	
Vinyl chloride	ug/L	<0.29	0.40	08/12/16 05:28	
Xylene (Total)	ug/L	<0.32	3.0	08/12/16 05:28	
1,2-Dichloroethane-d4 (S)	%.	103	75-125	08/12/16 05:28	
4-Bromofluorobenzene (S)	%.	104	75-125	08/12/16 05:28	
Toluene-d8 (S)	%.	107	75-125	08/12/16 05:28	

LABORATORY CONTROL SAMPLE: 2339730

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	17.3	87	75-125	
1,1,1-Trichloroethane	ug/L	20	16.5	83	73-125	
1,1,2,2-Tetrachloroethane	ug/L	20	20.9	105	75-128	
1,1,2-Trichloroethane	ug/L	20	19.8	99	75-129	
1,1,2-Trichlorotrifluoroethane	ug/L	20	20.7	103	69-125	
1,1-Dichloroethane	ug/L	20	20.2	101	75-131	
1,1-Dichloroethene	ug/L	20	21.1	105	72-125	
1,1-Dichloropropene	ug/L	20	16.6	83	74-125	
1,2,3-Trichlorobenzene	ug/L	20	19.5	97	68-127	
1,2,3-Trichloropropane	ug/L	20	21.0	105	75-125	
1,2,4-Trichlorobenzene	ug/L	20	19.3	96	70-125	

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EPA-R5-2017-010506_0005670

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

LABORATORY CONTROL SAMPLE: 2339730

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	21.8	109	75-130	
1,2-Dibromo-3-chloropropane	ug/L	50	42.6	85	74-125	
1,2-Dibromoethane (EDB)	ug/L	20	20.1	101	75-125	
1,2-Dichlorobenzene	ug/L	20	21.0	105	75-125	
1,2-Dichloroethane	ug/L	20	17.1	86	72-129	
1,2-Dichloropropane	ug/L	20	17.5	88	71-129	
1,3,5-Trimethylbenzene	ug/L	20	21.8	109	75-127	
1,3-Dichlorobenzene	ug/L	20	19.8	99	75-125	
1,3-Dichloropropane	ug/L	20	20.4	102	75-125	
1,4-Dichlorobenzene	ug/L	20	20.1	100	75-125	
2,2-Dichloropropane	ug/L	20	16.1	81	71-125	
2-Butanone (MEK)	ug/L	100	82.5	82	58-150	
2-Chlorotoluene	ug/L	20	20.9	105	75-125	
4-Chlorotoluene	ug/L	20	20.7	104	75-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.9	93	72-140	
Acetone	ug/L	100	115	115	69-137	
Allyl chloride	ug/L	20	18.2	91	68-132	
Benzene	ug/L	20	18.3	92	75-125	
Bromobenzene	ug/L	20	21.1	106	75-125	
Bromochloromethane	ug/L	20	21.7	109	75-125	
Bromodichloromethane	ug/L	20	18.1	90	69-128	
Bromoform	ug/L	20	14.6	73	75-125	L0
Bromomethane	ug/L	20	20.9	105	30-150	
Carbon tetrachloride	ug/L	20	17.0	85	74-125	
Chlorobenzene	ug/L	20	19.2	96	75-125	
Chloroethane	ug/L	20	19.6	98	60-150	
Chloroform	ug/L	20	19.0	95	75-126	
Chloromethane	ug/L	20	20.0	100	46-150	
cis-1,2-Dichloroethene	ug/L	20	23.1	116	75-126	
cis-1,3-Dichloropropene	ug/L	20	17.0	85	75-125	
Dibromochloromethane	ug/L	20	16.6	83	75-125	
Dibromomethane	ug/L	20	18.0	90	72-127	
Dichlorodifluoromethane	ug/L	20	17.4	87	58-135	
Dichlorofluoromethane	ug/L	20	19.7	99	68-149	
Diethyl ether (Ethyl ether)	ug/L	20	22.2	111	66-144	
Ethylbenzene	ug/L	20	18.7	93	75-125	
Hexachloro-1,3-butadiene	ug/L	20	20.2	101	73-125	
Isopropylbenzene (Cumene)	ug/L	20	19.3	97	69-140	
Methyl-tert-butyl ether	ug/L	20	17.3	87	75-126	
Methylene Chloride	ug/L	20	17.6	88	71-130	
n-Butylbenzene	ug/L	20	20.5	103	71-129	
n-Propylbenzene	ug/L	20	20.5	103	71-133	
Naphthalene	ug/L	20	20.3	102	59-137	
p-Isopropyltoluene	ug/L	20	22.5	113	74-127	
sec-Butylbenzene	ug/L	20	20.9	105	66-140	
Styrene	ug/L	20	21.1	106	75-125	
tert-Butylbenzene	ug/L	20	20.1	101	73-129	

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QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

LABORATORY CONTROL SAMPLE: 2339730

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	20	18.2	91	75-125	
Tetrahydrofuran	ug/L	200	252	126	71-129	
Toluene	ug/L	20	19.2	96	75-125	
trans-1,2-Dichloroethene	ug/L	20	15.6	78	75-125	
trans-1,3-Dichloropropene	ug/L	20	16.7	83	75-125	
Trichloroethene	ug/L	20	18.6	93	75-125	
Trichlorofluoromethane	ug/L	20	17.6	88	74-128	
Vinyl chloride	ug/L	20	17.5	87	71-131	
Xylene (Total)	ug/L	60	59.0	98	75-125	
1,2-Dichloroethane-d4 (S)	%.			104	75-125	
4-Bromofluorobenzene (S)	%.			102	75-125	
Toluene-d8 (S)	%.			107	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2343935 2343936

Parameter	Units	10359186001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	16.3	13.8	81	69	75-125	16	30	M1
1,1,1-Trichloroethane	ug/L	ND	20	20	18.0	14.5	90	72	71-144	22	30	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.4	16.9	102	85	75-131	18	30	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.0	16.7	99	82	75-125	18	30	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	21.7	15.8	109	79	75-150	32	30	R1
1,1-Dichloroethane	ug/L	ND	20	20	22.3	16.0	111	80	64-150	33	30	R1
1,1-Dichloroethene	ug/L	ND	20	20	21.6	17.0	108	85	68-150	24	30	
1,1-Dichloropropene	ug/L	ND	20	20	18.7	14.8	93	74	68-145	23	30	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	19.4	14.8	93	70	57-142	27	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	20.4	17.6	102	88	75-125	14	30	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20.2	14.4	98	69	60-135	33	30	R1
1,2,4-Trimethylbenzene	ug/L	34.2	20	20	58.3	50.8	121	83	67-148	14	30	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	39.8	33.2	80	66	32-137	18	30	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	18.8	16.1	94	80	75-125	16	30	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.1	15.6	100	78	75-125	25	30	
1,2-Dichloroethane	ug/L	ND	20	20	17.6	14.3	86	70	62-138	20	30	
1,2-Dichloropropane	ug/L	ND	20	20	17.4	14.9	87	75	62-144	15	30	
1,3,5-Trimethylbenzene	ug/L	10.1	20	20	31.8	25.5	108	77	67-148	22	30	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.6	14.5	97	72	74-131	30	30	M1
1,3-Dichloropropane	ug/L	ND	20	20	19.3	16.4	97	82	75-127	16	30	
1,4-Dichlorobenzene	ug/L	ND	20	20	19.8	15.2	98	75	74-126	27	30	
2,2-Dichloropropane	ug/L	ND	20	20	12.9	10.6	64	53	56-146	19	30	M1
2-Butanone (MEK)	ug/L	ND	100	100	83.8	71.4	84	71	47-150	16	30	
2-Chlorotoluene	ug/L	ND	20	20	22.1	17.0	111	85	74-137	26	30	
4-Chlorotoluene	ug/L	ND	20	20	20.4	15.4	102	77	72-138	28	30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	91.8	78.8	92	79	60-147	15	30	
Acetone	ug/L	ND	100	100	107	119	98	110	61-150	11	30	

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QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2343935 2343936

Parameter	Units	10359186001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Allyl chloride	ug/L	ND	20	20	20.7	15.8	103	79	53-150	27	30	
Benzene	ug/L	43.7	20	20	61.9	56.0	91	62	52-147	10	30	
Bromobenzene	ug/L	ND	20	20	20.0	16.5	100	83	75-129	19	30	
Bromochloromethane	ug/L	ND	20	20	18.4	15.0	92	75	72-128	21	30	
Bromodichloromethane	ug/L	ND	20	20	17.0	14.3	85	71	65-137	18	30	
Bromoform	ug/L	ND	20	20	14.6	12.8	73	64	59-133	13	30	
Bromomethane	ug/L	ND	20	20	17.4	18.2	87	91	30-150	4	30	
Carbon tetrachloride	ug/L	ND	20	20	17.7	13.8	88	69	73-144	25	30	M1
Chlorobenzene	ug/L	ND	20	20	19.0	15.5	95	77	75-126	20	30	
Chloroethane	ug/L	ND	20	20	16.9	15.7	84	78	55-150	7	30	
Chloroform	ug/L	ND	20	20	18.4	15.4	92	77	66-143	18	30	
Chloromethane	ug/L	ND	20	20	18.4	15.3	92	77	42-150	18	30	
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.4	14.8	92	74	65-143	22	30	
cis-1,3-Dichloropropene	ug/L	ND	20	20	16.0	13.0	80	65	75-125	20	30	M1
Dibromochloromethane	ug/L	ND	20	20	16.2	13.9	81	70	75-125	15	30	M1
Dibromomethane	ug/L	ND	20	20	17.4	14.4	87	72	66-133	19	30	
Dichlorodifluoromethane	ug/L	ND	20	20	16.4	13.5	82	67	74-150	20	30	M1
Dichlorofluoromethane	ug/L	ND	20	20	18.5	15.0	92	75	68-150	21	30	
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	22.1	17.1	111	85	57-148	26	30	
Ethylbenzene	ug/L	7.8	20	20	27.3	22.6	97	74	67-149	19	30	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	22.1	17.8	108	86	65-143	21	30	
Isopropylbenzene (Cumene)	ug/L	1.3	20	20	22.0	17.6	104	82	64-150	22	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	18.3	17.6	90	87	71-130	4	30	
Methylene Chloride	ug/L	ND	20	20	19.2	14.7	96	74	67-137	27	30	
n-Butylbenzene	ug/L	2.8	20	20	26.6	19.0	119	81	70-138	33	30	R1
n-Propylbenzene	ug/L	6.1	20	20	27.7	22.1	108	80	70-148	22	30	
Naphthalene	ug/L	7.7	20	20	25.9	21.8	91	71	39-150	17	30	
p-Isopropyltoluene	ug/L	ND	20	20	23.4	17.6	113	84	74-138	28	30	
sec-Butylbenzene	ug/L	1.3	20	20	22.8	18.1	107	84	64-150	23	30	
Styrene	ug/L	ND	20	20	20.4	16.8	102	83	75-132	20	30	
tert-Butylbenzene	ug/L	ND	20	20	22.2	17.3	110	85	75-138	25	30	
Tetrachloroethene	ug/L	ND	20	20	18.8	14.3	94	71	73-136	27	30	M1
Tetrahydrofuran	ug/L	ND	200	200	218	210	109	105	68-142	4	30	
Toluene	ug/L	7.1	20	20	26.3	22.8	96	79	69-139	14	30	
trans-1,2-Dichloroethene	ug/L	ND	20	20	17.2	16.7	86	83	75-135	3	30	
trans-1,3-Dichloropropene	ug/L	ND	20	20	16.7	14.3	83	71	66-136	15	30	
Trichloroethene	ug/L	ND	20	20	18.0	14.7	90	74	74-135	20	30	
Trichlorofluoromethane	ug/L	ND	20	20	17.7	14.7	88	74	75-150	18	30	M1
Vinyl chloride	ug/L	ND	20	20	17.5	14.8	87	74	69-150	16	30	
Xylene (Total)	ug/L	65.6	60	60	131	113	109	79	70-147	15	30	
1,2-Dichloroethane-d4 (S)	%.						106	103	75-125			
4-Bromofluorobenzene (S)	%.						104	100	75-125			
Toluene-d8 (S)	%.						104	107	75-125			

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QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

QC Batch: 430893 | Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B | Analysis Description: 8260B MSV 465 W
Associated Lab Samples: 10358621007, 10358621011

METHOD BLANK: 2343919 | Matrix: Water
Associated Lab Samples: 10358621007, 10358621011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.17	4.0	08/16/16 22:26	
1,1,1-Trichloroethane	ug/L	<0.17	1.0	08/16/16 22:26	
1,1,2,2-Tetrachloroethane	ug/L	<0.22	1.0	08/16/16 22:26	
1,1,2-Trichloroethane	ug/L	<0.15	1.0	08/16/16 22:26	
1,1,2-Trichlorotrifluoroethane	ug/L	<0.32	1.0	08/16/16 22:26	
1,1-Dichloroethane	ug/L	<0.17	1.0	08/16/16 22:26	
1,1-Dichloroethene	ug/L	<0.28	1.0	08/16/16 22:26	
1,1-Dichloropropene	ug/L	<0.23	1.0	08/16/16 22:26	
1,2,3-Trichlorobenzene	ug/L	<0.21	1.0	08/16/16 22:26	
1,2,3-Trichloropropane	ug/L	<0.28	4.0	08/16/16 22:26	
1,2,4-Trichlorobenzene	ug/L	<0.21	1.0	08/16/16 22:26	
1,2,4-Trimethylbenzene	ug/L	<0.18	1.0	08/16/16 22:26	
1,2-Dibromo-3-chloropropane	ug/L	<0.60	10.0	08/16/16 22:26	
1,2-Dibromoethane (EDB)	ug/L	<0.20	1.0	08/16/16 22:26	
1,2-Dichlorobenzene	ug/L	<0.17	1.0	08/16/16 22:26	
1,2-Dichloroethane	ug/L	<0.17	1.0	08/16/16 22:26	
1,2-Dichloropropane	ug/L	<0.22	4.0	08/16/16 22:26	
1,3,5-Trimethylbenzene	ug/L	<0.27	1.0	08/16/16 22:26	
1,3-Dichlorobenzene	ug/L	<0.12	1.0	08/16/16 22:26	
1,3-Dichloropropane	ug/L	<0.096	1.0	08/16/16 22:26	
1,4-Dichlorobenzene	ug/L	<0.21	1.0	08/16/16 22:26	
2,2-Dichloropropane	ug/L	<0.13	4.0	08/16/16 22:26	
2-Butanone (MEK)	ug/L	<1.1	5.0	08/16/16 22:26	
2-Chlorotoluene	ug/L	<0.30	1.0	08/16/16 22:26	
4-Chlorotoluene	ug/L	<0.26	1.0	08/16/16 22:26	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.43	5.0	08/16/16 22:26	
Acetone	ug/L	<2.0	20.0	08/16/16 22:26	
Allyl chloride	ug/L	<0.25	4.0	08/16/16 22:26	
Benzene	ug/L	<0.16	1.0	08/16/16 22:26	
Bromobenzene	ug/L	<0.34	1.0	08/16/16 22:26	
Bromochloromethane	ug/L	<0.19	1.0	08/16/16 22:26	
Bromodichloromethane	ug/L	<0.24	1.0	08/16/16 22:26	
Bromoform	ug/L	<0.27	4.0	08/16/16 22:26	
Bromomethane	ug/L	<0.44	4.0	08/16/16 22:26	
Carbon tetrachloride	ug/L	<0.20	4.0	08/16/16 22:26	
Chlorobenzene	ug/L	<0.11	1.0	08/16/16 22:26	
Chloroethane	ug/L	<0.34	1.0	08/16/16 22:26	
Chloroform	ug/L	<0.21	1.0	08/16/16 22:26	
Chloromethane	ug/L	<0.25	4.0	08/16/16 22:26	
cis-1,2-Dichloroethene	ug/L	<0.12	1.0	08/16/16 22:26	
cis-1,3-Dichloropropene	ug/L	<0.15	4.0	08/16/16 22:26	

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REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

METHOD BLANK: 2343919 Matrix: Water
Associated Lab Samples: 10358621007, 10358621011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	<0.16	4.0	08/16/16 22:26	
Dibromomethane	ug/L	<0.19	4.0	08/16/16 22:26	
Dichlorodifluoromethane	ug/L	<0.23	1.0	08/16/16 22:26	
Dichlorofluoromethane	ug/L	<0.21	1.0	08/16/16 22:26	
Diethyl ether (Ethyl ether)	ug/L	<0.19	4.0	08/16/16 22:26	
Ethylbenzene	ug/L	<0.15	1.0	08/16/16 22:26	
Hexachloro-1,3-butadiene	ug/L	<0.18	1.0	08/16/16 22:26	
Isopropylbenzene (Cumene)	ug/L	<0.25	1.0	08/16/16 22:26	
Methyl-tert-butyl ether	ug/L	<0.15	1.0	08/16/16 22:26	
Methylene Chloride	ug/L	<0.29	4.0	08/16/16 22:26	
n-Butylbenzene	ug/L	<0.16	1.0	08/16/16 22:26	
n-Propylbenzene	ug/L	<0.23	1.0	08/16/16 22:26	
Naphthalene	ug/L	<0.20	4.0	08/16/16 22:26	
p-Isopropyltoluene	ug/L	<0.19	1.0	08/16/16 22:26	
sec-Butylbenzene	ug/L	<0.19	1.0	08/16/16 22:26	
Styrene	ug/L	<0.29	1.0	08/16/16 22:26	
tert-Butylbenzene	ug/L	<0.22	1.0	08/16/16 22:26	
Tetrachloroethene	ug/L	<0.25	1.0	08/16/16 22:26	
Tetrahydrofuran	ug/L	<1.5	10.0	08/16/16 22:26	
Toluene	ug/L	<0.14	1.0	08/16/16 22:26	
trans-1,2-Dichloroethene	ug/L	<0.16	1.0	08/16/16 22:26	
trans-1,3-Dichloropropene	ug/L	<0.15	4.0	08/16/16 22:26	
Trichloroethene	ug/L	<0.20	0.40	08/16/16 22:26	
Trichlorofluoromethane	ug/L	<0.33	1.0	08/16/16 22:26	
Vinyl chloride	ug/L	<0.15	1.0	08/16/16 22:26	
Xylene (Total)	ug/L	<0.32	3.0	08/16/16 22:26	
1,2-Dichloroethane-d4 (S)	%.	94	75-125	08/16/16 22:26	
4-Bromofluorobenzene (S)	%.	101	75-125	08/16/16 22:26	
Toluene-d8 (S)	%.	97	75-125	08/16/16 22:26	

LABORATORY CONTROL SAMPLE: 2343920

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.1	106	75-125	
1,1,1-Trichloroethane	ug/L	50	51.8	104	73-125	
1,1,2,2-Tetrachloroethane	ug/L	50	49.6	99	75-128	
1,1,2-Trichloroethane	ug/L	50	50.9	102	75-129	
1,1,2-Trichlorotrifluoroethane	ug/L	50	51.6	103	69-125	
1,1-Dichloroethane	ug/L	50	49.9	100	75-131	
1,1-Dichloroethene	ug/L	50	46.8	94	72-125	
1,1-Dichloropropene	ug/L	50	50.8	102	74-125	
1,2,3-Trichlorobenzene	ug/L	50	49.3	99	68-127	
1,2,3-Trichloropropane	ug/L	50	49.9	100	75-125	
1,2,4-Trichlorobenzene	ug/L	50	50.1	100	70-125	

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REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

LABORATORY CONTROL SAMPLE: 2343920

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	51.8	104	75-130	
1,2-Dibromo-3-chloropropane	ug/L	125	121	96	74-125	
1,2-Dibromoethane (EDB)	ug/L	50	52.6	105	75-125	
1,2-Dichlorobenzene	ug/L	50	49.6	99	75-125	
1,2-Dichloroethane	ug/L	50	47.5	95	72-129	
1,2-Dichloropropane	ug/L	50	51.2	102	71-129	
1,3,5-Trimethylbenzene	ug/L	50	48.8	98	75-127	
1,3-Dichlorobenzene	ug/L	50	47.0	94	75-125	
1,3-Dichloropropane	ug/L	50	50.9	102	75-125	
1,4-Dichlorobenzene	ug/L	50	44.9	90	75-125	
2,2-Dichloropropane	ug/L	50	48.5	97	71-125	
2-Butanone (MEK)	ug/L	250	250	100	58-150	
2-Chlorotoluene	ug/L	50	49.1	98	75-125	
4-Chlorotoluene	ug/L	50	47.3	95	75-130	
4-Methyl-2-pentanone (MIBK)	ug/L	250	253	101	72-140	
Acetone	ug/L	250	249	100	69-137	
Allyl chloride	ug/L	50	51.8	104	68-132	
Benzene	ug/L	50	49.8	100	75-125	
Bromobenzene	ug/L	50	52.1	104	75-125	
Bromochloromethane	ug/L	50	53.8	108	75-125	
Bromodichloromethane	ug/L	50	54.6	109	69-128	
Bromoform	ug/L	50	41.5	83	75-125	
Bromomethane	ug/L	50	47.4	95	30-150	
Carbon tetrachloride	ug/L	50	52.8	106	74-125	
Chlorobenzene	ug/L	50	48.9	98	75-125	
Chloroethane	ug/L	50	54.8	110	60-150	
Chloroform	ug/L	50	53.8	108	75-126	
Chloromethane	ug/L	50	50.0	100	46-150	
cis-1,2-Dichloroethene	ug/L	50	48.8	98	75-126	
cis-1,3-Dichloropropene	ug/L	50	52.3	105	75-125	
Dibromochloromethane	ug/L	50	43.9	88	75-125	
Dibromomethane	ug/L	50	52.1	104	72-127	
Dichlorodifluoromethane	ug/L	50	53.3	107	58-135	
Dichlorofluoromethane	ug/L	50	56.0	112	68-149	
Diethyl ether (Ethyl ether)	ug/L	50	50.8	102	66-144	
Ethylbenzene	ug/L	50	47.8	96	75-125	
Hexachloro-1,3-butadiene	ug/L	50	51.8	104	73-125	
Isopropylbenzene (Cumene)	ug/L	50	49.3	99	69-140	
Methyl-tert-butyl ether	ug/L	50	50.7	101	75-126	
Methylene Chloride	ug/L	50	49.2	98	71-130	
n-Butylbenzene	ug/L	50	52.1	104	71-129	
n-Propylbenzene	ug/L	50	47.1	94	71-133	
Naphthalene	ug/L	50	44.7	89	59-137	
p-Isopropyltoluene	ug/L	50	52.5	105	74-127	
sec-Butylbenzene	ug/L	50	47.6	95	66-140	
Styrene	ug/L	50	49.5	99	75-125	
tert-Butylbenzene	ug/L	50	47.1	94	73-129	

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QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

LABORATORY CONTROL SAMPLE: 2343920

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	50	49.5	99	75-125	
Tetrahydrofuran	ug/L	500	490	98	71-129	
Toluene	ug/L	50	48.3	97	75-125	
trans-1,2-Dichloroethene	ug/L	50	49.4	99	75-125	
trans-1,3-Dichloropropene	ug/L	50	45.0	90	75-125	
Trichloroethene	ug/L	50	51.6	103	75-125	
Trichlorofluoromethane	ug/L	50	59.4	119	74-128	
Vinyl chloride	ug/L	50	50.7	101	71-131	
Xylene (Total)	ug/L	150	144	96	75-125	
1,2-Dichloroethane-d4 (S)	%.			103	75-125	
4-Bromofluorobenzene (S)	%.			100	75-125	
Toluene-d8 (S)	%.			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2343944 2343945

Parameter	Units	10358621007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<0.17	20	20	25.3	27.5	127	137	75-125	8	30	M1
1,1,1-Trichloroethane	ug/L	<0.17	20	20	26.2	29.0	131	145	71-144	10	30	M1
1,1,2,2-Tetrachloroethane	ug/L	<0.22	20	20	23.1	26.4	116	132	75-131	13	30	M1
1,1,2-Trichloroethane	ug/L	<0.15	20	20	25.3	27.5	126	137	75-125	8	30	M1
1,1,2-Trichlorotrifluoroethane	ug/L	<0.32	20	20	28.9	32.8	145	164	75-150	12	30	M1
1,1-Dichloroethane	ug/L	<0.17	20	20	24.4	26.8	122	134	64-150	10	30	
1,1-Dichloroethene	ug/L	<0.28	20	20	26.4	28.7	132	143	68-150	8	30	
1,1-Dichloropropene	ug/L	<0.23	20	20	26.2	29.4	131	147	68-145	12	30	
1,2,3-Trichlorobenzene	ug/L	<0.21	20	20	22.6	26.0	113	130	57-142	14	30	
1,2,3-Trichloropropane	ug/L	<0.28	20	20	23.5	25.6	118	128	75-125	9	30	M1
1,2,4-Trichlorobenzene	ug/L	<0.21	20	20	22.9	26.3	115	131	60-135	14	30	
1,2,4-Trimethylbenzene	ug/L	30.6	20	20	57.4	62.2	134	158	67-148	8	30	M1
1,2-Dibromo-3-chloropropane	ug/L	<0.60	50	50	54.6	60.0	109	120	32-137	9	30	
1,2-Dibromoethane (EDB)	ug/L	<0.20	20	20	24.8	26.8	124	134	75-125	7	30	M1
1,2-Dichlorobenzene	ug/L	<0.17	20	20	23.6	26.1	118	131	75-125	10	30	M1
1,2-Dichloroethane	ug/L	<0.17	20	20	22.6	25.0	113	125	62-138	10	30	
1,2-Dichloropropane	ug/L	<0.22	20	20	24.8	27.5	124	138	62-144	10	30	
1,3,5-Trimethylbenzene	ug/L	8.2	20	20	33.3	35.4	125	136	67-148	6	30	
1,3-Dichlorobenzene	ug/L	<0.12	20	20	22.9	25.3	115	127	74-131	10	30	
1,3-Dichloropropane	ug/L	<0.096	20	20	24.2	25.9	121	130	75-127	7	30	M1
1,4-Dichlorobenzene	ug/L	<0.21	20	20	21.8	24.3	109	121	74-126	11	30	
2,2-Dichloropropane	ug/L	<0.13	20	20	22.7	25.5	114	127	56-146	11	30	
2-Butanone (MEK)	ug/L	<1.1	100	100	109	124	109	124	47-150	13	30	
2-Chlorotoluene	ug/L	<0.30	20	20	26.3	28.0	131	140	74-137	6	30	M1
4-Chlorotoluene	ug/L	<0.26	20	20	23.5	25.5	117	128	72-138	8	30	
4-Methyl-2-pentanone (MIBK)	ug/L	<0.43	100	100	114	125	114	125	60-147	9	30	
Acetone	ug/L	2.2J	100	100	121	142	119	140	61-150	16	30	

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QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2343944 2343945

Parameter	Units	10358621007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Allyl chloride	ug/L	<0.25	20	20	20.6	24.1	103	121	53-150	16	30	
Benzene	ug/L	45.9	20	20	71.9	80.3	130	172	52-147	11	30	M1
Bromobenzene	ug/L	<0.34	20	20	25.7	27.7	128	139	75-129	8	30	M1
Bromochloromethane	ug/L	<0.19	20	20	25.7	28.0	129	140	72-128	8	30	M1
Bromodichloromethane	ug/L	<0.24	20	20	25.5	28.9	127	145	65-137	13	30	M1
Bromoform	ug/L	<0.27	20	20	19.7	21.4	98	107	59-133	9	30	
Bromomethane	ug/L	<0.44	20	20	24.6	31.4	123	157	30-150	24	30	M1
Carbon tetrachloride	ug/L	<0.20	20	20	27.1	31.0	136	155	73-144	14	30	M1
Chlorobenzene	ug/L	<0.11	20	20	24.1	26.5	121	133	75-126	10	30	M1
Chloroethane	ug/L	<0.34	20	20	29.5	37.8	147	189	55-150	25	30	M1
Chloroform	ug/L	<0.21	20	20	25.8	28.7	129	144	66-143	11	30	M1
Chloromethane	ug/L	<0.25	20	20	21.1	35.5	105	177	42-150	51	30	M1,R1
cis-1,2-Dichloroethene	ug/L	<0.12	20	20	23.6	26.9	118	134	65-143	13	30	
cis-1,3-Dichloropropene	ug/L	<0.15	20	20	24.3	27.2	122	136	75-125	11	30	M1
Dibromochloromethane	ug/L	<0.16	20	20	21.2	23.1	106	115	75-125	9	30	
Dibromomethane	ug/L	<0.19	20	20	24.6	27.0	123	135	66-133	9	30	M1
Dichlorodifluoromethane	ug/L	<0.23	20	20	24.3	31.7	122	158	74-150	26	30	M1
Dichlorofluoromethane	ug/L	<0.21	20	20	26.1	33.3	130	166	68-150	24	30	M1
Diethyl ether (Ethyl ether)	ug/L	<0.19	20	20	25.1	27.5	126	138	57-148	9	30	
Ethylbenzene	ug/L	8.1	20	20	32.5	35.4	122	136	67-149	8	30	
Hexachloro-1,3-butadiene	ug/L	<0.18	20	20	25.9	31.0	130	155	65-143	18	30	M1
Isopropylbenzene (Cumene)	ug/L	1.2	20	20	26.2	28.2	125	135	64-150	7	30	
Methyl-tert-butyl ether	ug/L	<0.15	20	20	23.7	25.8	118	129	71-130	8	30	
Methylene Chloride	ug/L	<0.29	20	20	23.0	26.1	115	131	67-137	13	30	
n-Butylbenzene	ug/L	1.8	20	20	28.2	31.8	132	150	70-138	12	30	M1
n-Propylbenzene	ug/L	5.3	20	20	29.3	32.4	120	136	70-148	10	30	
Naphthalene	ug/L	4.9	20	20	25.0	28.6	100	118	39-150	13	30	
p-Isopropyltoluene	ug/L	0.44J	20	20	27.5	30.3	135	149	74-138	9	30	M1
sec-Butylbenzene	ug/L	0.69J	20	20	24.7	27.2	120	133	64-150	10	30	
Styrene	ug/L	<0.29	20	20	24.5	26.4	122	132	75-132	7	30	
tert-Butylbenzene	ug/L	<0.22	20	20	23.9	25.9	120	130	75-138	8	30	
Tetrachloroethene	ug/L	<0.25	20	20	26.3	27.7	132	138	73-136	5	30	M1
Tetrahydrofuran	ug/L	<1.5	200	200	246	278	123	139	68-142	12	30	
Toluene	ug/L	7.3	20	20	32.2	34.9	125	138	69-139	8	30	
trans-1,2-Dichloroethene	ug/L	<0.16	20	20	25.4	28.0	127	140	75-135	10	30	M1
trans-1,3-Dichloropropene	ug/L	<0.15	20	20	21.7	23.6	109	118	66-136	8	30	
Trichloroethene	ug/L	<0.20	20	20	26.2	29.3	131	146	74-135	11	30	M1
Trichlorofluoromethane	ug/L	<0.33	20	20	30.6	40.5	153	202	75-150	28	30	M1
Vinyl chloride	ug/L	<0.15	20	20	23.3	30.7	116	154	69-150	28	30	M1
Xylene (Total)	ug/L	64.5	60	60	138	152	122	145	70-147	10	30	
1,2-Dichloroethane-d4 (S)	%.						99	100	75-125			
4-Bromofluorobenzene (S)	%.						102	101	75-125			
Toluene-d8 (S)	%.						99	97	75-125			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

QC Batch: 430853 Analysis Method: SM 2510B
QC Batch Method: SM 2510B Analysis Description: 2510B Specific Conductance
Associated Lab Samples: 10358621004, 10358621005, 10358621006, 10358621007, 10358621011

METHOD BLANK: 2343818 Matrix: Water
Associated Lab Samples: 10358621004, 10358621005, 10358621006, 10358621007, 10358621011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	<10.0	10.0	08/16/16 14:58	

LABORATORY CONTROL SAMPLE: 2343819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1000	1010	101	90-110	

SAMPLE DUPLICATE: 2343820

Parameter	Units	10358347002 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	1020	1020	0	20	

SAMPLE DUPLICATE: 2343821

Parameter	Units	10358621007 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	2100	2100	0	20	

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QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

QC Batch: 430697 Analysis Method: SM 4500-H+B
QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH
Associated Lab Samples: 10358621004, 10358621005, 10358621006, 10358621007, 10358621011

LABORATORY CONTROL SAMPLE: 2343119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
pH at 25 Degrees C	Std. Units	7	7.0	100	98-102	H6

SAMPLE DUPLICATE: 2343120

Parameter	Units	10358347002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.2	1	3	H6

SAMPLE DUPLICATE: 2343121

Parameter	Units	10358621007 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.5	6.4	0	3	H6

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QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

QC Batch: 430800 Analysis Method: SM 4500-S2-D
QC Batch Method: SM 4500-S2-D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 10358621004, 10358621005, 10358621006, 10358621007, 10358621011

METHOD BLANK: 2343402 Matrix: Water
Associated Lab Samples: 10358621004, 10358621005, 10358621006, 10358621007, 10358621011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	<0.011	0.10	08/16/16 13:26	

LABORATORY CONTROL SAMPLE: 2343403

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	.9	0.89	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2343404 2343405

Parameter	Units	10358621007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	0.014J	.9	.9	0.86	0.82	94	90	80-120	4	20	

SAMPLE DUPLICATE: 2343406

Parameter	Units	10358621005 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide	mg/L	0.022J	0.024J		20	

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QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

QC Batch: 430673 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 10358621001, 10358621002, 10358621003, 10358621004, 10358621005, 10358621006, 10358621007, 10358621010, 10358621011

METHOD BLANK: 2343037 Matrix: Water
Associated Lab Samples: 10358621001, 10358621002, 10358621003, 10358621004, 10358621005, 10358621006, 10358621007, 10358621010, 10358621011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	<0.0016	0.010	08/17/16 23:50	
4-Bromofluorobenzene (S)	%.	102	30-150	08/17/16 23:50	

LABORATORY CONTROL SAMPLE: 2343038

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.11	0.11	105	60-140	
4-Bromofluorobenzene (S)	%.			103	30-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2343039 2343040

Parameter	Units	10358621007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	<0.0016	.1	.11	0.11	0.11	103	102	60-140	0	20	
4-Bromofluorobenzene (S)	%.						48	45	30-150			

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QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

QC Batch: 431923 Analysis Method: SM 4500-NO3 H
QC Batch Method: SM 4500-NO3 H Analysis Description: SM4500NO3-H, NO2 + NO3 pres.
Associated Lab Samples: 10358621004, 10358621005, 10358621006, 10358621007, 10358621011

METHOD BLANK: 2349006 Matrix: Water
Associated Lab Samples: 10358621004, 10358621005, 10358621006, 10358621007, 10358621011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	<0.050	0.17	08/24/16 08:54	

LABORATORY CONTROL SAMPLE: 2349007

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2349008 2349009

Parameter	Units	10358583039 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	ND	2.5	2.5	0.77	0.74	30	29	80-120	3	30	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2349010 2349011

Parameter	Units	10358621007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.063J	2.5	2.5	2.2	2.2	87	87	80-120	0	30	

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QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

QC Batch: 430263 Analysis Method: ASTM D516
QC Batch Method: ASTM D516 Analysis Description: ASTM D516 Sulfate Water
Associated Lab Samples: 10358621004, 10358621005, 10358621006, 10358621007, 10358621011

METHOD BLANK: 2340951 Matrix: Water
Associated Lab Samples: 10358621004, 10358621005, 10358621006, 10358621007, 10358621011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<1.0	3.5	08/12/16 09:12	

LABORATORY CONTROL SAMPLE & LCSD: 2340952 2340953

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Sulfate	mg/L	7.5	7.9	7.8	106	105	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2340954 2340955

Parameter	Units	10358073002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	390	20	20	398	408	41	92	80-120	3	30	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2340956 2340957

Parameter	Units	10358621007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	1.1J	20	20	17.6	17.8	82	83	80-120	1	30	

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QUALITY CONTROL DATA

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

QC Batch: 430036 | Analysis Method: SM 4500-NO2 B
QC Batch Method: SM 4500-NO2 B | Analysis Description: SM4500NO2-B, Nitrite, unpres
Associated Lab Samples: 10358621004, 10358621005, 10358621006, 10358621007, 10358621011

METHOD BLANK: 2339706 | Matrix: Water
Associated Lab Samples: 10358621004, 10358621005, 10358621006, 10358621007, 10358621011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrite as N	mg/L	<0.0036	0.012	08/11/16 09:00	

LABORATORY CONTROL SAMPLE: 2339707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrite as N	mg/L	.3	0.30	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2339708 2339709

Parameter	Units	10358621007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrite as N	mg/L	<0.0036	.3	.3	0.30	0.29	99	98	80-120	1	30	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis
PASI-MT	Pace Analytical Services - Montana

WORKORDER QUALIFIERS

WO: 10358621

[1]	Samples requiring thermal preservation were received outside of recommended temperature limits of 0-6 degrees Celsius.

ANALYTE QUALIFIERS

1M	Low surrogate recovery due to emulsion forming during the extraction process.
AL	The lab does not hold A2LA accreditation for this parameter.
B	Analyte was detected in the associated method blank.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H1	Analysis conducted outside the recognized method holding time.
H6	Analysis initiated outside of the 15 minute EPA required holding time.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
R1	RPD value was outside control limits.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10358621001	**1608TOWERMW16**	EPA 8011	430673	EPA 8011	430820
10358621002	**1608TOWERMW16D**	EPA 8011	430673	EPA 8011	430820
10358621003	**1608TOWERMW18D**	EPA 8011	430673	EPA 8011	430820
10358621004	**1608TOWERMW16E**	EPA 8011	430673	EPA 8011	430820
10358621005	**1608TOWERMW21**	EPA 8011	430673	EPA 8011	430820
10358621006	**1608TOWERMW21M**	EPA 8011	430673	EPA 8011	430820
10358621007	**1608TOWERMW21D**	EPA 8011	430673	EPA 8011	430820
10358621010	**1608TOWERTB2**	EPA 8011	430673	EPA 8011	430820
10358621011	**1608TOWEREQB**	EPA 8011	430673	EPA 8011	430820
10358621009	**1608TOWERIDWSS**	EPA 3050	430644	EPA 6020B	431466
10358621004	**1608TOWERMW16E**	EPA 3020	429937	EPA 6020B	431485
10358621005	**1608TOWERMW21**	EPA 3020	429937	EPA 6020B	431485
10358621006	**1608TOWERMW21M**	EPA 3020	429937	EPA 6020B	431485
10358621007	**1608TOWERMW21D**	EPA 3020	429937	EPA 6020B	431485
10358621011	**1608TOWEREQB**	EPA 3020	429937	EPA 6020B	431485
10358621004	**1608TOWERMW16E**	EPA 7470A	432384	EPA 7470A	432584
10358621005	**1608TOWERMW21**	EPA 7470A	432384	EPA 7470A	432584
10358621006	**1608TOWERMW21M**	EPA 7470A	432384	EPA 7470A	432584
10358621007	**1608TOWERMW21D**	EPA 7470A	432384	EPA 7470A	432584
10358621011	**1608TOWEREQB**	EPA 7470A	430004	EPA 7470A	430622
10358621009	**1608TOWERIDWSS**	ASTM D2974	430659		
10358621008	**1608TOWERTB1**	EPA 5035/5030B	430540	EPA 8260B	430866
10358621009	**1608TOWERIDWSS**	EPA 5035/5030B	430540	EPA 8260B	430866
10358621001	**1608TOWERMW16**	EPA 8260B	430040		
10358621002	**1608TOWERMW16D**	EPA 8260B	430040		
10358621003	**1608TOWERMW18D**	EPA 8260B	430040		
10358621004	**1608TOWERMW16E**	EPA 8260B	430041		
10358621005	**1608TOWERMW21**	EPA 8260B	430041		
10358621006	**1608TOWERMW21M**	EPA 8260B	430041		
10358621007	**1608TOWERMW21D**	EPA 8260B	430893		
10358621010	**1608TOWERTB2**	EPA 8260B	430041		
10358621011	**1608TOWEREQB**	EPA 8260B	430893		
10358621004	**1608TOWERMW16E**	SM 2510B	430853		
10358621005	**1608TOWERMW21**	SM 2510B	430853		
10358621006	**1608TOWERMW21M**	SM 2510B	430853		
10358621007	**1608TOWERMW21D**	SM 2510B	430853		
10358621011	**1608TOWEREQB**	SM 2510B	430853		
10358621004	**1608TOWERMW16E**	SM 4500-H+B	430697		
10358621005	**1608TOWERMW21**	SM 4500-H+B	430697		
10358621006	**1608TOWERMW21M**	SM 4500-H+B	430697		
10358621007	**1608TOWERMW21D**	SM 4500-H+B	430697		
10358621011	**1608TOWEREQB**	SM 4500-H+B	430697		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BERS#34170026; EPA TO 3012 Tow
Pace Project No.: 10358621

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10358621004	**1608TOWERMW16E**	SM 4500-S2-D	430800		
10358621005	**1608TOWERMW21**	SM 4500-S2-D	430800		
10358621006	**1608TOWERMW21M**	SM 4500-S2-D	430800		
10358621007	**1608TOWERMW21D**	SM 4500-S2-D	430800		
10358621011	**1608TOWEREQB**	SM 4500-S2-D	430800		
10358621004	**1608TOWERMW16E**	SM 4500-S H	430947		
10358621005	**1608TOWERMW21**	SM 4500-S H	430947		
10358621006	**1608TOWERMW21M**	SM 4500-S H	430947		
10358621007	**1608TOWERMW21D**	SM 4500-S H	430947		
10358621011	**1608TOWEREQB**	SM 4500-S H	430947		
10358621004	**1608TOWERMW16E**	SM 4500-NO3 H	431923		
10358621005	**1608TOWERMW21**	SM 4500-NO3 H	431923		
10358621006	**1608TOWERMW21M**	SM 4500-NO3 H	431923		
10358621007	**1608TOWERMW21D**	SM 4500-NO3 H	431923		
10358621011	**1608TOWEREQB**	SM 4500-NO3 H	431923		
10358621004	**1608TOWERMW16E**	ASTM D516	430263		
10358621005	**1608TOWERMW21**	ASTM D516	430263		
10358621006	**1608TOWERMW21M**	ASTM D516	430263		
10358621007	**1608TOWERMW21D**	ASTM D516	430263		
10358621011	**1608TOWEREQB**	ASTM D516	430263		
10358621004	**1608TOWERMW16E**	SM 4500-NO2 B	430036		
10358621005	**1608TOWERMW21**	SM 4500-NO2 B	430036		
10358621006	**1608TOWERMW21M**	SM 4500-NO2 B	430036		
10358621007	**1608TOWERMW21D**	SM 4500-NO2 B	430036		
10358621011	**1608TOWEREQB**	SM 4500-NO2 B	430036		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10858621

Page: 1 of 1

Section A Required Client Information:

Company:	Bristol Environmental Remediation Svc
Address:	111 W 16th Ave. Third Floor
	Anchorage, AK 99501
Email To:	Matt Faust
Phone: 907-743-9346	Fax:
Requested Due Date/TAT:	10 business days

Section B Required Project Information:

Report To:	Matt Faust
Copy To:	Robert Beckman
Purchase Order No.:	
Project Name:	Tower Standard LUST Site
Project Number:	BERS# 34170026; EPA TO 3012

Section C Invoice Information:

Attention:	Matt Faust
Company Name:	Bristol Environmental Remediation
Address:	See client info
Pace Quote Reference:	
Pace Project Manager:	Shawn Davis
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☑ UST ☐ RCRA ☐ OTHER

Site Location STATE: WI

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	SW8260 VOCs	SW8011 EDB	SW6020 RCRA 8, Mn, Fe	WI DRO	WI GRO	H2S SM4500-S2D	Sulfate, Nitrate EPA 300.0	BTEX 8260	Pb lead	% moisture			Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	1608TOWER MW16	W	G	8/8/16	1055	←					9				X						X	X			Y									001
2	1608TOWER MW16D	↓	↓		1300	←					↓				X						X	X			X									002
3	1608TOWER MW18A			↓	1330	←					↓				X						X	X		↓	X									003
4	1608TOWER MW16E			8/9/16	0900	←					13	X	X	X	X	X					X	X	X	X	X	X	X							004
5	1608TOWER MW21				1120	←					↓	X	X	X	X	X					X	X	X		X	X	X							005
6	1608TOWER MW21M				1300	←					↓	X	X	X	X	X					X	X	X		X	X	X							006
7	1608TOWER MW21D	↓	↓	↓	1450	←					28	X	X	X	X	X					X	X	X		X	X	X							MS/MSD 007
8	1608TOWER EOB	↓		8/9/16	0930	←					12	X	X	X	X	X					X	X	X		X	X	X							~~008~~ 011
9	1608TOWER TB1	G	S	8/5/16	0800	←					2							X										X						~~009~~ 008
10	1608TOWER IDW SS	G	↓	↓	1430	←					4	X						X										Y	X	X				009
11	1608TOWER TB2	W	G	8/8/16	0800	←					6			X	X						X	X			X									010
12																																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
Report analytical results to the MDL	[signature]	8/10/16	1000	Shawn Davis / Pace	8/10/16	1223	4.5 / 8.3	Y	N	Y
Hold GRO Analysis ~~Results~~ pending PM approval.									

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Robert Beckman

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 8/10/16

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

Pace Analytical®	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 04Apr2016 Page 1 of 1
	Document No.: **F-MN-L-213-rev.16**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Bristol Environmental Remediation

Project #: **WO# : 10358621**

10358621

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ SpeeDee ☐ Other:_____

Tracking Number:

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other:_____ **Temp Blank?** ☑ Yes ☐ No

Thermometer Used: ☐ 151401163 ☐ 151401164 ☐ B88A912167504 ☐ B88A0143310098 **Type of Ice:** ☑ Wet ☐ Blue ☐ None ☑ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 4.5/8.5 **Cooler Temp Corrected (°C):** 4.5/8.5 **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6°C **Correction Factor:** +0.0 **Date and Initials of Person Examining Contents:** GS 8/10/16

USDA Regulated Soil (☑ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☑ Yes	☐ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT/SL	☑ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked?	☑ Yes	☐ No	☐ N/A	13. ☑ HNO_3 ☑ H_2SO_4 ☐ NaOH ☐ HCl
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☑ Yes	☐ No	☐ N/A	Sample # 1/1 1/1 4-8
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	☑ Yes	☐ No	☐ N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☑ No	☐ N/A	14.
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	15.
Trip Blank Custody Seals Present? 052316-3/	☑ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if purchased): 062016-3BZA				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Matt Faust (email) Date/Time: 8/11/16

Comments/Resolution:

temperature of one of two coolers received above temp

Project Manager Review: Shannon Davis **Date:** 8/11/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Pace Container Order #157449

Addresses

Order By :		Ship To :		Return To:	
Company	Bristol Environmental Remediation	Company	Quality Inn - Guest Bobby Beckman	Company	Pace Analytical Minnesota
Contact	Faust, Matt	Contact	Beckman, Bobby	Contact	Davis, Shawn
Email	mfaust@bristol-companies.com	Email	mfaust@bristol-companies.com	Email	shawn.davis@pacelabs.com
Address	111 W. 16th Avenue	Address	111 W. 16th Avenue	Address	1700 Elm Street
Address 2		Address 2	8729 US-51	Address 2	Suite 200
City	Anchorage	City	Minocqua	City	Minneapolis
State	AK Zip 99501	State	WI Zip 54548	State	MN Zip 55414
Phone	(907)743-9346	Phone	(907) 743-9346	Phone	612-607-6378

Info

Project Name	Tower, WI	**Due Date**	08/03/2016	**Profile**	35445	**Quote**	
Project Manager	Davis, Shawn	**Return**		**Carrier**	Spee-Dee	**Location**	WI

Trip Blanks

- [X] Include Trip Blanks

Bottle Labels

- [ ] Blank
- [X] Pre-Printed No Sample IDs
- [ ] Pre-Printed With Sample IDs

Bottles

- [ ] Boxed Cases
- [X] Individually Wrapped
- [ ] Grouped By Sample

Return Shipping Labels

- [ ] No Shipper Number
- [ ] With Shipper Number

Misc

- [ ] Sampling Instructions
- [X] Custody Seal
- [X] Temp. Blanks
- [X] Coolers
- [ ] Syringes
- [ ] Extra Bubble Wrap
- [X] Short Hold/Rush Stickers
- [ ] DI Water Liter(s)
- [ ] USDA Regulated Soils

COC Options

- [ ] Number of Blanks
- [X] Pre-Printed 1

# of Samples	Matrix	Test	Container	Total	# of QC	Lot #	Notes
8	WT	VOC by 8260	(3) 40 mL clear glass vials, HCL	30	6	062016-3BZA	
8	WT	EDB 8011	(3) 40 mL clear glass vials, HCL	30	6	062016-3BZA	
8	WT	GRO by WIGRO	None	30	6	062716-3BZA	
8	WT	Sulfate/Nitrate	250mL plastic unpres	8	0	032116-2ALL	
8	WT	Nitrate + Nitrite	None	8	0	051616-4CFX	
8	WT	Metals by 6020	None	8	0	071116-2AFW	
8	WT	DRO by WIDRO	2-1L ambers w/HCL	16	0	071116-1JG	
8	WT	Sulfide by SM4500-S2-D	None	8	0	110215-2BYU	H2S Calculation
1	SL	BTEX by 8260	2 MEOH Vials	2	0	052316-3	
1	SL	6010 - Pb	4oz clear straight side soil jars	1	0	050216-1KM	
1	SL	Moisture/ Dry weight	2oz plastic dry weight bottle	1	0	051616-5	

Hazard Shipping Placard In Place : NO

*Sample receiving hours are Mon-Fri 7:30am-7:00pm and S... ...cial arrangements are made with your project manager.

Return w/ Samples

*Pace Analytical reserves the right to return hazardous, ...u.

*Pace Analytical reserves the right to charge for unused ... ...ol as cost associated with sample storage and disposal.

*Payment term are net 30 days.

*Please include the proposal number on the chain of custody to insure proper billing.

Sample Notes

Send 3 sets of water trip blanks, 1 solid trip blank.

Ship Date : 7-29-16

Prepared By: KG

Verified By:

Intra-Regional Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 10358621 **Workorder Name:** BERS#34170026; EPA TO 3012 Tow **Owner Received Date:** 8/10/2016 **Due Date:** 8/24/2016

Received at:	Send To Lab:
Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone (612)607-1700	Pace Analytical Billings MT 150 N Ninth Street Billings, MT 59101 Phone (406)254-7226

Report To:
Shawn Davis

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Other						Requested Analysis: SM4500-S2-D	SM4500-S H											LAB USE ONLY
1	1608TOWERMW16E	PS	8/9/2016 09:00	10358621004	Water	1						X	X											
2	1608TOWERMW21	PS	8/9/2016 11:20	10358621005	Water	1						X	X											
3	1608TOWERMW21M	PS	8/9/2016 13:00	10358621006	Water	1						X	X											
4	1608TOWERMW21D	RQS	8/9/2016 14:50	10358621007	Water	1						X	X											
5	1608TOWEREQB	PS	8/9/2016 09:30	10358621011	Water	1						X	X											

Transfers	Released By	Date/Time	Received By	Date/Time
1	Shawn Davis/Pace MN Fed Ex	8-11-16 1300	[illegible]	
2			[illegible] Pace	8/12/16 0918
3				
4				

Comments

Cooler Temperature on Receipt 0.8 °C | Custody Seal Y or N | Received on Ice Y or N | Samples Intact Y or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 04Aug2016 Page 1 of 1
	Document No.: **F-MT-C-184-Rev.10**	Issuing Authority: Pace Montana Quality Office

Sample Condition Upon Receipt

Client Name: Pace MN

Project #: 10358621

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 6751 5818 9169

Custody Seal on Cooler/Box Present? ☒ Yes ☐ No **Seals Intact?** ☒ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other: **Temp Blank?** ☒ Yes ☐ No

Thermometer Used: ☒ 160285052 ☐ 140279186 **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun ☐ NA

Cooler Temp Read: 1.3 **Date and Initials of Person Examining Contents:** 8/12 NH

Cooler Temp Corrected: 0.8 **Biological Tissue Frozen?** ☐ Yes ☒ No

Temp should be above freezing to 6°C

				Comments:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☒ Yes	☐ No	☐ N/A	3.
Sampler Name and Signature on COC?	☐ Yes	☐ No	☒ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	7.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact? 8/12 NH	☒ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☒ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked?	☒ Yes	☐ No	☐ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☒ NaOH ☐ HCl Sample # 004-007, 011 +ZnAc
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☒ Yes	☐ No	☐ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐ Yes	☒ No		Initial when completed: NH Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☒ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if purchased): NA				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Shannon Davis **Date:** 8/12/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Intra-Regional Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 10358621 **Workorder Name:** BERS#34170026; EPA TO 3012 Tow **Owner Received Date:** 8/10/2016 **Due Date:** 8/24/2016

Received at:
Pace Analytical Minnesota
1700 Elm Street
Suite 200
Minneapolis, MN 55414
Phone (612)607-1700

Send To Lab:
Pace Analytical Billings MT
150 N Ninth Street
Billings, MT 59101
Phone (406)254-7226

Report To:
Shawn Davis

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Other	Preserved Containers: Unpreserved	SM 4500-H+B	SM 4500 S2-D	SM 4500-S11	SM 2510B	LAB USE ONLY
1	1608TOWERMW16E	PS	8/9/2016 09:00	10358621004	Water	1		X	X	X	X	
2	1608TOWERMW21	PS	8/9/2016 11:20	10358621005	Water	1		X	X	X	X	
3	1608TOWERMW21M	PS	8/9/2016 13:00	10358621006	Water	1		X	X	X	X	
4	1608TOWERMW21D	RQS	8/9/2016 14:50	10358621007	Water	1		X	X	X	X	
5	1608TOWEREQB	PS	8/9/2016 09:30	10358621011	Water	1		X	X	X	X	

Transfers	Released By	Date/Time	Received By	Date/Time
1	Shawn Davis/Pace mpls	8-12-16 1217		
2	Fed Ex		N Wilson/Pace	8/13/16 1030
3				
4				

Comments
Sulfide + H2S bottle sent 8/11

Cooler Temperature on Receipt 1.3 °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
This chain of custody is considered complete as is since this information is available in the owner laboratory.

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 04Aug2016 Page 1 of 1
	Document No.: **F-MT-C-184-Rev.10**	Issuing Authority: Pace Montana Quality Office

Sample Condition Upon Receipt

Client Name: Pace MN

Project #: 10358621

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 6751 5818 9445

Custody Seal on Cooler/Box Present? ☒ Yes ☐ No **Seals Intact?** ☒ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other: **Temp Blank?** ☒ Yes ☐ No

Thermometer Used: ☒ 160285052 ☐ 140279186 **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun ☐ NA

Cooler Temp Read: 1.8 **Date and Initials of Person Examining Contents:** 8/13 MH

Cooler Temp Corrected: 1.3 **Biological Tissue Frozen?** ☐ Yes ☒ No

Temp should be above freezing to 6°C

				Comments:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☒ Yes	☐ No	☐ N/A	3.
Sampler Name and Signature on COC?	☐ Yes	☐ No	☒ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	7.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☒ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☒ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☒ N/A	NA
Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water)	☐ Yes	☒ No		Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☒ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if purchased): NA				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Shannon Davis **Date:** 8/15/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)