Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

January 10, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-183RRR
Pace Project No.: 60160605

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 03, 2014. 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,

Mary Jane Walls for
Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

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CERTIFICATIONS

Project: BRIDGETON LF 316-183RRR
Pace Project No.: 60160605

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-183RRR
Pace Project No.: 60160605

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60160605001	**316-183RRR**	Water	01/01/14 14:00	01/03/14 01:55
60160605002	**TRIP BLANK**	Water	01/01/14 14:00	01/03/14 01:55

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-183RRR
Pace Project No.: 60160605

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60160605001	**316-183RRR**	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	16
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC	1
		SM 4500-H+B	DJR	1
		SM 5210B	JML	1
		EPA 350.1	NDL	1
		EPA 410.4	NDL	1
60160605002	**TRIP BLANK**	EPA 624 Low	EAK	28

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-183RRR
Pace Project No.: 60160605

Sample: 316-183RRR **Lab ID: 60160605001** Collected: 01/01/14 14:00 Received: 01/03/14 01:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	**6360**	ug/L	375	1	01/06/14 11:20	01/07/14 11:25	7429-90-5	
Antimony	ND	ug/L	100	2	01/06/14 11:20	01/07/14 11:27	7440-36-0	
Arsenic	**999**	ug/L	50.0	1	01/06/14 11:20	01/07/14 11:25	7440-38-2	
Beryllium	ND	ug/L	5.0	1	01/06/14 11:20	01/07/14 11:25	7440-41-7	
Cadmium	ND	ug/L	25.0	1	01/06/14 11:20	01/07/14 11:25	7440-43-9	
Chromium	**278**	ug/L	25.0	1	01/06/14 11:20	01/07/14 11:25	7440-47-3	
Cobalt	**25.7**	ug/L	25.0	1	01/06/14 11:20	01/07/14 11:25	7440-48-4	
Copper	ND	ug/L	50.0	1	01/06/14 11:20	01/07/14 11:25	7440-50-8	
Iron	**960000**	ug/L	250	1	01/06/14 11:20	01/07/14 11:25	7439-89-6	M1
Lead	**147**	ug/L	25.0	1	01/06/14 11:20	01/07/14 11:25	7439-92-1	
Nickel	**114**	ug/L	25.0	1	01/06/14 11:20	01/07/14 11:25	7440-02-0	
Selenium	ND	ug/L	75.0	1	01/06/14 11:20	01/07/14 11:25	7782-49-2	
Silver	ND	ug/L	35.0	1	01/06/14 11:20	01/07/14 11:25	7440-22-4	
Thallium	ND	ug/L	100	1	01/06/14 11:20	01/07/14 11:25	7440-28-0	
Zinc	**10700**	ug/L	500	2	01/06/14 11:20	01/07/14 11:27	7440-66-6	
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	**3800**	ug/L	375	1	01/06/14 11:20	01/07/14 12:27	7429-90-5	
Antimony, Dissolved	ND	ug/L	50.0	1	01/06/14 11:20	01/07/14 12:27	7440-36-0	D9
Arsenic, Dissolved	**810**	ug/L	50.0	1	01/06/14 11:20	01/07/14 12:27	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	01/06/14 11:20	01/07/14 12:27	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	01/06/14 11:20	01/07/14 12:27	7440-43-9	
Chromium, Dissolved	**217**	ug/L	25.0	1	01/06/14 11:20	01/07/14 12:27	7440-47-3	
Cobalt, Dissolved	ND	ug/L	25.0	1	01/06/14 11:20	01/07/14 12:27	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	01/06/14 11:20	01/07/14 12:27	7440-50-8	
Iron, Dissolved	**674000**	ug/L	250	1	01/06/14 11:20	01/07/14 12:27	7439-89-6	M1
Lead, Dissolved	**99.0**	ug/L	25.0	1	01/06/14 11:20	01/07/14 12:27	7439-92-1	
Nickel, Dissolved	**96.4**	ug/L	25.0	1	01/06/14 11:20	01/07/14 12:27	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	01/06/14 11:20	01/07/14 12:27	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	01/06/14 11:20	01/07/14 12:27	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	01/06/14 11:20	01/07/14 12:27	7440-28-0	
Zinc, Dissolved	**9150**	ug/L	500	2	01/06/14 11:20	01/07/14 12:29	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	6.0	1	01/07/14 12:00	01/08/14 09:46	7439-97-6	
245.1 Mercury, Dissolved (LF)	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	6.0	1	01/07/14 12:00	01/08/14 10:19	7439-97-6	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	01/03/14 00:00	01/06/14 12:27	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	01/03/14 00:00	01/06/14 12:27	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	01/03/14 00:00	01/06/14 12:27	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	01/03/14 00:00	01/06/14 12:27	67-72-1	
Naphthalene	**2310**	ug/L	1000	2	01/03/14 00:00	01/06/14 12:27	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	01/03/14 00:00	01/06/14 12:27	98-95-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-183RRR
Pace Project No.: 60160605

Sample: 316-183RRR **Lab ID: 60160605001** Collected: 01/01/14 14:00 Received: 01/03/14 01:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Pentachlorophenol	ND	ug/L	1000	2	01/03/14 00:00	01/06/14 12:27	87-86-5	
Phenol	**11500**	ug/L	1000	2	01/03/14 00:00	01/06/14 12:27	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	1000	2	01/03/14 00:00	01/06/14 12:27	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	1000	2	01/03/14 00:00	01/06/14 12:27	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	151	%	33-120	2	01/03/14 00:00	01/06/14 12:27	4165-60-0	S0
2-Fluorobiphenyl (S)	91	%	39-120	2	01/03/14 00:00	01/06/14 12:27	321-60-8	
Terphenyl-d14 (S)	92	%	45-120	2	01/03/14 00:00	01/06/14 12:27	1718-51-0	
Phenol-d6 (S)	49	%	11-120	2	01/03/14 00:00	01/06/14 12:27	13127-88-3	
2-Fluorophenol (S)	48	%	17-120	2	01/03/14 00:00	01/06/14 12:27	367-12-4	
2,4,6-Tribromophenol (S)	97	%	39-120	2	01/03/14 00:00	01/06/14 12:27	118-79-6	
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	**190000**	ug/L	2000	200		01/03/14 15:09	67-64-1	N2
Benzene	ND	ug/L	200	200		01/03/14 15:09	71-43-2	
Bromodichloromethane	ND	ug/L	200	200		01/03/14 15:09	75-27-4	
Bromoform	ND	ug/L	200	200		01/03/14 15:09	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/03/14 15:09	74-83-9	
2-Butanone (MEK)	**114000**	ug/L	2000	200		01/03/14 15:09	78-93-3	N2
Carbon tetrachloride	ND	ug/L	200	200		01/03/14 15:09	56-23-5	
Chloroethane	ND	ug/L	200	200		01/03/14 15:09	75-00-3	
Chloroform	ND	ug/L	200	200		01/03/14 15:09	67-66-3	
1,4-Dichlorobenzene	**2070**	ug/L	200	200		01/03/14 15:09	106-46-7	
1,2-Dichloroethane	ND	ug/L	200	200		01/03/14 15:09	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/03/14 15:09	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/03/14 15:09	156-60-5	
Ethylbenzene	**303**	ug/L	200	200		01/03/14 15:09	100-41-4	
Methylene chloride	ND	ug/L	200	200		01/03/14 15:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	**4070**	ug/L	2000	200		01/03/14 15:09	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		01/03/14 15:09	79-34-5	N2
Tetrachloroethene	ND	ug/L	200	200		01/03/14 15:09	127-18-4	
Toluene	ND	ug/L	200	200		01/03/14 15:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/03/14 15:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		01/03/14 15:09	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/03/14 15:09	79-01-6	
Vinyl chloride	ND	ug/L	200	200		01/03/14 15:09	75-01-4	
Xylene (Total)	**1240**	ug/L	600	200		01/03/14 15:09	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	104	%	80-120	200		01/03/14 15:09	460-00-4	
Toluene-d8 (S)	97	%	80-120	200		01/03/14 15:09	2037-26-5	
1,2-Dichloroethane-d4 (S)	95	%	80-120	200		01/03/14 15:09	17060-07-0	
Preservation pH	**6.0**		1.0	200		01/03/14 15:09		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	**1210**	mg/L	5.0	1		01/07/14 15:56		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-183RRR
Pace Project No.: 60160605

Sample: 316-183RRR **Lab ID: 60160605001** Collected: 01/01/14 14:00 Received: 01/03/14 01:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	**10.7**	mg/L	5.0	1		01/07/14 15:53		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**1600**	mg/L	5.0	1		01/07/14 12:58		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**5.5**	Std. Units	0.10	1		01/03/14 15:00		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**37600**	mg/L	2.0	1	01/03/14 11:16	01/08/14 11:06		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**914**	mg/L	50.0	500		01/08/14 11:26	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**91700**	mg/L	10000	1000		01/07/14 11:59		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-183RRR
Pace Project No.: 60160605

Sample: TRIP BLANK **Lab ID: 60160605002** Collected: 01/01/14 14:00 Received: 01/03/14 01:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	ND	ug/L	10.0	1		01/03/14 15:25	67-64-1	N2
Benzene	ND	ug/L	1.0	1		01/03/14 15:25	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		01/03/14 15:25	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/03/14 15:25	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/03/14 15:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/03/14 15:25	78-93-3	N2
Carbon tetrachloride	ND	ug/L	1.0	1		01/03/14 15:25	56-23-5	
Chloroethane	ND	ug/L	1.0	1		01/03/14 15:25	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/03/14 15:25	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/03/14 15:25	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/03/14 15:25	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/14 15:25	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/14 15:25	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/03/14 15:25	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		01/03/14 15:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/03/14 15:25	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/03/14 15:25	79-34-5	N2
Tetrachloroethene	ND	ug/L	1.0	1		01/03/14 15:25	127-18-4	
Toluene	ND	ug/L	1.0	1		01/03/14 15:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/03/14 15:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/03/14 15:25	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/03/14 15:25	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/03/14 15:25	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/03/14 15:25	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	97	%	80-120	1		01/03/14 15:25	460-00-4	
Toluene-d8 (S)	95	%	80-120	1		01/03/14 15:25	2037-26-5	
1,2-Dichloroethane-d4 (S)	97	%	80-120	1		01/03/14 15:25	17060-07-0	
Preservation pH	**6.0**		1.0	1		01/03/14 15:25		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-183RRR
Pace Project No.: 60160605

QC Batch: MERP/8053
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Associated Lab Samples: 60160605001

METHOD BLANK: 1314584
Matrix: Water
Associated Lab Samples: 60160605001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/08/14 09:41	

LABORATORY CONTROL SAMPLE: 1314585

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.4	87	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314586 1314587

Parameter	Units	60160691001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	150	150	130	137	86	90	70-130	5	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-183RRR
Pace Project No.: 60160605

QC Batch: MERP/8054
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60160605001

METHOD BLANK: 1314625
Matrix: Water
Associated Lab Samples: 60160605001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	01/08/14 10:15	

LABORATORY CONTROL SAMPLE: 1314626

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314627 1314628

Parameter	Units	60160656001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	133	129	89	86	70-130	3	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-183RRR
Pace Project No.: 60160605

QC Batch: MPRP/25806
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60160605001

METHOD BLANK: 1314437
Matrix: Water
Associated Lab Samples: 60160605001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	01/07/14 11:20	
Antimony	ug/L	ND	10.0	01/07/14 11:20	
Arsenic	ug/L	ND	10.0	01/07/14 11:20	
Beryllium	ug/L	ND	1.0	01/07/14 11:20	
Cadmium	ug/L	ND	5.0	01/07/14 11:20	
Chromium	ug/L	ND	5.0	01/07/14 11:20	
Cobalt	ug/L	ND	5.0	01/07/14 11:20	
Copper	ug/L	ND	10.0	01/07/14 11:20	
Iron	ug/L	ND	50.0	01/07/14 11:20	
Lead	ug/L	ND	5.0	01/07/14 11:20	
Nickel	ug/L	ND	5.0	01/07/14 11:20	
Selenium	ug/L	ND	15.0	01/07/14 11:20	
Silver	ug/L	ND	7.0	01/07/14 11:20	
Thallium	ug/L	ND	20.0	01/07/14 11:20	
Zinc	ug/L	ND	50.0	01/07/14 11:20	

LABORATORY CONTROL SAMPLE: 1314438

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9960	100	85-115	
Antimony	ug/L	1000	1030	103	85-115	
Arsenic	ug/L	1000	971	97	85-115	
Beryllium	ug/L	1000	1010	101	85-115	
Cadmium	ug/L	1000	1010	101	85-115	
Chromium	ug/L	1000	975	98	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	989	99	85-115	
Iron	ug/L	10000	9870	99	85-115	
Lead	ug/L	1000	1030	103	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1010	101	85-115	
Silver	ug/L	500	492	98	85-115	
Thallium	ug/L	1000	1050	105	85-115	
Zinc	ug/L	1000	974	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314439 1314440

Parameter	Units	60160605001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	6360	50000	50000	59300	59600	106	107	70-130	1	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-183RRR
Pace Project No.: 60160605

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314439 1314440

Parameter	Units	60160605001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	5000	5000	5280	5340	104	105	70-130	1	7	
Arsenic	ug/L	999	5000	5000	6460	6500	109	110	70-130	1	10	
Beryllium	ug/L	ND	5000	5000	4920	4920	98	98	70-130	0	7	
Cadmium	ug/L	ND	5000	5000	5200	5230	104	105	70-130	1	10	
Chromium	ug/L	278	5000	5000	5020	5030	95	95	70-130	0	10	
Cobalt	ug/L	25.7	5000	5000	4840	4860	96	97	70-130	0	6	
Copper	ug/L	ND	5000	5000	5120	5100	102	101	70-130	0	11	
Iron	ug/L	960000	50000	50000	986000	982000	52	44	70-130	0	10	M1
Lead	ug/L	147	5000	5000	4680	4680	91	91	70-130	0	10	
Nickel	ug/L	114	5000	5000	4900	4900	96	96	70-130	0	10	
Selenium	ug/L	ND	5000	5000	5920	5940	118	119	70-130	0	10	
Silver	ug/L	ND	2500	2500	2590	2600	104	104	70-130	0	10	
Thallium	ug/L	ND	5000	5000	4120	4130	82	83	70-130	0	6	
Zinc	ug/L	10700	5000	5000	14900	15100	84	88	70-130	1	11	

MATRIX SPIKE SAMPLE: 1314441

Parameter	Units	60160577001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	1.4 mg/L	10000	11800	103	70-130	
Antimony	ug/L	0.010 mg/L	1000	1060	105	70-130	
Arsenic	ug/L	0.021 mg/L	1000	1040	102	70-130	
Beryllium	ug/L	ND	1000	1040	104	70-130	
Cadmium	ug/L	ND	1000	1020	102	70-130	
Chromium	ug/L	0.079 mg/L	1000	1050	97	70-130	
Cobalt	ug/L	ND	1000	998	100	70-130	
Copper	ug/L	ND	1000	1020	101	70-130	
Iron	ug/L	5.2 mg/L	10000	14700	96	70-130	
Lead	ug/L	ND	1000	951	95	70-130	
Nickel	ug/L	0.068 mg/L	1000	1040	97	70-130	
Selenium	ug/L	ND	1000	430	43	70-130	M1
Silver	ug/L	ND	500	523	105	70-130	
Thallium	ug/L	ND	1000	846	85	70-130	
Zinc	ug/L	1.0 mg/L	1000	1940	94	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-183RRR
Pace Project No.: 60160605

QC Batch: MPRP/25802
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60160605001

METHOD BLANK: 1314389
Matrix: Water
Associated Lab Samples: 60160605001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	01/07/14 12:24	
Antimony, Dissolved	ug/L	ND	10.0	01/07/14 12:24	
Arsenic, Dissolved	ug/L	ND	10.0	01/07/14 12:24	
Beryllium, Dissolved	ug/L	ND	1.0	01/07/14 12:24	
Cadmium, Dissolved	ug/L	ND	5.0	01/07/14 12:24	
Chromium, Dissolved	ug/L	ND	5.0	01/07/14 12:24	
Cobalt, Dissolved	ug/L	ND	5.0	01/07/14 12:24	
Copper, Dissolved	ug/L	ND	10.0	01/07/14 12:24	
Iron, Dissolved	ug/L	123	50.0	01/07/14 12:24	
Lead, Dissolved	ug/L	ND	5.0	01/07/14 12:24	
Nickel, Dissolved	ug/L	ND	5.0	01/07/14 12:24	
Selenium, Dissolved	ug/L	ND	15.0	01/07/14 12:24	
Silver, Dissolved	ug/L	ND	7.0	01/07/14 12:24	
Thallium, Dissolved	ug/L	ND	20.0	01/07/14 12:24	
Zinc, Dissolved	ug/L	ND	50.0	01/07/14 12:24	

LABORATORY CONTROL SAMPLE: 1314390

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10100	101	85-115	
Antimony, Dissolved	ug/L	1000	1040	104	85-115	
Arsenic, Dissolved	ug/L	1000	969	97	85-115	
Beryllium, Dissolved	ug/L	1000	1020	102	85-115	
Cadmium, Dissolved	ug/L	1000	1010	101	85-115	
Chromium, Dissolved	ug/L	1000	982	98	85-115	
Cobalt, Dissolved	ug/L	1000	1040	104	85-115	
Copper, Dissolved	ug/L	1000	994	99	85-115	
Iron, Dissolved	ug/L	10000	9730	97	85-115	
Lead, Dissolved	ug/L	1000	1040	104	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1020	102	85-115	
Silver, Dissolved	ug/L	500	498	100	85-115	
Thallium, Dissolved	ug/L	1000	1050	105	85-115	
Zinc, Dissolved	ug/L	1000	978	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314391 1314392

Parameter	Units	60160605001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	3800	50000	50000	55600	55700	104	104	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-183RRR
Pace Project No.: 60160605

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314391 1314392

Parameter	Units	60160605001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	5000	5000	5320	5310	105	105	70-130	0	7	
Arsenic, Dissolved	ug/L	810	5000	5000	6100	6150	106	107	70-130	1	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	5030	4990	101	100	70-130	1	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5180	5190	104	104	70-130	0	10	
Chromium, Dissolved	ug/L	217	5000	5000	4990	5000	96	96	70-130	0	10	
Cobalt, Dissolved	ug/L	ND	5000	5000	4980	4920	99	98	70-130	1	6	
Copper, Dissolved	ug/L	ND	5000	5000	5140	5140	102	102	70-130	0	11	
Iron, Dissolved	ug/L	674000	50000	50000	680000	702000	12	56	70-130	3	10	M1
Lead, Dissolved	ug/L	99.0	5000	5000	4740	4690	93	92	70-130	1	10	
Nickel, Dissolved	ug/L	96.4	5000	5000	4930	4910	97	96	70-130	0	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5830	5810	116	116	70-130	0	10	
Silver, Dissolved	ug/L	ND	2500	2500	2620	2610	105	105	70-130	0	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4200	4200	84	84	70-130	0	6	
Zinc, Dissolved	ug/L	9150	5000	5000	13200	13300	81	83	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-183RRR
Pace Project No.: 60160605

QC Batch: MSV/58705 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60160605001, 60160605002

METHOD BLANK: 1314007 | Matrix: Water
Associated Lab Samples: 60160605001, 60160605002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/03/14 14:09	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/03/14 14:09	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/03/14 14:09	
1,2-Dichloroethane	ug/L	ND	1.0	01/03/14 14:09	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/03/14 14:09	
Acetone	ug/L	ND	10.0	01/03/14 14:09	N2
Benzene	ug/L	ND	1.0	01/03/14 14:09	
Bromodichloromethane	ug/L	ND	1.0	01/03/14 14:09	
Bromoform	ug/L	ND	1.0	01/03/14 14:09	
Bromomethane	ug/L	ND	5.0	01/03/14 14:09	
Carbon tetrachloride	ug/L	ND	1.0	01/03/14 14:09	
Chloroethane	ug/L	ND	1.0	01/03/14 14:09	
Chloroform	ug/L	ND	1.0	01/03/14 14:09	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/03/14 14:09	N2
Ethylbenzene	ug/L	ND	1.0	01/03/14 14:09	
Methylene chloride	ug/L	ND	1.0	01/03/14 14:09	
Tetrachloroethene	ug/L	ND	1.0	01/03/14 14:09	
Toluene	ug/L	ND	1.0	01/03/14 14:09	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/03/14 14:09	
Trichloroethene	ug/L	ND	1.0	01/03/14 14:09	
Vinyl chloride	ug/L	ND	1.0	01/03/14 14:09	
Xylene (Total)	ug/L	ND	3.0	01/03/14 14:09	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	01/03/14 14:09	
4-Bromofluorobenzene (S)	%	97	80-120	01/03/14 14:09	
Toluene-d8 (S)	%	98	80-120	01/03/14 14:09	

LABORATORY CONTROL SAMPLE: 1314008

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.5	97	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	18.7	94	59-138	N2
1,1,2-Trichloroethane	ug/L	20	20.7	103	69-127	
1,2-Dichloroethane	ug/L	20	19.8	99	71-129	
1,4-Dichlorobenzene	ug/L	20	19.8	99	68-124	
Acetone	ug/L	100	85.7	86	40-160	N2
Benzene	ug/L	20	20.4	102	73-129	
Bromodichloromethane	ug/L	20	18.8	94	63-129	
Bromoform	ug/L	20	20.6	103	52-123	
Bromomethane	ug/L	20	20.0	100	10-160	
Carbon tetrachloride	ug/L	20	19.7	99	70-140	
Chloroethane	ug/L	20	19.1	96	42-160	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-183RRR
Pace Project No.: 60160605

LABORATORY CONTROL SAMPLE: 1314008

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroform	ug/L	20	20.2	101	60-120	
cis-1,2-Dichloroethene	ug/L	20	19.3	96	70-125	N2
Ethylbenzene	ug/L	20	18.0	90	66-133	
Methylene chloride	ug/L	20	19.6	98	56-135	
Tetrachloroethene	ug/L	20	18.4	92	64-143	
Toluene	ug/L	20	18.2	91	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.5	93	67-149	
Trichloroethene	ug/L	20	20.9	104	71-130	
Vinyl chloride	ug/L	20	17.7	88	41-160	
Xylene (Total)	ug/L	60	55.3	92	67-130	N2
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			95	80-120	

MATRIX SPIKE SAMPLE: 1314009

Parameter	Units	60160556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4100	102	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4150	104	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4510	113	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3900	97	49-155	
1,4-Dichlorobenzene	ug/L	1260	4000	5260	100	18-147	
Benzene	ug/L	ND	4000	4030	100	37-151	
Bromodichloromethane	ug/L	ND	4000	3740	93	35-155	
Bromoform	ug/L	ND	4000	3890	97	45-133	
Bromomethane	ug/L	ND	4000	4300	107	10-160	
Carbon tetrachloride	ug/L	ND	4000	4250	106	70-140	
Chloroethane	ug/L	ND	4000	4030	101	14-160	
Chloroform	ug/L	ND	4000	4020	101	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3890	97	19-160	N2
Ethylbenzene	ug/L	ND	4000	4040	97	37-154	
Methylene chloride	ug/L	ND	4000	4210	105	15-156	
Tetrachloroethene	ug/L	ND	4000	3870	97	64-148	
Toluene	ug/L	ND	4000	3910	96	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	3840	96	54-156	
Trichloroethene	ug/L	ND	4000	4130	103	71-157	
Vinyl chloride	ug/L	ND	4000	4080	102	10-160	
Xylene (Total)	ug/L	687	12000	12200	96	12-153	N2
1,2-Dichloroethane-d4 (S)	%				97	80-120	
4-Bromofluorobenzene (S)	%				102	80-120	
Toluene-d8 (S)	%				99	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-183RRR
Pace Project No.: 60160605

QC Batch: OEXT/42159 | Analysis Method: EPA 625
QC Batch Method: EPA 625 | Analysis Description: 625 MSS
Associated Lab Samples: 60160605001

METHOD BLANK: 1313952 | Matrix: Water
Associated Lab Samples: 60160605001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/06/14 11:25	
2,4,6-Trichlorophenol	ug/L	ND	5.0	01/06/14 11:25	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	01/06/14 11:25	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/06/14 11:25	
Hexachlorocyclopentadiene	ug/L	ND	5.0	01/06/14 11:25	
Hexachloroethane	ug/L	ND	5.0	01/06/14 11:25	
Naphthalene	ug/L	ND	5.0	01/06/14 11:25	
Nitrobenzene	ug/L	ND	5.0	01/06/14 11:25	
Pentachlorophenol	ug/L	ND	5.0	01/06/14 11:25	
Phenol	ug/L	ND	5.0	01/06/14 11:25	
2,4,6-Tribromophenol (S)	%	81	39-120	01/06/14 11:25	
2-Fluorobiphenyl (S)	%	83	39-120	01/06/14 11:25	
2-Fluorophenol (S)	%	46	17-120	01/06/14 11:25	
Nitrobenzene-d5 (S)	%	80	33-120	01/06/14 11:25	
Phenol-d6 (S)	%	31	11-120	01/06/14 11:25	
Terphenyl-d14 (S)	%	88	45-120	01/06/14 11:25	

LABORATORY CONTROL SAMPLE: 1313953

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	37.4	75	46-120	
2,4,6-Trichlorophenol	ug/L	50	39.6	79	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	41.7	83	40-133	
Hexachloro-1,3-butadiene	ug/L	50	38.4	77	44-116	
Hexachlorocyclopentadiene	ug/L	100	69.8	70	24-120	
Hexachloroethane	ug/L	50	37.2	74	43-113	
Naphthalene	ug/L	50	39.0	78	48-120	
Nitrobenzene	ug/L	50	39.0	78	48-120	
Pentachlorophenol	ug/L	50	42.7	85	47-120	
Phenol	ug/L	50	16.5	33	16-112	
2,4,6-Tribromophenol (S)	%			88	39-120	
2-Fluorobiphenyl (S)	%			85	39-120	
2-Fluorophenol (S)	%			44	17-120	
Nitrobenzene-d5 (S)	%			81	33-120	
Phenol-d6 (S)	%			30	11-120	
Terphenyl-d14 (S)	%			87	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-183RRR
Pace Project No.: 60160605

MATRIX SPIKE SAMPLE: 1313954

Parameter	Units	60160605001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	4550	91	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	5040	101	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4730J	95	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4610	92	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	9400	94	11-120	
Hexachloroethane	ug/L	ND	5000	4020	80	40-113	
Naphthalene	ug/L	2310	5000	7070	95	45-120	
Nitrobenzene	ug/L	ND	5000	4900	98	38-120	
Pentachlorophenol	ug/L	ND	5000	6220	124	43-135	
Phenol	ug/L	11500	5000	14900	69	13-112	
2,4,6-Tribromophenol (S)	%				108	39-120	
2-Fluorobiphenyl (S)	%				100	39-120	
2-Fluorophenol (S)	%				56	17-120	
Nitrobenzene-d5 (S)	%				171	33-120	S0
Phenol-d6 (S)	%				55	11-120	
Terphenyl-d14 (S)	%				100	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-183RRR
Pace Project No.: 60160605

QC Batch: WET/45510 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60160605001

METHOD BLANK: 1314747 | Matrix: Water
Associated Lab Samples: 60160605001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/07/14 15:55	

LABORATORY CONTROL SAMPLE: 1314748

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	40.0	100	78-114	

MATRIX SPIKE SAMPLE: 1314749

Parameter	Units	60160556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	1260	164	1300	24	78-114	M1

SAMPLE DUPLICATE: 1314750

Parameter	Units	60160556001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1260	1260	0	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-183RRR
Pace Project No.: 60160605

QC Batch: WET/45511
QC Batch Method: EPA 1664A
Analysis Method: EPA 1664A
Analysis Description: 1664 SGT-HEM, TPH
Associated Lab Samples: 60160605001

METHOD BLANK: 1314755
Matrix: Water
Associated Lab Samples: 60160605001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	01/07/14 15:52	

LABORATORY CONTROL SAMPLE: 1314756

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	20.1	100	64-132	

MATRIX SPIKE SAMPLE: 1314757

Parameter	Units	60160556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	10.2	82	29.1	23	64-132	M1

SAMPLE DUPLICATE: 1314758

Parameter	Units	60160556001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	10.2	10	2	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-183RRR
Pace Project No.: 60160605

QC Batch: WET/45504 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60160605001

METHOD BLANK: 1314665 | Matrix: Water
Associated Lab Samples: 60160605001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	01/07/14 12:52	

SAMPLE DUPLICATE: 1314666

Parameter	Units	60160546001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	54.0	56.0	4	25	

SAMPLE DUPLICATE: 1314667

Parameter	Units	60160562002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	388	410	6	25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-183RRR
Pace Project No.: 60160605

QC Batch: WET/45477
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 60160605001

SAMPLE DUPLICATE: 1314088

Parameter	Units	60159968004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.8	7.9	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-183RRR
Pace Project No.: 60160605

QC Batch: WET/45464 | Analysis Method: SM 5210B
QC Batch Method: SM 5210B | Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 60160605001

METHOD BLANK: 1313880 | Matrix: Water
Associated Lab Samples: 60160605001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	01/08/14 10:39	

LABORATORY CONTROL SAMPLE: 1313881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	190	96	85-115	

SAMPLE DUPLICATE: 1313882

Parameter	Units	60160601001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	73.6	69.8	5	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-183RRR
Pace Project No.: 60160605

QC Batch: WETA/27764
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60160605001

METHOD BLANK: 1314836
Matrix: Water
Associated Lab Samples: 60160605001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	01/08/14 11:22	

LABORATORY CONTROL SAMPLE: 1314837

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	106	90-110	

MATRIX SPIKE SAMPLE: 1314838

Parameter	Units	60160556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	768	1000	1980	121	90-110	M1

SAMPLE DUPLICATE: 1314839

Parameter	Units	60160608001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	855	885	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-183RRR
Pace Project No.: 60160605

QC Batch: WETA/27743 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 60160605001

METHOD BLANK: 1314484 | Matrix: Water
Associated Lab Samples: 60160605001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	01/07/14 11:55	

LABORATORY CONTROL SAMPLE: 1314485

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	47.7	95	90-110	

MATRIX SPIKE SAMPLE: 1314486

Parameter	Units	60160372001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	102000	50000	162000	120	90-110	M1

SAMPLE DUPLICATE: 1314487

Parameter	Units	60160608001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	80400	81000	1	25	

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QUALIFIERS

Project: BRIDGETON LF 316-183RRR
Pace Project No.: 60160605

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

ANALYTE QUALIFIERS

D9	Dissolved result is greater than the total. Data is within laboratory control limits.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-183RRR
Pace Project No.: 60160605

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60160605001	**316-183RRR**	EPA 200.7	MPRP/25806	EPA 200.7	ICP/19781
60160605001	**316-183RRR**	EPA 200.7	MPRP/25802	EPA 200.7	ICP/19783
60160605001	**316-183RRR**	EPA 245.1	MERP/8053	EPA 245.1	MERC/8009
60160605001	**316-183RRR**	EPA 245.1	MERP/8054	EPA 245.1	MERC/8010
60160605001	**316-183RRR**	EPA 625	OEXT/42159	EPA 625	MSSV/13412
60160605001	**316-183RRR**	EPA 624 Low	MSV/58705		
60160605002	**TRIP BLANK**	EPA 624 Low	MSV/58705		
60160605001	**316-183RRR**	EPA 1664A	WET/45510		
60160605001	**316-183RRR**	EPA 1664A	WET/45511		
60160605001	**316-183RRR**	SM 2540D	WET/45504		
60160605001	**316-183RRR**	SM 4500-H+B	WET/45477		
60160605001	**316-183RRR**	SM 5210B	WET/45464	SM 5210B	WET/45562
60160605001	**316-183RRR**	EPA 350.1	WETA/27764		
60160605001	**316-183RRR**	EPA 410.4	WETA/27743		

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Sample Condition Upon Receipt

WO#: 60160605

60160605

Optional
Proj Due Date:
Proj Name:

Client Name: Barr

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

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☑ None ☐ Other ☑ 2 P/C

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 4-6

Temperature should be above freezing to 6°C

Date and initials of person examining contents: PV 1/3/14

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 & signature on COC:	☑Yes ☐No ☐N/A	4.	
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.	
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6. BOD pH	
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.	
Sufficient volume:	☑Yes ☐No ☐N/A	8.	
Correct containers used:	☑Yes ☐No ☐N/A		
Pace containers used:	☑Yes ☐No ☐N/A	9.	
Containers intact:	☑Yes ☐No ☐N/A	10.	
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.	
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.	
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☑Yes ☐No ☐N/A	13.	
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	Added 2.5 mL of HNO3 to BP3N. pH 6 to 4.0	
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☑No ☐N/A	Added 2.0 mL of H2SO4 to BP3S. pH 4.5/2.0 14.	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed PV	Lot # of added preservative 12513 12518
Trip Blank present: Pace Trip Blank lot # (if purchased): 093013-3	☑Yes ☐No ☐N/A	15.	
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.	
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 1/3/14

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A — Required Client Information:

Company:	BARR ENGINEERING
Address:	
Email To:	
Phone:	(816) 285-8410 Fax
Requested Due Date/TAT:	10 Day (Default)

Section B — Required Project Information:

Report To:	ED GALBRAITH/BARR
Copy To:	SCOTT FEDAK/FEEZOR
	DANA BAKER/MARGARET TREANOR -BARR
Purchase Order No.	PO 3727110
Client Project ID:	BRIDGETON LF
Container Order Number:	

Section C — Invoice Information:

Attention:	JANET ROLLEN
Company Name:	REPUBLIC SERVICES
Address:	BRIDGETON, MO 63044
Pace Quote Reference:	130426_7588
Pace Project Manager:	Brown, Angie
Pace Profile #:	6787 LINE 2

Regulatory Agency
State / Location
Missouri

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N): COD EPA 410	pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B		Residual Chlorine (Y/N)	
1	316-183RRR 2A4L4L 1BP3U 3A6J5	OT	G	1-1-14	1400	1-1-14	1400		14	10	4	1	0	1BP3N	14-D			X	X	X	X	X	X	X	X	X	X	X	1BP3S 2-0		2BP2U 5D6AU 2D6AU
2	TRIP BLANK								2	2															X						
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

Residual Chlorine (Y/N): Cod Codeos

METALS LIST total & LF Dis: Al,Sb,As,Be,Cd,Cr, Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn and Mercury

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	Paul Lmscott/FEI	01/02/14	3:30 P.M	Bernadette Martin	01/02/14	3:30 P.M				
SITE ADDRESS: BRIDGETON LF				PAGE	1/3/14	0155	4.6	Y	Y	Y
13570 ST. CHARLES ROCK RD										
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE		
PRINT Name of SAMPLER:	Andrew Roberts	
SIGNATURE of SAMPLER:	Andrew Roberts	DATE Signed: 1-1-14

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

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January 10, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-184
Pace Project No.: 60160608

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 03, 2014. 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,

Mary Jane Walls for
Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

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CERTIFICATIONS

Project: BRIDGETON LF 316-184
Pace Project No.: 60160608

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-184
Pace Project No.: 60160608

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60160608001	**316-184**	Water	01/02/14 11:30	01/03/14 01:55
60160608002	**TRIP BLANK**	Water	01/02/14 08:00	01/03/14 01:55

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-184
Pace Project No.: 60160608

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60160608001	**316-184**	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	16
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC	1
		SM 4500-H+B	DJR	1
		SM 5210B	JML	1
		EPA 350.1	NDL	1
		EPA 410.4	NDL	1
60160608002	**TRIP BLANK**	EPA 624 Low	EAK	28

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-184
Pace Project No.: 60160608

Sample: 316-184 **Lab ID: 60160608001** Collected: 01/02/14 11:30 Received: 01/03/14 01:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	**5720**	ug/L	375	1	01/06/14 11:20	01/07/14 11:39	7429-90-5	
Antimony	ND	ug/L	100	2	01/06/14 11:20	01/07/14 11:46	7440-36-0	
Arsenic	**1080**	ug/L	50.0	1	01/06/14 11:20	01/07/14 11:39	7440-38-2	
Beryllium	ND	ug/L	5.0	1	01/06/14 11:20	01/07/14 11:39	7440-41-7	
Cadmium	ND	ug/L	25.0	1	01/06/14 11:20	01/07/14 11:39	7440-43-9	
Chromium	**292**	ug/L	25.0	1	01/06/14 11:20	01/07/14 11:39	7440-47-3	
Cobalt	**29.6**	ug/L	25.0	1	01/06/14 11:20	01/07/14 11:39	7440-48-4	
Copper	ND	ug/L	50.0	1	01/06/14 11:20	01/07/14 11:39	7440-50-8	
Iron	**941000**	ug/L	250	1	01/06/14 11:20	01/07/14 11:39	7439-89-6	
Lead	**132**	ug/L	25.0	1	01/06/14 11:20	01/07/14 11:39	7439-92-1	
Nickel	**121**	ug/L	25.0	1	01/06/14 11:20	01/07/14 11:39	7440-02-0	
Selenium	ND	ug/L	75.0	1	01/06/14 11:20	01/07/14 11:39	7782-49-2	
Silver	ND	ug/L	35.0	1	01/06/14 11:20	01/07/14 11:39	7440-22-4	
Thallium	ND	ug/L	100	1	01/06/14 11:20	01/07/14 11:39	7440-28-0	
Zinc	**10600**	ug/L	500	2	01/06/14 11:20	01/07/14 11:46	7440-66-6	
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	**3830**	ug/L	375	1	01/06/14 11:20	01/07/14 12:45	7429-90-5	
Antimony, Dissolved	**50.8**	ug/L	50.0	1	01/06/14 11:20	01/07/14 12:45	7440-36-0	
Arsenic, Dissolved	**872**	ug/L	50.0	1	01/06/14 11:20	01/07/14 12:45	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	01/06/14 11:20	01/07/14 12:45	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	01/06/14 11:20	01/07/14 12:45	7440-43-9	
Chromium, Dissolved	**231**	ug/L	25.0	1	01/06/14 11:20	01/07/14 12:45	7440-47-3	
Cobalt, Dissolved	ND	ug/L	25.0	1	01/06/14 11:20	01/07/14 12:45	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	01/06/14 11:20	01/07/14 12:45	7440-50-8	
Iron, Dissolved	**684000**	ug/L	250	1	01/06/14 11:20	01/07/14 12:45	7439-89-6	
Lead, Dissolved	**96.6**	ug/L	25.0	1	01/06/14 11:20	01/07/14 12:45	7439-92-1	
Nickel, Dissolved	**98.7**	ug/L	25.0	1	01/06/14 11:20	01/07/14 12:45	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	01/06/14 11:20	01/07/14 12:45	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	01/06/14 11:20	01/07/14 12:45	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	01/06/14 11:20	01/07/14 12:45	7440-28-0	
Zinc, Dissolved	**9070**	ug/L	500	2	01/06/14 11:20	01/07/14 12:48	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	6.0	1	01/07/14 12:00	01/08/14 09:48	7439-97-6	
245.1 Mercury, Dissolved (LF)	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	6.0	1	01/07/14 12:00	01/08/14 10:21	7439-97-6	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	01/03/14 00:00	01/06/14 12:47	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	01/03/14 00:00	01/06/14 12:47	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	01/03/14 00:00	01/06/14 12:47	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	01/03/14 00:00	01/06/14 12:47	67-72-1	
Naphthalene	**2060**	ug/L	1000	2	01/03/14 00:00	01/06/14 12:47	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	01/03/14 00:00	01/06/14 12:47	98-95-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-184
Pace Project No.: 60160608

Sample: 316-184 **Lab ID: 60160608001** Collected: 01/02/14 11:30 Received: 01/03/14 01:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Pentachlorophenol	ND	ug/L	1000	2	01/03/14 00:00	01/06/14 12:47	87-86-5	
Phenol	**11500**	ug/L	1000	2	01/03/14 00:00	01/06/14 12:47	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	1000	2	01/03/14 00:00	01/06/14 12:47	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	1000	2	01/03/14 00:00	01/06/14 12:47	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	148	%	33-120	2	01/03/14 00:00	01/06/14 12:47	4165-60-0	S0
2-Fluorobiphenyl (S)	93	%	39-120	2	01/03/14 00:00	01/06/14 12:47	321-60-8	
Terphenyl-d14 (S)	95	%	45-120	2	01/03/14 00:00	01/06/14 12:47	1718-51-0	
Phenol-d6 (S)	51	%	11-120	2	01/03/14 00:00	01/06/14 12:47	13127-88-3	
2-Fluorophenol (S)	51	%	17-120	2	01/03/14 00:00	01/06/14 12:47	367-12-4	
2,4,6-Tribromophenol (S)	104	%	39-120	2	01/03/14 00:00	01/06/14 12:47	118-79-6	
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	**186000**	ug/L	2000	200		01/03/14 15:39	67-64-1	N2
Benzene	ND	ug/L	200	200		01/03/14 15:39	71-43-2	
Bromodichloromethane	ND	ug/L	200	200		01/03/14 15:39	75-27-4	
Bromoform	ND	ug/L	200	200		01/03/14 15:39	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/03/14 15:39	74-83-9	
2-Butanone (MEK)	**99100**	ug/L	2000	200		01/03/14 15:39	78-93-3	N2
Carbon tetrachloride	ND	ug/L	200	200		01/03/14 15:39	56-23-5	
Chloroethane	ND	ug/L	200	200		01/03/14 15:39	75-00-3	
Chloroform	ND	ug/L	200	200		01/03/14 15:39	67-66-3	
1,4-Dichlorobenzene	**2070**	ug/L	200	200		01/03/14 15:39	106-46-7	
1,2-Dichloroethane	ND	ug/L	200	200		01/03/14 15:39	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/03/14 15:39	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/03/14 15:39	156-60-5	
Ethylbenzene	ND	ug/L	200	200		01/03/14 15:39	100-41-4	
Methylene chloride	ND	ug/L	200	200		01/03/14 15:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	**3370**	ug/L	2000	200		01/03/14 15:39	108-10-1	N2
1,1,2,2-Tetrachloroethane	**614**	ug/L	200	200		01/03/14 15:39	79-34-5	N2
Tetrachloroethene	ND	ug/L	200	200		01/03/14 15:39	127-18-4	
Toluene	ND	ug/L	200	200		01/03/14 15:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/03/14 15:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		01/03/14 15:39	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/03/14 15:39	79-01-6	
Vinyl chloride	ND	ug/L	200	200		01/03/14 15:39	75-01-4	
Xylene (Total)	**743**	ug/L	600	200		01/03/14 15:39	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	102	%	80-120	200		01/03/14 15:39	460-00-4	
Toluene-d8 (S)	98	%	80-120	200		01/03/14 15:39	2037-26-5	
1,2-Dichloroethane-d4 (S)	97	%	80-120	200		01/03/14 15:39	17060-07-0	
Preservation pH	**6.0**		1.0	200		01/03/14 15:39		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	**1220**	mg/L	5.0	1		01/07/14 15:56		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-184
Pace Project No.: 60160608

Sample: 316-184 **Lab ID: 60160608001** Collected: 01/02/14 11:30 Received: 01/03/14 01:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	**8.8**	mg/L	5.0	1		01/07/14 15:53		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**1440**	mg/L	5.0	1		01/07/14 12:59		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**5.5**	Std. Units	0.10	1		01/03/14 15:00		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**38100**	mg/L	2.0	1	01/03/14 15:49	01/08/14 14:15		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**855**	mg/L	50.0	500		01/08/14 11:27	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**80400**	mg/L	10000	1000		01/07/14 11:59		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-184
Pace Project No.: 60160608

Sample: TRIP BLANK **Lab ID: 60160608002** Collected: 01/02/14 08:00 Received: 01/03/14 01:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	ND	ug/L	10.0	1		01/03/14 15:54	67-64-1	N2
Benzene	ND	ug/L	1.0	1		01/03/14 15:54	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		01/03/14 15:54	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/03/14 15:54	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/03/14 15:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/03/14 15:54	78-93-3	N2
Carbon tetrachloride	ND	ug/L	1.0	1		01/03/14 15:54	56-23-5	
Chloroethane	ND	ug/L	1.0	1		01/03/14 15:54	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/03/14 15:54	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/03/14 15:54	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/03/14 15:54	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/14 15:54	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/03/14 15:54	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/03/14 15:54	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		01/03/14 15:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/03/14 15:54	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/03/14 15:54	79-34-5	N2
Tetrachloroethene	ND	ug/L	1.0	1		01/03/14 15:54	127-18-4	
Toluene	ND	ug/L	1.0	1		01/03/14 15:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/03/14 15:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/03/14 15:54	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/03/14 15:54	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/03/14 15:54	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/03/14 15:54	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	97	%	80-120	1		01/03/14 15:54	460-00-4	
Toluene-d8 (S)	102	%	80-120	1		01/03/14 15:54	2037-26-5	
1,2-Dichloroethane-d4 (S)	98	%	80-120	1		01/03/14 15:54	17060-07-0	
Preservation pH	**6.0**		1.0	1		01/03/14 15:54		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-184
Pace Project No.: 60160608

QC Batch: MERP/8053
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Associated Lab Samples: 60160608001

METHOD BLANK: 1314584
Matrix: Water
Associated Lab Samples: 60160608001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/08/14 09:41	

LABORATORY CONTROL SAMPLE: 1314585

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.4	87	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314586 1314587

Parameter	Units	60160691001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	150	150	130	137	86	90	70-130	5	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-184
Pace Project No.: 60160608

QC Batch: MERP/8054
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60160608001

METHOD BLANK: 1314625
Matrix: Water
Associated Lab Samples: 60160608001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	01/08/14 10:15	

LABORATORY CONTROL SAMPLE: 1314626

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314627 1314628

Parameter	Units	60160656001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	133	129	89	86	70-130	3	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-184
Pace Project No.: 60160608

QC Batch: MPRP/25806
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60160608001

METHOD BLANK: 1314437
Matrix: Water
Associated Lab Samples: 60160608001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	01/07/14 11:20	
Antimony	ug/L	ND	10.0	01/07/14 11:20	
Arsenic	ug/L	ND	10.0	01/07/14 11:20	
Beryllium	ug/L	ND	1.0	01/07/14 11:20	
Cadmium	ug/L	ND	5.0	01/07/14 11:20	
Chromium	ug/L	ND	5.0	01/07/14 11:20	
Cobalt	ug/L	ND	5.0	01/07/14 11:20	
Copper	ug/L	ND	10.0	01/07/14 11:20	
Iron	ug/L	ND	50.0	01/07/14 11:20	
Lead	ug/L	ND	5.0	01/07/14 11:20	
Nickel	ug/L	ND	5.0	01/07/14 11:20	
Selenium	ug/L	ND	15.0	01/07/14 11:20	
Silver	ug/L	ND	7.0	01/07/14 11:20	
Thallium	ug/L	ND	20.0	01/07/14 11:20	
Zinc	ug/L	ND	50.0	01/07/14 11:20	

LABORATORY CONTROL SAMPLE: 1314438

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9960	100	85-115	
Antimony	ug/L	1000	1030	103	85-115	
Arsenic	ug/L	1000	971	97	85-115	
Beryllium	ug/L	1000	1010	101	85-115	
Cadmium	ug/L	1000	1010	101	85-115	
Chromium	ug/L	1000	975	98	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	989	99	85-115	
Iron	ug/L	10000	9870	99	85-115	
Lead	ug/L	1000	1030	103	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1010	101	85-115	
Silver	ug/L	500	492	98	85-115	
Thallium	ug/L	1000	1050	105	85-115	
Zinc	ug/L	1000	974	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314439 1314440

Parameter	Units	60160605001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	6360	50000	50000	59300	59600	106	107	70-130	1	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-184
Pace Project No.: 60160608

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314439 1314440

Parameter	Units	60160605001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	5000	5000	5280	5340	104	105	70-130	1	7	
Arsenic	ug/L	999	5000	5000	6460	6500	109	110	70-130	1	10	
Beryllium	ug/L	ND	5000	5000	4920	4920	98	98	70-130	0	7	
Cadmium	ug/L	ND	5000	5000	5200	5230	104	105	70-130	1	10	
Chromium	ug/L	278	5000	5000	5020	5030	95	95	70-130	0	10	
Cobalt	ug/L	25.7	5000	5000	4840	4860	96	97	70-130	0	6	
Copper	ug/L	ND	5000	5000	5120	5100	102	101	70-130	0	11	
Iron	ug/L	960000	50000	50000	986000	982000	52	44	70-130	0	10	M1
Lead	ug/L	147	5000	5000	4680	4680	91	91	70-130	0	10	
Nickel	ug/L	114	5000	5000	4900	4900	96	96	70-130	0	10	
Selenium	ug/L	ND	5000	5000	5920	5940	118	119	70-130	0	10	
Silver	ug/L	ND	2500	2500	2590	2600	104	104	70-130	0	10	
Thallium	ug/L	ND	5000	5000	4120	4130	82	83	70-130	0	6	
Zinc	ug/L	10700	5000	5000	14900	15100	84	88	70-130	1	11	

MATRIX SPIKE SAMPLE: 1314441

Parameter	Units	60160577001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	1.4 mg/L	10000	11800	103	70-130	
Antimony	ug/L	0.010 mg/L	1000	1060	105	70-130	
Arsenic	ug/L	0.021 mg/L	1000	1040	102	70-130	
Beryllium	ug/L	ND	1000	1040	104	70-130	
Cadmium	ug/L	ND	1000	1020	102	70-130	
Chromium	ug/L	0.079 mg/L	1000	1050	97	70-130	
Cobalt	ug/L	ND	1000	998	100	70-130	
Copper	ug/L	ND	1000	1020	101	70-130	
Iron	ug/L	5.2 mg/L	10000	14700	96	70-130	
Lead	ug/L	ND	1000	951	95	70-130	
Nickel	ug/L	0.068 mg/L	1000	1040	97	70-130	
Selenium	ug/L	ND	1000	430	43	70-130	M1
Silver	ug/L	ND	500	523	105	70-130	
Thallium	ug/L	ND	1000	846	85	70-130	
Zinc	ug/L	1.0 mg/L	1000	1940	94	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-184
Pace Project No.: 60160608

QC Batch: MPRP/25802
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60160608001

METHOD BLANK: 1314389
Matrix: Water
Associated Lab Samples: 60160608001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	01/07/14 12:24	
Antimony, Dissolved	ug/L	ND	10.0	01/07/14 12:24	
Arsenic, Dissolved	ug/L	ND	10.0	01/07/14 12:24	
Beryllium, Dissolved	ug/L	ND	1.0	01/07/14 12:24	
Cadmium, Dissolved	ug/L	ND	5.0	01/07/14 12:24	
Chromium, Dissolved	ug/L	ND	5.0	01/07/14 12:24	
Cobalt, Dissolved	ug/L	ND	5.0	01/07/14 12:24	
Copper, Dissolved	ug/L	ND	10.0	01/07/14 12:24	
Iron, Dissolved	ug/L	123	50.0	01/07/14 12:24	
Lead, Dissolved	ug/L	ND	5.0	01/07/14 12:24	
Nickel, Dissolved	ug/L	ND	5.0	01/07/14 12:24	
Selenium, Dissolved	ug/L	ND	15.0	01/07/14 12:24	
Silver, Dissolved	ug/L	ND	7.0	01/07/14 12:24	
Thallium, Dissolved	ug/L	ND	20.0	01/07/14 12:24	
Zinc, Dissolved	ug/L	ND	50.0	01/07/14 12:24	

LABORATORY CONTROL SAMPLE: 1314390

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10100	101	85-115	
Antimony, Dissolved	ug/L	1000	1040	104	85-115	
Arsenic, Dissolved	ug/L	1000	969	97	85-115	
Beryllium, Dissolved	ug/L	1000	1020	102	85-115	
Cadmium, Dissolved	ug/L	1000	1010	101	85-115	
Chromium, Dissolved	ug/L	1000	982	98	85-115	
Cobalt, Dissolved	ug/L	1000	1040	104	85-115	
Copper, Dissolved	ug/L	1000	994	99	85-115	
Iron, Dissolved	ug/L	10000	9730	97	85-115	
Lead, Dissolved	ug/L	1000	1040	104	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1020	102	85-115	
Silver, Dissolved	ug/L	500	498	100	85-115	
Thallium, Dissolved	ug/L	1000	1050	105	85-115	
Zinc, Dissolved	ug/L	1000	978	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314391 1314392

Parameter	Units	60160605001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	3800	50000	50000	55600	55700	104	104	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-184
Pace Project No.: 60160608

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314391 1314392

Parameter	Units	60160605001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	5000	5000	5320	5310	105	105	70-130	0	7	
Arsenic, Dissolved	ug/L	810	5000	5000	6100	6150	106	107	70-130	1	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	5030	4990	101	100	70-130	1	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5180	5190	104	104	70-130	0	10	
Chromium, Dissolved	ug/L	217	5000	5000	4990	5000	96	96	70-130	0	10	
Cobalt, Dissolved	ug/L	ND	5000	5000	4980	4920	99	98	70-130	1	6	
Copper, Dissolved	ug/L	ND	5000	5000	5140	5140	102	102	70-130	0	11	
Iron, Dissolved	ug/L	674000	50000	50000	680000	702000	12	56	70-130	3	10	M1
Lead, Dissolved	ug/L	99.0	5000	5000	4740	4690	93	92	70-130	1	10	
Nickel, Dissolved	ug/L	96.4	5000	5000	4930	4910	97	96	70-130	0	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5830	5810	116	116	70-130	0	10	
Silver, Dissolved	ug/L	ND	2500	2500	2620	2610	105	105	70-130	0	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4200	4200	84	84	70-130	0	6	
Zinc, Dissolved	ug/L	9150	5000	5000	13200	13300	81	83	70-130	1	11	

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(913)599-5665

QUALITY CONTROL DATA

Project: BRIDGETON LF 316-184
Pace Project No.: 60160608

QC Batch: MSV/58705 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60160608001, 60160608002

METHOD BLANK: 1314007 | Matrix: Water
Associated Lab Samples: 60160608001, 60160608002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/03/14 14:09	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/03/14 14:09	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/03/14 14:09	
1,2-Dichloroethane	ug/L	ND	1.0	01/03/14 14:09	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/03/14 14:09	
Acetone	ug/L	ND	10.0	01/03/14 14:09	N2
Benzene	ug/L	ND	1.0	01/03/14 14:09	
Bromodichloromethane	ug/L	ND	1.0	01/03/14 14:09	
Bromoform	ug/L	ND	1.0	01/03/14 14:09	
Bromomethane	ug/L	ND	5.0	01/03/14 14:09	
Carbon tetrachloride	ug/L	ND	1.0	01/03/14 14:09	
Chloroethane	ug/L	ND	1.0	01/03/14 14:09	
Chloroform	ug/L	ND	1.0	01/03/14 14:09	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/03/14 14:09	N2
Ethylbenzene	ug/L	ND	1.0	01/03/14 14:09	
Methylene chloride	ug/L	ND	1.0	01/03/14 14:09	
Tetrachloroethene	ug/L	ND	1.0	01/03/14 14:09	
Toluene	ug/L	ND	1.0	01/03/14 14:09	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/03/14 14:09	
Trichloroethene	ug/L	ND	1.0	01/03/14 14:09	
Vinyl chloride	ug/L	ND	1.0	01/03/14 14:09	
Xylene (Total)	ug/L	ND	3.0	01/03/14 14:09	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	01/03/14 14:09	
4-Bromofluorobenzene (S)	%	97	80-120	01/03/14 14:09	
Toluene-d8 (S)	%	98	80-120	01/03/14 14:09	

LABORATORY CONTROL SAMPLE: 1314008

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.5	97	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	18.7	94	59-138	N2
1,1,2-Trichloroethane	ug/L	20	20.7	103	69-127	
1,2-Dichloroethane	ug/L	20	19.8	99	71-129	
1,4-Dichlorobenzene	ug/L	20	19.8	99	68-124	
Acetone	ug/L	100	85.7	86	40-160	N2
Benzene	ug/L	20	20.4	102	73-129	
Bromodichloromethane	ug/L	20	18.8	94	63-129	
Bromoform	ug/L	20	20.6	103	52-123	
Bromomethane	ug/L	20	20.0	100	10-160	
Carbon tetrachloride	ug/L	20	19.7	99	70-140	
Chloroethane	ug/L	20	19.1	96	42-160	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-184
Pace Project No.: 60160608

LABORATORY CONTROL SAMPLE: 1314008

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroform	ug/L	20	20.2	101	60-120	
cis-1,2-Dichloroethene	ug/L	20	19.3	96	70-125	N2
Ethylbenzene	ug/L	20	18.0	90	66-133	
Methylene chloride	ug/L	20	19.6	98	56-135	
Tetrachloroethene	ug/L	20	18.4	92	64-143	
Toluene	ug/L	20	18.2	91	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.5	93	67-149	
Trichloroethene	ug/L	20	20.9	104	71-130	
Vinyl chloride	ug/L	20	17.7	88	41-160	
Xylene (Total)	ug/L	60	55.3	92	67-130	N2
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			95	80-120	

MATRIX SPIKE SAMPLE: 1314009

Parameter	Units	60160556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4100	102	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4150	104	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4510	113	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3900	97	49-155	
1,4-Dichlorobenzene	ug/L	1260	4000	5260	100	18-147	
Benzene	ug/L	ND	4000	4030	100	37-151	
Bromodichloromethane	ug/L	ND	4000	3740	93	35-155	
Bromoform	ug/L	ND	4000	3890	97	45-133	
Bromomethane	ug/L	ND	4000	4300	107	10-160	
Carbon tetrachloride	ug/L	ND	4000	4250	106	70-140	
Chloroethane	ug/L	ND	4000	4030	101	14-160	
Chloroform	ug/L	ND	4000	4020	101	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3890	97	19-160	N2
Ethylbenzene	ug/L	ND	4000	4040	97	37-154	
Methylene chloride	ug/L	ND	4000	4210	105	15-156	
Tetrachloroethene	ug/L	ND	4000	3870	97	64-148	
Toluene	ug/L	ND	4000	3910	96	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	3840	96	54-156	
Trichloroethene	ug/L	ND	4000	4130	103	71-157	
Vinyl chloride	ug/L	ND	4000	4080	102	10-160	
Xylene (Total)	ug/L	687	12000	12200	96	12-153	N2
1,2-Dichloroethane-d4 (S)	%				97	80-120	
4-Bromofluorobenzene (S)	%				102	80-120	
Toluene-d8 (S)	%				99	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-184
Pace Project No.: 60160608

QC Batch: OEXT/42159 | Analysis Method: EPA 625
QC Batch Method: EPA 625 | Analysis Description: 625 MSS
Associated Lab Samples: 60160608001

METHOD BLANK: 1313952 | Matrix: Water
Associated Lab Samples: 60160608001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/06/14 11:25	
2,4,6-Trichlorophenol	ug/L	ND	5.0	01/06/14 11:25	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	01/06/14 11:25	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/06/14 11:25	
Hexachlorocyclopentadiene	ug/L	ND	5.0	01/06/14 11:25	
Hexachloroethane	ug/L	ND	5.0	01/06/14 11:25	
Naphthalene	ug/L	ND	5.0	01/06/14 11:25	
Nitrobenzene	ug/L	ND	5.0	01/06/14 11:25	
Pentachlorophenol	ug/L	ND	5.0	01/06/14 11:25	
Phenol	ug/L	ND	5.0	01/06/14 11:25	
2,4,6-Tribromophenol (S)	%	81	39-120	01/06/14 11:25	
2-Fluorobiphenyl (S)	%	83	39-120	01/06/14 11:25	
2-Fluorophenol (S)	%	46	17-120	01/06/14 11:25	
Nitrobenzene-d5 (S)	%	80	33-120	01/06/14 11:25	
Phenol-d6 (S)	%	31	11-120	01/06/14 11:25	
Terphenyl-d14 (S)	%	88	45-120	01/06/14 11:25	

LABORATORY CONTROL SAMPLE: 1313953

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	37.4	75	46-120	
2,4,6-Trichlorophenol	ug/L	50	39.6	79	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	41.7	83	40-133	
Hexachloro-1,3-butadiene	ug/L	50	38.4	77	44-116	
Hexachlorocyclopentadiene	ug/L	100	69.8	70	24-120	
Hexachloroethane	ug/L	50	37.2	74	43-113	
Naphthalene	ug/L	50	39.0	78	48-120	
Nitrobenzene	ug/L	50	39.0	78	48-120	
Pentachlorophenol	ug/L	50	42.7	85	47-120	
Phenol	ug/L	50	16.5	33	16-112	
2,4,6-Tribromophenol (S)	%			88	39-120	
2-Fluorobiphenyl (S)	%			85	39-120	
2-Fluorophenol (S)	%			44	17-120	
Nitrobenzene-d5 (S)	%			81	33-120	
Phenol-d6 (S)	%			30	11-120	
Terphenyl-d14 (S)	%			87	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-184
Pace Project No.: 60160608

MATRIX SPIKE SAMPLE: 1313954

Parameter	Units	60160605001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	4550	91	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	5040	101	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4730J	95	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4610	92	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	9400	94	11-120	
Hexachloroethane	ug/L	ND	5000	4020	80	40-113	
Naphthalene	ug/L	2310	5000	7070	95	45-120	
Nitrobenzene	ug/L	ND	5000	4900	98	38-120	
Pentachlorophenol	ug/L	ND	5000	6220	124	43-135	
Phenol	ug/L	11500	5000	14900	69	13-112	
2,4,6-Tribromophenol (S)	%				108	39-120	
2-Fluorobiphenyl (S)	%				100	39-120	
2-Fluorophenol (S)	%				56	17-120	
Nitrobenzene-d5 (S)	%				171	33-120	S0
Phenol-d6 (S)	%				55	11-120	
Terphenyl-d14 (S)	%				100	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-184
Pace Project No.: 60160608

QC Batch: WET/45510
QC Batch Method: EPA 1664A
Analysis Method: EPA 1664A
Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60160608001

METHOD BLANK: 1314747
Matrix: Water
Associated Lab Samples: 60160608001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/07/14 15:55	

LABORATORY CONTROL SAMPLE: 1314748

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	40.0	100	78-114	

MATRIX SPIKE SAMPLE: 1314749

Parameter	Units	60160556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	1260	164	1300	24	78-114	M1

SAMPLE DUPLICATE: 1314750

Parameter	Units	60160556001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1260	1260	0	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-184
Pace Project No.: 60160608

QC Batch: WET/45511
QC Batch Method: EPA 1664A
Analysis Method: EPA 1664A
Analysis Description: 1664 SGT-HEM, TPH
Associated Lab Samples: 60160608001

METHOD BLANK: 1314755
Matrix: Water
Associated Lab Samples: 60160608001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	01/07/14 15:52	

LABORATORY CONTROL SAMPLE: 1314756

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	20.1	100	64-132	

MATRIX SPIKE SAMPLE: 1314757

Parameter	Units	60160556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	10.2	82	29.1	23	64-132	M1

SAMPLE DUPLICATE: 1314758

Parameter	Units	60160556001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	10.2	10	2	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-184
Pace Project No.: 60160608

QC Batch: WET/45505
QC Batch Method: SM 2540D
Analysis Method: SM 2540D
Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60160608001

METHOD BLANK: 1314668
Matrix: Water
Associated Lab Samples: 60160608001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	01/07/14 12:59	

SAMPLE DUPLICATE: 1314669

Parameter	Units	60160608001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	1440	1700	17	25	

SAMPLE DUPLICATE: 1314670

Parameter	Units	60160601004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	8.0		25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-184
Pace Project No.: 60160608

QC Batch: WET/45477
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 60160608001

SAMPLE DUPLICATE: 1314088

Parameter	Units	60159968004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.8	7.9	1	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-184
Pace Project No.: 60160608

QC Batch: WET/45473 | Analysis Method: SM 5210B
QC Batch Method: SM 5210B | Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 60160608001

METHOD BLANK: 1314003 | Matrix: Water
Associated Lab Samples: 60160608001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	01/08/14 13:55	

LABORATORY CONTROL SAMPLE: 1314004

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	206	104	85-115	

SAMPLE DUPLICATE: 1314005

Parameter	Units	60160592002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	2.7	3.3	22	17	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-184
Pace Project No.: 60160608

QC Batch: WETA/27764
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60160608001

METHOD BLANK: 1314836
Matrix: Water
Associated Lab Samples: 60160608001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	01/08/14 11:22	

LABORATORY CONTROL SAMPLE: 1314837

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	106	90-110	

MATRIX SPIKE SAMPLE: 1314838

Parameter	Units	60160556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	768	1000	1980	121	90-110	M1

SAMPLE DUPLICATE: 1314839

Parameter	Units	60160608001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	855	885	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-184
Pace Project No.: 60160608

QC Batch: WETA/27743 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 60160608001

METHOD BLANK: 1314484 | Matrix: Water
Associated Lab Samples: 60160608001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	01/07/14 11:55	

LABORATORY CONTROL SAMPLE: 1314485

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	47.7	95	90-110	

MATRIX SPIKE SAMPLE: 1314486

Parameter	Units	60160372001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	102000	50000	162000	120	90-110	M1

SAMPLE DUPLICATE: 1314487

Parameter	Units	60160608001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	80400	81000	1	25	

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QUALIFIERS

Project: BRIDGETON LF 316-184
Pace Project No.: 60160608

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

ANALYTE QUALIFIERS

D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-184
Pace Project No.: 60160608

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60160608001	**316-184**	EPA 200.7	MPRP/25806	EPA 200.7	ICP/19781
60160608001	**316-184**	EPA 200.7	MPRP/25802	EPA 200.7	ICP/19783
60160608001	**316-184**	EPA 245.1	MERP/8053	EPA 245.1	MERC/8009
60160608001	**316-184**	EPA 245.1	MERP/8054	EPA 245.1	MERC/8010
60160608001	**316-184**	EPA 625	OEXT/42159	EPA 625	MSSV/13412
60160608001	**316-184**	EPA 624 Low	MSV/58705		
60160608002	**TRIP BLANK**	EPA 624 Low	MSV/58705		
60160608001	**316-184**	EPA 1664A	WET/45510		
60160608001	**316-184**	EPA 1664A	WET/45511		
60160608001	**316-184**	SM 2540D	WET/45505		
60160608001	**316-184**	SM 4500-H+B	WET/45477		
60160608001	**316-184**	SM 5210B	WET/45473	SM 5210B	WET/45563
60160608001	**316-184**	EPA 350.1	WETA/27764		
60160608001	**316-184**	EPA 410.4	WETA/27743		

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Sample Condition Upon Receipt

WO#: 60160608
60160608

Client Name: Barr Engin.

Optional
Proj Due Date: 1/10
Proj Name: Bridgeton

Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☑ x-Roads

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ☑ Epic

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 2.0

Date and initials of person examining contents: 1/3/14

Temperature should be above freezing to 6°C

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 & signature on COC:	☑Yes	☐No	☐N/A	4.
Samples arrived within holding time:	☑Yes	☐No	☐N/A	5.
Short Hold Time analyses (<72hr):	☑Yes	☐No	☐N/A	6. BOD, ph
Rush Turn Around Time requested:	☐Yes	☑No	☐N/A	7.
Sufficient volume:	☑Yes	☐No	☐N/A	8.
Correct containers used:	☑Yes	☐No	☐N/A	
Pace containers used:	☑Yes	☐No	☐N/A	9.
Containers intact:	☑Yes	☐No	☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes	☐No	☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes	☐No	☑N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☑Yes	☐No	☐N/A	13.
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	initial ph BP3N 4.0, added 2.5mL HNO3, final 3.0 initial ph BP3S 4.0, added 2.0mL H2SO4, final 2.5
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☑No	☐N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes	☐No		Initial when completed ✓ Lot # of added preservative HNO3-12513-10-9 H2SO4-12518-1-6
Trip Blank present: Pace Trip Blank lot # (if purchased): D93013-3BE2	☑Yes	☐No	☐N/A	15.
Headspace in VOA vials (>6mm):	☐Yes	☑No	☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes	☐No	☑N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 1/3/14

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A — Required Client Information:

Company:	BARR ENGINEERING
Address:	
Email To:	
Phone:	(816) 285-8410 Fax
Requested Due Date/TAT:	10 Day (Default)

Section B — Required Project Information:

Report To:	ED GALBRAITH/BARR
Copy To:	SCOTT FEDAK/FEEZOR
	DANA BAKER/MARGARET TREANOR -BARR
Purchase Order No.	PO 3727110
Client Project ID:	BRIDGETON LF
Container Order Number:	

Section C — Invoice Information:

Attention:	JANET ROLLEN
Company Name:	REPUBLIC SERVICES
Address:	BRIDGETON, MO 63044
Pace Quote Reference:	130426_7588
Pace Project Manager:	Brown, Angie
Pace Profile #:	6787 LINE 2

Regulatory Agency	
State / Location	
	Missouri

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N): COD EPA 410	pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B		Residual Chlorine (Y/N)	60160608
1	31L-184/50mL, BP3U, 2BP2U	OT	G	01/02/14	1130	—			14	10	4	1	0	3A	6B	3S		X	X	X	X	X	X	X	X	X	X	X	2A	6B4U, BP3N 3.0, BP3S 2.5	001
2	TRIP BLANK 2DG9U (TB)								2	2															X						002
3																															
4																															
5																															
6																														METALS LIST total & LF Dis:	
7																														Al,Sb,As,Be,Cd,Cr,	
8																														Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn	
9																														and Mercury	
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	Paul Unscott / PEI	01/02/14	3:30PM	Jennifer Smith	01/02/14	3:30PM				
SITE ADDRESS: BRIDGETON LF				EBrockett / Pace	1/3/14	0155	2.0	Y	Y	Y
13570 ST. CHARLES ROCK RD										
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	John Powell					
SIGNATURE of SAMPLER:		DATE Signed: 01-02-14				

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

January 13, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 04, 2014. 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,

Angie Brown

Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

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CERTIFICATIONS

Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60160656001	**96-SW2A**	Water	01/03/14 10:57	01/04/14 01:10
60160656002	**TRIP BLANK**	Water	01/03/14 10:57	01/04/14 01:10

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60160656001	**96-SW2A**	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	16
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC	1
		SM 4500-H+B	RAH	1
		SM 5210B	JML	1
		EPA 350.1	NDL	1
		EPA 410.4	JMC	1
60160656002	**TRIP BLANK**	EPA 624 Low	EAK	28

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ANALYTICAL RESULTS

Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

Sample: 96-SW2A **Lab ID: 60160656001** Collected: 01/03/14 10:57 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	**3640**	ug/L	375	1	01/06/14 11:20	01/07/14 12:20	7429-90-5	
Antimony	ND	ug/L	50.0	1	01/06/14 11:20	01/07/14 12:20	7440-36-0	
Arsenic	ND	ug/L	50.0	1	01/06/14 11:20	01/07/14 12:20	7440-38-2	
Beryllium	ND	ug/L	5.0	1	01/06/14 11:20	01/07/14 12:20	7440-41-7	
Cadmium	ND	ug/L	25.0	1	01/06/14 11:20	01/07/14 12:20	7440-43-9	
Chromium	ND	ug/L	25.0	1	01/06/14 11:20	01/07/14 12:20	7440-47-3	
Cobalt	ND	ug/L	25.0	1	01/06/14 11:20	01/07/14 12:20	7440-48-4	
Copper	ND	ug/L	50.0	1	01/06/14 11:20	01/07/14 12:20	7440-50-8	
Iron	**13100**	ug/L	250	1	01/06/14 11:20	01/07/14 12:20	7439-89-6	
Lead	ND	ug/L	25.0	1	01/06/14 11:20	01/07/14 12:20	7439-92-1	
Nickel	ND	ug/L	25.0	1	01/06/14 11:20	01/07/14 12:20	7440-02-0	
Selenium	ND	ug/L	75.0	1	01/06/14 11:20	01/07/14 12:20	7782-49-2	
Silver	ND	ug/L	35.0	1	01/06/14 11:20	01/07/14 12:20	7440-22-4	
Thallium	ND	ug/L	100	1	01/06/14 11:20	01/07/14 12:20	7440-28-0	
Zinc	ND	ug/L	250	1	01/06/14 11:20	01/07/14 12:20	7440-66-6	
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	ND	ug/L	375	1	01/06/14 11:20	01/07/14 12:50	7429-90-5	
Antimony, Dissolved	ND	ug/L	50.0	1	01/06/14 11:20	01/07/14 12:50	7440-36-0	
Arsenic, Dissolved	ND	ug/L	50.0	1	01/06/14 11:20	01/07/14 12:50	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	01/06/14 11:20	01/07/14 12:50	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	01/06/14 11:20	01/07/14 12:50	7440-43-9	
Chromium, Dissolved	ND	ug/L	25.0	1	01/06/14 11:20	01/07/14 12:50	7440-47-3	
Cobalt, Dissolved	ND	ug/L	25.0	1	01/06/14 11:20	01/07/14 12:50	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	01/06/14 11:20	01/07/14 12:50	7440-50-8	
Iron, Dissolved	**9080**	ug/L	250	1	01/08/14 15:45	01/09/14 10:42	7439-89-6	
Lead, Dissolved	ND	ug/L	25.0	1	01/06/14 11:20	01/07/14 12:50	7439-92-1	
Nickel, Dissolved	ND	ug/L	25.0	1	01/06/14 11:20	01/07/14 12:50	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	01/06/14 11:20	01/07/14 12:50	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	01/06/14 11:20	01/07/14 12:50	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	01/06/14 11:20	01/07/14 12:50	7440-28-0	
Zinc, Dissolved	ND	ug/L	250	1	01/06/14 11:20	01/07/14 12:50	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	6.0	1	01/07/14 12:00	01/08/14 09:52	7439-97-6	
245.1 Mercury, Dissolved (LF)	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	6.0	1	01/07/14 12:00	01/08/14 10:24	7439-97-6	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	2500	1	01/04/14 00:00	01/06/14 13:07	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	500	1	01/04/14 00:00	01/06/14 13:07	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	500	1	01/04/14 00:00	01/06/14 13:07	77-47-4	
Hexachloroethane	ND	ug/L	500	1	01/04/14 00:00	01/06/14 13:07	67-72-1	
Naphthalene	ND	ug/L	500	1	01/04/14 00:00	01/06/14 13:07	91-20-3	
Nitrobenzene	ND	ug/L	500	1	01/04/14 00:00	01/06/14 13:07	98-95-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

Sample: 96-SW2A **Lab ID: 60160656001** Collected: 01/03/14 10:57 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Pentachlorophenol	ND	ug/L	500	1	01/04/14 00:00	01/06/14 13:07	87-86-5	
Phenol	ND	ug/L	500	1	01/04/14 00:00	01/06/14 13:07	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	500	1	01/04/14 00:00	01/06/14 13:07	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	500	1	01/04/14 00:00	01/06/14 13:07	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	77	%	33-120	1	01/04/14 00:00	01/06/14 13:07	4165-60-0	
2-Fluorobiphenyl (S)	78	%	39-120	1	01/04/14 00:00	01/06/14 13:07	321-60-8	
Terphenyl-d14 (S)	84	%	45-120	1	01/04/14 00:00	01/06/14 13:07	1718-51-0	
Phenol-d6 (S)	27	%	11-120	1	01/04/14 00:00	01/06/14 13:07	13127-88-3	
2-Fluorophenol (S)	39	%	17-120	1	01/04/14 00:00	01/06/14 13:07	367-12-4	
2,4,6-Tribromophenol (S)	84	%	39-120	1	01/04/14 00:00	01/06/14 13:07	118-79-6	
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	**2320**	ug/L	100	10		01/06/14 15:08	67-64-1	N2
Benzene	**51.6**	ug/L	10.0	10		01/06/14 15:08	71-43-2	
Bromodichloromethane	ND	ug/L	10.0	10		01/06/14 15:08	75-27-4	
Bromoform	ND	ug/L	10.0	10		01/06/14 15:08	75-25-2	
Bromomethane	ND	ug/L	50.0	10		01/06/14 15:08	74-83-9	
2-Butanone (MEK)	**1180**	ug/L	100	10		01/06/14 15:08	78-93-3	N2
Carbon tetrachloride	ND	ug/L	10.0	10		01/06/14 15:08	56-23-5	
Chloroethane	ND	ug/L	10.0	10		01/06/14 15:08	75-00-3	
Chloroform	ND	ug/L	10.0	10		01/06/14 15:08	67-66-3	
1,4-Dichlorobenzene	**17.9**	ug/L	10.0	10		01/06/14 15:08	106-46-7	
1,2-Dichloroethane	ND	ug/L	10.0	10		01/06/14 15:08	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	10.0	10		01/06/14 15:08	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		01/06/14 15:08	156-60-5	
Ethylbenzene	ND	ug/L	10.0	10		01/06/14 15:08	100-41-4	
Methylene chloride	ND	ug/L	10.0	10		01/06/14 15:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	10		01/06/14 15:08	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		01/06/14 15:08	79-34-5	N2
Tetrachloroethene	ND	ug/L	10.0	10		01/06/14 15:08	127-18-4	
Toluene	ND	ug/L	10.0	10		01/06/14 15:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		01/06/14 15:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		01/06/14 15:08	79-00-5	
Trichloroethene	ND	ug/L	10.0	10		01/06/14 15:08	79-01-6	
Vinyl chloride	ND	ug/L	10.0	10		01/06/14 15:08	75-01-4	
Xylene (Total)	ND	ug/L	30.0	10		01/06/14 15:08	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	10		01/06/14 15:08	460-00-4	
Toluene-d8 (S)	101	%	80-120	10		01/06/14 15:08	2037-26-5	
1,2-Dichloroethane-d4 (S)	99	%	80-120	10		01/06/14 15:08	17060-07-0	
Preservation pH	**6.0**		1.0	10		01/06/14 15:08		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	ND	mg/L	5.0	1		01/08/14 14:53		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

Sample: 96-SW2A **Lab ID: 60160656001** Collected: 01/03/14 10:57 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	**7.6**	mg/L	5.0	1		01/10/14 06:57		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**208**	mg/L	5.0	1		01/08/14 08:50		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.1**	Std. Units	0.10	1		01/07/14 14:00		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**898**	mg/L	2.0	1	01/04/14 12:19	01/09/14 10:44		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**8.1**	mg/L	0.50	5		01/08/14 11:50	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**1060**	mg/L	100	10		01/13/14 15:48		M1

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ANALYTICAL RESULTS

Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

Sample: TRIP BLANK **Lab ID: 60160656002** Collected: 01/03/14 10:57 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	ND	ug/L	10.0	1		01/06/14 14:53	67-64-1	N2
Benzene	ND	ug/L	1.0	1		01/06/14 14:53	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		01/06/14 14:53	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/06/14 14:53	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/14 14:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/06/14 14:53	78-93-3	N2
Carbon tetrachloride	ND	ug/L	1.0	1		01/06/14 14:53	56-23-5	
Chloroethane	ND	ug/L	1.0	1		01/06/14 14:53	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/06/14 14:53	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/06/14 14:53	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/06/14 14:53	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/06/14 14:53	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/06/14 14:53	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/06/14 14:53	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		01/06/14 14:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/06/14 14:53	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/06/14 14:53	79-34-5	N2
Tetrachloroethene	ND	ug/L	1.0	1		01/06/14 14:53	127-18-4	
Toluene	ND	ug/L	1.0	1		01/06/14 14:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/06/14 14:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/06/14 14:53	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/06/14 14:53	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/06/14 14:53	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/06/14 14:53	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	99	%	80-120	1		01/06/14 14:53	460-00-4	
Toluene-d8 (S)	103	%	80-120	1		01/06/14 14:53	2037-26-5	
1,2-Dichloroethane-d4 (S)	98	%	80-120	1		01/06/14 14:53	17060-07-0	
Preservation pH	**6.0**		1.0	1		01/06/14 14:53		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

QC Batch: MERP/8053
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Associated Lab Samples: 60160656001

METHOD BLANK: 1314584
Matrix: Water
Associated Lab Samples: 60160656001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/08/14 09:41	

LABORATORY CONTROL SAMPLE: 1314585

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.4	87	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314586 1314587

Parameter	Units	60160691001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	150	150	130	137	86	90	70-130	5	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

QC Batch: MERP/8054
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60160656001

METHOD BLANK: 1314625
Matrix: Water
Associated Lab Samples: 60160656001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	01/08/14 10:15	

LABORATORY CONTROL SAMPLE: 1314626

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314627 1314628

Parameter	Units	60160656001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	133	129	89	86	70-130	3	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

QC Batch: MPRP/25806
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60160656001

METHOD BLANK: 1314437
Matrix: Water
Associated Lab Samples: 60160656001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	01/07/14 11:20	
Antimony	ug/L	ND	10.0	01/07/14 11:20	
Arsenic	ug/L	ND	10.0	01/07/14 11:20	
Beryllium	ug/L	ND	1.0	01/07/14 11:20	
Cadmium	ug/L	ND	5.0	01/07/14 11:20	
Chromium	ug/L	ND	5.0	01/07/14 11:20	
Cobalt	ug/L	ND	5.0	01/07/14 11:20	
Copper	ug/L	ND	10.0	01/07/14 11:20	
Iron	ug/L	ND	50.0	01/07/14 11:20	
Lead	ug/L	ND	5.0	01/07/14 11:20	
Nickel	ug/L	ND	5.0	01/07/14 11:20	
Selenium	ug/L	ND	15.0	01/07/14 11:20	
Silver	ug/L	ND	7.0	01/07/14 11:20	
Thallium	ug/L	ND	20.0	01/07/14 11:20	
Zinc	ug/L	ND	50.0	01/07/14 11:20	

LABORATORY CONTROL SAMPLE: 1314438

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9960	100	85-115	
Antimony	ug/L	1000	1030	103	85-115	
Arsenic	ug/L	1000	971	97	85-115	
Beryllium	ug/L	1000	1010	101	85-115	
Cadmium	ug/L	1000	1010	101	85-115	
Chromium	ug/L	1000	975	98	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	989	99	85-115	
Iron	ug/L	10000	9870	99	85-115	
Lead	ug/L	1000	1030	103	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1010	101	85-115	
Silver	ug/L	500	492	98	85-115	
Thallium	ug/L	1000	1050	105	85-115	
Zinc	ug/L	1000	974	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314439 1314440

Parameter	Units	60160605001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	6360	50000	50000	59300	59600	106	107	70-130	1	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314439 1314440

Parameter	Units	60160605001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	5000	5000	5280	5340	104	105	70-130	1	7	
Arsenic	ug/L	999	5000	5000	6460	6500	109	110	70-130	1	10	
Beryllium	ug/L	ND	5000	5000	4920	4920	98	98	70-130	0	7	
Cadmium	ug/L	ND	5000	5000	5200	5230	104	105	70-130	1	10	
Chromium	ug/L	278	5000	5000	5020	5030	95	95	70-130	0	10	
Cobalt	ug/L	25.7	5000	5000	4840	4860	96	97	70-130	0	6	
Copper	ug/L	ND	5000	5000	5120	5100	102	101	70-130	0	11	
Iron	ug/L	960000	50000	50000	986000	982000	52	44	70-130	0	10	M1
Lead	ug/L	147	5000	5000	4680	4680	91	91	70-130	0	10	
Nickel	ug/L	114	5000	5000	4900	4900	96	96	70-130	0	10	
Selenium	ug/L	ND	5000	5000	5920	5940	118	119	70-130	0	10	
Silver	ug/L	ND	2500	2500	2590	2600	104	104	70-130	0	10	
Thallium	ug/L	ND	5000	5000	4120	4130	82	83	70-130	0	6	
Zinc	ug/L	10700	5000	5000	14900	15100	84	88	70-130	1	11	

MATRIX SPIKE SAMPLE: 1314441

Parameter	Units	60160577001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	1.4 mg/L	10000	11800	103	70-130	
Antimony	ug/L	0.010 mg/L	1000	1060	105	70-130	
Arsenic	ug/L	0.021 mg/L	1000	1040	102	70-130	
Beryllium	ug/L	ND	1000	1040	104	70-130	
Cadmium	ug/L	ND	1000	1020	102	70-130	
Chromium	ug/L	0.079 mg/L	1000	1050	97	70-130	
Cobalt	ug/L	ND	1000	998	100	70-130	
Copper	ug/L	ND	1000	1020	101	70-130	
Iron	ug/L	5.2 mg/L	10000	14700	96	70-130	
Lead	ug/L	ND	1000	951	95	70-130	
Nickel	ug/L	0.068 mg/L	1000	1040	97	70-130	
Selenium	ug/L	ND	1000	430	43	70-130	M1
Silver	ug/L	ND	500	523	105	70-130	
Thallium	ug/L	ND	1000	846	85	70-130	
Zinc	ug/L	1.0 mg/L	1000	1940	94	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

QC Batch: MPRP/25802
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60160656001

METHOD BLANK: 1314389
Matrix: Water
Associated Lab Samples: 60160656001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	01/07/14 12:24	
Antimony, Dissolved	ug/L	ND	10.0	01/07/14 12:24	
Arsenic, Dissolved	ug/L	ND	10.0	01/07/14 12:24	
Beryllium, Dissolved	ug/L	ND	1.0	01/07/14 12:24	
Cadmium, Dissolved	ug/L	ND	5.0	01/07/14 12:24	
Chromium, Dissolved	ug/L	ND	5.0	01/07/14 12:24	
Cobalt, Dissolved	ug/L	ND	5.0	01/07/14 12:24	
Copper, Dissolved	ug/L	ND	10.0	01/07/14 12:24	
Lead, Dissolved	ug/L	ND	5.0	01/07/14 12:24	
Nickel, Dissolved	ug/L	ND	5.0	01/07/14 12:24	
Selenium, Dissolved	ug/L	ND	15.0	01/07/14 12:24	
Silver, Dissolved	ug/L	ND	7.0	01/07/14 12:24	
Thallium, Dissolved	ug/L	ND	20.0	01/07/14 12:24	
Zinc, Dissolved	ug/L	ND	50.0	01/07/14 12:24	

LABORATORY CONTROL SAMPLE: 1314390

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10100	101	85-115	
Antimony, Dissolved	ug/L	1000	1040	104	85-115	
Arsenic, Dissolved	ug/L	1000	969	97	85-115	
Beryllium, Dissolved	ug/L	1000	1020	102	85-115	
Cadmium, Dissolved	ug/L	1000	1010	101	85-115	
Chromium, Dissolved	ug/L	1000	982	98	85-115	
Cobalt, Dissolved	ug/L	1000	1040	104	85-115	
Copper, Dissolved	ug/L	1000	994	99	85-115	
Lead, Dissolved	ug/L	1000	1040	104	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1020	102	85-115	
Silver, Dissolved	ug/L	500	498	100	85-115	
Thallium, Dissolved	ug/L	1000	1050	105	85-115	
Zinc, Dissolved	ug/L	1000	978	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314391 1314392

Parameter	Units	60160605001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	3800	50000	50000	55600	55700	104	104	70-130	0	8	
Antimony, Dissolved	ug/L	ND	5000	5000	5320	5310	105	105	70-130	0	7	
Arsenic, Dissolved	ug/L	810	5000	5000	6100	6150	106	107	70-130	1	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314391 1314392

Parameter	Units	60160605001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium, Dissolved	ug/L	ND	5000	5000	5030	4990	101	100	70-130	1	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5180	5190	104	104	70-130	0	10	
Chromium, Dissolved	ug/L	217	5000	5000	4990	5000	96	96	70-130	0	10	
Cobalt, Dissolved	ug/L	ND	5000	5000	4980	4920	99	98	70-130	1	6	
Copper, Dissolved	ug/L	ND	5000	5000	5140	5140	102	102	70-130	0	11	
Lead, Dissolved	ug/L	99.0	5000	5000	4740	4690	93	92	70-130	1	10	
Nickel, Dissolved	ug/L	96.4	5000	5000	4930	4910	97	96	70-130	0	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5830	5810	116	116	70-130	0	10	
Silver, Dissolved	ug/L	ND	2500	2500	2620	2610	105	105	70-130	0	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4200	4200	84	84	70-130	0	6	
Zinc, Dissolved	ug/L	9150	5000	5000	13200	13300	81	83	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

QC Batch: MPRP/25828
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60160656001

METHOD BLANK: 1315101
Matrix: Water
Associated Lab Samples: 60160656001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	ND	50.0	01/09/14 10:40	

LABORATORY CONTROL SAMPLE: 1315102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	10000	9910	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1315103 1315104

Parameter	Units	60160690001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	706000	50000	50000	746000	722000	80	32	70-130	3	10	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

QC Batch: MSV/58720 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60160656001, 60160656002

METHOD BLANK: 1314407 | Matrix: Water
Associated Lab Samples: 60160656001, 60160656002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/06/14 13:53	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/06/14 13:53	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/06/14 13:53	
1,2-Dichloroethane	ug/L	ND	1.0	01/06/14 13:53	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/06/14 13:53	
Acetone	ug/L	ND	10.0	01/06/14 13:53	N2
Benzene	ug/L	ND	1.0	01/06/14 13:53	
Bromodichloromethane	ug/L	ND	1.0	01/06/14 13:53	
Bromoform	ug/L	ND	1.0	01/06/14 13:53	
Bromomethane	ug/L	ND	5.0	01/06/14 13:53	
Carbon tetrachloride	ug/L	ND	1.0	01/06/14 13:53	
Chloroethane	ug/L	ND	1.0	01/06/14 13:53	
Chloroform	ug/L	ND	1.0	01/06/14 13:53	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/06/14 13:53	N2
Ethylbenzene	ug/L	ND	1.0	01/06/14 13:53	
Methylene chloride	ug/L	ND	1.0	01/06/14 13:53	
Tetrachloroethene	ug/L	ND	1.0	01/06/14 13:53	
Toluene	ug/L	ND	1.0	01/06/14 13:53	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/06/14 13:53	
Trichloroethene	ug/L	ND	1.0	01/06/14 13:53	
Vinyl chloride	ug/L	ND	1.0	01/06/14 13:53	
Xylene (Total)	ug/L	ND	3.0	01/06/14 13:53	N2
1,2-Dichloroethane-d4 (S)	%	103	80-120	01/06/14 13:53	
4-Bromofluorobenzene (S)	%	97	80-120	01/06/14 13:53	
Toluene-d8 (S)	%	104	80-120	01/06/14 13:53	

LABORATORY CONTROL SAMPLE: 1314408

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.7	103	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	20.4	102	59-138	N2
1,1,2-Trichloroethane	ug/L	20	20.5	102	69-127	
1,2-Dichloroethane	ug/L	20	20.0	100	71-129	
1,4-Dichlorobenzene	ug/L	20	20.6	103	68-124	
Acetone	ug/L	100	83.0	83	40-160	N2
Benzene	ug/L	20	21.1	106	73-129	
Bromodichloromethane	ug/L	20	21.0	105	63-129	
Bromoform	ug/L	20	20.8	104	52-123	
Bromomethane	ug/L	20	19.1	96	10-160	
Carbon tetrachloride	ug/L	20	21.4	107	70-140	
Chloroethane	ug/L	20	21.3	107	42-160	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

LABORATORY CONTROL SAMPLE: 1314408

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroform	ug/L	20	21.2	106	60-120	
cis-1,2-Dichloroethene	ug/L	20	21.2	106	70-125	N2
Ethylbenzene	ug/L	20	21.4	107	66-133	
Methylene chloride	ug/L	20	22.4	112	56-135	
Tetrachloroethene	ug/L	20	19.4	97	64-143	
Toluene	ug/L	20	20.9	104	70-130	
trans-1,2-Dichloroethene	ug/L	20	21.4	107	67-149	
Trichloroethene	ug/L	20	22.0	110	71-130	
Vinyl chloride	ug/L	20	18.6	93	41-160	
Xylene (Total)	ug/L	60	61.6	103	67-130	N2
1,2-Dichloroethane-d4 (S)	%			96	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			98	80-120	

MATRIX SPIKE SAMPLE: 1314009

Parameter	Units	60160556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	239000	25000	262000	91	40-160	N2

MATRIX SPIKE SAMPLE: 1314409

Parameter	Units	60160657001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3990	100	52-160	
1,1,2,2-Tetrachloroethane	ug/L	235	4000	3860	91	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4490	112	52-150	
1,2-Dichloroethane	ug/L	ND	4000	4010	100	49-155	
1,4-Dichlorobenzene	ug/L	1290	4000	5100	95	18-147	
Benzene	ug/L	ND	4000	4310	107	37-151	
Bromodichloromethane	ug/L	ND	4000	3780	95	35-155	
Bromoform	ug/L	ND	4000	3930	98	45-133	
Bromomethane	ug/L	ND	4000	3780	94	10-160	
Carbon tetrachloride	ug/L	ND	4000	4340	108	70-140	
Chloroethane	ug/L	ND	4000	3740	94	14-160	
Chloroform	ug/L	ND	4000	3990	100	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3780	94	19-160	N2
Ethylbenzene	ug/L	ND	4000	4080	99	37-154	
Methylene chloride	ug/L	ND	4000	4030	101	15-156	
Tetrachloroethene	ug/L	ND	4000	3800	95	64-148	
Toluene	ug/L	ND	4000	3910	98	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	3930	98	54-156	
Trichloroethene	ug/L	ND	4000	4270	107	71-157	
Vinyl chloride	ug/L	ND	4000	3790	95	10-160	
Xylene (Total)	ug/L	ND	12000	12500	104	12-153	N2
1,2-Dichloroethane-d4 (S)	%				105	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

MATRIX SPIKE SAMPLE: 1314409

Parameter	Units	60160657001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				95	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

QC Batch: OEXT/42162 | Analysis Method: EPA 625
QC Batch Method: EPA 625 | Analysis Description: 625 MSS
Associated Lab Samples: 60160656001

METHOD BLANK: 1314225 | Matrix: Water
Associated Lab Samples: 60160656001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/06/14 10:24	
2,4,6-Trichlorophenol	ug/L	ND	5.0	01/06/14 10:24	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	01/06/14 10:24	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/06/14 10:24	
Hexachlorocyclopentadiene	ug/L	ND	5.0	01/06/14 10:24	
Hexachloroethane	ug/L	ND	5.0	01/06/14 10:24	
Naphthalene	ug/L	ND	5.0	01/06/14 10:24	
Nitrobenzene	ug/L	ND	5.0	01/06/14 10:24	
Pentachlorophenol	ug/L	ND	5.0	01/06/14 10:24	
Phenol	ug/L	ND	5.0	01/06/14 10:24	
2,4,6-Tribromophenol (S)	%	90	39-120	01/06/14 10:24	
2-Fluorobiphenyl (S)	%	90	39-120	01/06/14 10:24	
2-Fluorophenol (S)	%	40	17-120	01/06/14 10:24	
Nitrobenzene-d5 (S)	%	87	33-120	01/06/14 10:24	
Phenol-d6 (S)	%	27	11-120	01/06/14 10:24	
Terphenyl-d14 (S)	%	97	45-120	01/06/14 10:24	

LABORATORY CONTROL SAMPLE: 1314226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	37.8	76	46-120	
2,4,6-Trichlorophenol	ug/L	50	40.8	82	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	42.0	84	40-133	
Hexachloro-1,3-butadiene	ug/L	50	40.2	80	44-116	
Hexachlorocyclopentadiene	ug/L	100	70.1	70	24-120	
Hexachloroethane	ug/L	50	38.3	77	43-113	
Naphthalene	ug/L	50	40.5	81	48-120	
Nitrobenzene	ug/L	50	40.5	81	48-120	
Pentachlorophenol	ug/L	50	42.4	85	47-120	
Phenol	ug/L	50	15.9	32	16-112	
2,4,6-Tribromophenol (S)	%			95	39-120	
2-Fluorobiphenyl (S)	%			89	39-120	
2-Fluorophenol (S)	%			45	17-120	
Nitrobenzene-d5 (S)	%			85	33-120	
Phenol-d6 (S)	%			31	11-120	
Terphenyl-d14 (S)	%			92	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

MATRIX SPIKE SAMPLE: 1314227

Parameter	Units	60160656001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3260	65	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	3490	70	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	3930	79	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3350	67	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	6130	61	11-120	
Hexachloroethane	ug/L	ND	5000	3180	64	40-113	
Naphthalene	ug/L	ND	5000	3470	69	45-120	
Nitrobenzene	ug/L	ND	5000	3470	69	38-120	
Pentachlorophenol	ug/L	ND	5000	4420	88	43-135	
Phenol	ug/L	ND	5000	1410	25	13-112	
2,4,6-Tribromophenol (S)	%				84	39-120	
2-Fluorobiphenyl (S)	%				73	39-120	
2-Fluorophenol (S)	%				36	17-120	
Nitrobenzene-d5 (S)	%				73	33-120	
Phenol-d6 (S)	%				26	11-120	
Terphenyl-d14 (S)	%				81	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

QC Batch: WET/45527
QC Batch Method: EPA 1664A
Analysis Method: EPA 1664A
Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60160656001

METHOD BLANK: 1315050
Matrix: Water
Associated Lab Samples: 60160656001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/08/14 14:53	

LABORATORY CONTROL SAMPLE: 1315051

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.8	100	78-114	

MATRIX SPIKE SAMPLE: 1315052

Parameter	Units	60160656001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	160	170	105	78-114	

SAMPLE DUPLICATE: 1315053

Parameter	Units	60160656001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	1110		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

QC Batch: WET/45543
QC Batch Method: EPA 1664A
Analysis Method: EPA 1664A
Analysis Description: 1664 SGT-HEM, TPH
Associated Lab Samples: 60160656001

METHOD BLANK: 1315611
Matrix: Water
Associated Lab Samples: 60160656001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	01/10/14 06:56	

LABORATORY CONTROL SAMPLE: 1315612

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	19.8	99	64-132	

MATRIX SPIKE SAMPLE: 1315613

Parameter	Units	60160656001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	7.6	80	82.4	93	64-132	

SAMPLE DUPLICATE: 1315614

Parameter	Units	60160657001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	32.9	31.7	4	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

QC Batch: WET/45506
QC Batch Method: SM 2540D
Analysis Method: SM 2540D
Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60160656001

METHOD BLANK: 1314671
Matrix: Water
Associated Lab Samples: 60160656001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	01/07/14 13:09	

SAMPLE DUPLICATE: 1314672

Parameter	Units	60160588002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	8.0	9.0	12	25	

SAMPLE DUPLICATE: 1314673

Parameter	Units	60160656001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	208	202	3	25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

QC Batch: WET/45500
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 60160656001

SAMPLE DUPLICATE: 1314536

Parameter	Units	60160654001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	8.0	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

QC Batch: WET/45479 | Analysis Method: SM 5210B
QC Batch Method: SM 5210B | Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 60160656001

METHOD BLANK: 1314182 | Matrix: Water
Associated Lab Samples: 60160656001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	01/09/14 09:27	

LABORATORY CONTROL SAMPLE: 1314183

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	203	103	85-115	

SAMPLE DUPLICATE: 1314184

Parameter	Units	60160649001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	391	344	13	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

QC Batch: WETA/27764
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60160656001

METHOD BLANK: 1314836
Matrix: Water
Associated Lab Samples: 60160656001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	01/08/14 11:22	

LABORATORY CONTROL SAMPLE: 1314837

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	106	90-110	

MATRIX SPIKE SAMPLE: 1314838

Parameter	Units	60160556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	768	1000	1980	121	90-110	M1

SAMPLE DUPLICATE: 1314839

Parameter	Units	60160608001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	855	885	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

QC Batch: WETA/27808
QC Batch Method: EPA 410.4
Analysis Method: EPA 410.4
Analysis Description: 410.4 COD
Associated Lab Samples: 60160656001

METHOD BLANK: 1316681
Matrix: Water
Associated Lab Samples: 60160656001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	01/13/14 15:47	

LABORATORY CONTROL SAMPLE: 1316682

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	52.4	105	90-110	

MATRIX SPIKE SAMPLE: 1316683

Parameter	Units	60160656001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	1060	500	1470	82	90-110	M1

SAMPLE DUPLICATE: 1316684

Parameter	Units	60160737001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	55800	57500	3	25	

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QUALIFIERS

Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

ANALYTE QUALIFIERS

H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 96-SW2A
Pace Project No.: 60160656

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60160656001	**96-SW2A**	EPA 200.7	MPRP/25806	EPA 200.7	ICP/19781
60160656001	**96-SW2A**	EPA 200.7	MPRP/25802	EPA 200.7	ICP/19783
60160656001	**96-SW2A**	EPA 200.7	MPRP/25828	EPA 200.7	ICP/19791
60160656001	**96-SW2A**	EPA 245.1	MERP/8053	EPA 245.1	MERC/8009
60160656001	**96-SW2A**	EPA 245.1	MERP/8054	EPA 245.1	MERC/8010
60160656001	**96-SW2A**	EPA 625	OEXT/42162	EPA 625	MSSV/13411
60160656001	**96-SW2A**	EPA 624 Low	MSV/58720		
60160656002	**TRIP BLANK**	EPA 624 Low	MSV/58720		
60160656001	**96-SW2A**	EPA 1664A	WET/45527		
60160656001	**96-SW2A**	EPA 1664A	WET/45543		
60160656001	**96-SW2A**	SM 2540D	WET/45506		
60160656001	**96-SW2A**	SM 4500-H+B	WET/45500		
60160656001	**96-SW2A**	SM 5210B	WET/45479	SM 5210B	WET/45541
60160656001	**96-SW2A**	EPA 350.1	WETA/27764		
60160656001	**96-SW2A**	EPA 410.4	WETA/27808		

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Sample Condition Upon Receipt

WO# : 60160656

60160656

Client Name: Barr

Optional
Proj Due Date:
Proj Name:

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

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☐ Other ☑ ZPlc

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.6

Temperature should be above freezing to 6°C

Date and initials of person examining contents: 12/19/14

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 & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6. Bad pH
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☑Yes ☐No ☐N/A	13.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased): Cover	☑Yes ☐No ☐N/A	15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y (N) Field Data Required? Y (N)

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 12/19/14

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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.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	BARR ENGINEERING	Report To:	ED GALBRAITH/BARR	Attention:	JANET ROLLEN
Address:		Copy To:	SCOTT FEDAK/FEEZOR	Company Name:	REPUBLIC SERVICES
			DANA BAKER/MARGARET TREANOR -BARR	Address:	BRIDGETON, MO 63044
Email To:		Purchase Order No.	PO 3727110	Pace Quote Reference:	130426_7588
Phone:	(816) 285-8410 Fax	Client Project ID:	BRIDGETON LF	Pace Project Manager:	Brown, Angie
Requested Due Date/TAT:	10 Day (Default)	Container Order Number:		Pace Profile #:	6787 LINE 2

Regulatory Agency	
State / Location	
	Missouri

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	COD EPA 410	pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B		Residual Chlorine (Y/N)	60160656
1	96-SW2a 2AG4U 1BP3U 3AG3S	OT	G	1/3/14	1057	—	—		15	10	4	1	0	1BP3S	1-5				X	X	X	X	X	X	X	X	X	X	X	1BP3N 1-5 2BP2U 5DG4U		001
2	TRIP BLANK	—	—	—	—	—	—		2	2																X				1DG4U		002
3																																
4																																
5																																
6																															METALS LIST total & LF Dis:	
7																															Al, Sb, As, Be, Cd, Cr,	
8																															Co, Cu, Fe, Pb, Ni, Se, Ag, Tl, Zn	
9																															and Mercury	
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	Paul Lusicott / FPL	01-03-14	3:00PM	Benjette Hurth	01-03-14	3:00PM				
SITE ADDRESS: BRIDGETON LF				[illegible]	1/3/14	0110	2.6	Y	Y	X
13570 ST. CHARLES ROCK RD					1/4/14					
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	WILLIAM ABERNATHY					
SIGNATURE of SAMPLER:	[signature]	DATE Signed: 1/3/14				

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January 13, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 04, 2014. 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,

Angie Brown

Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

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CERTIFICATIONS

Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60160657001	**316-185R**	Water	01/03/14 09:30	01/04/14 01:10
60160657002	**TRIP BLANK**	Water	01/03/14 09:30	01/04/14 01:10

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60160657001	**316-185R**	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	16
		EPA 624 Low	EAK, PRG	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC	1
		SM 4500-H+B	RAH	1
		SM 5210B	JML	1
		EPA 350.1	NDL	1
		EPA 410.4	JMC	1
60160657002	**TRIP BLANK**	EPA 624 Low	EAK	28

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

Sample: 316-185R **Lab ID: 60160657001** Collected: 01/03/14 09:30 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	**6140**	ug/L	375	1	01/06/14 11:20	01/07/14 11:55	7429-90-5	
Antimony	**57.4**	ug/L	50.0	1	01/06/14 11:20	01/07/14 11:55	7440-36-0	
Arsenic	**1020**	ug/L	50.0	1	01/06/14 11:20	01/07/14 11:55	7440-38-2	
Beryllium	ND	ug/L	5.0	1	01/06/14 11:20	01/07/14 11:55	7440-41-7	
Cadmium	ND	ug/L	25.0	1	01/06/14 11:20	01/07/14 11:55	7440-43-9	
Chromium	**282**	ug/L	25.0	1	01/06/14 11:20	01/07/14 11:55	7440-47-3	
Cobalt	**29.6**	ug/L	25.0	1	01/06/14 11:20	01/07/14 11:55	7440-48-4	
Copper	ND	ug/L	50.0	1	01/06/14 11:20	01/07/14 11:55	7440-50-8	
Iron	**908000**	ug/L	250	1	01/06/14 11:20	01/07/14 11:55	7439-89-6	
Lead	**139**	ug/L	25.0	1	01/06/14 11:20	01/07/14 11:55	7439-92-1	
Nickel	**126**	ug/L	25.0	1	01/06/14 11:20	01/07/14 11:55	7440-02-0	
Selenium	ND	ug/L	75.0	1	01/06/14 11:20	01/07/14 11:55	7782-49-2	
Silver	ND	ug/L	35.0	1	01/06/14 11:20	01/07/14 11:55	7440-22-4	
Thallium	ND	ug/L	100	1	01/06/14 11:20	01/07/14 11:55	7440-28-0	
Zinc	**10100**	ug/L	500	2	01/06/14 11:20	01/07/14 11:57	7440-66-6	
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	**3550**	ug/L	375	1	01/06/14 11:20	01/07/14 12:52	7429-90-5	
Antimony, Dissolved	ND	ug/L	50.0	1	01/06/14 11:20	01/07/14 12:52	7440-36-0	
Arsenic, Dissolved	**806**	ug/L	50.0	1	01/06/14 11:20	01/07/14 12:52	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	01/06/14 11:20	01/07/14 12:52	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	01/06/14 11:20	01/07/14 12:52	7440-43-9	
Chromium, Dissolved	**216**	ug/L	25.0	1	01/06/14 11:20	01/07/14 12:52	7440-47-3	
Cobalt, Dissolved	ND	ug/L	25.0	1	01/06/14 11:20	01/07/14 12:52	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	01/06/14 11:20	01/07/14 12:52	7440-50-8	
Iron, Dissolved	**639000**	ug/L	250	1	01/06/14 11:20	01/07/14 12:52	7439-89-6	
Lead, Dissolved	**89.3**	ug/L	25.0	1	01/06/14 11:20	01/07/14 12:52	7439-92-1	
Nickel, Dissolved	**93.3**	ug/L	25.0	1	01/06/14 11:20	01/07/14 12:52	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	01/06/14 11:20	01/07/14 12:52	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	01/06/14 11:20	01/07/14 12:52	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	01/06/14 11:20	01/07/14 12:52	7440-28-0	
Zinc, Dissolved	**8440**	ug/L	500	2	01/06/14 11:20	01/07/14 12:55	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	6.0	1	01/07/14 12:00	01/08/14 09:55	7439-97-6	
245.1 Mercury, Dissolved (LF)	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	6.0	1	01/07/14 12:00	01/08/14 10:35	7439-97-6	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	01/04/14 00:00	01/06/14 13:48	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	01/04/14 00:00	01/06/14 13:48	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	01/04/14 00:00	01/06/14 13:48	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	01/04/14 00:00	01/06/14 13:48	67-72-1	
Naphthalene	**1820**	ug/L	1000	2	01/04/14 00:00	01/06/14 13:48	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	01/04/14 00:00	01/06/14 13:48	98-95-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

Sample: 316-185R **Lab ID: 60160657001** Collected: 01/03/14 09:30 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Pentachlorophenol	ND	ug/L	1000	2	01/04/14 00:00	01/06/14 13:48	87-86-5	
Phenol	**10500**	ug/L	1000	2	01/04/14 00:00	01/06/14 13:48	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	1000	2	01/04/14 00:00	01/06/14 13:48	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	1000	2	01/04/14 00:00	01/06/14 13:48	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	142	%	33-120	2	01/04/14 00:00	01/06/14 13:48	4165-60-0	S0
2-Fluorobiphenyl (S)	84	%	39-120	2	01/04/14 00:00	01/06/14 13:48	321-60-8	
Terphenyl-d14 (S)	89	%	45-120	2	01/04/14 00:00	01/06/14 13:48	1718-51-0	
Phenol-d6 (S)	44	%	11-120	2	01/04/14 00:00	01/06/14 13:48	13127-88-3	
2-Fluorophenol (S)	43	%	17-120	2	01/04/14 00:00	01/06/14 13:48	367-12-4	
2,4,6-Tribromophenol (S)	95	%	39-120	2	01/04/14 00:00	01/06/14 13:48	118-79-6	
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	**96400**	ug/L	2500	250		01/09/14 11:11	67-64-1	N2
Benzene	ND	ug/L	200	200		01/06/14 15:38	71-43-2	
Bromodichloromethane	ND	ug/L	200	200		01/06/14 15:38	75-27-4	
Bromoform	ND	ug/L	200	200		01/06/14 15:38	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/06/14 15:38	74-83-9	
2-Butanone (MEK)	**107000**	ug/L	2000	200		01/06/14 15:38	78-93-3	N2
Carbon tetrachloride	ND	ug/L	200	200		01/06/14 15:38	56-23-5	
Chloroethane	ND	ug/L	200	200		01/06/14 15:38	75-00-3	
Chloroform	ND	ug/L	200	200		01/06/14 15:38	67-66-3	
1,4-Dichlorobenzene	**1290**	ug/L	200	200		01/06/14 15:38	106-46-7	
1,2-Dichloroethane	ND	ug/L	200	200		01/06/14 15:38	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/06/14 15:38	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/06/14 15:38	156-60-5	
Ethylbenzene	ND	ug/L	200	200		01/06/14 15:38	100-41-4	
Methylene chloride	ND	ug/L	200	200		01/06/14 15:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	**3130**	ug/L	2000	200		01/06/14 15:38	108-10-1	N2
1,1,2,2-Tetrachloroethane	**235**	ug/L	200	200		01/06/14 15:38	79-34-5	N2
Tetrachloroethene	ND	ug/L	200	200		01/06/14 15:38	127-18-4	
Toluene	ND	ug/L	200	200		01/06/14 15:38	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/06/14 15:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		01/06/14 15:38	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/06/14 15:38	79-01-6	
Vinyl chloride	ND	ug/L	200	200		01/06/14 15:38	75-01-4	
Xylene (Total)	ND	ug/L	600	200		01/06/14 15:38	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	200		01/06/14 15:38	460-00-4	D3
Toluene-d8 (S)	94	%	80-120	200		01/06/14 15:38	2037-26-5	
1,2-Dichloroethane-d4 (S)	102	%	80-120	200		01/06/14 15:38	17060-07-0	
Preservation pH	**6.0**		1.0	200		01/06/14 15:38		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	**1190**	mg/L	5.0	1		01/08/14 14:54		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

Sample: 316-185R **Lab ID: 60160657001** Collected: 01/03/14 09:30 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	**32.9**	mg/L	5.0	1		01/10/14 06:57		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**1540**	mg/L	5.0	1		01/08/14 08:50		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**5.5**	Std. Units	0.10	1		01/07/14 14:00		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**33100**	mg/L	2.0	1	01/04/14 12:10	01/09/14 10:28		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**847**	mg/L	50.0	500		01/08/14 11:33	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**60100**	mg/L	5000	500		01/13/14 07:58		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

Sample: TRIP BLANK **Lab ID: 60160657002** Collected: 01/03/14 09:30 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	ND	ug/L	10.0	1		01/06/14 16:08	67-64-1	N2
Benzene	ND	ug/L	1.0	1		01/06/14 16:08	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		01/06/14 16:08	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/06/14 16:08	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/06/14 16:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/06/14 16:08	78-93-3	N2
Carbon tetrachloride	ND	ug/L	1.0	1		01/06/14 16:08	56-23-5	
Chloroethane	ND	ug/L	1.0	1		01/06/14 16:08	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/06/14 16:08	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/06/14 16:08	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/06/14 16:08	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/06/14 16:08	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/06/14 16:08	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/06/14 16:08	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		01/06/14 16:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/06/14 16:08	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/06/14 16:08	79-34-5	N2
Tetrachloroethene	ND	ug/L	1.0	1		01/06/14 16:08	127-18-4	
Toluene	ND	ug/L	1.0	1		01/06/14 16:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/06/14 16:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/06/14 16:08	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/06/14 16:08	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/06/14 16:08	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/06/14 16:08	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	95	%	80-120	1		01/06/14 16:08	460-00-4	
Toluene-d8 (S)	94	%	80-120	1		01/06/14 16:08	2037-26-5	
1,2-Dichloroethane-d4 (S)	101	%	80-120	1		01/06/14 16:08	17060-07-0	
Preservation pH	**6.0**		1.0	1		01/06/14 16:08		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

QC Batch: MERP/8053 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury
Associated Lab Samples: 60160657001

METHOD BLANK: 1314584 | Matrix: Water
Associated Lab Samples: 60160657001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/08/14 09:41	

LABORATORY CONTROL SAMPLE: 1314585

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.4	87	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314586 1314587

Parameter	Units	60160691001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	150	150	130	137	86	90	70-130	5	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

QC Batch: MERP/8054
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60160657001

METHOD BLANK: 1314625
Matrix: Water
Associated Lab Samples: 60160657001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	01/08/14 10:15	

LABORATORY CONTROL SAMPLE: 1314626

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314627 1314628

Parameter	Units	60160656001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	133	129	89	86	70-130	3	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

QC Batch: MPRP/25806
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60160657001

METHOD BLANK: 1314437
Matrix: Water
Associated Lab Samples: 60160657001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	01/07/14 11:20	
Antimony	ug/L	ND	10.0	01/07/14 11:20	
Arsenic	ug/L	ND	10.0	01/07/14 11:20	
Beryllium	ug/L	ND	1.0	01/07/14 11:20	
Cadmium	ug/L	ND	5.0	01/07/14 11:20	
Chromium	ug/L	ND	5.0	01/07/14 11:20	
Cobalt	ug/L	ND	5.0	01/07/14 11:20	
Copper	ug/L	ND	10.0	01/07/14 11:20	
Iron	ug/L	ND	50.0	01/07/14 11:20	
Lead	ug/L	ND	5.0	01/07/14 11:20	
Nickel	ug/L	ND	5.0	01/07/14 11:20	
Selenium	ug/L	ND	15.0	01/07/14 11:20	
Silver	ug/L	ND	7.0	01/07/14 11:20	
Thallium	ug/L	ND	20.0	01/07/14 11:20	
Zinc	ug/L	ND	50.0	01/07/14 11:20	

LABORATORY CONTROL SAMPLE: 1314438

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9960	100	85-115	
Antimony	ug/L	1000	1030	103	85-115	
Arsenic	ug/L	1000	971	97	85-115	
Beryllium	ug/L	1000	1010	101	85-115	
Cadmium	ug/L	1000	1010	101	85-115	
Chromium	ug/L	1000	975	98	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	989	99	85-115	
Iron	ug/L	10000	9870	99	85-115	
Lead	ug/L	1000	1030	103	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1010	101	85-115	
Silver	ug/L	500	492	98	85-115	
Thallium	ug/L	1000	1050	105	85-115	
Zinc	ug/L	1000	974	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314439 1314440

Parameter	Units	60160605001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	6360	50000	50000	59300	59600	106	107	70-130	1	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314439 1314440

Parameter	Units	60160605001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	5000	5000	5280	5340	104	105	70-130	1	7	
Arsenic	ug/L	999	5000	5000	6460	6500	109	110	70-130	1	10	
Beryllium	ug/L	ND	5000	5000	4920	4920	98	98	70-130	0	7	
Cadmium	ug/L	ND	5000	5000	5200	5230	104	105	70-130	1	10	
Chromium	ug/L	278	5000	5000	5020	5030	95	95	70-130	0	10	
Cobalt	ug/L	25.7	5000	5000	4840	4860	96	97	70-130	0	6	
Copper	ug/L	ND	5000	5000	5120	5100	102	101	70-130	0	11	
Iron	ug/L	960000	50000	50000	986000	982000	52	44	70-130	0	10	M1
Lead	ug/L	147	5000	5000	4680	4680	91	91	70-130	0	10	
Nickel	ug/L	114	5000	5000	4900	4900	96	96	70-130	0	10	
Selenium	ug/L	ND	5000	5000	5920	5940	118	119	70-130	0	10	
Silver	ug/L	ND	2500	2500	2590	2600	104	104	70-130	0	10	
Thallium	ug/L	ND	5000	5000	4120	4130	82	83	70-130	0	6	
Zinc	ug/L	10700	5000	5000	14900	15100	84	88	70-130	1	11	

MATRIX SPIKE SAMPLE: 1314441

Parameter	Units	60160577001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	1.4 mg/L	10000	11800	103	70-130	
Antimony	ug/L	0.010 mg/L	1000	1060	105	70-130	
Arsenic	ug/L	0.021 mg/L	1000	1040	102	70-130	
Beryllium	ug/L	ND	1000	1040	104	70-130	
Cadmium	ug/L	ND	1000	1020	102	70-130	
Chromium	ug/L	0.079 mg/L	1000	1050	97	70-130	
Cobalt	ug/L	ND	1000	998	100	70-130	
Copper	ug/L	ND	1000	1020	101	70-130	
Iron	ug/L	5.2 mg/L	10000	14700	96	70-130	
Lead	ug/L	ND	1000	951	95	70-130	
Nickel	ug/L	0.068 mg/L	1000	1040	97	70-130	
Selenium	ug/L	ND	1000	430	43	70-130	M1
Silver	ug/L	ND	500	523	105	70-130	
Thallium	ug/L	ND	1000	846	85	70-130	
Zinc	ug/L	1.0 mg/L	1000	1940	94	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

QC Batch: MPRP/25802
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60160657001

METHOD BLANK: 1314389
Matrix: Water
Associated Lab Samples: 60160657001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	01/07/14 12:24	
Antimony, Dissolved	ug/L	ND	10.0	01/07/14 12:24	
Arsenic, Dissolved	ug/L	ND	10.0	01/07/14 12:24	
Beryllium, Dissolved	ug/L	ND	1.0	01/07/14 12:24	
Cadmium, Dissolved	ug/L	ND	5.0	01/07/14 12:24	
Chromium, Dissolved	ug/L	ND	5.0	01/07/14 12:24	
Cobalt, Dissolved	ug/L	ND	5.0	01/07/14 12:24	
Copper, Dissolved	ug/L	ND	10.0	01/07/14 12:24	
Iron, Dissolved	ug/L	123	50.0	01/07/14 12:24	
Lead, Dissolved	ug/L	ND	5.0	01/07/14 12:24	
Nickel, Dissolved	ug/L	ND	5.0	01/07/14 12:24	
Selenium, Dissolved	ug/L	ND	15.0	01/07/14 12:24	
Silver, Dissolved	ug/L	ND	7.0	01/07/14 12:24	
Thallium, Dissolved	ug/L	ND	20.0	01/07/14 12:24	
Zinc, Dissolved	ug/L	ND	50.0	01/07/14 12:24	

LABORATORY CONTROL SAMPLE: 1314390

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10100	101	85-115	
Antimony, Dissolved	ug/L	1000	1040	104	85-115	
Arsenic, Dissolved	ug/L	1000	969	97	85-115	
Beryllium, Dissolved	ug/L	1000	1020	102	85-115	
Cadmium, Dissolved	ug/L	1000	1010	101	85-115	
Chromium, Dissolved	ug/L	1000	982	98	85-115	
Cobalt, Dissolved	ug/L	1000	1040	104	85-115	
Copper, Dissolved	ug/L	1000	994	99	85-115	
Iron, Dissolved	ug/L	10000	9730	97	85-115	
Lead, Dissolved	ug/L	1000	1040	104	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1020	102	85-115	
Silver, Dissolved	ug/L	500	498	100	85-115	
Thallium, Dissolved	ug/L	1000	1050	105	85-115	
Zinc, Dissolved	ug/L	1000	978	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314391 1314392

Parameter	Units	60160605001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	3800	50000	50000	55600	55700	104	104	70-130	0	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314391 1314392

Parameter	Units	60160605001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	5000	5000	5320	5310	105	105	70-130	0	7	
Arsenic, Dissolved	ug/L	810	5000	5000	6100	6150	106	107	70-130	1	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	5030	4990	101	100	70-130	1	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5180	5190	104	104	70-130	0	10	
Chromium, Dissolved	ug/L	217	5000	5000	4990	5000	96	96	70-130	0	10	
Cobalt, Dissolved	ug/L	ND	5000	5000	4980	4920	99	98	70-130	1	6	
Copper, Dissolved	ug/L	ND	5000	5000	5140	5140	102	102	70-130	0	11	
Iron, Dissolved	ug/L	674000	50000	50000	680000	702000	12	56	70-130	3	10	M1
Lead, Dissolved	ug/L	99.0	5000	5000	4740	4690	93	92	70-130	1	10	
Nickel, Dissolved	ug/L	96.4	5000	5000	4930	4910	97	96	70-130	0	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5830	5810	116	116	70-130	0	10	
Silver, Dissolved	ug/L	ND	2500	2500	2620	2610	105	105	70-130	0	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4200	4200	84	84	70-130	0	6	
Zinc, Dissolved	ug/L	9150	5000	5000	13200	13300	81	83	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

QC Batch: MSV/58720 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60160657001, 60160657002

METHOD BLANK: 1314407 | Matrix: Water
Associated Lab Samples: 60160657001, 60160657002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/06/14 13:53	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/06/14 13:53	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/06/14 13:53	
1,2-Dichloroethane	ug/L	ND	1.0	01/06/14 13:53	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/06/14 13:53	
Acetone	ug/L	ND	10.0	01/06/14 13:53	N2
Benzene	ug/L	ND	1.0	01/06/14 13:53	
Bromodichloromethane	ug/L	ND	1.0	01/06/14 13:53	
Bromoform	ug/L	ND	1.0	01/06/14 13:53	
Bromomethane	ug/L	ND	5.0	01/06/14 13:53	
Carbon tetrachloride	ug/L	ND	1.0	01/06/14 13:53	
Chloroethane	ug/L	ND	1.0	01/06/14 13:53	
Chloroform	ug/L	ND	1.0	01/06/14 13:53	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/06/14 13:53	N2
Ethylbenzene	ug/L	ND	1.0	01/06/14 13:53	
Methylene chloride	ug/L	ND	1.0	01/06/14 13:53	
Tetrachloroethene	ug/L	ND	1.0	01/06/14 13:53	
Toluene	ug/L	ND	1.0	01/06/14 13:53	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/06/14 13:53	
Trichloroethene	ug/L	ND	1.0	01/06/14 13:53	
Vinyl chloride	ug/L	ND	1.0	01/06/14 13:53	
Xylene (Total)	ug/L	ND	3.0	01/06/14 13:53	N2
1,2-Dichloroethane-d4 (S)	%	103	80-120	01/06/14 13:53	
4-Bromofluorobenzene (S)	%	97	80-120	01/06/14 13:53	
Toluene-d8 (S)	%	104	80-120	01/06/14 13:53	

LABORATORY CONTROL SAMPLE: 1314408

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.7	103	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	20.4	102	59-138	N2
1,1,2-Trichloroethane	ug/L	20	20.5	102	69-127	
1,2-Dichloroethane	ug/L	20	20.0	100	71-129	
1,4-Dichlorobenzene	ug/L	20	20.6	103	68-124	
Acetone	ug/L	100	83.0	83	40-160	N2
Benzene	ug/L	20	21.1	106	73-129	
Bromodichloromethane	ug/L	20	21.0	105	63-129	
Bromoform	ug/L	20	20.8	104	52-123	
Bromomethane	ug/L	20	19.1	96	10-160	
Carbon tetrachloride	ug/L	20	21.4	107	70-140	
Chloroethane	ug/L	20	21.3	107	42-160	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

LABORATORY CONTROL SAMPLE: 1314408

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroform	ug/L	20	21.2	106	60-120	
cis-1,2-Dichloroethene	ug/L	20	21.2	106	70-125	N2
Ethylbenzene	ug/L	20	21.4	107	66-133	
Methylene chloride	ug/L	20	22.4	112	56-135	
Tetrachloroethene	ug/L	20	19.4	97	64-143	
Toluene	ug/L	20	20.9	104	70-130	
trans-1,2-Dichloroethene	ug/L	20	21.4	107	67-149	
Trichloroethene	ug/L	20	22.0	110	71-130	
Vinyl chloride	ug/L	20	18.6	93	41-160	
Xylene (Total)	ug/L	60	61.6	103	67-130	N2
1,2-Dichloroethane-d4 (S)	%			96	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			98	80-120	

MATRIX SPIKE SAMPLE: 1314009

Parameter	Units	60160556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	239000	25000	262000	91	40-160	N2

MATRIX SPIKE SAMPLE: 1314409

Parameter	Units	60160657001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3990	100	52-160	
1,1,2,2-Tetrachloroethane	ug/L	235	4000	3860	91	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4490	112	52-150	
1,2-Dichloroethane	ug/L	ND	4000	4010	100	49-155	
1,4-Dichlorobenzene	ug/L	1290	4000	5100	95	18-147	
Benzene	ug/L	ND	4000	4310	107	37-151	
Bromodichloromethane	ug/L	ND	4000	3780	95	35-155	
Bromoform	ug/L	ND	4000	3930	98	45-133	
Bromomethane	ug/L	ND	4000	3780	94	10-160	
Carbon tetrachloride	ug/L	ND	4000	4340	108	70-140	
Chloroethane	ug/L	ND	4000	3740	94	14-160	
Chloroform	ug/L	ND	4000	3990	100	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3780	94	19-160	N2
Ethylbenzene	ug/L	ND	4000	4080	99	37-154	
Methylene chloride	ug/L	ND	4000	4030	101	15-156	
Tetrachloroethene	ug/L	ND	4000	3800	95	64-148	
Toluene	ug/L	ND	4000	3910	98	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	3930	98	54-156	
Trichloroethene	ug/L	ND	4000	4270	107	71-157	
Vinyl chloride	ug/L	ND	4000	3790	95	10-160	
Xylene (Total)	ug/L	ND	12000	12500	104	12-153	N2
1,2-Dichloroethane-d4 (S)	%				105	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

MATRIX SPIKE SAMPLE: 1314409

Parameter	Units	60160657001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				95	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

QC Batch: MSV/58740 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60160657001

METHOD BLANK: 1314630 | Matrix: Water
Associated Lab Samples: 60160657001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acetone	ug/L	ND	10.0	01/09/14 09:17	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	01/09/14 09:17	
4-Bromofluorobenzene (S)	%	99	80-120	01/09/14 09:17	
Toluene-d8 (S)	%	99	80-120	01/09/14 09:17	

LABORATORY CONTROL SAMPLE: 1314631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	100	96.3	96	40-160	N2
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			97	80-120	
Toluene-d8 (S)	%			96	80-120	

MATRIX SPIKE SAMPLE: 1314409

Parameter	Units	60160657001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	96400	25000	109000	51	40-160	N2

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

QC Batch: OEXT/42162 | Analysis Method: EPA 625
QC Batch Method: EPA 625 | Analysis Description: 625 MSS
Associated Lab Samples: 60160657001

METHOD BLANK: 1314225 | Matrix: Water
Associated Lab Samples: 60160657001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/06/14 10:24	
2,4,6-Trichlorophenol	ug/L	ND	5.0	01/06/14 10:24	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	01/06/14 10:24	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/06/14 10:24	
Hexachlorocyclopentadiene	ug/L	ND	5.0	01/06/14 10:24	
Hexachloroethane	ug/L	ND	5.0	01/06/14 10:24	
Naphthalene	ug/L	ND	5.0	01/06/14 10:24	
Nitrobenzene	ug/L	ND	5.0	01/06/14 10:24	
Pentachlorophenol	ug/L	ND	5.0	01/06/14 10:24	
Phenol	ug/L	ND	5.0	01/06/14 10:24	
2,4,6-Tribromophenol (S)	%	90	39-120	01/06/14 10:24	
2-Fluorobiphenyl (S)	%	90	39-120	01/06/14 10:24	
2-Fluorophenol (S)	%	40	17-120	01/06/14 10:24	
Nitrobenzene-d5 (S)	%	87	33-120	01/06/14 10:24	
Phenol-d6 (S)	%	27	11-120	01/06/14 10:24	
Terphenyl-d14 (S)	%	97	45-120	01/06/14 10:24	

LABORATORY CONTROL SAMPLE: 1314226

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	37.8	76	46-120	
2,4,6-Trichlorophenol	ug/L	50	40.8	82	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	42.0	84	40-133	
Hexachloro-1,3-butadiene	ug/L	50	40.2	80	44-116	
Hexachlorocyclopentadiene	ug/L	100	70.1	70	24-120	
Hexachloroethane	ug/L	50	38.3	77	43-113	
Naphthalene	ug/L	50	40.5	81	48-120	
Nitrobenzene	ug/L	50	40.5	81	48-120	
Pentachlorophenol	ug/L	50	42.4	85	47-120	
Phenol	ug/L	50	15.9	32	16-112	
2,4,6-Tribromophenol (S)	%			95	39-120	
2-Fluorobiphenyl (S)	%			89	39-120	
2-Fluorophenol (S)	%			45	17-120	
Nitrobenzene-d5 (S)	%			85	33-120	
Phenol-d6 (S)	%			31	11-120	
Terphenyl-d14 (S)	%			92	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

MATRIX SPIKE SAMPLE: 1314227

Parameter	Units	60160656001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3260	65	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	3490	70	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	3930	79	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3350	67	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	6130	61	11-120	
Hexachloroethane	ug/L	ND	5000	3180	64	40-113	
Naphthalene	ug/L	ND	5000	3470	69	45-120	
Nitrobenzene	ug/L	ND	5000	3470	69	38-120	
Pentachlorophenol	ug/L	ND	5000	4420	88	43-135	
Phenol	ug/L	ND	5000	1410	25	13-112	
2,4,6-Tribromophenol (S)	%				84	39-120	
2-Fluorobiphenyl (S)	%				73	39-120	
2-Fluorophenol (S)	%				36	17-120	
Nitrobenzene-d5 (S)	%				73	33-120	
Phenol-d6 (S)	%				26	11-120	
Terphenyl-d14 (S)	%				81	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

QC Batch: WET/45527 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60160657001

METHOD BLANK: 1315050 | Matrix: Water
Associated Lab Samples: 60160657001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/08/14 14:53	

LABORATORY CONTROL SAMPLE: 1315051

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.8	100	78-114	

MATRIX SPIKE SAMPLE: 1315052

Parameter	Units	60160656001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	160	170	105	78-114	

SAMPLE DUPLICATE: 1315053

Parameter	Units	60160656001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	1110		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

QC Batch: WET/45543 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 SGT-HEM, TPH
Associated Lab Samples: 60160657001

METHOD BLANK: 1315611 | Matrix: Water
Associated Lab Samples: 60160657001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	01/10/14 06:56	

LABORATORY CONTROL SAMPLE: 1315612

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	19.8	99	64-132	

MATRIX SPIKE SAMPLE: 1315613

Parameter	Units	60160656001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	7.6	80	82.4	93	64-132	

SAMPLE DUPLICATE: 1315614

Parameter	Units	60160657001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	32.9	31.7	4	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

QC Batch: WET/45506 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60160657001

METHOD BLANK: 1314671 | Matrix: Water
Associated Lab Samples: 60160657001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	01/07/14 13:09	

SAMPLE DUPLICATE: 1314672

Parameter	Units	60160588002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	8.0	9.0	12	25	

SAMPLE DUPLICATE: 1314673

Parameter	Units	60160656001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	208	202	3	25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

QC Batch: WET/45500
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 60160657001

SAMPLE DUPLICATE: 1314536

Parameter	Units	60160654001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	8.0	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

QC Batch: WET/45479 | Analysis Method: SM 5210B
QC Batch Method: SM 5210B | Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 60160657001

METHOD BLANK: 1314182 | Matrix: Water
Associated Lab Samples: 60160657001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	01/09/14 09:27	

LABORATORY CONTROL SAMPLE: 1314183

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	203	103	85-115	

SAMPLE DUPLICATE: 1314184

Parameter	Units	60160649001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	391	344	13	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

QC Batch: WETA/27764
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60160657001

METHOD BLANK: 1314836
Matrix: Water
Associated Lab Samples: 60160657001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	01/08/14 11:22	

LABORATORY CONTROL SAMPLE: 1314837

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	106	90-110	

MATRIX SPIKE SAMPLE: 1314838

Parameter	Units	60160556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	768	1000	1980	121	90-110	M1

SAMPLE DUPLICATE: 1314839

Parameter	Units	60160608001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	855	885	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

QC Batch: WETA/27779 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 60160657001

METHOD BLANK: 1315622 | Matrix: Water
Associated Lab Samples: 60160657001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	01/13/14 07:54	

LABORATORY CONTROL SAMPLE: 1315623

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	48.3	97	90-110	

SAMPLE DUPLICATE: 1315625

Parameter	Units	60160690001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	59900	59900	0	25	

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QUALIFIERS

Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-185R
Pace Project No.: 60160657

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60160657001	**316-185R**	EPA 200.7	MPRP/25806	EPA 200.7	ICP/19781
60160657001	**316-185R**	EPA 200.7	MPRP/25802	EPA 200.7	ICP/19783
60160657001	**316-185R**	EPA 245.1	MERP/8053	EPA 245.1	MERC/8009
60160657001	**316-185R**	EPA 245.1	MERP/8054	EPA 245.1	MERC/8010
60160657001	**316-185R**	EPA 625	OEXT/42162	EPA 625	MSSV/13411
60160657001	**316-185R**	EPA 624 Low	MSV/58720		
60160657001	**316-185R**	EPA 624 Low	MSV/58740		
60160657002	**TRIP BLANK**	EPA 624 Low	MSV/58720		
60160657001	**316-185R**	EPA 1664A	WET/45527		
60160657001	**316-185R**	EPA 1664A	WET/45543		
60160657001	**316-185R**	SM 2540D	WET/45506		
60160657001	**316-185R**	SM 4500-H+B	WET/45500		
60160657001	**316-185R**	SM 5210B	WET/45479	SM 5210B	WET/45541
60160657001	**316-185R**	EPA 350.1	WETA/27764		
60160657001	**316-185R**	EPA 410.4	WETA/27779		

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Sample Condition Upon Receipt

WO#: 60160657

60160657

Optional
Proj Due Date:
Proj Name:

Client Name: BOW

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

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☑ None ☐ Other ☑ ZIPLOC

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 3.0

Temperature should be above freezing to 6°C

Date and initials of person examining contents: 12/14/14

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 & signature on COC:	☑Yes	☐No	☐N/A	4.
Samples arrived within holding time:	☑Yes	☐No	☐N/A	5.
Short Hold Time analyses (<72hr):	☑Yes	☐No	☐N/A	6. BOD pH
Rush Turn Around Time requested:	☐Yes	☑No	☐N/A	7.
Sufficient volume:	☑Yes	☐No	☐N/A	8.
Correct containers used:	☑Yes	☐No	☐N/A	
Pace containers used:	☑Yes	☐No	☐N/A	9.
Containers intact:	☑Yes	☐No	☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes	☐No	☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes	☐No	☑N/A	12.
Sample labels match COC:	☑Yes	☐No	☐N/A	
Includes date/time/ID/analyses Matrix: WT				13.
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	Added 2.5 mL HNO3 to BP3N. pH 6.0/4.0 Added 2.0 mL of H2SO4 to BP3S. pH 4.0/1.5
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☑No	☐N/A	14.
Exceptions: VOA coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes	☐No		Initial when completed PV / Lot # of added preservative 12513 12518
Trip Blank present:	☑Yes	☐No	☐N/A	
Pace Trip Blank lot # (if purchased): 093013-3				15.
Headspace in VOA vials (>6mm):	☐Yes	☑No	☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes	☐No	☑N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 1/6/15

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	BARR ENGINEERING	Report To:	ED GALBRAITH/BARR	Attention:	JANET ROLLEN
Address:		Copy To:	SCOTT FEDAK/FEEZOR	Company Name:	REPUBLIC SERVICES
			DANA BAKER/MARGARET TREANOR -BARR	Address:	BRIDGETON, MO 63044
Email To:		Purchase Order No.	PO 3727110	Pace Quote Reference:	130426_7588
Phone:	(816) 285-8410 Fax	Client Project ID:	BRIDGETON LF	Pace Project Manager:	Brown, Angie
Requested Due Date/TAT:	10 Day (Default)	Container Order Number:		Pace Profile #:	6787 LINE 2

Regulatory Agency	
State / Location	
Missouri	

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N: COD EPA 410	pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B		Residual Chlorine (Y/N)	60160657
1	316-185R 2AG4U 1BP3U 3AG1S	OT	G	01/03/14	0930	—	—		14	10	4	1	0	1B	P3S1.5			X	X	X	X	X	X	X	X	X	X	1B	03N	4.0 2BP2U 5D1G4U	001
2	TRIP BLANK								2	2															X						2D1G4U 002
3																															
4																															
5																															
6																														METALS LIST total & LF Dis:	
7																														Al,Sb,As,Be,Cd,Cr,	
8																														Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn	
9																														and Mercury	
10																															
11																															
12																															

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	Paul Linsler/FED	01-03-14	3:00PM	Margaret A. Martin	01-03-14	3:00PM				
SITE ADDRESS: BRIDGETON LF				PASE	1/4/14	0110	3-0	Y	Y	Y
13570 ST. CHARLES ROCK RD										
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	John Powell					
SIGNATURE of SAMPLER:		DATE Signed: 01-03-14				

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January 28, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 265
Pace Project No.: 60160680

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 04, 2014. 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.

Amended report, REV-1 on 1/27/14 to add additional compounds to 8260 and 8270.

Amended report, REV-2 on 1/28/14 to add additional iodomethane.

Amended report, REV-3 on 1/28/14 to remove TBA.

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

Sincerely,

Mary Jane Walls for
Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 265
Pace Project No.: 60160680

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 265
Pace Project No.: 60160680

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60160680001	**265 SUBPART AA**	Water	01/02/14 12:30	01/04/14 01:10
60160680002	**265 SUBPART CC1/4**	Water	01/02/14 11:30	01/04/14 01:10
60160680003	**265 SUBPART CC2/4**	Water	01/02/14 11:45	01/04/14 01:10
60160680004	**265 SUBPART CC3/4**	Water	01/02/14 12:00	01/04/14 01:10
60160680005	**265 SUBPART CC4/4**	Water	01/02/14 12:15	01/04/14 01:10
60160680006	**TCLP 1-2-14**	Water	01/02/14 11:00	01/04/14 01:10
60160680007	**TRIP BLANK**	Water	01/02/14 08:00	01/04/14 01:10

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 265
Pace Project No.: 60160680

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60160680001	**265 SUBPART AA**	EPA 9060	JMC	5
60160680002	**265 SUBPART CC1/4**	EPA 8270	JMT	74
		EPA 5030B/8260	PRG	79
60160680003	**265 SUBPART CC2/4**	EPA 8270	JMT	74
		EPA 5030B/8260	PRG	79
60160680004	**265 SUBPART CC3/4**	EPA 8270	JMT	74
		EPA 5030B/8260	PRG	79
60160680005	**265 SUBPART CC4/4**	EPA 8270	JMT	74
		EPA 5030B/8260	PRG	79
60160680006	**TCLP 1-2-14**	EPA 8260	PRG	13
		EPA 5030B/8260	PRG	28
		EPA 1664A	DJR	1
		SM 2540B	JML	1
60160680007	**TRIP BLANK**	EPA 5030B/8260	PRG	69

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ANALYTICAL RESULTS

Project: BRIDGETON LF 265
Pace Project No.: 60160680

Sample: 265 SUBPART AA **Lab ID: 60160680001** Collected: 01/02/14 12:30 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon	Analytical Method: EPA 9060							
Mean Total Organic Carbon	**13300**	mg/L	1000	1000		01/14/14 11:15	7440-44-0	
Total Organic Carbon	**13200**	mg/L	1000	1000		01/14/14 11:15	7440-44-0	
Total Organic Carbon	**13300**	mg/L	1000	1000		01/14/14 11:15	7440-44-0	
Total Organic Carbon	**13400**	mg/L	1000	1000		01/14/14 11:15	7440-44-0	
Total Organic Carbon	**13400**	mg/L	1000	1000		01/14/14 11:15	7440-44-0	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 265
Pace Project No.: 60160680

Sample: 265 SUBPART CC1/4 **Lab ID: 60160680002** Collected: 01/02/14 11:30 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	83-32-9	
Acenaphthylene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	208-96-8	
Anthracene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	120-12-7	
Azobenzene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	103-33-3	
Benzo(a)anthracene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	56-55-3	
Benzo(a)pyrene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	207-08-9	
Benzoic acid	**15300**	ug/L	10000	2	01/07/14 00:00	01/07/14 14:57	65-85-0	
Benzyl alcohol	**5930**	ug/L	4000	2	01/07/14 00:00	01/07/14 14:57	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	101-55-3	
Butylbenzylphthalate	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	85-68-7	
Carbazole	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	4000	2	01/07/14 00:00	01/07/14 14:57	59-50-7	
4-Chloroaniline	ND	ug/L	4000	2	01/07/14 00:00	01/07/14 14:57	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	39638-32-9	
2-Chloronaphthalene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	91-58-7	
2-Chlorophenol	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	7005-72-3	
Chrysene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	53-70-3	
Dibenzofuran	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	4000	2	01/07/14 00:00	01/07/14 14:57	91-94-1	
2,4-Dichlorophenol	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	120-83-2	
Diethylphthalate	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	84-66-2	
2,4-Dimethylphenol	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	105-67-9	
Dimethylphthalate	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	131-11-3	
Di-n-butylphthalate	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 14:57	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 14:57	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	606-20-2	
Di-n-octylphthalate	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	117-81-7	
Fluoranthene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	206-44-0	
Fluorene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	87-68-3	
Hexachlorobenzene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	77-47-4	
Hexachloroethane	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	193-39-5	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 265
Pace Project No.: 60160680

Sample: 265 SUBPART CC1/4 **Lab ID: 60160680002** Collected: 01/02/14 11:30 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	78-59-1	
2-Methylnaphthalene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	95-48-7	
3&4-Methylphenol(m&p Cresol)	**7600**	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57		
Naphthalene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	91-20-3	
2-Nitroaniline	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 14:57	88-74-4	
3-Nitroaniline	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 14:57	99-09-2	
4-Nitroaniline	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 14:57	100-01-6	
Nitrobenzene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	98-95-3	
2-Nitrophenol	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	88-75-5	
4-Nitrophenol	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 14:57	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	86-30-6	
Pentachlorophenol	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 14:57	87-86-5	
Phenanthrene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	85-01-8	
Phenol	**10400**	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	108-95-2	
Pyrene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	129-00-0	
Pyridine	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 14:57	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 14:57	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	127	%	10-135	2	01/07/14 00:00	01/07/14 14:57	4165-60-0	
2-Fluorobiphenyl (S)	82	%	19-124	2	01/07/14 00:00	01/07/14 14:57	321-60-8	
Terphenyl-d14 (S)	81	%	24-131	2	01/07/14 00:00	01/07/14 14:57	1718-51-0	
Phenol-d6 (S)	32	%	10-120	2	01/07/14 00:00	01/07/14 14:57	13127-88-3	
2-Fluorophenol (S)	45	%	13-120	2	01/07/14 00:00	01/07/14 14:57	367-12-4	
2,4,6-Tribromophenol (S)	91	%	29-121	2	01/07/14 00:00	01/07/14 14:57	118-79-6	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	**112000**	ug/L	2000	200		01/07/14 10:59	67-64-1	
Acetonitrile	ND	ug/L	2000	200		01/07/14 10:59	75-05-8	
Acrolein	ND	ug/L	20000	200		01/07/14 10:59	107-02-8	
Acrylonitrile	ND	ug/L	4000	200		01/07/14 10:59	107-13-1	
Benzene	**2000**	ug/L	200	200		01/07/14 10:59	71-43-2	
Bromobenzene	ND	ug/L	200	200		01/07/14 10:59	108-86-1	
Bromochloromethane	ND	ug/L	200	200		01/07/14 10:59	74-97-5	
Bromodichloromethane	ND	ug/L	200	200		01/07/14 10:59	75-27-4	
Bromoform	ND	ug/L	200	200		01/07/14 10:59	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/07/14 10:59	74-83-9	
2-Butanone (MEK)	**77000**	ug/L	2000	200		01/07/14 10:59	78-93-3	
n-Butylbenzene	ND	ug/L	200	200		01/07/14 10:59	104-51-8	
sec-Butylbenzene	ND	ug/L	200	200		01/07/14 10:59	135-98-8	
tert-Butylbenzene	ND	ug/L	200	200		01/07/14 10:59	98-06-6	
Carbon disulfide	ND	ug/L	1000	200		01/07/14 10:59	75-15-0	
Carbon tetrachloride	ND	ug/L	200	200		01/07/14 10:59	56-23-5	
Chlorobenzene	ND	ug/L	200	200		01/07/14 10:59	108-90-7	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 265
Pace Project No.: 60160680

Sample: 265 SUBPART CC1/4 **Lab ID: 60160680002** Collected: 01/02/14 11:30 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chloroethane	ND	ug/L	200	200		01/07/14 10:59	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	2000	200		01/07/14 10:59	110-75-8	
Chloroform	ND	ug/L	200	200		01/07/14 10:59	67-66-3	
Chloromethane	ND	ug/L	200	200		01/07/14 10:59	74-87-3	
2-Chlorotoluene	ND	ug/L	200	200		01/07/14 10:59	95-49-8	
4-Chlorotoluene	ND	ug/L	200	200		01/07/14 10:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	500	200		01/07/14 10:59	96-12-8	
Dibromochloromethane	ND	ug/L	200	200		01/07/14 10:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	200	200		01/07/14 10:59	106-93-4	
Dibromomethane	ND	ug/L	200	200		01/07/14 10:59	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	200	200		01/07/14 10:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	200	200		01/07/14 10:59	541-73-1	
1,4-Dichlorobenzene	**639**	ug/L	200	200		01/07/14 10:59	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	4000	200		01/07/14 10:59	110-57-6	
Dichlorodifluoromethane	ND	ug/L	200	200		01/07/14 10:59	75-71-8	
1,1-Dichloroethane	ND	ug/L	200	200		01/07/14 10:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	200	200		01/07/14 10:59	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	200	200		01/07/14 10:59	540-59-0	
1,1-Dichloroethene	ND	ug/L	200	200		01/07/14 10:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/07/14 10:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/07/14 10:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	200	200		01/07/14 10:59	78-87-5	
1,3-Dichloropropane	ND	ug/L	200	200		01/07/14 10:59	142-28-9	
2,2-Dichloropropane	ND	ug/L	200	200		01/07/14 10:59	594-20-7	
1,1-Dichloropropene	ND	ug/L	200	200		01/07/14 10:59	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	200	200		01/07/14 10:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	200	200		01/07/14 10:59	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/L	20000	200		01/07/14 10:59	123-91-1	
Ethylbenzene	**287**	ug/L	200	200		01/07/14 10:59	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	200	200		01/07/14 10:59	87-68-3	
2-Hexanone	**2150**	ug/L	2000	200		01/07/14 10:59	591-78-6	
Iodomethane	ND	ug/L	2000	200		01/07/14 10:59	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	200	200		01/07/14 10:59	98-82-8	
p-Isopropyltoluene	**1170**	ug/L	200	200		01/07/14 10:59	99-87-6	
Methylene chloride	ND	ug/L	200	200		01/07/14 10:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	**3520**	ug/L	2000	200		01/07/14 10:59	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	200	200		01/07/14 10:59	1634-04-4	
Naphthalene	ND	ug/L	2000	200		01/07/14 10:59	91-20-3	
n-Propylbenzene	ND	ug/L	200	200		01/07/14 10:59	103-65-1	
Styrene	ND	ug/L	200	200		01/07/14 10:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	200		01/07/14 10:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		01/07/14 10:59	79-34-5	
Tetrachloroethene	ND	ug/L	200	200		01/07/14 10:59	127-18-4	
Toluene	**374**	ug/L	200	200		01/07/14 10:59	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	200	200		01/07/14 10:59	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	200	200		01/07/14 10:59	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/07/14 10:59	71-55-6	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 265
Pace Project No.: 60160680

Sample: 265 SUBPART CC1/4 **Lab ID: 60160680002** Collected: 01/02/14 11:30 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,1,2-Trichloroethane	**577**	ug/L	200	200		01/07/14 10:59	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/07/14 10:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	200	200		01/07/14 10:59	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	500	200		01/07/14 10:59	96-18-4	
1,2,4-Trimethylbenzene	**494**	ug/L	200	200		01/07/14 10:59	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	200	200		01/07/14 10:59	108-67-8	
Vinyl acetate	ND	ug/L	4000	200		01/07/14 10:59	108-05-4	
Vinyl chloride	ND	ug/L	200	200		01/07/14 10:59	75-01-4	
Xylene (Total)	**945**	ug/L	600	200		01/07/14 10:59	1330-20-7	
m&p-Xylene	**624**	ug/L	400	200		01/07/14 10:59	179601-23-1	
o-Xylene	**321**	ug/L	200	200		01/07/14 10:59	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	95	%	80-120	200		01/07/14 10:59	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	80-120	200		01/07/14 10:59	17060-07-0	
Toluene-d8 (S)	92	%	80-120	200		01/07/14 10:59	2037-26-5	
Preservation pH	**6.0**		0.10	200		01/07/14 10:59		pH

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ANALYTICAL RESULTS

Project: BRIDGETON LF 265
Pace Project No.: 60160680

Sample: 265 SUBPART CC2/4 **Lab ID: 60160680003** Collected: 01/02/14 11:45 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	83-32-9	
Acenaphthylene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	208-96-8	
Anthracene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	120-12-7	
Azobenzene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	103-33-3	
Benzo(a)anthracene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	56-55-3	
Benzo(a)pyrene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	207-08-9	
Benzoic acid	**16000**	ug/L	10000	2	01/07/14 00:00	01/07/14 15:18	65-85-0	
Benzyl alcohol	**6600**	ug/L	4000	2	01/07/14 00:00	01/07/14 15:18	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	101-55-3	
Butylbenzylphthalate	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	85-68-7	
Carbazole	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	4000	2	01/07/14 00:00	01/07/14 15:18	59-50-7	
4-Chloroaniline	ND	ug/L	4000	2	01/07/14 00:00	01/07/14 15:18	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	39638-32-9	
2-Chloronaphthalene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	91-58-7	
2-Chlorophenol	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	7005-72-3	
Chrysene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	53-70-3	
Dibenzofuran	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	4000	2	01/07/14 00:00	01/07/14 15:18	91-94-1	
2,4-Dichlorophenol	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	120-83-2	
Diethylphthalate	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	84-66-2	
2,4-Dimethylphenol	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	105-67-9	
Dimethylphthalate	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	131-11-3	
Di-n-butylphthalate	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 15:18	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 15:18	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	606-20-2	
Di-n-octylphthalate	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	117-81-7	
Fluoranthene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	206-44-0	
Fluorene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	87-68-3	
Hexachlorobenzene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	77-47-4	
Hexachloroethane	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	193-39-5	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 265
Pace Project No.: 60160680

Sample: 265 SUBPART CC2/4 **Lab ID: 60160680003** Collected: 01/02/14 11:45 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	78-59-1	
2-Methylnaphthalene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	95-48-7	
3&4-Methylphenol(m&p Cresol)	**8150**	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18		
Naphthalene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	91-20-3	
2-Nitroaniline	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 15:18	88-74-4	
3-Nitroaniline	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 15:18	99-09-2	
4-Nitroaniline	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 15:18	100-01-6	
Nitrobenzene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	98-95-3	
2-Nitrophenol	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	88-75-5	
4-Nitrophenol	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 15:18	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	86-30-6	
Pentachlorophenol	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 15:18	87-86-5	
Phenanthrene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	85-01-8	
Phenol	**11600**	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	108-95-2	
Pyrene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	129-00-0	
Pyridine	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 15:18	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:18	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	133	%	10-135	2	01/07/14 00:00	01/07/14 15:18	4165-60-0	
2-Fluorobiphenyl (S)	85	%	19-124	2	01/07/14 00:00	01/07/14 15:18	321-60-8	
Terphenyl-d14 (S)	83	%	24-131	2	01/07/14 00:00	01/07/14 15:18	1718-51-0	
Phenol-d6 (S)	31	%	10-120	2	01/07/14 00:00	01/07/14 15:18	13127-88-3	
2-Fluorophenol (S)	42	%	13-120	2	01/07/14 00:00	01/07/14 15:18	367-12-4	
2,4,6-Tribromophenol (S)	93	%	29-121	2	01/07/14 00:00	01/07/14 15:18	118-79-6	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	**108000**	ug/L	2000	200		01/07/14 11:13	67-64-1	
Acetonitrile	ND	ug/L	2000	200		01/07/14 11:13	75-05-8	
Acrolein	ND	ug/L	20000	200		01/07/14 11:13	107-02-8	
Acrylonitrile	ND	ug/L	4000	200		01/07/14 11:13	107-13-1	
Benzene	**1980**	ug/L	200	200		01/07/14 11:13	71-43-2	
Bromobenzene	ND	ug/L	200	200		01/07/14 11:13	108-86-1	
Bromochloromethane	ND	ug/L	200	200		01/07/14 11:13	74-97-5	
Bromodichloromethane	ND	ug/L	200	200		01/07/14 11:13	75-27-4	
Bromoform	ND	ug/L	200	200		01/07/14 11:13	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/07/14 11:13	74-83-9	
2-Butanone (MEK)	**78900**	ug/L	2000	200		01/07/14 11:13	78-93-3	
n-Butylbenzene	ND	ug/L	200	200		01/07/14 11:13	104-51-8	
sec-Butylbenzene	ND	ug/L	200	200		01/07/14 11:13	135-98-8	
tert-Butylbenzene	ND	ug/L	200	200		01/07/14 11:13	98-06-6	
Carbon disulfide	ND	ug/L	1000	200		01/07/14 11:13	75-15-0	
Carbon tetrachloride	ND	ug/L	200	200		01/07/14 11:13	56-23-5	
Chlorobenzene	ND	ug/L	200	200		01/07/14 11:13	108-90-7	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 265
Pace Project No.: 60160680

Sample: 265 SUBPART CC2/4 **Lab ID: 60160680003** Collected: 01/02/14 11:45 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chloroethane	ND	ug/L	200	200		01/07/14 11:13	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	2000	200		01/07/14 11:13	110-75-8	
Chloroform	ND	ug/L	200	200		01/07/14 11:13	67-66-3	
Chloromethane	ND	ug/L	200	200		01/07/14 11:13	74-87-3	
2-Chlorotoluene	ND	ug/L	200	200		01/07/14 11:13	95-49-8	
4-Chlorotoluene	ND	ug/L	200	200		01/07/14 11:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	500	200		01/07/14 11:13	96-12-8	
Dibromochloromethane	ND	ug/L	200	200		01/07/14 11:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	200	200		01/07/14 11:13	106-93-4	
Dibromomethane	ND	ug/L	200	200		01/07/14 11:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	200	200		01/07/14 11:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	200	200		01/07/14 11:13	541-73-1	
1,4-Dichlorobenzene	**687**	ug/L	200	200		01/07/14 11:13	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	4000	200		01/07/14 11:13	110-57-6	
Dichlorodifluoromethane	ND	ug/L	200	200		01/07/14 11:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	200	200		01/07/14 11:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	200	200		01/07/14 11:13	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	200	200		01/07/14 11:13	540-59-0	
1,1-Dichloroethene	ND	ug/L	200	200		01/07/14 11:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/07/14 11:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/07/14 11:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	200	200		01/07/14 11:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	200	200		01/07/14 11:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	200	200		01/07/14 11:13	594-20-7	
1,1-Dichloropropene	ND	ug/L	200	200		01/07/14 11:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	200	200		01/07/14 11:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	200	200		01/07/14 11:13	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/L	20000	200		01/07/14 11:13	123-91-1	
Ethylbenzene	**283**	ug/L	200	200		01/07/14 11:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	200	200		01/07/14 11:13	87-68-3	
2-Hexanone	**2120**	ug/L	2000	200		01/07/14 11:13	591-78-6	
Iodomethane	ND	ug/L	2000	200		01/07/14 11:13	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	200	200		01/07/14 11:13	98-82-8	
p-Isopropyltoluene	**1640**	ug/L	200	200		01/07/14 11:13	99-87-6	
Methylene chloride	ND	ug/L	200	200		01/07/14 11:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	**3600**	ug/L	2000	200		01/07/14 11:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	200	200		01/07/14 11:13	1634-04-4	
Naphthalene	ND	ug/L	2000	200		01/07/14 11:13	91-20-3	
n-Propylbenzene	ND	ug/L	200	200		01/07/14 11:13	103-65-1	
Styrene	ND	ug/L	200	200		01/07/14 11:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	200		01/07/14 11:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		01/07/14 11:13	79-34-5	
Tetrachloroethene	ND	ug/L	200	200		01/07/14 11:13	127-18-4	
Toluene	**404**	ug/L	200	200		01/07/14 11:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	200	200		01/07/14 11:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	200	200		01/07/14 11:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/07/14 11:13	71-55-6	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 265
Pace Project No.: 60160680

Sample: 265 SUBPART CC2/4 **Lab ID: 60160680003** Collected: 01/02/14 11:45 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,1,2-Trichloroethane	ND	ug/L	200	200		01/07/14 11:13	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/07/14 11:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	200	200		01/07/14 11:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	500	200		01/07/14 11:13	96-18-4	
1,2,4-Trimethylbenzene	**605**	ug/L	200	200		01/07/14 11:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	200	200		01/07/14 11:13	108-67-8	
Vinyl acetate	ND	ug/L	4000	200		01/07/14 11:13	108-05-4	
Vinyl chloride	ND	ug/L	200	200		01/07/14 11:13	75-01-4	
Xylene (Total)	**927**	ug/L	600	200		01/07/14 11:13	1330-20-7	
m&p-Xylene	**614**	ug/L	400	200		01/07/14 11:13	179601-23-1	
o-Xylene	**313**	ug/L	200	200		01/07/14 11:13	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	80-120	200		01/07/14 11:13	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	80-120	200		01/07/14 11:13	17060-07-0	
Toluene-d8 (S)	94	%	80-120	200		01/07/14 11:13	2037-26-5	
Preservation pH	**6.0**		0.10	200		01/07/14 11:13		pH

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ANALYTICAL RESULTS

Project: BRIDGETON LF 265
Pace Project No.: 60160680

Sample: 265 SUBPART CC3/4 **Lab ID: 60160680004** Collected: 01/02/14 12:00 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	83-32-9	
Acenaphthylene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	208-96-8	
Anthracene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	120-12-7	
Azobenzene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	103-33-3	
Benzo(a)anthracene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	56-55-3	
Benzo(a)pyrene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	207-08-9	
Benzoic acid	**18000**	ug/L	10000	2	01/07/14 00:00	01/07/14 15:38	65-85-0	
Benzyl alcohol	**7660**	ug/L	4000	2	01/07/14 00:00	01/07/14 15:38	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	101-55-3	
Butylbenzylphthalate	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	85-68-7	
Carbazole	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	4000	2	01/07/14 00:00	01/07/14 15:38	59-50-7	
4-Chloroaniline	ND	ug/L	4000	2	01/07/14 00:00	01/07/14 15:38	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	39638-32-9	
2-Chloronaphthalene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	91-58-7	
2-Chlorophenol	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	7005-72-3	
Chrysene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	53-70-3	
Dibenzofuran	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	4000	2	01/07/14 00:00	01/07/14 15:38	91-94-1	
2,4-Dichlorophenol	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	120-83-2	
Diethylphthalate	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	84-66-2	
2,4-Dimethylphenol	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	105-67-9	
Dimethylphthalate	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	131-11-3	
Di-n-butylphthalate	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 15:38	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 15:38	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	606-20-2	
Di-n-octylphthalate	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	117-81-7	
Fluoranthene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	206-44-0	
Fluorene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	87-68-3	
Hexachlorobenzene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	77-47-4	
Hexachloroethane	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	193-39-5	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 265
Pace Project No.: 60160680

Sample: 265 SUBPART CC3/4 **Lab ID: 60160680004** Collected: 01/02/14 12:00 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	78-59-1	
2-Methylnaphthalene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	95-48-7	
3&4-Methylphenol(m&p Cresol)	**9460**	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38		
Naphthalene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	91-20-3	
2-Nitroaniline	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 15:38	88-74-4	
3-Nitroaniline	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 15:38	99-09-2	
4-Nitroaniline	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 15:38	100-01-6	
Nitrobenzene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	98-95-3	
2-Nitrophenol	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	88-75-5	
4-Nitrophenol	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 15:38	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	86-30-6	
Pentachlorophenol	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 15:38	87-86-5	
Phenanthrene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	85-01-8	
Phenol	**13100**	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	108-95-2	
Pyrene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	129-00-0	
Pyridine	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 15:38	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:38	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	146	%	10-135	2	01/07/14 00:00	01/07/14 15:38	4165-60-0	S0
2-Fluorobiphenyl (S)	90	%	19-124	2	01/07/14 00:00	01/07/14 15:38	321-60-8	
Terphenyl-d14 (S)	91	%	24-131	2	01/07/14 00:00	01/07/14 15:38	1718-51-0	
Phenol-d6 (S)	49	%	10-120	2	01/07/14 00:00	01/07/14 15:38	13127-88-3	
2-Fluorophenol (S)	48	%	13-120	2	01/07/14 00:00	01/07/14 15:38	367-12-4	
2,4,6-Tribromophenol (S)	98	%	29-121	2	01/07/14 00:00	01/07/14 15:38	118-79-6	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	**120000**	ug/L	2000	200		01/07/14 11:27	67-64-1	
Acetonitrile	ND	ug/L	2000	200		01/07/14 11:27	75-05-8	
Acrolein	ND	ug/L	20000	200		01/07/14 11:27	107-02-8	
Acrylonitrile	ND	ug/L	4000	200		01/07/14 11:27	107-13-1	
Benzene	**2030**	ug/L	200	200		01/07/14 11:27	71-43-2	
Bromobenzene	ND	ug/L	200	200		01/07/14 11:27	108-86-1	
Bromochloromethane	ND	ug/L	200	200		01/07/14 11:27	74-97-5	
Bromodichloromethane	ND	ug/L	200	200		01/07/14 11:27	75-27-4	
Bromoform	ND	ug/L	200	200		01/07/14 11:27	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/07/14 11:27	74-83-9	
2-Butanone (MEK)	**78600**	ug/L	2000	200		01/07/14 11:27	78-93-3	
n-Butylbenzene	ND	ug/L	200	200		01/07/14 11:27	104-51-8	
sec-Butylbenzene	ND	ug/L	200	200		01/07/14 11:27	135-98-8	
tert-Butylbenzene	ND	ug/L	200	200		01/07/14 11:27	98-06-6	
Carbon disulfide	ND	ug/L	1000	200		01/07/14 11:27	75-15-0	
Carbon tetrachloride	ND	ug/L	200	200		01/07/14 11:27	56-23-5	
Chlorobenzene	ND	ug/L	200	200		01/07/14 11:27	108-90-7	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 265
Pace Project No.: 60160680

Sample: 265 SUBPART CC3/4 **Lab ID: 60160680004** Collected: 01/02/14 12:00 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chloroethane	ND	ug/L	200	200		01/07/14 11:27	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	2000	200		01/07/14 11:27	110-75-8	
Chloroform	ND	ug/L	200	200		01/07/14 11:27	67-66-3	
Chloromethane	ND	ug/L	200	200		01/07/14 11:27	74-87-3	
2-Chlorotoluene	ND	ug/L	200	200		01/07/14 11:27	95-49-8	
4-Chlorotoluene	ND	ug/L	200	200		01/07/14 11:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	500	200		01/07/14 11:27	96-12-8	
Dibromochloromethane	ND	ug/L	200	200		01/07/14 11:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	200	200		01/07/14 11:27	106-93-4	
Dibromomethane	ND	ug/L	200	200		01/07/14 11:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	200	200		01/07/14 11:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	200	200		01/07/14 11:27	541-73-1	
1,4-Dichlorobenzene	**850**	ug/L	200	200		01/07/14 11:27	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	4000	200		01/07/14 11:27	110-57-6	
Dichlorodifluoromethane	ND	ug/L	200	200		01/07/14 11:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	200	200		01/07/14 11:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	200	200		01/07/14 11:27	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	200	200		01/07/14 11:27	540-59-0	
1,1-Dichloroethene	ND	ug/L	200	200		01/07/14 11:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/07/14 11:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/07/14 11:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	200	200		01/07/14 11:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	200	200		01/07/14 11:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	200	200		01/07/14 11:27	594-20-7	
1,1-Dichloropropene	ND	ug/L	200	200		01/07/14 11:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	200	200		01/07/14 11:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	200	200		01/07/14 11:27	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/L	20000	200		01/07/14 11:27	123-91-1	
Ethylbenzene	**328**	ug/L	200	200		01/07/14 11:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	200	200		01/07/14 11:27	87-68-3	
2-Hexanone	**2480**	ug/L	2000	200		01/07/14 11:27	591-78-6	
Iodomethane	ND	ug/L	2000	200		01/07/14 11:27	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	200	200		01/07/14 11:27	98-82-8	
p-Isopropyltoluene	**2330**	ug/L	200	200		01/07/14 11:27	99-87-6	
Methylene chloride	ND	ug/L	200	200		01/07/14 11:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	**3730**	ug/L	2000	200		01/07/14 11:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	200	200		01/07/14 11:27	1634-04-4	
Naphthalene	ND	ug/L	2000	200		01/07/14 11:27	91-20-3	
n-Propylbenzene	ND	ug/L	200	200		01/07/14 11:27	103-65-1	
Styrene	ND	ug/L	200	200		01/07/14 11:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	200		01/07/14 11:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		01/07/14 11:27	79-34-5	
Tetrachloroethene	ND	ug/L	200	200		01/07/14 11:27	127-18-4	
Toluene	**432**	ug/L	200	200		01/07/14 11:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	200	200		01/07/14 11:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	200	200		01/07/14 11:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/07/14 11:27	71-55-6	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 265
Pace Project No.: 60160680

Sample: 265 SUBPART CC3/4 **Lab ID: 60160680004** Collected: 01/02/14 12:00 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,1,2-Trichloroethane	**528**	ug/L	200	200		01/07/14 11:27	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/07/14 11:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	200	200		01/07/14 11:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	500	200		01/07/14 11:27	96-18-4	
1,2,4-Trimethylbenzene	**707**	ug/L	200	200		01/07/14 11:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	200	200		01/07/14 11:27	108-67-8	
Vinyl acetate	ND	ug/L	4000	200		01/07/14 11:27	108-05-4	
Vinyl chloride	ND	ug/L	200	200		01/07/14 11:27	75-01-4	
Xylene (Total)	**1170**	ug/L	600	200		01/07/14 11:27	1330-20-7	
m&p-Xylene	**781**	ug/L	400	200		01/07/14 11:27	179601-23-1	
o-Xylene	**385**	ug/L	200	200		01/07/14 11:27	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	96	%	80-120	200		01/07/14 11:27	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	80-120	200		01/07/14 11:27	17060-07-0	
Toluene-d8 (S)	94	%	80-120	200		01/07/14 11:27	2037-26-5	
Preservation pH	**6.0**		0.10	200		01/07/14 11:27		pH

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ANALYTICAL RESULTS

Project: BRIDGETON LF 265
Pace Project No.: 60160680

Sample: 265 SUBPART CC4/4 **Lab ID: 60160680005** Collected: 01/02/14 12:15 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Acenaphthene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	83-32-9	
Acenaphthylene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	208-96-8	
Anthracene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	120-12-7	
Azobenzene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	103-33-3	
Benzo(a)anthracene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	56-55-3	
Benzo(a)pyrene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	207-08-9	
Benzoic acid	**16500**	ug/L	10000	2	01/07/14 00:00	01/07/14 15:59	65-85-0	
Benzyl alcohol	**5980**	ug/L	4000	2	01/07/14 00:00	01/07/14 15:59	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	101-55-3	
Butylbenzylphthalate	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	85-68-7	
Carbazole	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	4000	2	01/07/14 00:00	01/07/14 15:59	59-50-7	
4-Chloroaniline	ND	ug/L	4000	2	01/07/14 00:00	01/07/14 15:59	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	39638-32-9	
2-Chloronaphthalene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	91-58-7	
2-Chlorophenol	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	7005-72-3	
Chrysene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	53-70-3	
Dibenzofuran	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	4000	2	01/07/14 00:00	01/07/14 15:59	91-94-1	
2,4-Dichlorophenol	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	120-83-2	
Diethylphthalate	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	84-66-2	
2,4-Dimethylphenol	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	105-67-9	
Dimethylphthalate	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	131-11-3	
Di-n-butylphthalate	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 15:59	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 15:59	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	606-20-2	
Di-n-octylphthalate	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	117-81-7	
Fluoranthene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	206-44-0	
Fluorene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	87-68-3	
Hexachlorobenzene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	77-47-4	
Hexachloroethane	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	193-39-5	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 265
Pace Project No.: 60160680

Sample: 265 SUBPART CC4/4 **Lab ID: 60160680005** Collected: 01/02/14 12:15 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Isophorone	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	78-59-1	
2-Methylnaphthalene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	95-48-7	
3&4-Methylphenol(m&p Cresol)	**7590**	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59		
Naphthalene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	91-20-3	
2-Nitroaniline	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 15:59	88-74-4	
3-Nitroaniline	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 15:59	99-09-2	
4-Nitroaniline	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 15:59	100-01-6	
Nitrobenzene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	98-95-3	
2-Nitrophenol	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	88-75-5	
4-Nitrophenol	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 15:59	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	86-30-6	
Pentachlorophenol	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 15:59	87-86-5	
Phenanthrene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	85-01-8	
Phenol	**9960**	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	108-95-2	
Pyrene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	129-00-0	
Pyridine	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10000	2	01/07/14 00:00	01/07/14 15:59	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	2000	2	01/07/14 00:00	01/07/14 15:59	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	119	%	10-135	2	01/07/14 00:00	01/07/14 15:59	4165-60-0	
2-Fluorobiphenyl (S)	78	%	19-124	2	01/07/14 00:00	01/07/14 15:59	321-60-8	
Terphenyl-d14 (S)	80	%	24-131	2	01/07/14 00:00	01/07/14 15:59	1718-51-0	
Phenol-d6 (S)	29	%	10-120	2	01/07/14 00:00	01/07/14 15:59	13127-88-3	
2-Fluorophenol (S)	40	%	13-120	2	01/07/14 00:00	01/07/14 15:59	367-12-4	
2,4,6-Tribromophenol (S)	90	%	29-121	2	01/07/14 00:00	01/07/14 15:59	118-79-6	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	**65600**	ug/L	2000	200		01/07/14 11:41	67-64-1	
Acetonitrile	ND	ug/L	2000	200		01/07/14 11:41	75-05-8	
Acrolein	ND	ug/L	20000	200		01/07/14 11:41	107-02-8	
Acrylonitrile	ND	ug/L	4000	200		01/07/14 11:41	107-13-1	
Benzene	ND	ug/L	200	200		01/07/14 11:41	71-43-2	
Bromobenzene	ND	ug/L	200	200		01/07/14 11:41	108-86-1	
Bromochloromethane	ND	ug/L	200	200		01/07/14 11:41	74-97-5	
Bromodichloromethane	ND	ug/L	200	200		01/07/14 11:41	75-27-4	
Bromoform	ND	ug/L	200	200		01/07/14 11:41	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/07/14 11:41	74-83-9	
2-Butanone (MEK)	**42000**	ug/L	2000	200		01/07/14 11:41	78-93-3	
n-Butylbenzene	ND	ug/L	200	200		01/07/14 11:41	104-51-8	
sec-Butylbenzene	ND	ug/L	200	200		01/07/14 11:41	135-98-8	
tert-Butylbenzene	ND	ug/L	200	200		01/07/14 11:41	98-06-6	
Carbon disulfide	ND	ug/L	1000	200		01/07/14 11:41	75-15-0	
Carbon tetrachloride	ND	ug/L	200	200		01/07/14 11:41	56-23-5	
Chlorobenzene	ND	ug/L	200	200		01/07/14 11:41	108-90-7	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 265
Pace Project No.: 60160680

Sample: 265 SUBPART CC4/4 **Lab ID: 60160680005** Collected: 01/02/14 12:15 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Chloroethane	ND	ug/L	200	200		01/07/14 11:41	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	2000	200		01/07/14 11:41	110-75-8	
Chloroform	ND	ug/L	200	200		01/07/14 11:41	67-66-3	
Chloromethane	ND	ug/L	200	200		01/07/14 11:41	74-87-3	
2-Chlorotoluene	ND	ug/L	200	200		01/07/14 11:41	95-49-8	
4-Chlorotoluene	ND	ug/L	200	200		01/07/14 11:41	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	500	200		01/07/14 11:41	96-12-8	
Dibromochloromethane	ND	ug/L	200	200		01/07/14 11:41	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	200	200		01/07/14 11:41	106-93-4	
Dibromomethane	ND	ug/L	200	200		01/07/14 11:41	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	200	200		01/07/14 11:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	200	200		01/07/14 11:41	541-73-1	
1,4-Dichlorobenzene	**242**	ug/L	200	200		01/07/14 11:41	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	4000	200		01/07/14 11:41	110-57-6	
Dichlorodifluoromethane	ND	ug/L	200	200		01/07/14 11:41	75-71-8	
1,1-Dichloroethane	ND	ug/L	200	200		01/07/14 11:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	200	200		01/07/14 11:41	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	200	200		01/07/14 11:41	540-59-0	
1,1-Dichloroethene	ND	ug/L	200	200		01/07/14 11:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/07/14 11:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/07/14 11:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	200	200		01/07/14 11:41	78-87-5	
1,3-Dichloropropane	ND	ug/L	200	200		01/07/14 11:41	142-28-9	
2,2-Dichloropropane	ND	ug/L	200	200		01/07/14 11:41	594-20-7	
1,1-Dichloropropene	ND	ug/L	200	200		01/07/14 11:41	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	200	200		01/07/14 11:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	200	200		01/07/14 11:41	10061-02-6	
1,4-Dioxane (p-Dioxane)	ND	ug/L	20000	200		01/07/14 11:41	123-91-1	
Ethylbenzene	ND	ug/L	200	200		01/07/14 11:41	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	200	200		01/07/14 11:41	87-68-3	
2-Hexanone	ND	ug/L	2000	200		01/07/14 11:41	591-78-6	
Iodomethane	ND	ug/L	2000	200		01/07/14 11:41	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/L	200	200		01/07/14 11:41	98-82-8	
p-Isopropyltoluene	**532**	ug/L	200	200		01/07/14 11:41	99-87-6	
Methylene chloride	ND	ug/L	200	200		01/07/14 11:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2000	200		01/07/14 11:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	200	200		01/07/14 11:41	1634-04-4	
Naphthalene	ND	ug/L	2000	200		01/07/14 11:41	91-20-3	
n-Propylbenzene	ND	ug/L	200	200		01/07/14 11:41	103-65-1	
Styrene	ND	ug/L	200	200		01/07/14 11:41	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	200		01/07/14 11:41	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		01/07/14 11:41	79-34-5	
Tetrachloroethene	ND	ug/L	200	200		01/07/14 11:41	127-18-4	
Toluene	ND	ug/L	200	200		01/07/14 11:41	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	200	200		01/07/14 11:41	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	200	200		01/07/14 11:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/07/14 11:41	71-55-6	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 265
Pace Project No.: 60160680

Sample: 265 SUBPART CC4/4 **Lab ID: 60160680005** Collected: 01/02/14 12:15 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,1,2-Trichloroethane	ND	ug/L	200	200		01/07/14 11:41	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/07/14 11:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	200	200		01/07/14 11:41	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	500	200		01/07/14 11:41	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	200	200		01/07/14 11:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	200	200		01/07/14 11:41	108-67-8	
Vinyl acetate	ND	ug/L	4000	200		01/07/14 11:41	108-05-4	
Vinyl chloride	ND	ug/L	200	200		01/07/14 11:41	75-01-4	
Xylene (Total)	ND	ug/L	600	200		01/07/14 11:41	1330-20-7	
m&p-Xylene	ND	ug/L	400	200		01/07/14 11:41	179601-23-1	
o-Xylene	ND	ug/L	200	200		01/07/14 11:41	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	200		01/07/14 11:41	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	80-120	200		01/07/14 11:41	17060-07-0	
Toluene-d8 (S)	93	%	80-120	200		01/07/14 11:41	2037-26-5	
Preservation pH	**6.0**		0.10	200		01/07/14 11:41		pH

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ANALYTICAL RESULTS

Project: BRIDGETON LF 265
Pace Project No.: 60160680

Sample: TCLP 1-2-14 **Lab ID: 60160680006** Collected: 01/02/14 11:00 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP	Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 01/08/14 00:00							
Benzene	**1150**	ug/L	1000	20		01/08/14 16:03	71-43-2	
2-Butanone (MEK)	**64700**	ug/L	20000	20		01/08/14 16:03	78-93-3	
Carbon tetrachloride	ND	ug/L	1000	20		01/08/14 16:03	56-23-5	
Chlorobenzene	ND	ug/L	1000	20		01/08/14 16:03	108-90-7	
Chloroform	ND	ug/L	4000	20		01/08/14 16:03	67-66-3	
1,2-Dichloroethane	ND	ug/L	1000	20		01/08/14 16:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	1000	20		01/08/14 16:03	75-35-4	
Tetrachloroethene	ND	ug/L	1000	20		01/08/14 16:03	127-18-4	
Trichloroethene	ND	ug/L	1000	20		01/08/14 16:03	79-01-6	
Vinyl chloride	ND	ug/L	400	20		01/08/14 16:03	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	80-120	20		01/08/14 16:03	17060-07-0	
Toluene-d8 (S)	93	%	80-120	20		01/08/14 16:03	2037-26-5	
4-Bromofluorobenzene (S)	101	%	80-120	20		01/08/14 16:03	460-00-4	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	**94400**	ug/L	2000	200		01/07/14 11:55	67-64-1	
Benzene	**1730**	ug/L	200	200		01/07/14 11:55	71-43-2	
Bromodichloromethane	ND	ug/L	200	200		01/07/14 11:55	75-27-4	
Bromoform	ND	ug/L	200	200		01/07/14 11:55	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/07/14 11:55	74-83-9	
2-Butanone (MEK)	**67200**	ug/L	2000	200		01/07/14 11:55	78-93-3	
Carbon tetrachloride	ND	ug/L	200	200		01/07/14 11:55	56-23-5	
Chloroethane	ND	ug/L	200	200		01/07/14 11:55	75-00-3	
Chloroform	ND	ug/L	200	200		01/07/14 11:55	67-66-3	
1,4-Dichlorobenzene	**613**	ug/L	200	200		01/07/14 11:55	106-46-7	
1,2-Dichloroethane	ND	ug/L	200	200		01/07/14 11:55	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/07/14 11:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/07/14 11:55	156-60-5	
Ethylbenzene	**286**	ug/L	200	200		01/07/14 11:55	100-41-4	
Methylene chloride	ND	ug/L	200	200		01/07/14 11:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2990**	ug/L	2000	200		01/07/14 11:55	108-10-1	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		01/07/14 11:55	79-34-5	
Tetrachloroethene	ND	ug/L	200	200		01/07/14 11:55	127-18-4	
Toluene	**343**	ug/L	200	200		01/07/14 11:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/07/14 11:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		01/07/14 11:55	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/07/14 11:55	79-01-6	
Vinyl chloride	ND	ug/L	200	200		01/07/14 11:55	75-01-4	
Xylene (Total)	**886**	ug/L	600	200		01/07/14 11:55	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	96	%	80-120	200		01/07/14 11:55	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	80-120	200		01/07/14 11:55	17060-07-0	
Toluene-d8 (S)	91	%	80-120	200		01/07/14 11:55	2037-26-5	
Preservation pH	**6.0**		0.10	200		01/07/14 11:55		pH

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ANALYTICAL RESULTS

Project: BRIDGETON LF 265
Pace Project No.: 60160680

Sample: TCLP 1-2-14 **Lab ID: 60160680006** Collected: 01/02/14 11:00 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	**1090**	mg/L	5.0	1		01/08/14 14:54		
2540B Total Solids	Analytical Method: SM 2540B							
Total Solids	**51500**	mg/L	5.0	1		01/07/14 12:05		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 265
Pace Project No.: 60160680

Sample: TRIP BLANK **Lab ID: 60160680007** Collected: 01/02/14 08:00 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		01/07/14 09:05	67-64-1	
Benzene	ND	ug/L	1.0	1		01/07/14 09:05	71-43-2	
Bromobenzene	ND	ug/L	1.0	1		01/07/14 09:05	108-86-1	
Bromochloromethane	ND	ug/L	1.0	1		01/07/14 09:05	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	1		01/07/14 09:05	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/07/14 09:05	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/07/14 09:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/07/14 09:05	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	1		01/07/14 09:05	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	1		01/07/14 09:05	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	1		01/07/14 09:05	98-06-6	
Carbon disulfide	ND	ug/L	5.0	1		01/07/14 09:05	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	1		01/07/14 09:05	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		01/07/14 09:05	108-90-7	
Chloroethane	ND	ug/L	1.0	1		01/07/14 09:05	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/07/14 09:05	67-66-3	
Chloromethane	ND	ug/L	1.0	1		01/07/14 09:05	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	1		01/07/14 09:05	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	1		01/07/14 09:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	1		01/07/14 09:05	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	1		01/07/14 09:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	1		01/07/14 09:05	106-93-4	
Dibromomethane	ND	ug/L	1.0	1		01/07/14 09:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		01/07/14 09:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		01/07/14 09:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/07/14 09:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	1		01/07/14 09:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	1		01/07/14 09:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/07/14 09:05	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	1		01/07/14 09:05	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	1		01/07/14 09:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/07/14 09:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/07/14 09:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		01/07/14 09:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	1		01/07/14 09:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	1		01/07/14 09:05	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	1		01/07/14 09:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		01/07/14 09:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		01/07/14 09:05	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		01/07/14 09:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	1		01/07/14 09:05	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		01/07/14 09:05	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		01/07/14 09:05	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	1		01/07/14 09:05	99-87-6	
Methylene chloride	ND	ug/L	1.0	1		01/07/14 09:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/07/14 09:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		01/07/14 09:05	1634-04-4	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 265
Pace Project No.: 60160680

Sample: TRIP BLANK **Lab ID: 60160680007** Collected: 01/02/14 08:00 Received: 01/04/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Naphthalene	ND	ug/L	10.0	1		01/07/14 09:05	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	1		01/07/14 09:05	103-65-1	
Styrene	ND	ug/L	1.0	1		01/07/14 09:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1		01/07/14 09:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/07/14 09:05	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/07/14 09:05	127-18-4	
Toluene	ND	ug/L	1.0	1		01/07/14 09:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1		01/07/14 09:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1		01/07/14 09:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/07/14 09:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/07/14 09:05	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/07/14 09:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		01/07/14 09:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	1		01/07/14 09:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		01/07/14 09:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		01/07/14 09:05	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		01/07/14 09:05	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/07/14 09:05	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	106	%	80-120	1		01/07/14 09:05	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	80-120	1		01/07/14 09:05	17060-07-0	
Toluene-d8 (S)	91	%	80-120	1		01/07/14 09:05	2037-26-5	
Preservation pH	**1.0**		0.10	1		01/07/14 09:05		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 265
Pace Project No.: 60160680

QC Batch: MSV/58760
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 60160680006

METHOD BLANK: 1315023
Matrix: Water
Associated Lab Samples: 60160680006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	01/08/14 14:38	
1,2-Dichloroethane	ug/L	ND	50.0	01/08/14 14:38	
2-Butanone (MEK)	ug/L	ND	1000	01/08/14 14:38	
Benzene	ug/L	ND	50.0	01/08/14 14:38	
Carbon tetrachloride	ug/L	ND	50.0	01/08/14 14:38	
Chlorobenzene	ug/L	ND	50.0	01/08/14 14:38	
Chloroform	ug/L	ND	200	01/08/14 14:38	
Tetrachloroethene	ug/L	ND	50.0	01/08/14 14:38	
Trichloroethene	ug/L	ND	50.0	01/08/14 14:38	
Vinyl chloride	ug/L	ND	20.0	01/08/14 14:38	
1,2-Dichloroethane-d4 (S)	%	105	80-120	01/08/14 14:38	
4-Bromofluorobenzene (S)	%	99	80-120	01/08/14 14:38	
Toluene-d8 (S)	%	100	80-120	01/08/14 14:38	

LABORATORY CONTROL SAMPLE: 1315024

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	200	190	95	70-127	
1,2-Dichloroethane	ug/L	200	197	99	72-122	
2-Butanone (MEK)	ug/L	1000	817J	82	69-124	
Benzene	ug/L	200	203	102	73-122	
Carbon tetrachloride	ug/L	200	201	100	73-125	
Chlorobenzene	ug/L	200	211	105	80-120	
Chloroform	ug/L	200	208	104	76-120	
Tetrachloroethene	ug/L	200	193	96	79-122	
Trichloroethene	ug/L	200	215	107	76-120	
Vinyl chloride	ug/L	200	178	89	57-140	
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			105	80-120	

MATRIX SPIKE SAMPLE: 1315025

Parameter	Units	60160703001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	200	233	117	66-142	
1,2-Dichloroethane	ug/L	ND	200	216	108	53-144	
2-Butanone (MEK)	ug/L	ND	1000	579J	57	54-127	
Benzene	ug/L	ND	200	221	110	48-150	
Carbon tetrachloride	ug/L	ND	200	237	118	68-145	
Chlorobenzene	ug/L	ND	200	207	103	68-131	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 265
Pace Project No.: 60160680

MATRIX SPIKE SAMPLE: 1315025

Parameter	Units	60160703001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloroform	ug/L	ND	200	224	112	69-126	
Tetrachloroethene	ug/L	ND	200	215	107	66-139	
Trichloroethene	ug/L	ND	200	238	119	67-130	
Vinyl chloride	ug/L	ND	200	271	135	47-159	
1,2-Dichloroethane-d4 (S)	%				97	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	
Toluene-d8 (S)	%				103	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 265
Pace Project No.: 60160680

QC Batch: MSV/58735 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60160680002, 60160680003, 60160680004, 60160680005, 60160680006, 60160680007

METHOD BLANK: 1314570 Matrix: Water
Associated Lab Samples: 60160680002, 60160680003, 60160680004, 60160680005, 60160680006, 60160680007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	01/07/14 08:51	
1,1,1-Trichloroethane	ug/L	ND	1.0	01/07/14 08:51	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/07/14 08:51	
1,1,2-Trichloroethane	ug/L	ND	1.0	01/07/14 08:51	
1,1-Dichloroethane	ug/L	ND	1.0	01/07/14 08:51	
1,1-Dichloroethene	ug/L	ND	1.0	01/07/14 08:51	
1,1-Dichloropropene	ug/L	ND	1.0	01/07/14 08:51	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	01/07/14 08:51	
1,2,3-Trichloropropane	ug/L	ND	2.5	01/07/14 08:51	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	01/07/14 08:51	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	01/07/14 08:51	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	01/07/14 08:51	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	01/07/14 08:51	
1,2-Dichlorobenzene	ug/L	ND	1.0	01/07/14 08:51	
1,2-Dichloroethane	ug/L	ND	1.0	01/07/14 08:51	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	01/07/14 08:51	
1,2-Dichloropropane	ug/L	ND	1.0	01/07/14 08:51	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	01/07/14 08:51	
1,3-Dichlorobenzene	ug/L	ND	1.0	01/07/14 08:51	
1,3-Dichloropropane	ug/L	ND	1.0	01/07/14 08:51	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/07/14 08:51	
1,4-Dioxane (p-Dioxane)	ug/L	ND	100	01/07/14 08:51	
2,2-Dichloropropane	ug/L	ND	1.0	01/07/14 08:51	
2-Butanone (MEK)	ug/L	ND	10.0	01/07/14 08:51	
2-Chloroethylvinyl ether	ug/L	ND	10.0	01/07/14 08:51	
2-Chlorotoluene	ug/L	ND	1.0	01/07/14 08:51	
2-Hexanone	ug/L	ND	10.0	01/07/14 08:51	
4-Chlorotoluene	ug/L	ND	1.0	01/07/14 08:51	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/07/14 08:51	
Acetone	ug/L	ND	10.0	01/07/14 08:51	
Acetonitrile	ug/L	ND	10.0	01/07/14 08:51	
Acrolein	ug/L	ND	100	01/07/14 08:51	
Acrylonitrile	ug/L	ND	20.0	01/07/14 08:51	
Benzene	ug/L	ND	1.0	01/07/14 08:51	
Bromobenzene	ug/L	ND	1.0	01/07/14 08:51	
Bromochloromethane	ug/L	ND	1.0	01/07/14 08:51	
Bromodichloromethane	ug/L	ND	1.0	01/07/14 08:51	
Bromoform	ug/L	ND	1.0	01/07/14 08:51	
Bromomethane	ug/L	ND	5.0	01/07/14 08:51	
Carbon disulfide	ug/L	ND	5.0	01/07/14 08:51	
Carbon tetrachloride	ug/L	ND	1.0	01/07/14 08:51	
Chlorobenzene	ug/L	ND	1.0	01/07/14 08:51	
Chloroethane	ug/L	ND	1.0	01/07/14 08:51	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 265
Pace Project No.: 60160680

METHOD BLANK: 1314570 Matrix: Water
Associated Lab Samples: 60160680002, 60160680003, 60160680004, 60160680005, 60160680006, 60160680007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloroform	ug/L	ND	1.0	01/07/14 08:51	
Chloromethane	ug/L	ND	1.0	01/07/14 08:51	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/07/14 08:51	
cis-1,3-Dichloropropene	ug/L	ND	1.0	01/07/14 08:51	
Dibromochloromethane	ug/L	ND	1.0	01/07/14 08:51	
Dibromomethane	ug/L	ND	1.0	01/07/14 08:51	
Dichlorodifluoromethane	ug/L	ND	1.0	01/07/14 08:51	
Ethylbenzene	ug/L	ND	1.0	01/07/14 08:51	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	01/07/14 08:51	
Iodomethane	ug/L	ND	10.0	01/07/14 08:51	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	01/07/14 08:51	
m&p-Xylene	ug/L	ND	2.0	01/07/14 08:51	
Methyl-tert-butyl ether	ug/L	ND	1.0	01/07/14 08:51	
Methylene chloride	ug/L	ND	1.0	01/07/14 08:51	
n-Butylbenzene	ug/L	ND	1.0	01/07/14 08:51	
n-Propylbenzene	ug/L	ND	1.0	01/07/14 08:51	
Naphthalene	ug/L	ND	10.0	01/07/14 08:51	
o-Xylene	ug/L	ND	1.0	01/07/14 08:51	
p-Isopropyltoluene	ug/L	ND	1.0	01/07/14 08:51	
sec-Butylbenzene	ug/L	ND	1.0	01/07/14 08:51	
Styrene	ug/L	ND	1.0	01/07/14 08:51	
tert-Butylbenzene	ug/L	ND	1.0	01/07/14 08:51	
Tetrachloroethene	ug/L	ND	1.0	01/07/14 08:51	
Toluene	ug/L	ND	1.0	01/07/14 08:51	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/07/14 08:51	
trans-1,3-Dichloropropene	ug/L	ND	1.0	01/07/14 08:51	
trans-1,4-Dichloro-2-butene	ug/L	ND	20.0	01/07/14 08:51	
Trichloroethene	ug/L	ND	1.0	01/07/14 08:51	
Trichlorofluoromethane	ug/L	ND	1.0	01/07/14 08:51	
Vinyl acetate	ug/L	ND	20.0	01/07/14 08:51	
Vinyl chloride	ug/L	ND	1.0	01/07/14 08:51	
Xylene (Total)	ug/L	ND	3.0	01/07/14 08:51	
1,2-Dichloroethane-d4 (S)	%	96	80-120	01/07/14 08:51	
4-Bromofluorobenzene (S)	%	96	80-120	01/07/14 08:51	
Toluene-d8 (S)	%	94	80-120	01/07/14 08:51	

LABORATORY CONTROL SAMPLE: 1314571

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.9	99	79-121	
1,1,1-Trichloroethane	ug/L	20	23.0	115	75-124	
1,1,2,2-Tetrachloroethane	ug/L	20	17.2	86	73-120	
1,1,2-Trichloroethane	ug/L	20	19.9	99	76-120	
1,1-Dichloroethane	ug/L	20	21.2	106	73-120	
1,1-Dichloroethene	ug/L	20	22.4	112	70-127	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 265
Pace Project No.: 60160680

LABORATORY CONTROL SAMPLE: 1314571

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloropropene	ug/L	20	22.6	113	79-124	
1,2,3-Trichlorobenzene	ug/L	20	20.5	102	68-130	
1,2,3-Trichloropropane	ug/L	20	17.4	87	72-124	
1,2,4-Trichlorobenzene	ug/L	20	19.7	99	73-125	
1,2,4-Trimethylbenzene	ug/L	20	20.3	101	76-120	
1,2-Dibromo-3-chloropropane	ug/L	20	15.9	80	68-126	
1,2-Dibromoethane (EDB)	ug/L	20	18.4	92	79-121	
1,2-Dichlorobenzene	ug/L	20	18.9	95	79-120	
1,2-Dichloroethane	ug/L	20	23.6	118	72-122	
1,2-Dichloroethene (Total)	ug/L	40	44.2	110	77-120	
1,2-Dichloropropane	ug/L	20	22.4	112	77-120	
1,3,5-Trimethylbenzene	ug/L	20	20.0	100	75-120	
1,3-Dichlorobenzene	ug/L	20	19.8	99	80-120	
1,3-Dichloropropane	ug/L	20	18.8	94	76-120	
1,4-Dichlorobenzene	ug/L	20	19.6	98	80-120	
1,4-Dioxane (p-Dioxane)	ug/L	100	87J	87	40-160	
2,2-Dichloropropane	ug/L	20	23.2	116	52-135	
2-Butanone (MEK)	ug/L	100	84.7	85	69-124	
2-Chloroethylvinyl ether	ug/L	20	20.2	101	47-134	
2-Chlorotoluene	ug/L	20	19.4	97	78-120	
2-Hexanone	ug/L	100	70.7	71	70-125	
4-Chlorotoluene	ug/L	20	18.3	92	80-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	101	101	72-123	
Acetone	ug/L	100	87.1	87	60-126	
Acetonitrile	ug/L	100	93.5	94	60-140	
Acrolein	ug/L	200	215	107	40-160	
Acrylonitrile	ug/L	200	210	105	65-124	
Benzene	ug/L	20	22.3	111	73-122	
Bromobenzene	ug/L	20	18.6	93	79-120	
Bromochloromethane	ug/L	20	20.6	103	76-125	
Bromodichloromethane	ug/L	20	23.5	118	73-120	
Bromoform	ug/L	20	19.9	99	74-120	
Bromomethane	ug/L	20	18.8	94	40-146	
Carbon disulfide	ug/L	20	23.6	118	62-125	
Carbon tetrachloride	ug/L	20	24.3	121	73-125	
Chlorobenzene	ug/L	20	20.7	103	80-120	
Chloroethane	ug/L	20	22.9	114	56-159	
Chloroform	ug/L	20	22.6	113	76-120	
Chloromethane	ug/L	20	14.7	74	40-148	
cis-1,2-Dichloroethene	ug/L	20	20.6	103	69-120	
cis-1,3-Dichloropropene	ug/L	20	23.6	118	76-120	
Dibromochloromethane	ug/L	20	19.5	97	79-121	
Dibromomethane	ug/L	20	22.0	110	77-120	
Dichlorodifluoromethane	ug/L	20	18.6	93	40-141	
Ethylbenzene	ug/L	20	19.1	95	76-123	
Hexachloro-1,3-butadiene	ug/L	20	23.6	118	69-125	
Iodomethane	ug/L	20	19.7	99	40-160	
Isopropylbenzene (Cumene)	ug/L	20	23.4	117	80-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 265
Pace Project No.: 60160680

LABORATORY CONTROL SAMPLE: 1314571

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
m&p-Xylene	ug/L	40	39.6	99	75-124	
Methyl-tert-butyl ether	ug/L	20	21.8	109	67-128	
Methylene chloride	ug/L	20	22.8	114	71-123	
n-Butylbenzene	ug/L	20	19.7	99	77-124	
n-Propylbenzene	ug/L	20	21.6	108	78-120	
Naphthalene	ug/L	20	17.7	89	64-127	
o-Xylene	ug/L	20	19.5	98	77-122	
p-Isopropyltoluene	ug/L	20	19.3	96	78-120	
sec-Butylbenzene	ug/L	20	22.8	114	77-122	
Styrene	ug/L	20	20.5	102	79-120	
tert-Butylbenzene	ug/L	20	20.8	104	76-123	
Tetrachloroethene	ug/L	20	19.0	95	79-122	
Toluene	ug/L	20	19.3	97	76-122	
trans-1,2-Dichloroethene	ug/L	20	23.5	118	78-126	
trans-1,3-Dichloropropene	ug/L	20	18.9	95	79-124	
trans-1,4-Dichloro-2-butene	ug/L	20	19.5J	98	73-132	
Trichloroethene	ug/L	20	22.0	110	76-120	
Trichlorofluoromethane	ug/L	20	22.7	114	69-133	
Vinyl acetate	ug/L	20	21.5	107	62-160	
Vinyl chloride	ug/L	20	19.9	99	57-140	
Xylene (Total)	ug/L	60	59.1	99	76-122	
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			96	80-120	
Toluene-d8 (S)	%			91	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 265
Pace Project No.: 60160680

QC Batch: OEXT/42171 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV
Associated Lab Samples: 60160680002, 60160680003, 60160680004, 60160680005

METHOD BLANK: 1314542 Matrix: Water
Associated Lab Samples: 60160680002, 60160680003, 60160680004, 60160680005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	01/07/14 14:16	
1,2-Dichlorobenzene	ug/L	ND	10.0	01/07/14 14:16	
1,3-Dichlorobenzene	ug/L	ND	10.0	01/07/14 14:16	
1,4-Dichlorobenzene	ug/L	ND	10.0	01/07/14 14:16	
2,4,5-Trichlorophenol	ug/L	ND	50.0	01/07/14 14:16	
2,4,6-Trichlorophenol	ug/L	ND	10.0	01/07/14 14:16	
2,4-Dichlorophenol	ug/L	ND	10.0	01/07/14 14:16	
2,4-Dimethylphenol	ug/L	ND	10.0	01/07/14 14:16	
2,4-Dinitrophenol	ug/L	ND	50.0	01/07/14 14:16	
2,4-Dinitrotoluene	ug/L	ND	10.0	01/07/14 14:16	
2,6-Dinitrotoluene	ug/L	ND	10.0	01/07/14 14:16	
2-Chloronaphthalene	ug/L	ND	10.0	01/07/14 14:16	
2-Chlorophenol	ug/L	ND	10.0	01/07/14 14:16	
2-Methylnaphthalene	ug/L	ND	10.0	01/07/14 14:16	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	01/07/14 14:16	
2-Nitroaniline	ug/L	ND	50.0	01/07/14 14:16	
2-Nitrophenol	ug/L	ND	10.0	01/07/14 14:16	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	01/07/14 14:16	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	01/07/14 14:16	
3-Nitroaniline	ug/L	ND	50.0	01/07/14 14:16	
4,6-Dinitro-2-methylphenol	ug/L	ND	50.0	01/07/14 14:16	
4-Bromophenylphenyl ether	ug/L	ND	10.0	01/07/14 14:16	
4-Chloro-3-methylphenol	ug/L	ND	20.0	01/07/14 14:16	
4-Chloroaniline	ug/L	ND	20.0	01/07/14 14:16	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	01/07/14 14:16	
4-Nitroaniline	ug/L	ND	50.0	01/07/14 14:16	
4-Nitrophenol	ug/L	ND	50.0	01/07/14 14:16	
Acenaphthene	ug/L	ND	10.0	01/07/14 14:16	
Acenaphthylene	ug/L	ND	10.0	01/07/14 14:16	
Anthracene	ug/L	ND	10.0	01/07/14 14:16	
Azobenzene	ug/L	ND	10.0	01/07/14 14:16	
Benzo(a)anthracene	ug/L	ND	10.0	01/07/14 14:16	
Benzo(a)pyrene	ug/L	ND	10.0	01/07/14 14:16	
Benzo(b)fluoranthene	ug/L	ND	10.0	01/07/14 14:16	
Benzo(g,h,i)perylene	ug/L	ND	10.0	01/07/14 14:16	
Benzo(k)fluoranthene	ug/L	ND	10.0	01/07/14 14:16	
Benzoic acid	ug/L	ND	50.0	01/07/14 14:16	
Benzyl alcohol	ug/L	ND	20.0	01/07/14 14:16	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	01/07/14 14:16	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	01/07/14 14:16	
bis(2-Chloroisopropyl) ether	ug/L	ND	10.0	01/07/14 14:16	
bis(2-Ethylhexyl)phthalate	ug/L	ND	10.0	01/07/14 14:16	
Butylbenzylphthalate	ug/L	ND	10.0	01/07/14 14:16	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 265
Pace Project No.: 60160680

METHOD BLANK: 1314542 Matrix: Water
Associated Lab Samples: 60160680002, 60160680003, 60160680004, 60160680005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Carbazole	ug/L	ND	10.0	01/07/14 14:16	
Chrysene	ug/L	ND	10.0	01/07/14 14:16	
Di-n-butylphthalate	ug/L	ND	10.0	01/07/14 14:16	
Di-n-octylphthalate	ug/L	ND	10.0	01/07/14 14:16	
Dibenz(a,h)anthracene	ug/L	ND	10.0	01/07/14 14:16	
Dibenzofuran	ug/L	ND	10.0	01/07/14 14:16	
Diethylphthalate	ug/L	ND	10.0	01/07/14 14:16	
Dimethylphthalate	ug/L	ND	10.0	01/07/14 14:16	
Fluoranthene	ug/L	ND	10.0	01/07/14 14:16	
Fluorene	ug/L	ND	10.0	01/07/14 14:16	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	01/07/14 14:16	
Hexachlorobenzene	ug/L	ND	10.0	01/07/14 14:16	
Hexachlorocyclopentadiene	ug/L	ND	10.0	01/07/14 14:16	
Hexachloroethane	ug/L	ND	10.0	01/07/14 14:16	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	01/07/14 14:16	
Isophorone	ug/L	ND	10.0	01/07/14 14:16	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	01/07/14 14:16	
N-Nitrosodiphenylamine	ug/L	ND	10.0	01/07/14 14:16	
Naphthalene	ug/L	ND	10.0	01/07/14 14:16	
Nitrobenzene	ug/L	ND	10.0	01/07/14 14:16	
Pentachlorophenol	ug/L	ND	50.0	01/07/14 14:16	
Phenanthrene	ug/L	ND	10.0	01/07/14 14:16	
Phenol	ug/L	ND	10.0	01/07/14 14:16	
Pyrene	ug/L	ND	10.0	01/07/14 14:16	
Pyridine	ug/L	ND	10.0	01/07/14 14:16	
2,4,6-Tribromophenol (S)	%	89	29-121	01/07/14 14:16	
2-Fluorobiphenyl (S)	%	91	19-124	01/07/14 14:16	
2-Fluorophenol (S)	%	43	13-120	01/07/14 14:16	
Nitrobenzene-d5 (S)	%	88	10-135	01/07/14 14:16	
Phenol-d6 (S)	%	28	10-120	01/07/14 14:16	
Terphenyl-d14 (S)	%	96	24-131	01/07/14 14:16	

LABORATORY CONTROL SAMPLE: 1314543

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	38.2	76	45-120	
1,2-Dichlorobenzene	ug/L	50	37.3	75	45-120	
1,3-Dichlorobenzene	ug/L	50	36.5	73	44-120	
1,4-Dichlorobenzene	ug/L	50	36.5	73	44-120	
2,4,5-Trichlorophenol	ug/L	50	39.1J	78	50-120	
2,4,6-Trichlorophenol	ug/L	50	39.4	79	49-120	
2,4-Dichlorophenol	ug/L	50	37.8	76	48-120	
2,4-Dimethylphenol	ug/L	50	35.9	72	35-120	
2,4-Dinitrophenol	ug/L	50	30.1J	60	21-120	
2,4-Dinitrotoluene	ug/L	50	41.2	82	52-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 265
Pace Project No.: 60160680

LABORATORY CONTROL SAMPLE: 1314543

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,6-Dinitrotoluene	ug/L	50	39.9	80	53-120	
2-Chloronaphthalene	ug/L	50	39.4	79	49-120	
2-Chlorophenol	ug/L	50	35.4	71	47-120	
2-Methylnaphthalene	ug/L	50	38.6	77	46-120	
2-Methylphenol(o-Cresol)	ug/L	50	31.8	64	40-120	
2-Nitroaniline	ug/L	50	39.3J	79	51-120	
2-Nitrophenol	ug/L	50	38.8	78	47-120	
3&4-Methylphenol(m&p Cresol)	ug/L	50	28.9	58	34-120	
3,3'-Dichlorobenzidine	ug/L	50	49.8	100	28-160	
3-Nitroaniline	ug/L	50	44.6J	89	43-157	
4,6-Dinitro-2-methylphenol	ug/L	50	40.7J	81	42-120	
4-Bromophenylphenyl ether	ug/L	50	40.9	82	52-120	
4-Chloro-3-methylphenol	ug/L	50	38.3	77	48-120	
4-Chloroaniline	ug/L	50	42.6	85	24-160	
4-Chlorophenylphenyl ether	ug/L	50	39.6	79	53-120	
4-Nitroaniline	ug/L	50	41.5J	83	50-120	
4-Nitrophenol	ug/L	50	16.6J	33	10-120	
Acenaphthene	ug/L	50	38.9	78	50-120	
Acenaphthylene	ug/L	50	39.7	79	49-120	
Anthracene	ug/L	50	41.3	83	52-120	
Azobenzene	ug/L	50	40.5	81	50-150	
Benzo(a)anthracene	ug/L	50	40.8	82	53-120	
Benzo(a)pyrene	ug/L	50	40.8	82	51-120	
Benzo(b)fluoranthene	ug/L	50	39.6	79	51-120	
Benzo(g,h,i)perylene	ug/L	50	43.4	87	52-120	
Benzo(k)fluoranthene	ug/L	50	43.6	87	51-120	
Benzoic acid	ug/L	50	ND	11	10-120	
Benzyl alcohol	ug/L	50	34.5	69	39-120	
bis(2-Chloroethoxy)methane	ug/L	50	39.6	79	50-120	
bis(2-Chloroethyl) ether	ug/L	50	36.0	72	48-120	
bis(2-Chloroisopropyl) ether	ug/L	50	38.1	76	49-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	41.1	82	52-123	
Butylbenzylphthalate	ug/L	50	41.0	82	52-120	
Carbazole	ug/L	50	41.4	83	55-120	
Chrysene	ug/L	50	41.4	83	53-120	
Di-n-butylphthalate	ug/L	50	41.8	84	49-125	
Di-n-octylphthalate	ug/L	50	40.5	81	51-121	
Dibenz(a,h)anthracene	ug/L	50	42.4	85	51-120	
Dibenzofuran	ug/L	50	40.6	81	51-120	
Diethylphthalate	ug/L	50	40.4	81	53-120	
Dimethylphthalate	ug/L	50	40.2	80	52-120	
Fluoranthene	ug/L	50	42.0	84	53-120	
Fluorene	ug/L	50	40.2	80	52-120	
Hexachloro-1,3-butadiene	ug/L	50	38.5	77	42-120	
Hexachlorobenzene	ug/L	50	41.0	82	52-120	
Hexachlorocyclopentadiene	ug/L	100	61.5	62	26-120	
Hexachloroethane	ug/L	50	36.3	73	43-120	
Indeno(1,2,3-cd)pyrene	ug/L	50	42.6	85	51-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 265
Pace Project No.: 60160680

LABORATORY CONTROL SAMPLE: 1314543

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Isophorone	ug/L	50	39.2	78	50-120	
N-Nitroso-di-n-propylamine	ug/L	50	38.4	77	50-120	
N-Nitrosodiphenylamine	ug/L	50	40.1	80	53-120	
Naphthalene	ug/L	50	38.6	77	48-120	
Nitrobenzene	ug/L	50	39.4	79	47-120	
Pentachlorophenol	ug/L	50	38.8J	78	43-120	
Phenanthrene	ug/L	50	41.7	83	53-120	
Phenol	ug/L	50	15.2	30	12-120	
Pyrene	ug/L	50	41.4	83	54-120	
Pyridine	ug/L	50	9.8J	20	10-120	
2,4,6-Tribromophenol (S)	%			82	29-121	
2-Fluorobiphenyl (S)	%			83	19-124	
2-Fluorophenol (S)	%			42	13-120	
Nitrobenzene-d5 (S)	%			82	10-135	
Phenol-d6 (S)	%			28	10-120	
Terphenyl-d14 (S)	%			82	24-131	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 265
Pace Project No.: 60160680

QC Batch: WET/45527
QC Batch Method: EPA 1664A
Analysis Method: EPA 1664A
Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60160680006

METHOD BLANK: 1315050
Matrix: Water
Associated Lab Samples: 60160680006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/08/14 14:53	

LABORATORY CONTROL SAMPLE: 1315051

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.8	100	78-114	

MATRIX SPIKE SAMPLE: 1315052

Parameter	Units	60160656001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	160	170	105	78-114	

SAMPLE DUPLICATE: 1315053

Parameter	Units	60160656001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	1110		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 265
Pace Project No.: 60160680

QC Batch: WET/45507
QC Batch Method: SM 2540B
Analysis Method: SM 2540B
Analysis Description: 2540B Total Solids
Associated Lab Samples: 60160680006

METHOD BLANK: 1314677
Matrix: Water
Associated Lab Samples: 60160680006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	5.0	01/07/14 12:04	

LABORATORY CONTROL SAMPLE: 1314678

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	1000	982	98	80-120	

SAMPLE DUPLICATE: 1314679

Parameter	Units	60160538001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	17400	16400	6	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 265
Pace Project No.: 60160680

QC Batch: WETA/27805 | Analysis Method: EPA 9060
QC Batch Method: EPA 9060 | Analysis Description: 9060 TOC
Associated Lab Samples: 60160680001

METHOD BLANK: 1316659 | Matrix: Water
Associated Lab Samples: 60160680001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	ND	1.0	01/14/14 09:53	
Total Organic Carbon	mg/L	ND	1.0	01/14/14 09:53	
Total Organic Carbon	mg/L	ND	1.0	01/14/14 09:53	
Total Organic Carbon	mg/L	ND	1.0	01/14/14 09:53	
Total Organic Carbon	mg/L	ND	1.0	01/14/14 09:53	

LABORATORY CONTROL SAMPLE: 1316660

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	5	4.4	89	80-120	
Total Organic Carbon	mg/L	5	4.5	89	80-120	
Total Organic Carbon	mg/L	5	4.4	89	80-120	
Total Organic Carbon	mg/L	5	4.4	88	80-120	
Total Organic Carbon	mg/L	5	4.4	89	80-120	

MATRIX SPIKE SAMPLE: 1316661

Parameter	Units	60160680001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	13300	5000	18200	97	80-120	
Total Organic Carbon	mg/L	13400	5000	18300	98	80-120	
Total Organic Carbon	mg/L	13400	5000	18400	100	80-120	
Total Organic Carbon	mg/L	13200	5000	17800	91	80-120	
Total Organic Carbon	mg/L	13300	5000	18200	99	80-120	

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QUALIFIERS

Project: BRIDGETON LF 265
Pace Project No.: 60160680

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

BATCH QUALIFIERS

Batch: OEXT/42171

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/58735

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

S0 Surrogate recovery outside laboratory control limits.

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 265
Pace Project No.: 60160680

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60160680002	**265 SUBPART CC1/4**	EPA 3510	OEXT/42171	EPA 8270	MSSV/13419
60160680003	**265 SUBPART CC2/4**	EPA 3510	OEXT/42171	EPA 8270	MSSV/13419
60160680004	**265 SUBPART CC3/4**	EPA 3510	OEXT/42171	EPA 8270	MSSV/13419
60160680005	**265 SUBPART CC4/4**	EPA 3510	OEXT/42171	EPA 8270	MSSV/13419
60160680006	**TCLP 1-2-14**	EPA 8260	MSV/58760		
60160680002	**265 SUBPART CC1/4**	EPA 5030B/8260	MSV/58735		
60160680003	**265 SUBPART CC2/4**	EPA 5030B/8260	MSV/58735		
60160680004	**265 SUBPART CC3/4**	EPA 5030B/8260	MSV/58735		
60160680005	**265 SUBPART CC4/4**	EPA 5030B/8260	MSV/58735		
60160680006	**TCLP 1-2-14**	EPA 5030B/8260	MSV/58735		
60160680007	**TRIP BLANK**	EPA 5030B/8260	MSV/58735		
60160680006	**TCLP 1-2-14**	EPA 1664A	WET/45527		
60160680006	**TCLP 1-2-14**	SM 2540B	WET/45507		
60160680001	**265 SUBPART AA**	EPA 9060	WETA/27805		

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Sample Condition Upon Receipt

WO#: 60160680
60160680

Client Name: Barr

Optional
Proj Due Date: 1/13
Proj Name: Bridgeton LF

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

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☑ None ☐ Other ☑ ZPIC

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 5-8/2.4

Temperature should be above freezing to 6°C

Date and initials of person examining contents: 1/14/14

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 & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐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	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☑Yes ☐No ☐N/A	13. Lab to preserve 2 Aliq with H2SO4 for O&G
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased): 112513-3	☑Yes ☐No ☐N/A	15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y N Field Data Required? Y N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: Full 8260/8270 on subpart CC; Bridgeton VOC list on TCLP VOC sample.

Project Manager Review: _____ Date: 1/6/14

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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.

Page : 1 Of 1

Section A — Required Client Information:

Company:	BARR ENGINEERING
Address:	
Email To:	
Phone:	(816) 285-8410 Fax
Requested Due Date/TAT:	10 Day (Default)

Section B — Required Project Information:

Report To:	ED GALBRAITH/BARR
Copy To:	SCOTT FEDAK/FEEZOR
	DANA BAKER/MARGARET TREANOR -BARR
Purchase Order No.	PO 3727110
Client Project ID:	BRIDGETON LF
Container Order Number:	

Section C — Invoice Information:

Attention:	JANET ROLLEN
Company Name:	REPUBLIC SERVICES
Address:	BRIDGETON, MO 63044
Pace Quote Reference:	130426_7588
Pace Project Manager:	Brown, Angie
Pace Profile #:	

Regulatory Agency	
State / Location	Missouri

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique. MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TCLP VOLATILES	% SOLIDS	VOLATILES EPA 8260	SEMI-VOLATILES EPA 8270	ORG lead *	TOC EPA 9060					Residual Chlorine (Y/N)	60160680
1	265 SUBPART AA	OT	G	1/2/14	1230	—	—		2		2													✓	2AG3G					001
2	265 SUBPART CC 1/IV	OT	G	1/2/14	1130	—	—		5	2			3								✓	✓			2AG1U		3DG1H			002
3	265 SUBPART CC II/IV	OT	G	1/2/14	1145	—	—		5	2			3								✓	✓								003
4	265 SUBPART CC III/IV	OT	G	1/2/14	1200	—	—		5	2			3								✓	✓								004
5	265 SUBPART CC IV/IV	OT	G	1/2/14	1215	—	—		5	2			3								✓	✓								005
6	TCLP 1-2-14	OT	G	1/2/14	1400	—	—		7	4			3						✓	✓	✓		✓		4AG1U				* LAB NEEDS TO	006
7	TRIP BLANK	—		—	—	—	—		2				2								✓				2DG4H				PRESERVE w/HCl/SO4	007
8																														
9																														
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	Paul Linsolt / FPI	01-03-14	3:00PM	Donald Graeth	01-03-14	3:00PM				
SITE ADDRESS: BRIDGETON LF				PHSE	1/4/13	0110	5.8	Y	Y	Y
13570 ST. CHARLES ROCK RD							2.4	Y	Y	Y
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	WILLIAM ABERNATHY					
SIGNATURE of SAMPLER:		DATE Signed: 1/3/14				

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January 13, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-186RR
Pace Project No.: 60160690

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 06, 2014. 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,

Angie Brown

Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

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CERTIFICATIONS

Project: BRIDGETON LF 316-186RR
Pace Project No.: 60160690

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-186RR
Pace Project No.: 60160690

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60160690001	**316-186RR**	Water	01/04/14 16:11	01/06/14 13:45
60160690002	**TRIP BLANK**	Water	01/04/14 08:00	01/06/14 13:45

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-186RR
Pace Project No.: 60160690

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60160690001	**316-186RR**	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	16
		EPA 624 Low	PRG	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC	1
		SM 4500-H+B	RAH	1
		SM 5210B	DJR	1
		EPA 350.1	NDL	1
		EPA 410.4	JMC	1
60160690002	**TRIP BLANK**	EPA 624 Low	PRG	28

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-186RR
Pace Project No.: 60160690

Sample: 316-186RR **Lab ID: 60160690001** Collected: 01/04/14 16:11 Received: 01/06/14 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	**6100**	ug/L	375	1	01/07/14 09:30	01/07/14 16:02	7429-90-5	
Antimony	ND	ug/L	50.0	1	01/07/14 09:30	01/07/14 16:02	7440-36-0	
Arsenic	**1000**	ug/L	50.0	1	01/07/14 09:30	01/07/14 16:02	7440-38-2	
Beryllium	ND	ug/L	5.0	1	01/07/14 09:30	01/08/14 11:54	7440-41-7	
Cadmium	ND	ug/L	25.0	1	01/07/14 09:30	01/07/14 16:02	7440-43-9	
Chromium	**275**	ug/L	25.0	1	01/07/14 09:30	01/07/14 16:02	7440-47-3	
Cobalt	ND	ug/L	25.0	1	01/07/14 09:30	01/07/14 16:02	7440-48-4	
Copper	ND	ug/L	50.0	1	01/07/14 09:30	01/07/14 16:02	7440-50-8	D9
Iron	**902000**	ug/L	250	1	01/07/14 09:30	01/07/14 16:02	7439-89-6	
Lead	**118**	ug/L	25.0	1	01/07/14 09:30	01/07/14 16:02	7439-92-1	
Nickel	**106**	ug/L	25.0	1	01/07/14 09:30	01/07/14 16:02	7440-02-0	
Selenium	ND	ug/L	75.0	1	01/07/14 09:30	01/07/14 16:02	7782-49-2	
Silver	ND	ug/L	35.0	1	01/07/14 09:30	01/07/14 16:02	7440-22-4	
Thallium	ND	ug/L	100	1	01/07/14 09:30	01/07/14 16:02	7440-28-0	
Zinc	**10000**	ug/L	500	2	01/07/14 09:30	01/07/14 16:05	7440-66-6	
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	**3890**	ug/L	375	1	01/08/14 15:45	01/09/14 10:45	7429-90-5	
Antimony, Dissolved	**55.8**	ug/L	50.0	1	01/08/14 15:45	01/09/14 10:45	7440-36-0	
Arsenic, Dissolved	**855**	ug/L	50.0	1	01/08/14 15:45	01/09/14 10:45	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	01/08/14 15:45	01/09/14 10:45	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	01/08/14 15:45	01/09/14 10:45	7440-43-9	
Chromium, Dissolved	**241**	ug/L	25.0	1	01/08/14 15:45	01/09/14 10:45	7440-47-3	
Cobalt, Dissolved	ND	ug/L	25.0	1	01/08/14 15:45	01/09/14 10:45	7440-48-4	
Copper, Dissolved	**62.8**	ug/L	50.0	1	01/08/14 15:45	01/09/14 10:45	7440-50-8	
Iron, Dissolved	**706000**	ug/L	250	1	01/08/14 15:45	01/09/14 10:45	7439-89-6	M1
Lead, Dissolved	**82.6**	ug/L	25.0	1	01/08/14 15:45	01/09/14 10:45	7439-92-1	
Nickel, Dissolved	**97.4**	ug/L	25.0	1	01/08/14 15:45	01/09/14 10:45	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	01/08/14 15:45	01/09/14 10:45	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	01/08/14 15:45	01/09/14 10:45	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	01/08/14 15:45	01/09/14 10:45	7440-28-0	
Zinc, Dissolved	**8520**	ug/L	500	2	01/08/14 15:45	01/09/14 10:47	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**8.7**	ug/L	6.0	1	01/07/14 12:00	01/08/14 09:57	7439-97-6	
245.1 Mercury, Dissolved (LF)	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	6.0	1	01/09/14 10:30	01/09/14 14:30	7439-97-6	M1
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	01/07/14 00:00	01/07/14 16:40	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	01/07/14 00:00	01/07/14 16:40	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	01/07/14 00:00	01/07/14 16:40	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	01/07/14 00:00	01/07/14 16:40	67-72-1	
Naphthalene	**1110**	ug/L	1000	2	01/07/14 00:00	01/07/14 16:40	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	01/07/14 00:00	01/07/14 16:40	98-95-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-186RR
Pace Project No.: 60160690

Sample: 316-186RR **Lab ID: 60160690001** Collected: 01/04/14 16:11 Received: 01/06/14 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Pentachlorophenol	ND	ug/L	1000	2	01/07/14 00:00	01/07/14 16:40	87-86-5	
Phenol	**11200**	ug/L	1000	2	01/07/14 00:00	01/07/14 16:40	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	1000	2	01/07/14 00:00	01/07/14 16:40	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	1000	2	01/07/14 00:00	01/07/14 16:40	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	140	%	33-120	2	01/07/14 00:00	01/07/14 16:40	4165-60-0	S0
2-Fluorobiphenyl (S)	94	%	39-120	2	01/07/14 00:00	01/07/14 16:40	321-60-8	
Terphenyl-d14 (S)	94	%	45-120	2	01/07/14 00:00	01/07/14 16:40	1718-51-0	
Phenol-d6 (S)	51	%	11-120	2	01/07/14 00:00	01/07/14 16:40	13127-88-3	
2-Fluorophenol (S)	48	%	17-120	2	01/07/14 00:00	01/07/14 16:40	367-12-4	
2,4,6-Tribromophenol (S)	105	%	39-120	2	01/07/14 00:00	01/07/14 16:40	118-79-6	
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	**122000**	ug/L	2500	250		01/09/14 10:57	67-64-1	N2
Benzene	ND	ug/L	250	250		01/09/14 10:57	71-43-2	
Bromodichloromethane	ND	ug/L	250	250		01/09/14 10:57	75-27-4	
Bromoform	ND	ug/L	250	250		01/09/14 10:57	75-25-2	
Bromomethane	ND	ug/L	1250	250		01/09/14 10:57	74-83-9	
2-Butanone (MEK)	**87000**	ug/L	2500	250		01/09/14 10:57	78-93-3	N2
Carbon tetrachloride	ND	ug/L	250	250		01/09/14 10:57	56-23-5	
Chloroethane	ND	ug/L	250	250		01/09/14 10:57	75-00-3	
Chloroform	ND	ug/L	250	250		01/09/14 10:57	67-66-3	
1,4-Dichlorobenzene	**2190**	ug/L	250	250		01/09/14 10:57	106-46-7	
1,2-Dichloroethane	ND	ug/L	250	250		01/09/14 10:57	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	250	250		01/09/14 10:57	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	250	250		01/09/14 10:57	156-60-5	
Ethylbenzene	ND	ug/L	250	250		01/09/14 10:57	100-41-4	
Methylene chloride	ND	ug/L	250	250		01/09/14 10:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5380**	ug/L	2500	250		01/09/14 10:57	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	250	250		01/09/14 10:57	79-34-5	N2
Tetrachloroethene	ND	ug/L	250	250		01/09/14 10:57	127-18-4	
Toluene	ND	ug/L	250	250		01/09/14 10:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	250	250		01/09/14 10:57	71-55-6	
1,1,2-Trichloroethane	**592**	ug/L	250	250		01/09/14 10:57	79-00-5	
Trichloroethene	ND	ug/L	250	250		01/09/14 10:57	79-01-6	
Vinyl chloride	ND	ug/L	250	250		01/09/14 10:57	75-01-4	
Xylene (Total)	**830**	ug/L	750	250		01/09/14 10:57	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	103	%	80-120	250		01/09/14 10:57	460-00-4	
Toluene-d8 (S)	96	%	80-120	250		01/09/14 10:57	2037-26-5	
1,2-Dichloroethane-d4 (S)	102	%	80-120	250		01/09/14 10:57	17060-07-0	
Preservation pH	**6.0**		1.0	250		01/09/14 10:57		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	**1510**	mg/L	5.0	1		01/08/14 14:54		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-186RR
Pace Project No.: 60160690

Sample: 316-186RR **Lab ID: 60160690001** Collected: 01/04/14 16:11 Received: 01/06/14 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	**49.6**	mg/L	5.0	1		01/10/14 06:57		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**1060**	mg/L	5.0	1		01/08/14 08:50		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**5.5**	Std. Units	0.10	1		01/07/14 14:00		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**30000**	mg/L	2.0	1	01/06/14 14:53	01/11/14 09:14		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**878**	mg/L	50.0	500		01/08/14 11:34	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**59900**	mg/L	5000	500		01/13/14 07:59		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-186RR
Pace Project No.: 60160690

Sample: TRIP BLANK **Lab ID: 60160690002** Collected: 01/04/14 08:00 Received: 01/06/14 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	ND	ug/L	10.0	1		01/09/14 09:46	67-64-1	N2
Benzene	ND	ug/L	1.0	1		01/09/14 09:46	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		01/09/14 09:46	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/09/14 09:46	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/09/14 09:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/09/14 09:46	78-93-3	N2
Carbon tetrachloride	ND	ug/L	1.0	1		01/09/14 09:46	56-23-5	
Chloroethane	ND	ug/L	1.0	1		01/09/14 09:46	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/09/14 09:46	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/09/14 09:46	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/09/14 09:46	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/14 09:46	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/14 09:46	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/09/14 09:46	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		01/09/14 09:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/09/14 09:46	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/09/14 09:46	79-34-5	N2
Tetrachloroethene	ND	ug/L	1.0	1		01/09/14 09:46	127-18-4	
Toluene	ND	ug/L	1.0	1		01/09/14 09:46	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/09/14 09:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/09/14 09:46	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/09/14 09:46	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/09/14 09:46	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/09/14 09:46	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	1		01/09/14 09:46	460-00-4	
Toluene-d8 (S)	94	%	80-120	1		01/09/14 09:46	2037-26-5	
1,2-Dichloroethane-d4 (S)	105	%	80-120	1		01/09/14 09:46	17060-07-0	
Preservation pH	**7.0**		1.0	1		01/09/14 09:46		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-186RR
Pace Project No.: 60160690

QC Batch: MERP/8053 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury
Associated Lab Samples: 60160690001

METHOD BLANK: 1314584 | Matrix: Water
Associated Lab Samples: 60160690001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/08/14 09:41	

LABORATORY CONTROL SAMPLE: 1314585

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.4	87	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314586 1314587

Parameter	Units	60160691001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	150	150	130	137	86	90	70-130	5	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-186RR
Pace Project No.: 60160690

QC Batch: MERP/8059
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60160690001

METHOD BLANK: 1315236
Matrix: Water
Associated Lab Samples: 60160690001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	01/09/14 14:26	

LABORATORY CONTROL SAMPLE: 1315237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.7	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1315238 1315239

Parameter	Units	60160690001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	99.6	106	64	68	70-130	6	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-186RR
Pace Project No.: 60160690

QC Batch: MPRP/25811
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60160690001

METHOD BLANK: 1314621
Matrix: Water
Associated Lab Samples: 60160690001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	01/07/14 15:58	
Antimony	ug/L	ND	10.0	01/07/14 15:58	
Arsenic	ug/L	ND	10.0	01/07/14 15:58	
Beryllium	ug/L	ND	1.0	01/08/14 11:52	
Cadmium	ug/L	ND	5.0	01/07/14 15:58	
Chromium	ug/L	ND	5.0	01/07/14 15:58	
Cobalt	ug/L	ND	5.0	01/07/14 15:58	
Copper	ug/L	ND	10.0	01/07/14 15:58	
Iron	ug/L	ND	50.0	01/07/14 15:58	
Lead	ug/L	ND	5.0	01/07/14 15:58	
Nickel	ug/L	ND	5.0	01/07/14 15:58	
Selenium	ug/L	ND	15.0	01/07/14 15:58	
Silver	ug/L	ND	7.0	01/07/14 15:58	
Thallium	ug/L	ND	20.0	01/07/14 15:58	
Zinc	ug/L	ND	50.0	01/07/14 15:58	

LABORATORY CONTROL SAMPLE: 1314622

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9940	99	85-115	
Antimony	ug/L	1000	1040	104	85-115	
Arsenic	ug/L	1000	984	98	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1020	102	85-115	
Chromium	ug/L	1000	1000	100	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	1000	100	85-115	
Iron	ug/L	10000	10100	101	85-115	
Lead	ug/L	1000	1040	104	85-115	
Nickel	ug/L	1000	1040	104	85-115	
Selenium	ug/L	1000	1030	103	85-115	
Silver	ug/L	500	497	99	85-115	
Thallium	ug/L	1000	1050	105	85-115	
Zinc	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314623 1314624

Parameter	Units	60160627001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	191	10000	10000	10700	10800	105	106	70-130	0	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-186RR
Pace Project No.: 60160690

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314623 1314624

Parameter	Units	60160627001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	1000	1000	1040	1040	104	104	70-130	0	7	
Arsenic	ug/L	ND	1000	1000	1050	1050	105	105	70-130	0	10	
Beryllium	ug/L	ND	1000	1000	1010	1010	101	101	70-130	0	7	
Cadmium	ug/L	ND	1000	1000	1040	1040	104	104	70-130	0	10	
Chromium	ug/L	ND	1000	1000	969	971	97	97	70-130	0	10	
Cobalt	ug/L	ND	1000	1000	954	955	95	95	70-130	0	6	
Copper	ug/L	ND	1000	1000	1020	1020	101	101	70-130	0	11	
Iron	ug/L	436	10000	10000	10100	10100	97	96	70-130	0	10	
Lead	ug/L	ND	1000	1000	932	931	93	93	70-130	0	10	
Nickel	ug/L	21.2	1000	1000	976	976	95	95	70-130	0	10	
Selenium	ug/L	ND	1000	1000	692	728	69	73	70-130	5	10	M1
Silver	ug/L	ND	500	500	526	523	105	105	70-130	1	10	
Thallium	ug/L	ND	1000	1000	851	853	85	85	70-130	0	6	
Zinc	ug/L	ND	1000	1000	947	945	92	92	70-130	0	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-186RR
Pace Project No.: 60160690

QC Batch: MPRP/25828
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60160690001

METHOD BLANK: 1315101
Matrix: Water
Associated Lab Samples: 60160690001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	01/09/14 10:40	
Antimony, Dissolved	ug/L	ND	10.0	01/09/14 10:40	
Arsenic, Dissolved	ug/L	ND	10.0	01/09/14 10:40	
Beryllium, Dissolved	ug/L	ND	1.0	01/09/14 10:40	
Cadmium, Dissolved	ug/L	ND	5.0	01/09/14 10:40	
Chromium, Dissolved	ug/L	ND	5.0	01/09/14 10:40	
Cobalt, Dissolved	ug/L	ND	5.0	01/09/14 10:40	
Copper, Dissolved	ug/L	ND	10.0	01/09/14 10:40	
Iron, Dissolved	ug/L	ND	50.0	01/09/14 10:40	
Lead, Dissolved	ug/L	ND	5.0	01/09/14 10:40	
Nickel, Dissolved	ug/L	ND	5.0	01/09/14 10:40	
Selenium, Dissolved	ug/L	ND	15.0	01/09/14 10:40	
Silver, Dissolved	ug/L	ND	7.0	01/09/14 10:40	
Thallium, Dissolved	ug/L	ND	20.0	01/09/14 10:40	
Zinc, Dissolved	ug/L	ND	50.0	01/09/14 10:40	

LABORATORY CONTROL SAMPLE: 1315102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10100	101	85-115	
Antimony, Dissolved	ug/L	1000	993	99	85-115	
Arsenic, Dissolved	ug/L	1000	913	91	85-115	
Beryllium, Dissolved	ug/L	1000	1010	101	85-115	
Cadmium, Dissolved	ug/L	1000	948	95	85-115	
Chromium, Dissolved	ug/L	1000	1030	103	85-115	
Cobalt, Dissolved	ug/L	1000	980	98	85-115	
Copper, Dissolved	ug/L	1000	1010	101	85-115	
Iron, Dissolved	ug/L	10000	9910	99	85-115	
Lead, Dissolved	ug/L	1000	1010	101	85-115	
Nickel, Dissolved	ug/L	1000	1020	102	85-115	
Selenium, Dissolved	ug/L	1000	976	98	85-115	
Silver, Dissolved	ug/L	500	495	99	85-115	
Thallium, Dissolved	ug/L	1000	985	98	85-115	
Zinc, Dissolved	ug/L	1000	944	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1315103 1315104

Parameter	Units	60160690001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	3890	50000	50000	55200	56100	103	104	70-130	2	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-186RR
Pace Project No.: 60160690

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1315103 1315104

Parameter	Units	60160690001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	55.8	5000	5000	5180	5180	102	103	70-130	0	7	
Arsenic, Dissolved	ug/L	855	5000	5000	5850	5800	100	99	70-130	1	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	4920	5000	98	100	70-130	2	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	4970	4930	99	99	70-130	1	10	
Chromium, Dissolved	ug/L	241	5000	5000	5260	5360	100	102	70-130	2	10	
Cobalt, Dissolved	ug/L	ND	5000	5000	4650	4630	93	92	70-130	0	6	
Copper, Dissolved	ug/L	62.8	5000	5000	5320	5400	105	107	70-130	1	11	
Iron, Dissolved	ug/L	706000	50000	50000	746000	722000	80	32	70-130	3	10	M1
Lead, Dissolved	ug/L	82.6	5000	5000	4570	4620	90	91	70-130	1	10	
Nickel, Dissolved	ug/L	97.4	5000	5000	4820	4840	94	95	70-130	0	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5580	5560	111	110	70-130	1	10	
Silver, Dissolved	ug/L	ND	2500	2500	2640	2700	106	108	70-130	2	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4020	3990	80	80	70-130	1	6	
Zinc, Dissolved	ug/L	8520	5000	5000	12700	12400	83	77	70-130	3	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-186RR
Pace Project No.: 60160690

QC Batch: MSV/58740 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60160690001, 60160690002

METHOD BLANK: 1314630 | Matrix: Water
Associated Lab Samples: 60160690001, 60160690002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/09/14 09:17	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/09/14 09:17	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/09/14 09:17	
1,2-Dichloroethane	ug/L	ND	1.0	01/09/14 09:17	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/09/14 09:17	
2-Butanone (MEK)	ug/L	ND	10.0	01/09/14 09:17	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/09/14 09:17	N2
Acetone	ug/L	ND	10.0	01/09/14 09:17	N2
Benzene	ug/L	ND	1.0	01/09/14 09:17	
Bromodichloromethane	ug/L	ND	1.0	01/09/14 09:17	
Bromoform	ug/L	ND	1.0	01/09/14 09:17	
Bromomethane	ug/L	ND	5.0	01/09/14 09:17	
Carbon tetrachloride	ug/L	ND	1.0	01/09/14 09:17	
Chloroethane	ug/L	ND	1.0	01/09/14 09:17	
Chloroform	ug/L	ND	1.0	01/09/14 09:17	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/09/14 09:17	N2
Ethylbenzene	ug/L	ND	1.0	01/09/14 09:17	
Methylene chloride	ug/L	ND	1.0	01/09/14 09:17	
Tetrachloroethene	ug/L	ND	1.0	01/09/14 09:17	
Toluene	ug/L	ND	1.0	01/09/14 09:17	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/09/14 09:17	
Trichloroethene	ug/L	ND	1.0	01/09/14 09:17	
Vinyl chloride	ug/L	ND	1.0	01/09/14 09:17	
Xylene (Total)	ug/L	ND	3.0	01/09/14 09:17	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	01/09/14 09:17	
4-Bromofluorobenzene (S)	%	99	80-120	01/09/14 09:17	
Toluene-d8 (S)	%	99	80-120	01/09/14 09:17	

LABORATORY CONTROL SAMPLE: 1314631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.1	96	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	18.1	90	59-138	N2
1,1,2-Trichloroethane	ug/L	20	20.7	103	69-127	
1,2-Dichloroethane	ug/L	20	21.4	107	71-129	
1,4-Dichlorobenzene	ug/L	20	19.1	95	68-124	
2-Butanone (MEK)	ug/L	100	89.6	90	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	107	107	61-120	N2
Acetone	ug/L	100	96.3	96	40-160	N2
Benzene	ug/L	20	19.7	98	73-129	
Bromodichloromethane	ug/L	20	21.4	107	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-186RR
Pace Project No.: 60160690

LABORATORY CONTROL SAMPLE: 1314631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.5	102	52-123	
Bromomethane	ug/L	20	22.3	112	10-160	
Carbon tetrachloride	ug/L	20	19.7	99	70-140	
Chloroethane	ug/L	20	17.9	89	42-160	
Chloroform	ug/L	20	20.7	103	60-120	
cis-1,2-Dichloroethene	ug/L	20	18.5	93	70-125	N2
Ethylbenzene	ug/L	20	18.8	94	66-133	
Methylene chloride	ug/L	20	21.2	106	56-135	
Tetrachloroethene	ug/L	20	17.8	89	64-143	
Toluene	ug/L	20	17.9	90	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.9	94	67-149	
Trichloroethene	ug/L	20	20.3	101	71-130	
Vinyl chloride	ug/L	20	18.0	90	41-160	
Xylene (Total)	ug/L	60	55.9	93	67-130	N2
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			97	80-120	
Toluene-d8 (S)	%			96	80-120	

MATRIX SPIKE SAMPLE: 1314409

Parameter	Units	60160657001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	96400	25000	109000	51	40-160	N2
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-186RR
Pace Project No.: 60160690

QC Batch: OEXT/42170 | Analysis Method: EPA 625
QC Batch Method: EPA 625 | Analysis Description: 625 MSS
Associated Lab Samples: 60160690001

METHOD BLANK: 1314539 | Matrix: Water
Associated Lab Samples: 60160690001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/07/14 14:16	
2,4,6-Trichlorophenol	ug/L	ND	5.0	01/07/14 14:16	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	01/07/14 14:16	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/07/14 14:16	
Hexachlorocyclopentadiene	ug/L	ND	5.0	01/07/14 14:16	
Hexachloroethane	ug/L	ND	5.0	01/07/14 14:16	
Naphthalene	ug/L	ND	5.0	01/07/14 14:16	
Nitrobenzene	ug/L	ND	5.0	01/07/14 14:16	
Pentachlorophenol	ug/L	ND	5.0	01/07/14 14:16	
Phenol	ug/L	ND	5.0	01/07/14 14:16	
2,4,6-Tribromophenol (S)	%	90	39-120	01/07/14 14:16	
2-Fluorobiphenyl (S)	%	90	39-120	01/07/14 14:16	
2-Fluorophenol (S)	%	44	17-120	01/07/14 14:16	
Nitrobenzene-d5 (S)	%	89	33-120	01/07/14 14:16	
Phenol-d6 (S)	%	28	11-120	01/07/14 14:16	
Terphenyl-d14 (S)	%	96	45-120	01/07/14 14:16	

LABORATORY CONTROL SAMPLE: 1314540

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	37.9	76	46-120	
2,4,6-Trichlorophenol	ug/L	50	39.8	80	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	43.1	86	40-133	
Hexachloro-1,3-butadiene	ug/L	50	38.4	77	44-116	
Hexachlorocyclopentadiene	ug/L	100	72.7	73	24-120	
Hexachloroethane	ug/L	50	36.4	73	43-113	
Naphthalene	ug/L	50	38.4	77	48-120	
Nitrobenzene	ug/L	50	39.4	79	48-120	
Pentachlorophenol	ug/L	50	41.4	83	47-120	
Phenol	ug/L	50	15.3	31	16-112	
2,4,6-Tribromophenol (S)	%			84	39-120	
2-Fluorobiphenyl (S)	%			82	39-120	
2-Fluorophenol (S)	%			42	17-120	
Nitrobenzene-d5 (S)	%			82	33-120	
Phenol-d6 (S)	%			28	11-120	
Terphenyl-d14 (S)	%			82	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-186RR
Pace Project No.: 60160690

MATRIX SPIKE SAMPLE: 1314541

Parameter	Units	60160690001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3450	69	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4050	81	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	3980J	80	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3340	67	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	6720	67	11-120	
Hexachloroethane	ug/L	ND	5000	3120	62	40-113	
Naphthalene	ug/L	1110	5000	4840	75	45-120	
Nitrobenzene	ug/L	ND	5000	3720	74	38-120	
Pentachlorophenol	ug/L	ND	5000	5100	102	43-135	
Phenol	ug/L	11200	5000	13900	53	13-112	
2,4,6-Tribromophenol (S)	%				93	39-120	
2-Fluorobiphenyl (S)	%				80	39-120	
2-Fluorophenol (S)	%				46	17-120	
Nitrobenzene-d5 (S)	%				130	33-120	S0
Phenol-d6 (S)	%				49	11-120	
Terphenyl-d14 (S)	%				82	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-186RR
Pace Project No.: 60160690

QC Batch: WET/45527 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60160690001

METHOD BLANK: 1315050 | Matrix: Water
Associated Lab Samples: 60160690001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/08/14 14:53	

LABORATORY CONTROL SAMPLE: 1315051

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.8	100	78-114	

MATRIX SPIKE SAMPLE: 1315052

Parameter	Units	60160656001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	160	170	105	78-114	

SAMPLE DUPLICATE: 1315053

Parameter	Units	60160656001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	1110		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-186RR
Pace Project No.: 60160690

QC Batch: WET/45543 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 SGT-HEM, TPH
Associated Lab Samples: 60160690001

METHOD BLANK: 1315611 | Matrix: Water
Associated Lab Samples: 60160690001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	01/10/14 06:56	

LABORATORY CONTROL SAMPLE: 1315612

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	19.8	99	64-132	

MATRIX SPIKE SAMPLE: 1315613

Parameter	Units	60160656001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	7.6	80	82.4	93	64-132	

SAMPLE DUPLICATE: 1315614

Parameter	Units	60160657001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	32.9	31.7	4	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-186RR
Pace Project No.: 60160690

QC Batch: WET/45506 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60160690001

METHOD BLANK: 1314671 | Matrix: Water
Associated Lab Samples: 60160690001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	01/07/14 13:09	

SAMPLE DUPLICATE: 1314672

Parameter	Units	60160588002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	8.0	9.0	12	25	

SAMPLE DUPLICATE: 1314673

Parameter	Units	60160656001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	208	202	3	25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-186RR
Pace Project No.: 60160690

QC Batch: WET/45500
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 60160690001

SAMPLE DUPLICATE: 1314536

Parameter	Units	60160654001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	8.0	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-186RR
Pace Project No.: 60160690

QC Batch: WET/45499 | Analysis Method: SM 5210B
QC Batch Method: SM 5210B | Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 60160690001

METHOD BLANK: 1314468 | Matrix: Water
Associated Lab Samples: 60160690001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	01/11/14 09:03	

LABORATORY CONTROL SAMPLE: 1314469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	174	88	85-115	

SAMPLE DUPLICATE: 1314470

Parameter	Units	60160683002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	314	304	3	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-186RR
Pace Project No.: 60160690

QC Batch: WETA/27764
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60160690001

METHOD BLANK: 1314836
Matrix: Water
Associated Lab Samples: 60160690001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	01/08/14 11:22	

LABORATORY CONTROL SAMPLE: 1314837

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	106	90-110	

MATRIX SPIKE SAMPLE: 1314838

Parameter	Units	60160556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	768	1000	1980	121	90-110	M1

SAMPLE DUPLICATE: 1314839

Parameter	Units	60160608001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	855	885	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-186RR
Pace Project No.: 60160690

QC Batch: WETA/27779 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 60160690001

METHOD BLANK: 1315622 | Matrix: Water
Associated Lab Samples: 60160690001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	01/13/14 07:54	

LABORATORY CONTROL SAMPLE: 1315623

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	48.3	97	90-110	

SAMPLE DUPLICATE: 1315625

Parameter	Units	60160690001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	59900	59900	0	25	

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QUALIFIERS

Project: BRIDGETON LF 316-186RR
Pace Project No.: 60160690

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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

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TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D9	Dissolved result is greater than the total. Data is within laboratory control limits.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-186RR
Pace Project No.: 60160690

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60160690001	**316-186RR**	EPA 200.7	MPRP/25811	EPA 200.7	ICP/19784
60160690001	**316-186RR**	EPA 200.7	MPRP/25828	EPA 200.7	ICP/19791
60160690001	**316-186RR**	EPA 245.1	MERP/8053	EPA 245.1	MERC/8009
60160690001	**316-186RR**	EPA 245.1	MERP/8059	EPA 245.1	MERC/8015
60160690001	**316-186RR**	EPA 625	OEXT/42170	EPA 625	MSSV/13420
60160690001	**316-186RR**	EPA 624 Low	MSV/58740		
60160690002	**TRIP BLANK**	EPA 624 Low	MSV/58740		
60160690001	**316-186RR**	EPA 1664A	WET/45527		
60160690001	**316-186RR**	EPA 1664A	WET/45543		
60160690001	**316-186RR**	SM 2540D	WET/45506		
60160690001	**316-186RR**	SM 4500-H+B	WET/45500		
60160690001	**316-186RR**	SM 5210B	WET/45499	SM 5210B	WET/45572
60160690001	**316-186RR**	EPA 350.1	WETA/27764		
60160690001	**316-186RR**	EPA 410.4	WETA/27779		

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Sample Condition Upon Receipt

WO#: 60160690

60160690

Client Name: Barr Eng.

Optional
Proj Due Date:
Proj Name:

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

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☒

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☒ Bubble Bags ☒ Foam ☐ None ☐ Other ☐

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 1.2

Temperature should be above freezing to 6°C

Date and initials of person examining contents: JWS 1/8/14 1410

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 & signature on COC:	☒Yes	☐No	☐N/A	4.	
Samples arrived within holding time:	☒Yes	☐No	☐N/A	5.	
Short Hold Time analyses (<72hr):	☒Yes	☐No	☐N/A	6.	BOD, pH
Rush Turn Around Time requested:	☐Yes	☒No	☐N/A	7.	
Sufficient volume:	☒Yes	☐No	☐N/A	8.	
Correct containers used:	☒Yes	☐No	☐N/A		
Pace containers used:	☒Yes	☐No	☐N/A	9.	
Containers intact:	☒Yes	☐No	☐N/A	10.	
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes	☐No	☒N/A	11.	
Filtered volume received for dissolved tests?	☐Yes	☐No	☒N/A	12.	
Sample labels match COC: Includes date/time/ID/analyses Matrix: water	☒Yes	☐No	☐N/A	13.	
All containers needing preservation have been checked.	☐Yes	☐No	☒N/A		BOD
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☒N/A	14.	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☒Yes	☐No		Initial when completed: n/a	Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased): Covered	☒Yes	☐No	☐N/A	15.	
Headspace in VOA vials (>6mm):	☐Yes	☒No	☐N/A	16.	
Project sampled in USDA Regulated Area:	☐Yes	☐No	☒N/A	17. List State: MN	

Client Notification/ Resolution: Copy COC to Client? Y (N) Field Data Required? Y (N)

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 1/7/14

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	BARR ENGINEERING	Report To:	ED GALBRAITH/BARR	Attention:	JANET ROLLEN
Address:		Copy To:	SCOTT FEDAK/FEEZOR	Company Name:	REPUBLIC SERVICES
			DANA BAKER/MARGARET TREANOR -BARR	Address:	BRIDGETON, MO 63044
Email To:		Purchase Order No.	PO 3727110	Pace Quote Reference:	130426_7588
Phone:	(816) 285-8410 Fax	Client Project ID:	BRIDGETON LF	Pace Project Manager:	Brown, Angie
Requested Due Date/TAT:	10 Day (Default)	Container Order Number:		Pace Profile #:	6787 LINE 2

Regulatory Agency
State / Location
Missouri

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

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N: COD EPA 410	pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B		Residual Chlorine (Y/N)	6016069
1	316-186RR	OT	G	1/4/14	1611	—	—		5	10	4	1	0					X	X	X	X	X	X	X	X	X	X	X			5(DG9M) 2(AG4U) 2(BG3U) 1(BP3N) 3(AG5U) 1(BP3S)[1.3] 1(BP3N)[1.3]
2	TRIP BLANK	—	—	—	—	—	—		2	2														X							2(DG9M)[TB]
3																															
4																															
5																															
6																															METALS LIST total & LF Dis:
7																															Al,Sb,As,Be,Cd,Cr,
8																															Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn
9																															and Mercury
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299		01-06-13	0905		01-06-13	0905				
SITE ADDRESS: BRIDGETON LF					1/6/14	1345	1-2	Y	Y	Y
13570 ST. CHARLES ROCK RD										
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	WILLIAM ABERNATHY					
SIGNATURE of SAMPLER:		DATE Signed: 1/4/14				

Pace Analytical Services, Inc.
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January 13, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 96-SW2B
Pace Project No.: 60160691

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 06, 2014. 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,

Angie Brown

Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

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CERTIFICATIONS

Project: BRIDGETON LF 96-SW2B
Pace Project No.: 60160691

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 96-SW2B
Pace Project No.: 60160691

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60160691001	**96-SW2B**	Water	01/04/14 16:31	01/06/14 13:45
60160691002	**TRIP BLANK**	Water	01/04/14 08:00	01/06/14 13:45

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 96-SW2B
Pace Project No.: 60160691

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60160691001	**96-SW2B**	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	16
		EPA 624 Low	PRG	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC	1
		SM 4500-H+B	RAH	1
		SM 5210B	DJR	1
		EPA 350.1	NDL	1
		EPA 410.4	JMC	1
60160691002	**TRIP BLANK**	EPA 624 Low	PRG	28

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ANALYTICAL RESULTS

Project: BRIDGETON LF 96-SW2B
Pace Project No.: 60160691

Sample: 96-SW2B **Lab ID: 60160691001** Collected: 01/04/14 16:31 Received: 01/06/14 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	**495000**	ug/L	375	1	01/07/14 09:30	01/07/14 16:07	7429-90-5	
Antimony	ND	ug/L	50.0	1	01/07/14 09:30	01/07/14 16:07	7440-36-0	
Arsenic	**286**	ug/L	50.0	1	01/07/14 09:30	01/07/14 16:07	7440-38-2	
Beryllium	**31.0**	ug/L	5.0	1	01/07/14 09:30	01/08/14 11:56	7440-41-7	
Cadmium	ND	ug/L	25.0	1	01/07/14 09:30	01/07/14 16:07	7440-43-9	
Chromium	**637**	ug/L	25.0	1	01/07/14 09:30	01/07/14 16:07	7440-47-3	
Cobalt	**325**	ug/L	25.0	1	01/07/14 09:30	01/07/14 16:07	7440-48-4	
Copper	**814**	ug/L	50.0	1	01/07/14 09:30	01/07/14 16:07	7440-50-8	
Iron	**717000**	ug/L	250	1	01/07/14 09:30	01/07/14 16:07	7439-89-6	
Lead	**581**	ug/L	25.0	1	01/07/14 09:30	01/07/14 16:07	7439-92-1	
Nickel	**926**	ug/L	25.0	1	01/07/14 09:30	01/07/14 16:07	7440-02-0	
Selenium	ND	ug/L	75.0	1	01/07/14 09:30	01/07/14 16:07	7782-49-2	
Silver	ND	ug/L	35.0	1	01/07/14 09:30	01/07/14 16:07	7440-22-4	
Thallium	ND	ug/L	100	1	01/07/14 09:30	01/07/14 16:07	7440-28-0	
Zinc	**2830**	ug/L	250	1	01/07/14 09:30	01/07/14 16:07	7440-66-6	
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	ND	ug/L	375	1	01/08/14 15:45	01/09/14 11:03	7429-90-5	
Antimony, Dissolved	ND	ug/L	50.0	1	01/08/14 15:45	01/09/14 11:03	7440-36-0	
Arsenic, Dissolved	**109**	ug/L	50.0	1	01/08/14 15:45	01/09/14 11:03	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	01/08/14 15:45	01/09/14 11:03	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	01/08/14 15:45	01/09/14 11:03	7440-43-9	
Chromium, Dissolved	ND	ug/L	25.0	1	01/08/14 15:45	01/09/14 11:03	7440-47-3	
Cobalt, Dissolved	**37.9**	ug/L	25.0	1	01/08/14 15:45	01/09/14 11:03	7440-48-4	
Copper, Dissolved	**61.8**	ug/L	50.0	1	01/08/14 15:45	01/09/14 11:03	7440-50-8	
Iron, Dissolved	**7210**	ug/L	250	1	01/08/14 15:45	01/09/14 11:03	7439-89-6	
Lead, Dissolved	ND	ug/L	25.0	1	01/08/14 15:45	01/09/14 11:03	7439-92-1	
Nickel, Dissolved	**130**	ug/L	25.0	1	01/08/14 15:45	01/09/14 11:03	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	01/08/14 15:45	01/09/14 11:03	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	01/08/14 15:45	01/09/14 11:03	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	01/08/14 15:45	01/09/14 11:03	7440-28-0	
Zinc, Dissolved	ND	ug/L	250	1	01/08/14 15:45	01/09/14 11:03	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	6.0	1	01/07/14 12:00	01/08/14 09:59	7439-97-6	
245.1 Mercury, Dissolved (LF)	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	6.0	1	01/09/14 10:30	01/09/14 14:42	7439-97-6	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	2500	1	01/07/14 00:00	01/07/14 17:01	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	500	1	01/07/14 00:00	01/07/14 17:01	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	500	1	01/07/14 00:00	01/07/14 17:01	77-47-4	
Hexachloroethane	ND	ug/L	500	1	01/07/14 00:00	01/07/14 17:01	67-72-1	
Naphthalene	ND	ug/L	500	1	01/07/14 00:00	01/07/14 17:01	91-20-3	
Nitrobenzene	ND	ug/L	500	1	01/07/14 00:00	01/07/14 17:01	98-95-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 96-SW2B
Pace Project No.: 60160691

Sample: 96-SW2B **Lab ID: 60160691001** Collected: 01/04/14 16:31 Received: 01/06/14 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Pentachlorophenol	ND	ug/L	500	1	01/07/14 00:00	01/07/14 17:01	87-86-5	
Phenol	ND	ug/L	500	1	01/07/14 00:00	01/07/14 17:01	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	500	1	01/07/14 00:00	01/07/14 17:01	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	500	1	01/07/14 00:00	01/07/14 17:01	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	94	%	33-120	1	01/07/14 00:00	01/07/14 17:01	4165-60-0	
2-Fluorobiphenyl (S)	90	%	39-120	1	01/07/14 00:00	01/07/14 17:01	321-60-8	
Terphenyl-d14 (S)	91	%	45-120	1	01/07/14 00:00	01/07/14 17:01	1718-51-0	
Phenol-d6 (S)	37	%	11-120	1	01/07/14 00:00	01/07/14 17:01	13127-88-3	
2-Fluorophenol (S)	52	%	17-120	1	01/07/14 00:00	01/07/14 17:01	367-12-4	
2,4,6-Tribromophenol (S)	99	%	39-120	1	01/07/14 00:00	01/07/14 17:01	118-79-6	
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	**261**	ug/L	10.0	1		01/09/14 11:54	67-64-1	N2
Benzene	**1.8**	ug/L	1.0	1		01/09/14 11:54	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		01/09/14 11:54	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/09/14 11:54	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/09/14 11:54	74-83-9	
2-Butanone (MEK)	**179**	ug/L	10.0	1		01/09/14 11:54	78-93-3	N2
Carbon tetrachloride	ND	ug/L	1.0	1		01/09/14 11:54	56-23-5	
Chloroethane	ND	ug/L	1.0	1		01/09/14 11:54	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/09/14 11:54	67-66-3	
1,4-Dichlorobenzene	**4.5**	ug/L	1.0	1		01/09/14 11:54	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/09/14 11:54	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/14 11:54	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/14 11:54	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/09/14 11:54	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		01/09/14 11:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/09/14 11:54	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/09/14 11:54	79-34-5	N2
Tetrachloroethene	ND	ug/L	1.0	1		01/09/14 11:54	127-18-4	
Toluene	ND	ug/L	1.0	1		01/09/14 11:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/09/14 11:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/09/14 11:54	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/09/14 11:54	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/09/14 11:54	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/09/14 11:54	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	97	%	80-120	1		01/09/14 11:54	460-00-4	
Toluene-d8 (S)	103	%	80-120	1		01/09/14 11:54	2037-26-5	
1,2-Dichloroethane-d4 (S)	103	%	80-120	1		01/09/14 11:54	17060-07-0	
Preservation pH	**7.0**		1.0	1		01/09/14 11:54		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	**6.0**	mg/L	5.0	1		01/08/14 14:54		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 96-SW2B
Pace Project No.: 60160691

Sample: 96-SW2B **Lab ID: 60160691001** Collected: 01/04/14 16:31 Received: 01/06/14 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	**8.4**	mg/L	5.0	1		01/10/14 06:57		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**37700**	mg/L	5.0	1		01/08/14 08:51		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**7.2**	Std. Units	0.10	1		01/07/14 14:00		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	ND	mg/L	6000	1	01/06/14 14:53	01/11/14 09:17		B2
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**2.8**	mg/L	0.10	1		01/08/14 11:51	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**670**	mg/L	100	10		01/13/14 15:51		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 96-SW2B
Pace Project No.: 60160691

Sample: TRIP BLANK **Lab ID: 60160691002** Collected: 01/04/14 08:00 Received: 01/06/14 13:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	ND	ug/L	10.0	1		01/09/14 10:00	67-64-1	N2
Benzene	ND	ug/L	1.0	1		01/09/14 10:00	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		01/09/14 10:00	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/09/14 10:00	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/09/14 10:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/09/14 10:00	78-93-3	N2
Carbon tetrachloride	ND	ug/L	1.0	1		01/09/14 10:00	56-23-5	
Chloroethane	ND	ug/L	1.0	1		01/09/14 10:00	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/09/14 10:00	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/09/14 10:00	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/09/14 10:00	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/14 10:00	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/14 10:00	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/09/14 10:00	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		01/09/14 10:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/09/14 10:00	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/09/14 10:00	79-34-5	N2
Tetrachloroethene	ND	ug/L	1.0	1		01/09/14 10:00	127-18-4	
Toluene	ND	ug/L	1.0	1		01/09/14 10:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/09/14 10:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/09/14 10:00	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/09/14 10:00	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/09/14 10:00	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/09/14 10:00	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	1		01/09/14 10:00	460-00-4	
Toluene-d8 (S)	101	%	80-120	1		01/09/14 10:00	2037-26-5	
1,2-Dichloroethane-d4 (S)	101	%	80-120	1		01/09/14 10:00	17060-07-0	
Preservation pH	**7.0**		1.0	1		01/09/14 10:00		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2B
Pace Project No.: 60160691

QC Batch: MERP/8053
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Associated Lab Samples: 60160691001

METHOD BLANK: 1314584
Matrix: Water
Associated Lab Samples: 60160691001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/08/14 09:41	

LABORATORY CONTROL SAMPLE: 1314585

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.4	87	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314586 1314587

Parameter	Units	60160691001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	150	150	130	137	86	90	70-130	5	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2B
Pace Project No.: 60160691

QC Batch: MERP/8059
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60160691001

METHOD BLANK: 1315236
Matrix: Water
Associated Lab Samples: 60160691001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	01/09/14 14:26	

LABORATORY CONTROL SAMPLE: 1315237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.7	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1315238 1315239

Parameter	Units	60160690001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	99.6	106	64	68	70-130	6	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2B
Pace Project No.: 60160691

QC Batch: MPRP/25811
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60160691001

METHOD BLANK: 1314621
Matrix: Water
Associated Lab Samples: 60160691001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	01/07/14 15:58	
Antimony	ug/L	ND	10.0	01/07/14 15:58	
Arsenic	ug/L	ND	10.0	01/07/14 15:58	
Beryllium	ug/L	ND	1.0	01/08/14 11:52	
Cadmium	ug/L	ND	5.0	01/07/14 15:58	
Chromium	ug/L	ND	5.0	01/07/14 15:58	
Cobalt	ug/L	ND	5.0	01/07/14 15:58	
Copper	ug/L	ND	10.0	01/07/14 15:58	
Iron	ug/L	ND	50.0	01/07/14 15:58	
Lead	ug/L	ND	5.0	01/07/14 15:58	
Nickel	ug/L	ND	5.0	01/07/14 15:58	
Selenium	ug/L	ND	15.0	01/07/14 15:58	
Silver	ug/L	ND	7.0	01/07/14 15:58	
Thallium	ug/L	ND	20.0	01/07/14 15:58	
Zinc	ug/L	ND	50.0	01/07/14 15:58	

LABORATORY CONTROL SAMPLE: 1314622

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9940	99	85-115	
Antimony	ug/L	1000	1040	104	85-115	
Arsenic	ug/L	1000	984	98	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1020	102	85-115	
Chromium	ug/L	1000	1000	100	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	1000	100	85-115	
Iron	ug/L	10000	10100	101	85-115	
Lead	ug/L	1000	1040	104	85-115	
Nickel	ug/L	1000	1040	104	85-115	
Selenium	ug/L	1000	1030	103	85-115	
Silver	ug/L	500	497	99	85-115	
Thallium	ug/L	1000	1050	105	85-115	
Zinc	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314623 1314624

Parameter	Units	60160627001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	191	10000	10000	10700	10800	105	106	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2B
Pace Project No.: 60160691

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1314623 1314624

Parameter	Units	60160627001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	1000	1000	1040	1040	104	104	70-130	0	7	
Arsenic	ug/L	ND	1000	1000	1050	1050	105	105	70-130	0	10	
Beryllium	ug/L	ND	1000	1000	1010	1010	101	101	70-130	0	7	
Cadmium	ug/L	ND	1000	1000	1040	1040	104	104	70-130	0	10	
Chromium	ug/L	ND	1000	1000	969	971	97	97	70-130	0	10	
Cobalt	ug/L	ND	1000	1000	954	955	95	95	70-130	0	6	
Copper	ug/L	ND	1000	1000	1020	1020	101	101	70-130	0	11	
Iron	ug/L	436	10000	10000	10100	10100	97	96	70-130	0	10	
Lead	ug/L	ND	1000	1000	932	931	93	93	70-130	0	10	
Nickel	ug/L	21.2	1000	1000	976	976	95	95	70-130	0	10	
Selenium	ug/L	ND	1000	1000	692	728	69	73	70-130	5	10	M1
Silver	ug/L	ND	500	500	526	523	105	105	70-130	1	10	
Thallium	ug/L	ND	1000	1000	851	853	85	85	70-130	0	6	
Zinc	ug/L	ND	1000	1000	947	945	92	92	70-130	0	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2B
Pace Project No.: 60160691

QC Batch: MPRP/25828
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60160691001

METHOD BLANK: 1315101
Matrix: Water
Associated Lab Samples: 60160691001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	01/09/14 10:40	
Antimony, Dissolved	ug/L	ND	10.0	01/09/14 10:40	
Arsenic, Dissolved	ug/L	ND	10.0	01/09/14 10:40	
Beryllium, Dissolved	ug/L	ND	1.0	01/09/14 10:40	
Cadmium, Dissolved	ug/L	ND	5.0	01/09/14 10:40	
Chromium, Dissolved	ug/L	ND	5.0	01/09/14 10:40	
Cobalt, Dissolved	ug/L	ND	5.0	01/09/14 10:40	
Copper, Dissolved	ug/L	ND	10.0	01/09/14 10:40	
Iron, Dissolved	ug/L	ND	50.0	01/09/14 10:40	
Lead, Dissolved	ug/L	ND	5.0	01/09/14 10:40	
Nickel, Dissolved	ug/L	ND	5.0	01/09/14 10:40	
Selenium, Dissolved	ug/L	ND	15.0	01/09/14 10:40	
Silver, Dissolved	ug/L	ND	7.0	01/09/14 10:40	
Thallium, Dissolved	ug/L	ND	20.0	01/09/14 10:40	
Zinc, Dissolved	ug/L	ND	50.0	01/09/14 10:40	

LABORATORY CONTROL SAMPLE: 1315102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10100	101	85-115	
Antimony, Dissolved	ug/L	1000	993	99	85-115	
Arsenic, Dissolved	ug/L	1000	913	91	85-115	
Beryllium, Dissolved	ug/L	1000	1010	101	85-115	
Cadmium, Dissolved	ug/L	1000	948	95	85-115	
Chromium, Dissolved	ug/L	1000	1030	103	85-115	
Cobalt, Dissolved	ug/L	1000	980	98	85-115	
Copper, Dissolved	ug/L	1000	1010	101	85-115	
Iron, Dissolved	ug/L	10000	9910	99	85-115	
Lead, Dissolved	ug/L	1000	1010	101	85-115	
Nickel, Dissolved	ug/L	1000	1020	102	85-115	
Selenium, Dissolved	ug/L	1000	976	98	85-115	
Silver, Dissolved	ug/L	500	495	99	85-115	
Thallium, Dissolved	ug/L	1000	985	98	85-115	
Zinc, Dissolved	ug/L	1000	944	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1315103 1315104

Parameter	Units	60160690001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	3890	50000	50000	55200	56100	103	104	70-130	2	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2B
Pace Project No.: 60160691

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1315103 1315104

Parameter	Units	60160690001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	55.8	5000	5000	5180	5180	102	103	70-130	0	7	
Arsenic, Dissolved	ug/L	855	5000	5000	5850	5800	100	99	70-130	1	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	4920	5000	98	100	70-130	2	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	4970	4930	99	99	70-130	1	10	
Chromium, Dissolved	ug/L	241	5000	5000	5260	5360	100	102	70-130	2	10	
Cobalt, Dissolved	ug/L	ND	5000	5000	4650	4630	93	92	70-130	0	6	
Copper, Dissolved	ug/L	62.8	5000	5000	5320	5400	105	107	70-130	1	11	
Iron, Dissolved	ug/L	706000	50000	50000	746000	722000	80	32	70-130	3	10	M1
Lead, Dissolved	ug/L	82.6	5000	5000	4570	4620	90	91	70-130	1	10	
Nickel, Dissolved	ug/L	97.4	5000	5000	4820	4840	94	95	70-130	0	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5580	5560	111	110	70-130	1	10	
Silver, Dissolved	ug/L	ND	2500	2500	2640	2700	106	108	70-130	2	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4020	3990	80	80	70-130	1	6	
Zinc, Dissolved	ug/L	8520	5000	5000	12700	12400	83	77	70-130	3	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2B
Pace Project No.: 60160691

QC Batch: MSV/58740 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60160691001, 60160691002

METHOD BLANK: 1314630 | Matrix: Water
Associated Lab Samples: 60160691001, 60160691002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/09/14 09:17	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/09/14 09:17	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/09/14 09:17	
1,2-Dichloroethane	ug/L	ND	1.0	01/09/14 09:17	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/09/14 09:17	
2-Butanone (MEK)	ug/L	ND	10.0	01/09/14 09:17	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/09/14 09:17	N2
Acetone	ug/L	ND	10.0	01/09/14 09:17	N2
Benzene	ug/L	ND	1.0	01/09/14 09:17	
Bromodichloromethane	ug/L	ND	1.0	01/09/14 09:17	
Bromoform	ug/L	ND	1.0	01/09/14 09:17	
Bromomethane	ug/L	ND	5.0	01/09/14 09:17	
Carbon tetrachloride	ug/L	ND	1.0	01/09/14 09:17	
Chloroethane	ug/L	ND	1.0	01/09/14 09:17	
Chloroform	ug/L	ND	1.0	01/09/14 09:17	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/09/14 09:17	N2
Ethylbenzene	ug/L	ND	1.0	01/09/14 09:17	
Methylene chloride	ug/L	ND	1.0	01/09/14 09:17	
Tetrachloroethene	ug/L	ND	1.0	01/09/14 09:17	
Toluene	ug/L	ND	1.0	01/09/14 09:17	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/09/14 09:17	
Trichloroethene	ug/L	ND	1.0	01/09/14 09:17	
Vinyl chloride	ug/L	ND	1.0	01/09/14 09:17	
Xylene (Total)	ug/L	ND	3.0	01/09/14 09:17	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	01/09/14 09:17	
4-Bromofluorobenzene (S)	%	99	80-120	01/09/14 09:17	
Toluene-d8 (S)	%	99	80-120	01/09/14 09:17	

LABORATORY CONTROL SAMPLE: 1314631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.1	96	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	18.1	90	59-138	N2
1,1,2-Trichloroethane	ug/L	20	20.7	103	69-127	
1,2-Dichloroethane	ug/L	20	21.4	107	71-129	
1,4-Dichlorobenzene	ug/L	20	19.1	95	68-124	
2-Butanone (MEK)	ug/L	100	89.6	90	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	107	107	61-120	N2
Acetone	ug/L	100	96.3	96	40-160	N2
Benzene	ug/L	20	19.7	98	73-129	
Bromodichloromethane	ug/L	20	21.4	107	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2B
Pace Project No.: 60160691

LABORATORY CONTROL SAMPLE: 1314631

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.5	102	52-123	
Bromomethane	ug/L	20	22.3	112	10-160	
Carbon tetrachloride	ug/L	20	19.7	99	70-140	
Chloroethane	ug/L	20	17.9	89	42-160	
Chloroform	ug/L	20	20.7	103	60-120	
cis-1,2-Dichloroethene	ug/L	20	18.5	93	70-125	N2
Ethylbenzene	ug/L	20	18.8	94	66-133	
Methylene chloride	ug/L	20	21.2	106	56-135	
Tetrachloroethene	ug/L	20	17.8	89	64-143	
Toluene	ug/L	20	17.9	90	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.9	94	67-149	
Trichloroethene	ug/L	20	20.3	101	71-130	
Vinyl chloride	ug/L	20	18.0	90	41-160	
Xylene (Total)	ug/L	60	55.9	93	67-130	N2
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			97	80-120	
Toluene-d8 (S)	%			96	80-120	

MATRIX SPIKE SAMPLE: 1314409

Parameter	Units	60160657001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	96400	25000	109000	51	40-160	N2
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2B
Pace Project No.: 60160691

QC Batch: OEXT/42170 | Analysis Method: EPA 625
QC Batch Method: EPA 625 | Analysis Description: 625 MSS
Associated Lab Samples: 60160691001

METHOD BLANK: 1314539 | Matrix: Water
Associated Lab Samples: 60160691001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/07/14 14:16	
2,4,6-Trichlorophenol	ug/L	ND	5.0	01/07/14 14:16	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	01/07/14 14:16	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/07/14 14:16	
Hexachlorocyclopentadiene	ug/L	ND	5.0	01/07/14 14:16	
Hexachloroethane	ug/L	ND	5.0	01/07/14 14:16	
Naphthalene	ug/L	ND	5.0	01/07/14 14:16	
Nitrobenzene	ug/L	ND	5.0	01/07/14 14:16	
Pentachlorophenol	ug/L	ND	5.0	01/07/14 14:16	
Phenol	ug/L	ND	5.0	01/07/14 14:16	
2,4,6-Tribromophenol (S)	%	90	39-120	01/07/14 14:16	
2-Fluorobiphenyl (S)	%	90	39-120	01/07/14 14:16	
2-Fluorophenol (S)	%	44	17-120	01/07/14 14:16	
Nitrobenzene-d5 (S)	%	89	33-120	01/07/14 14:16	
Phenol-d6 (S)	%	28	11-120	01/07/14 14:16	
Terphenyl-d14 (S)	%	96	45-120	01/07/14 14:16	

LABORATORY CONTROL SAMPLE: 1314540

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	37.9	76	46-120	
2,4,6-Trichlorophenol	ug/L	50	39.8	80	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	43.1	86	40-133	
Hexachloro-1,3-butadiene	ug/L	50	38.4	77	44-116	
Hexachlorocyclopentadiene	ug/L	100	72.7	73	24-120	
Hexachloroethane	ug/L	50	36.4	73	43-113	
Naphthalene	ug/L	50	38.4	77	48-120	
Nitrobenzene	ug/L	50	39.4	79	48-120	
Pentachlorophenol	ug/L	50	41.4	83	47-120	
Phenol	ug/L	50	15.3	31	16-112	
2,4,6-Tribromophenol (S)	%			84	39-120	
2-Fluorobiphenyl (S)	%			82	39-120	
2-Fluorophenol (S)	%			42	17-120	
Nitrobenzene-d5 (S)	%			82	33-120	
Phenol-d6 (S)	%			28	11-120	
Terphenyl-d14 (S)	%			82	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2B
Pace Project No.: 60160691

MATRIX SPIKE SAMPLE: 1314541

Parameter	Units	60160690001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3450	69	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4050	81	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	3980J	80	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3340	67	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	6720	67	11-120	
Hexachloroethane	ug/L	ND	5000	3120	62	40-113	
Naphthalene	ug/L	1110	5000	4840	75	45-120	
Nitrobenzene	ug/L	ND	5000	3720	74	38-120	
Pentachlorophenol	ug/L	ND	5000	5100	102	43-135	
Phenol	ug/L	11200	5000	13900	53	13-112	
2,4,6-Tribromophenol (S)	%				93	39-120	
2-Fluorobiphenyl (S)	%				80	39-120	
2-Fluorophenol (S)	%				46	17-120	
Nitrobenzene-d5 (S)	%				130	33-120	S0
Phenol-d6 (S)	%				49	11-120	
Terphenyl-d14 (S)	%				82	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2B
Pace Project No.: 60160691

QC Batch: WET/45527
QC Batch Method: EPA 1664A
Analysis Method: EPA 1664A
Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60160691001

METHOD BLANK: 1315050
Matrix: Water
Associated Lab Samples: 60160691001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/08/14 14:53	

LABORATORY CONTROL SAMPLE: 1315051

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.8	100	78-114	

MATRIX SPIKE SAMPLE: 1315052

Parameter	Units	60160656001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	160	170	105	78-114	

SAMPLE DUPLICATE: 1315053

Parameter	Units	60160656001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	1110		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2B
Pace Project No.: 60160691

QC Batch: WET/45543
QC Batch Method: EPA 1664A
Analysis Method: EPA 1664A
Analysis Description: 1664 SGT-HEM, TPH
Associated Lab Samples: 60160691001

METHOD BLANK: 1315611
Matrix: Water
Associated Lab Samples: 60160691001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	01/10/14 06:56	

LABORATORY CONTROL SAMPLE: 1315612

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	19.8	99	64-132	

MATRIX SPIKE SAMPLE: 1315613

Parameter	Units	60160656001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	7.6	80	82.4	93	64-132	

SAMPLE DUPLICATE: 1315614

Parameter	Units	60160657001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	32.9	31.7	4	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2B
Pace Project No.: 60160691

QC Batch: WET/45506
QC Batch Method: SM 2540D
Analysis Method: SM 2540D
Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60160691001

METHOD BLANK: 1314671
Matrix: Water
Associated Lab Samples: 60160691001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	01/07/14 13:09	

SAMPLE DUPLICATE: 1314672

Parameter	Units	60160588002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	8.0	9.0	12	25	

SAMPLE DUPLICATE: 1314673

Parameter	Units	60160656001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	208	202	3	25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2B
Pace Project No.: 60160691

QC Batch: WET/45500
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 60160691001

SAMPLE DUPLICATE: 1314536

Parameter	Units	60160654001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	8.0	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2B
Pace Project No.: 60160691

QC Batch: WET/45499
QC Batch Method: SM 5210B
Analysis Method: SM 5210B
Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 60160691001

METHOD BLANK: 1314468
Matrix: Water
Associated Lab Samples: 60160691001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	01/11/14 09:03	

LABORATORY CONTROL SAMPLE: 1314469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	174	88	85-115	

SAMPLE DUPLICATE: 1314470

Parameter	Units	60160683002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	314	304	3	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2B
Pace Project No.: 60160691

QC Batch: WETA/27764
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60160691001

METHOD BLANK: 1314836
Matrix: Water
Associated Lab Samples: 60160691001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	01/08/14 11:22	

LABORATORY CONTROL SAMPLE: 1314837

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	106	90-110	

MATRIX SPIKE SAMPLE: 1314838

Parameter	Units	60160556001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	768	1000	1980	121	90-110	M1

SAMPLE DUPLICATE: 1314839

Parameter	Units	60160608001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	855	885	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW2B
Pace Project No.: 60160691

QC Batch: WETA/27808
QC Batch Method: EPA 410.4
Analysis Method: EPA 410.4
Analysis Description: 410.4 COD
Associated Lab Samples: 60160691001

METHOD BLANK: 1316681
Matrix: Water
Associated Lab Samples: 60160691001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	01/13/14 15:47	

LABORATORY CONTROL SAMPLE: 1316682

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	52.4	105	90-110	

MATRIX SPIKE SAMPLE: 1316683

Parameter	Units	60160656001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	1060	500	1470	82	90-110	M1

SAMPLE DUPLICATE: 1316684

Parameter	Units	60160737001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	55800	57500	3	25	

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QUALIFIERS

Project: BRIDGETON LF 96-SW2B
Pace Project No.: 60160691

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

ANALYTE QUALIFIERS

B2	Oxygen usage is less than 2.0 for all dilutions set. The reported value is an estimated less than value and is calculated for the dilution using the most amount of sample.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 96-SW2B
Pace Project No.: 60160691

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60160691001	**96-SW2B**	EPA 200.7	MPRP/25811	EPA 200.7	ICP/19784
60160691001	**96-SW2B**	EPA 200.7	MPRP/25828	EPA 200.7	ICP/19791
60160691001	**96-SW2B**	EPA 245.1	MERP/8053	EPA 245.1	MERC/8009
60160691001	**96-SW2B**	EPA 245.1	MERP/8059	EPA 245.1	MERC/8015
60160691001	**96-SW2B**	EPA 625	OEXT/42170	EPA 625	MSSV/13420
60160691001	**96-SW2B**	EPA 624 Low	MSV/58740		
60160691002	**TRIP BLANK**	EPA 624 Low	MSV/58740		
60160691001	**96-SW2B**	EPA 1664A	WET/45527		
60160691001	**96-SW2B**	EPA 1664A	WET/45543		
60160691001	**96-SW2B**	SM 2540D	WET/45506		
60160691001	**96-SW2B**	SM 4500-H+B	WET/45500		
60160691001	**96-SW2B**	SM 5210B	WET/45499	SM 5210B	WET/45572
60160691001	**96-SW2B**	EPA 350.1	WETA/27764		
60160691001	**96-SW2B**	EPA 410.4	WETA/27808		

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Sample Condition Upon Receipt

WO#: 60160691

60160691

Client Name: Barr Eng.

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

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☒

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☒ Bubble Bags ☒ Foam ☐ None ☐ Other ☐

Thermometer Used: T-239 / T-194 Type of Ice: Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 1.0

Temperature should be above freezing to 6°C

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: JW 1/8/14 1410

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 & signature on COC:	☒Yes ☐No ☐N/A	4.	
Samples arrived within holding time:	☒Yes ☐No ☐N/A	5.	
Short Hold Time analyses (<72hr):	☒Yes ☐No ☐N/A	6.	BOD, pH
Rush Turn Around Time requested:	☐Yes ☒No ☐N/A	7.	
Sufficient volume:	☒Yes ☐No ☐N/A	8.	
Correct containers used:	☒Yes ☐No ☐N/A		
Pace containers used:	☒Yes ☐No ☐N/A	9.	
Containers intact:	☒Yes ☐No ☐N/A	10.	
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.	
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.	
Sample labels match COC: Includes date/time/ID/analyses Matrix: water	☒Yes ☐No ☐N/A	13.	
All containers needing preservation have been checked.	☐Yes ☐No ☒N/A		
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	14.	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☒Yes ☐No	Initial when completed:	Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased): Covered	☒Yes ☐No ☐N/A	15.	
Headspace in VOA vials (>6mm):	☐Yes ☒No ☐N/A	16.	
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State: MO	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 1/7/14

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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.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	BARR ENGINEERING	Report To:	ED GALBRAITH/BARR	Attention:	JANET ROLLEN
Address:		Copy To:	SCOTT FEDAK/FEEZOR	Company Name:	REPUBLIC SERVICES
			DANA BAKER/MARGARET TREANOR -BARR	Address:	BRIDGETON, MO 63044
Email To:		Purchase Order No.	PO 3727110	Pace Quote Reference:	130426_7588
Phone:	(816) 285-8410 Fax	Client Project ID:	BRIDGETON LF	Pace Project Manager:	Brown, Angie
Requested Due Date/TAT:	10 Day (Default)	Container Order Number:		Pace Profile #:	6787 LINE 2

Regulatory Agency
State / Location
Missouri

Requested Analysis Filtered (Y/N): 60160691

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N): COD EPA 410	pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B	Residual Chlorine (Y/N)	Remarks
1	96-SW2b	OT	G	1/4/14	1631	—	—		15	10	4	1	0					X	X	X	X	X	X	X	X	X	X	X		2(DGN) 2(BZN) 1(BBN) 3(ABS) 2(AGAM) 1(BBS) 1(BBN)
2	TRIP BLANK	—	—	—	—	—	—		2	2															X					2(DGN) TB
3																														
4																														
5																														
6																														METALS LIST total & LF Dis:
7																														Al,Sb,As,Be,Cd,Cr,
8																														Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn
9																														and Mercury
10																														
11																														
12																														

Matrix codes: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299		01-06-13	0905		01-06-13	0905				
SITE ADDRESS: BRIDGETON LF					1/6/14	1345	1.0	Y	Y	Y
13570 ST. CHARLES ROCK RD										
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	WILLIAM ABERNATHY					
SIGNATURE of SAMPLER:		DATE Signed: 1/4/14				

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January 15, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-187R
Pace Project No.: 60160737

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 08, 2014. 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,

Angie Brown

Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

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CERTIFICATIONS

Project: BRIDGETON LF 316-187R
Pace Project No.: 60160737

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-187R
Pace Project No.: 60160737

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60160737001	**316-187R**	Water	01/06/14 11:30	01/08/14 02:25
60160737002	**TRIP BLANK**	Water	01/06/14 11:30	01/08/14 02:25

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-187R
Pace Project No.: 60160737

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60160737001	**316-187R**	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	16
		EPA 624 Low	PRG	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC	1
		SM 4500-H+B	JML	1
		SM 5210B	JML	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC	1
60160737002	**TRIP BLANK**	EPA 624 Low	PRG	28

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-187R
Pace Project No.: 60160737

Sample: 316-187R **Lab ID: 60160737001** Collected: 01/06/14 11:30 Received: 01/08/14 02:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	**8640**	ug/L	375	1	01/09/14 15:00	01/10/14 12:22	7429-90-5	
Antimony	ND	ug/L	100	2	01/09/14 15:00	01/10/14 12:24	7440-36-0	D3
Arsenic	**1070**	ug/L	50.0	1	01/09/14 15:00	01/10/14 12:22	7440-38-2	
Beryllium	ND	ug/L	5.0	1	01/09/14 15:00	01/10/14 12:22	7440-41-7	
Cadmium	ND	ug/L	25.0	1	01/09/14 15:00	01/10/14 12:22	7440-43-9	
Chromium	**309**	ug/L	25.0	1	01/09/14 15:00	01/10/14 12:22	7440-47-3	
Cobalt	**25.4**	ug/L	25.0	1	01/09/14 15:00	01/10/14 12:22	7440-48-4	
Copper	ND	ug/L	50.0	1	01/09/14 15:00	01/10/14 12:22	7440-50-8	
Iron	**962000**	ug/L	250	1	01/09/14 15:00	01/10/14 12:22	7439-89-6	
Lead	**136**	ug/L	25.0	1	01/09/14 15:00	01/10/14 12:22	7439-92-1	
Nickel	**138**	ug/L	25.0	1	01/09/14 15:00	01/10/14 12:22	7440-02-0	
Selenium	**101**	ug/L	75.0	1	01/09/14 15:00	01/10/14 12:22	7782-49-2	
Silver	ND	ug/L	35.0	1	01/09/14 15:00	01/10/14 12:22	7440-22-4	
Thallium	ND	ug/L	100	1	01/09/14 15:00	01/10/14 12:22	7440-28-0	
Zinc	**10000**	ug/L	500	2	01/09/14 15:00	01/10/14 12:24	7440-66-6	
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	**3510**	ug/L	375	1	01/08/14 15:45	01/09/14 11:05	7429-90-5	
Antimony, Dissolved	ND	ug/L	50.0	1	01/08/14 15:45	01/09/14 11:05	7440-36-0	
Arsenic, Dissolved	**739**	ug/L	50.0	1	01/08/14 15:45	01/09/14 11:05	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	01/08/14 15:45	01/09/14 11:05	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	01/08/14 15:45	01/09/14 11:05	7440-43-9	
Chromium, Dissolved	**219**	ug/L	25.0	1	01/08/14 15:45	01/09/14 11:05	7440-47-3	
Cobalt, Dissolved	ND	ug/L	25.0	1	01/08/14 15:45	01/09/14 11:05	7440-48-4	
Copper, Dissolved	**78.4**	ug/L	50.0	1	01/08/14 15:45	01/09/14 11:05	7440-50-8	D9
Iron, Dissolved	**588000**	ug/L	250	1	01/08/14 15:45	01/09/14 11:05	7439-89-6	
Lead, Dissolved	**60.7**	ug/L	50.0	2	01/08/14 15:45	01/09/14 11:07	7439-92-1	
Nickel, Dissolved	**86.7**	ug/L	25.0	1	01/08/14 15:45	01/09/14 11:05	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	01/08/14 15:45	01/09/14 11:05	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	01/08/14 15:45	01/09/14 11:05	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	01/08/14 15:45	01/09/14 11:05	7440-28-0	
Zinc, Dissolved	**7460**	ug/L	500	2	01/08/14 15:45	01/09/14 11:07	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	6.0	1	01/09/14 10:30	01/09/14 14:15	7439-97-6	M1
245.1 Mercury, Dissolved (LF)	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	6.0	1	01/09/14 10:30	01/09/14 14:44	7439-97-6	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	01/09/14 00:00	01/10/14 14:53	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	01/09/14 00:00	01/10/14 14:53	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	01/09/14 00:00	01/10/14 14:53	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	01/09/14 00:00	01/10/14 14:53	67-72-1	
Naphthalene	**2290**	ug/L	1000	2	01/09/14 00:00	01/10/14 14:53	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	01/09/14 00:00	01/10/14 14:53	98-95-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-187R
Pace Project No.: 60160737

Sample: 316-187R **Lab ID: 60160737001** Collected: 01/06/14 11:30 Received: 01/08/14 02:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Pentachlorophenol	ND	ug/L	1000	2	01/09/14 00:00	01/10/14 14:53	87-86-5	
Phenol	**10200**	ug/L	1000	2	01/09/14 00:00	01/10/14 14:53	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	1000	2	01/09/14 00:00	01/10/14 14:53	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	1000	2	01/09/14 00:00	01/10/14 14:53	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	134	%	33-120	2	01/09/14 00:00	01/10/14 14:53	4165-60-0	S0
2-Fluorobiphenyl (S)	86	%	39-120	2	01/09/14 00:00	01/10/14 14:53	321-60-8	
Terphenyl-d14 (S)	77	%	45-120	2	01/09/14 00:00	01/10/14 14:53	1718-51-0	
Phenol-d6 (S)	44	%	11-120	2	01/09/14 00:00	01/10/14 14:53	13127-88-3	
2-Fluorophenol (S)	47	%	17-120	2	01/09/14 00:00	01/10/14 14:53	367-12-4	
2,4,6-Tribromophenol (S)	85	%	39-120	2	01/09/14 00:00	01/10/14 14:53	118-79-6	
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	**67800**	ug/L	2000	200		01/09/14 12:51	67-64-1	N2
Benzene	ND	ug/L	200	200		01/09/14 12:51	71-43-2	
Bromodichloromethane	ND	ug/L	200	200		01/09/14 12:51	75-27-4	
Bromoform	ND	ug/L	200	200		01/09/14 12:51	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/09/14 12:51	74-83-9	
2-Butanone (MEK)	**52300**	ug/L	2000	200		01/09/14 12:51	78-93-3	N2
Carbon tetrachloride	ND	ug/L	200	200		01/09/14 12:51	56-23-5	
Chloroethane	ND	ug/L	200	200		01/09/14 12:51	75-00-3	
Chloroform	ND	ug/L	200	200		01/09/14 12:51	67-66-3	
1,4-Dichlorobenzene	**985**	ug/L	200	200		01/09/14 12:51	106-46-7	
1,2-Dichloroethane	ND	ug/L	200	200		01/09/14 12:51	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/09/14 12:51	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/09/14 12:51	156-60-5	
Ethylbenzene	ND	ug/L	200	200		01/09/14 12:51	100-41-4	
Methylene chloride	ND	ug/L	200	200		01/09/14 12:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2410**	ug/L	2000	200		01/09/14 12:51	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		01/09/14 12:51	79-34-5	N2
Tetrachloroethene	ND	ug/L	200	200		01/09/14 12:51	127-18-4	
Toluene	ND	ug/L	200	200		01/09/14 12:51	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/09/14 12:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		01/09/14 12:51	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/09/14 12:51	79-01-6	
Vinyl chloride	ND	ug/L	200	200		01/09/14 12:51	75-01-4	
Xylene (Total)	ND	ug/L	600	200		01/09/14 12:51	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	102	%	80-120	200		01/09/14 12:51	460-00-4	
Toluene-d8 (S)	107	%	80-120	200		01/09/14 12:51	2037-26-5	
1,2-Dichloroethane-d4 (S)	101	%	80-120	200		01/09/14 12:51	17060-07-0	
Preservation pH	**6.0**		1.0	200		01/09/14 12:51		HS
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	**1610**	mg/L	5.0	1		01/08/14 14:55		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-187R
Pace Project No.: 60160737

Sample: 316-187R **Lab ID: 60160737001** Collected: 01/06/14 11:30 Received: 01/08/14 02:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	**39.6**	mg/L	5.0	1		01/10/14 06:58		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**2220**	mg/L	5.0	1		01/09/14 11:36		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**5.5**	Std. Units	0.10	1		01/09/14 15:24		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**32800**	mg/L	2.0	1	01/08/14 10:08	01/13/14 09:58		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**732**	mg/L	20.0	200		01/14/14 11:18	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**55800**	mg/L	5000	500		01/13/14 15:51		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-187R
Pace Project No.: 60160737

Sample: TRIP BLANK **Lab ID: 60160737002** Collected: 01/06/14 11:30 Received: 01/08/14 02:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	ND	ug/L	10.0	1		01/09/14 12:36	67-64-1	N2
Benzene	ND	ug/L	1.0	1		01/09/14 12:36	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		01/09/14 12:36	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/09/14 12:36	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/09/14 12:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/09/14 12:36	78-93-3	N2
Carbon tetrachloride	ND	ug/L	1.0	1		01/09/14 12:36	56-23-5	
Chloroethane	ND	ug/L	1.0	1		01/09/14 12:36	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/09/14 12:36	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/09/14 12:36	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/09/14 12:36	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/14 12:36	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/09/14 12:36	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/09/14 12:36	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		01/09/14 12:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/09/14 12:36	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/09/14 12:36	79-34-5	N2
Tetrachloroethene	ND	ug/L	1.0	1		01/09/14 12:36	127-18-4	
Toluene	ND	ug/L	1.0	1		01/09/14 12:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/09/14 12:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/09/14 12:36	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/09/14 12:36	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/09/14 12:36	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/09/14 12:36	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	102	%	80-120	1		01/09/14 12:36	460-00-4	
Toluene-d8 (S)	110	%	80-120	1		01/09/14 12:36	2037-26-5	
1,2-Dichloroethane-d4 (S)	97	%	80-120	1		01/09/14 12:36	17060-07-0	
Preservation pH	**6.0**		1.0	1		01/09/14 12:36		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-187R
Pace Project No.: 60160737

QC Batch: MERP/8058 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury
Associated Lab Samples: 60160737001

METHOD BLANK: 1315230 | Matrix: Water
Associated Lab Samples: 60160737001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/09/14 14:06	

LABORATORY CONTROL SAMPLE: 1315231

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.7	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1315232 1315233

Parameter	Units	60160737001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	150	150	96.3	96.0	62	62	70-130	0	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-187R
Pace Project No.: 60160737

QC Batch: MERP/8059
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60160737001

METHOD BLANK: 1315236
Matrix: Water
Associated Lab Samples: 60160737001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	01/09/14 14:26	

LABORATORY CONTROL SAMPLE: 1315237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.7	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1315238 1315239

Parameter	Units	60160690001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	99.6	106	64	68	70-130	6	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-187R
Pace Project No.: 60160737

QC Batch: MPRP/25841
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60160737001

METHOD BLANK: 1315513
Matrix: Water
Associated Lab Samples: 60160737001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	01/10/14 12:13	
Antimony	ug/L	ND	10.0	01/10/14 12:13	
Arsenic	ug/L	ND	10.0	01/10/14 12:13	
Beryllium	ug/L	ND	1.0	01/10/14 12:13	
Cadmium	ug/L	ND	5.0	01/10/14 12:13	
Chromium	ug/L	ND	5.0	01/10/14 12:13	
Cobalt	ug/L	ND	5.0	01/10/14 12:13	
Copper	ug/L	ND	10.0	01/10/14 12:13	
Iron	ug/L	105	50.0	01/10/14 12:13	
Lead	ug/L	ND	5.0	01/10/14 12:13	
Nickel	ug/L	ND	5.0	01/10/14 12:13	
Selenium	ug/L	ND	15.0	01/10/14 12:13	
Silver	ug/L	ND	7.0	01/10/14 12:13	
Thallium	ug/L	ND	20.0	01/10/14 12:13	
Zinc	ug/L	ND	50.0	01/10/14 12:13	

LABORATORY CONTROL SAMPLE: 1315514

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10300	103	85-115	
Antimony	ug/L	1000	1040	104	85-115	
Arsenic	ug/L	1000	975	98	85-115	
Beryllium	ug/L	1000	1030	103	85-115	
Cadmium	ug/L	1000	1020	102	85-115	
Chromium	ug/L	1000	1020	102	85-115	
Cobalt	ug/L	1000	1040	104	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	10200	102	85-115	
Lead	ug/L	1000	1060	106	85-115	
Nickel	ug/L	1000	1040	104	85-115	
Selenium	ug/L	1000	1020	102	85-115	
Silver	ug/L	500	515	103	85-115	
Thallium	ug/L	1000	1040	104	85-115	
Zinc	ug/L	1000	1020	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1315515 1315516

Parameter	Units	60160805003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	127	10000	10000	10600	10600	105	104	70-130	1	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-187R
Pace Project No.: 60160737

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1315515 1315516

Parameter	Units	60160805003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	1000	1000	1070	1060	107	106	70-130	1	7	
Arsenic	ug/L	ND	1000	1000	1080	1090	108	108	70-130	1	10	
Beryllium	ug/L	ND	1000	1000	1010	1000	101	100	70-130	0	7	
Cadmium	ug/L	ND	1000	1000	1100	1100	110	110	70-130	0	10	
Chromium	ug/L	ND	1000	1000	977	984	97	98	70-130	1	10	
Cobalt	ug/L	ND	1000	1000	917	918	92	92	70-130	0	6	
Copper	ug/L	ND	1000	1000	1060	1060	106	105	70-130	0	11	
Iron	ug/L	1280	10000	10000	10900	10900	96	96	70-130	0	10	
Lead	ug/L	ND	1000	1000	887	883	89	88	70-130	0	10	
Nickel	ug/L	7.1	1000	1000	922	928	91	92	70-130	1	10	
Selenium	ug/L	ND	1000	1000	1030	1030	103	103	70-130	0	10	
Silver	ug/L	ND	500	500	598	597	120	119	70-130	0	10	
Thallium	ug/L	ND	1000	1000	770	769	77	77	70-130	0	6	
Zinc	ug/L	ND	1000	1000	995	996	96	96	70-130	0	11	

SAMPLE DUPLICATE: 1316099

Parameter	Units	60160851002 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum	ug/L	0.33 mg/L	313	5	20	
Antimony	ug/L	ND	ND		20	
Arsenic	ug/L	ND	ND		20	
Beryllium	ug/L	ND	ND		20	
Cadmium	ug/L	ND	ND		20	
Chromium	ug/L	ND	ND		20	
Cobalt	ug/L	ND	ND		20	
Copper	ug/L	0.059 mg/L	56.7	4	20	
Iron	ug/L	2.2 mg/L	2190	0	20	
Lead	ug/L	0.022 mg/L	23.6	5	20	
Nickel	ug/L	ND	ND		20	
Selenium	ug/L	ND	ND		20	
Silver	ug/L	ND	ND		20	
Thallium	ug/L	ND	ND		20	
Zinc	ug/L	0.38 mg/L	368	3	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-187R
Pace Project No.: 60160737

QC Batch: MPRP/25828
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60160737001

METHOD BLANK: 1315101
Matrix: Water
Associated Lab Samples: 60160737001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	01/09/14 10:40	
Antimony, Dissolved	ug/L	ND	10.0	01/09/14 10:40	
Arsenic, Dissolved	ug/L	ND	10.0	01/09/14 10:40	
Beryllium, Dissolved	ug/L	ND	1.0	01/09/14 10:40	
Cadmium, Dissolved	ug/L	ND	5.0	01/09/14 10:40	
Chromium, Dissolved	ug/L	ND	5.0	01/09/14 10:40	
Cobalt, Dissolved	ug/L	ND	5.0	01/09/14 10:40	
Copper, Dissolved	ug/L	ND	10.0	01/09/14 10:40	
Iron, Dissolved	ug/L	ND	50.0	01/09/14 10:40	
Lead, Dissolved	ug/L	ND	5.0	01/09/14 10:40	
Nickel, Dissolved	ug/L	ND	5.0	01/09/14 10:40	
Selenium, Dissolved	ug/L	ND	15.0	01/09/14 10:40	
Silver, Dissolved	ug/L	ND	7.0	01/09/14 10:40	
Thallium, Dissolved	ug/L	ND	20.0	01/09/14 10:40	
Zinc, Dissolved	ug/L	ND	50.0	01/09/14 10:40	

LABORATORY CONTROL SAMPLE: 1315102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10100	101	85-115	
Antimony, Dissolved	ug/L	1000	993	99	85-115	
Arsenic, Dissolved	ug/L	1000	913	91	85-115	
Beryllium, Dissolved	ug/L	1000	1010	101	85-115	
Cadmium, Dissolved	ug/L	1000	948	95	85-115	
Chromium, Dissolved	ug/L	1000	1030	103	85-115	
Cobalt, Dissolved	ug/L	1000	980	98	85-115	
Copper, Dissolved	ug/L	1000	1010	101	85-115	
Iron, Dissolved	ug/L	10000	9910	99	85-115	
Lead, Dissolved	ug/L	1000	1010	101	85-115	
Nickel, Dissolved	ug/L	1000	1020	102	85-115	
Selenium, Dissolved	ug/L	1000	976	98	85-115	
Silver, Dissolved	ug/L	500	495	99	85-115	
Thallium, Dissolved	ug/L	1000	985	98	85-115	
Zinc, Dissolved	ug/L	1000	944	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1315103 1315104

Parameter	Units	60160690001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	3890	50000	50000	55200	56100	103	104	70-130	2	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-187R
Pace Project No.: 60160737

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1315103 1315104

Parameter	Units	60160690001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	55.8	5000	5000	5180	5180	102	103	70-130	0	7	
Arsenic, Dissolved	ug/L	855	5000	5000	5850	5800	100	99	70-130	1	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	4920	5000	98	100	70-130	2	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	4970	4930	99	99	70-130	1	10	
Chromium, Dissolved	ug/L	241	5000	5000	5260	5360	100	102	70-130	2	10	
Cobalt, Dissolved	ug/L	ND	5000	5000	4650	4630	93	92	70-130	0	6	
Copper, Dissolved	ug/L	62.8	5000	5000	5320	5400	105	107	70-130	1	11	
Iron, Dissolved	ug/L	706000	50000	50000	746000	722000	80	32	70-130	3	10	M1
Lead, Dissolved	ug/L	82.6	5000	5000	4570	4620	90	91	70-130	1	10	
Nickel, Dissolved	ug/L	97.4	5000	5000	4820	4840	94	95	70-130	0	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5580	5560	111	110	70-130	1	10	
Silver, Dissolved	ug/L	ND	2500	2500	2640	2700	106	108	70-130	2	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4020	3990	80	80	70-130	1	6	
Zinc, Dissolved	ug/L	8520	5000	5000	12700	12400	83	77	70-130	3	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-187R
Pace Project No.: 60160737

QC Batch: MSV/58769 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60160737001, 60160737002

METHOD BLANK: 1315255 | Matrix: Water
Associated Lab Samples: 60160737001, 60160737002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/09/14 09:17	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/09/14 09:17	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/09/14 09:17	
1,2-Dichloroethane	ug/L	ND	1.0	01/09/14 09:17	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/09/14 09:17	
2-Butanone (MEK)	ug/L	ND	10.0	01/09/14 09:17	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/09/14 09:17	N2
Acetone	ug/L	ND	10.0	01/09/14 09:17	N2
Benzene	ug/L	ND	1.0	01/09/14 09:17	
Bromodichloromethane	ug/L	ND	1.0	01/09/14 09:17	
Bromoform	ug/L	ND	1.0	01/09/14 09:17	
Bromomethane	ug/L	ND	5.0	01/09/14 09:17	
Carbon tetrachloride	ug/L	ND	1.0	01/09/14 09:17	
Chloroethane	ug/L	ND	1.0	01/09/14 09:17	
Chloroform	ug/L	ND	1.0	01/09/14 09:17	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/09/14 09:17	N2
Ethylbenzene	ug/L	ND	1.0	01/09/14 09:17	
Methylene chloride	ug/L	ND	1.0	01/09/14 09:17	
Tetrachloroethene	ug/L	ND	1.0	01/09/14 09:17	
Toluene	ug/L	ND	1.0	01/09/14 09:17	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/09/14 09:17	
Trichloroethene	ug/L	ND	1.0	01/09/14 09:17	
Vinyl chloride	ug/L	ND	1.0	01/09/14 09:17	
Xylene (Total)	ug/L	ND	3.0	01/09/14 09:17	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	01/09/14 09:17	
4-Bromofluorobenzene (S)	%	99	80-120	01/09/14 09:17	
Toluene-d8 (S)	%	99	80-120	01/09/14 09:17	

LABORATORY CONTROL SAMPLE: 1315256

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.1	96	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	18.1	90	59-138	N2
1,1,2-Trichloroethane	ug/L	20	20.7	103	69-127	
1,2-Dichloroethane	ug/L	20	21.4	107	71-129	
1,4-Dichlorobenzene	ug/L	20	19.1	95	68-124	
2-Butanone (MEK)	ug/L	100	89.6	90	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	107	107	61-120	N2
Acetone	ug/L	100	96.3	96	40-160	N2
Benzene	ug/L	20	19.7	98	73-129	
Bromodichloromethane	ug/L	20	21.4	107	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-187R
Pace Project No.: 60160737

LABORATORY CONTROL SAMPLE: 1315256

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.5	102	52-123	
Bromomethane	ug/L	20	22.3	112	10-160	
Carbon tetrachloride	ug/L	20	19.7	99	70-140	
Chloroethane	ug/L	20	17.9	89	42-160	
Chloroform	ug/L	20	20.7	103	60-120	
cis-1,2-Dichloroethene	ug/L	20	18.5	93	70-125	N2
Ethylbenzene	ug/L	20	18.8	94	66-133	
Methylene chloride	ug/L	20	21.2	106	56-135	
Tetrachloroethene	ug/L	20	17.8	89	64-143	
Toluene	ug/L	20	17.9	90	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.9	94	67-149	
Trichloroethene	ug/L	20	20.3	101	71-130	
Vinyl chloride	ug/L	20	18.0	90	41-160	
Xylene (Total)	ug/L	60	55.9	93	67-130	N2
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			97	80-120	
Toluene-d8 (S)	%			96	80-120	

MATRIX SPIKE SAMPLE: 1315257

Parameter	Units	60160744001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	20	18.3	91	52-160	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	20	20.2	101	46-157	N2
1,1,2-Trichloroethane	ug/L	<1.0	20	19.3	96	52-150	
1,2-Dichloroethane	ug/L	<1.0	20	17.0	85	49-155	
1,4-Dichlorobenzene	ug/L	<1.0	20	20.3	102	18-147	
2-Butanone (MEK)	ug/L	<10.0	100	57.7	53	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	<10.0	100	82.8	83	40-160	N2
Acetone	ug/L	39.0	100	77.4	38	40-160	M1,N2
Benzene	ug/L	<1.0	20	17.4	87	37-151	
Bromodichloromethane	ug/L	<1.0	20	17.0	85	35-155	
Bromoform	ug/L	<1.0	20	18.8	94	45-133	
Bromomethane	ug/L	<5.0	20	19.5	98	10-160	
Carbon tetrachloride	ug/L	<1.0	20	18.8	94	70-140	
Chloroethane	ug/L	<1.0	20	19.7	98	14-160	
Chloroform	ug/L	<1.0	20	17.9	88	51-138	
cis-1,2-Dichloroethene	ug/L	<1.0	20	16.8	84	19-160	N2
Ethylbenzene	ug/L	<1.0	20	20.1	101	37-154	
Methylene chloride	ug/L	<1.0	20	17.7	88	15-156	
Tetrachloroethene	ug/L	<1.0	20	19.3	97	64-148	
Toluene	ug/L	<1.0	20	18.7	93	47-150	
trans-1,2-Dichloroethene	ug/L	<1.0	20	17.4	87	54-156	
Trichloroethene	ug/L	<1.0	20	18.7	93	71-157	
Vinyl chloride	ug/L	<1.0	20	19.9	99	10-160	
Xylene (Total)	ug/L	<3.0	60	56.1	94	12-153	N2
1,2-Dichloroethane-d4 (S)	%				101	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-187R
Pace Project No.: 60160737

MATRIX SPIKE SAMPLE: 1315257

Parameter	Units	60160744001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				104	80-120	
Preservation pH		7.0		7.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-187R
Pace Project No.: 60160737

QC Batch: OEXT/42187 | Analysis Method: EPA 625
QC Batch Method: EPA 625 | Analysis Description: 625 MSS
Associated Lab Samples: 60160737001

METHOD BLANK: 1315154 | Matrix: Water
Associated Lab Samples: 60160737001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/10/14 14:11	
2,4,6-Trichlorophenol	ug/L	ND	5.0	01/10/14 14:11	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	01/10/14 14:11	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/10/14 14:11	
Hexachlorocyclopentadiene	ug/L	ND	5.0	01/10/14 14:11	
Hexachloroethane	ug/L	ND	5.0	01/10/14 14:11	
Naphthalene	ug/L	ND	5.0	01/10/14 14:11	
Nitrobenzene	ug/L	ND	5.0	01/10/14 14:11	
Pentachlorophenol	ug/L	ND	5.0	01/10/14 14:11	
Phenol	ug/L	ND	5.0	01/10/14 14:11	
2,4,6-Tribromophenol (S)	%	88	39-120	01/10/14 14:11	
2-Fluorobiphenyl (S)	%	94	39-120	01/10/14 14:11	
2-Fluorophenol (S)	%	52	17-120	01/10/14 14:11	
Nitrobenzene-d5 (S)	%	90	33-120	01/10/14 14:11	
Phenol-d6 (S)	%	34	11-120	01/10/14 14:11	
Terphenyl-d14 (S)	%	94	45-120	01/10/14 14:11	

LABORATORY CONTROL SAMPLE: 1315155

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	38.4	77	46-120	
2,4,6-Trichlorophenol	ug/L	50	40.5	81	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	43.9	88	40-133	
Hexachloro-1,3-butadiene	ug/L	50	35.9	72	44-116	
Hexachlorocyclopentadiene	ug/L	100	64.0	64	24-120	
Hexachloroethane	ug/L	50	35.8	72	43-113	
Naphthalene	ug/L	50	39.9	80	48-120	
Nitrobenzene	ug/L	50	40.6	81	48-120	
Pentachlorophenol	ug/L	50	41.0	82	47-120	
Phenol	ug/L	50	17.6	35	16-112	
2,4,6-Tribromophenol (S)	%			88	39-120	
2-Fluorobiphenyl (S)	%			89	39-120	
2-Fluorophenol (S)	%			49	17-120	
Nitrobenzene-d5 (S)	%			87	33-120	
Phenol-d6 (S)	%			33	11-120	
Terphenyl-d14 (S)	%			95	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-187R
Pace Project No.: 60160737

MATRIX SPIKE SAMPLE: 1315178

Parameter	Units	60160806001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	32.4	65	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	39.0	78	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	50	37.1	74	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	30.3	61	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	48.9	49	11-120	
Hexachloroethane	ug/L	ND	50	28.7	57	40-113	
Naphthalene	ug/L	ND	50	33.7	67	45-120	
Nitrobenzene	ug/L	ND	50	35.0	70	38-120	
Pentachlorophenol	ug/L	ND	50	43.0	86	43-135	
Phenol	ug/L	ND	50	13.0	26	13-112	
2,4,6-Tribromophenol (S)	%				83	39-120	
2-Fluorobiphenyl (S)	%				83	39-120	
2-Fluorophenol (S)	%				37	17-120	
Nitrobenzene-d5 (S)	%				74	33-120	
Phenol-d6 (S)	%				24	11-120	
Terphenyl-d14 (S)	%				79	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-187R
Pace Project No.: 60160737

QC Batch: WET/45527 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60160737001

METHOD BLANK: 1315050 | Matrix: Water
Associated Lab Samples: 60160737001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/08/14 14:53	

LABORATORY CONTROL SAMPLE: 1315051

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.8	100	78-114	

MATRIX SPIKE SAMPLE: 1315052

Parameter	Units	60160656001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	160	170	105	78-114	

SAMPLE DUPLICATE: 1315053

Parameter	Units	60160656001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	1110		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-187R
Pace Project No.: 60160737

QC Batch: WET/45543 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 SGT-HEM, TPH
Associated Lab Samples: 60160737001

METHOD BLANK: 1315611 | Matrix: Water
Associated Lab Samples: 60160737001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	01/10/14 06:56	

LABORATORY CONTROL SAMPLE: 1315612

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	19.8	99	64-132	

MATRIX SPIKE SAMPLE: 1315613

Parameter	Units	60160656001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	7.6	80	82.4	93	64-132	

SAMPLE DUPLICATE: 1315614

Parameter	Units	60160657001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	32.9	31.7	4	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-187R
Pace Project No.: 60160737

QC Batch: WET/45535
QC Batch Method: SM 2540D
Analysis Method: SM 2540D
Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60160737001

METHOD BLANK: 1315365
Matrix: Water
Associated Lab Samples: 60160737001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	01/09/14 11:31	

SAMPLE DUPLICATE: 1315366

Parameter	Units	60160763001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	15.0	9.0	50	25	D6

SAMPLE DUPLICATE: 1315367

Parameter	Units	5092096001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	86.0	110	24	25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-187R
Pace Project No.: 60160737

QC Batch: WET/45537
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 60160737001

SAMPLE DUPLICATE: 1315537

Parameter	Units	60160737001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.5	5.5	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-187R
Pace Project No.: 60160737

QC Batch: WET/45521 | Analysis Method: SM 5210B
QC Batch Method: SM 5210B | Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 60160737001

METHOD BLANK: 1314840 | Matrix: Water
Associated Lab Samples: 60160737001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	01/13/14 08:47	

LABORATORY CONTROL SAMPLE: 1314841

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	191	97	85-115	

SAMPLE DUPLICATE: 1314842

Parameter	Units	60160686002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	3.0	ND		17	

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(913)599-5665

QUALITY CONTROL DATA

Project: BRIDGETON LF 316-187R
Pace Project No.: 60160737

QC Batch: WETA/27807
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60160737001

METHOD BLANK: 1316667
Matrix: Water
Associated Lab Samples: 60160737001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	01/14/14 11:16	

LABORATORY CONTROL SAMPLE: 1316668

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	107	90-110	

MATRIX SPIKE SAMPLE: 1316669

Parameter	Units	60160581003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.0	99	90-110	

MATRIX SPIKE SAMPLE: 1316670

Parameter	Units	60160601006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.8	90	90-110	

SAMPLE DUPLICATE: 1316671

Parameter	Units	60160569002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-187R
Pace Project No.: 60160737

QC Batch: WETA/27808 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 60160737001

METHOD BLANK: 1316681 | Matrix: Water
Associated Lab Samples: 60160737001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	01/13/14 15:47	

LABORATORY CONTROL SAMPLE: 1316682

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	52.4	105	90-110	

MATRIX SPIKE SAMPLE: 1316683

Parameter	Units	60160656001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	1060	500	1470	82	90-110	M1

SAMPLE DUPLICATE: 1316684

Parameter	Units	60160737001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	55800	57500	3	25	

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QUALIFIERS

Project: BRIDGETON LF 316-187R
Pace Project No.: 60160737

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
D9	Dissolved result is greater than the total. Data is within laboratory control limits.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-187R
Pace Project No.: 60160737

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60160737001	**316-187R**	EPA 200.7	MPRP/25841	EPA 200.7	ICP/19797
60160737001	**316-187R**	EPA 200.7	MPRP/25828	EPA 200.7	ICP/19791
60160737001	**316-187R**	EPA 245.1	MERP/8058	EPA 245.1	MERC/8014
60160737001	**316-187R**	EPA 245.1	MERP/8059	EPA 245.1	MERC/8015
60160737001	**316-187R**	EPA 625	OEXT/42187	EPA 625	MSSV/13433
60160737001	**316-187R**	EPA 624 Low	MSV/58769		
60160737002	**TRIP BLANK**	EPA 624 Low	MSV/58769		
60160737001	**316-187R**	EPA 1664A	WET/45527		
60160737001	**316-187R**	EPA 1664A	WET/45543		
60160737001	**316-187R**	SM 2540D	WET/45535		
60160737001	**316-187R**	SM 4500-H+B	WET/45537		
60160737001	**316-187R**	SM 5210B	WET/45521	SM 5210B	WET/45587
60160737001	**316-187R**	EPA 350.1	WETA/27807		
60160737001	**316-187R**	EPA 410.4	WETA/27808		

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Sample Condition Upon Receipt

WO#: 60160737
60160737

Client Name: BARR

Optional
Proj Due Date:
Proj Name:

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

Tracking #: _____ Pace Shipping Label Used? Yes ☒ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Other ☒ zipl

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 1.4

Temperature should be above freezing to 6°C

Date and initials of person examining contents: 8/18/14

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 & signature on COC:	☒Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☒Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☒Yes ☐No ☐N/A	6. BOD, pH
Rush Turn Around Time requested:	☐Yes ☒No ☐N/A	7.
Sufficient volume:	☒Yes ☐No ☐N/A	8.
Correct containers used:	☒Yes ☐No ☐N/A	
Pace containers used:	☒Yes ☐No ☐N/A	9.
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.
Sample labels match COC:	☒Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: WW		13.
All containers needing preservation have been checked.	☐Yes ☐No ☐N/A	Added hno3 to 316-187R BP3N 6.0/4.0 Added h2so4 to 316-187R BP3S 5.0/20
All containers needing preservation are found to be in compliance with EPA recommendation.	8/18/14 ☒Yes ☐No ☐N/A	14.
Exceptions: VOA coliform, TOC, O&G, WI-DRO (water), Phenolics	☒Yes ☐No	Initial when completed: 8 Lot # of added preservative: 12518 12513
Trip Blank present:	☒Yes ☐No ☐N/A	1 of 5 DG9U (VOA) Broken when arrived
Pace Trip Blank lot # (if purchased): Dec. 19		15.
Headspace in VOA vials (>6mm):	☒Yes ☐No ☐N/A	4 of 5 VOA
		16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 1/8/15

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A
Required Client Information:

Company:	BARR ENGINEERING
Address:	
Email To:	
Phone:	(816) 285-8410 Fax
Requested Due Date/TAT:	10 Day (Default)

Section B
Required Project Information:

Report To:	ED GALBRAITH/BARR
Copy To:	SCOTT FEDAK/FEEZOR
	DANA BAKER/MARGARET TREANOR -BARR
Purchase Order No.	PO 3727110
Client Project ID:	BRIDGETON LF
Container Order Number:	

Section C
Invoice Information:

Attention:	JANET ROLLEN
Company Name:	REPUBLIC SERVICES
Address:	BRIDGETON, MO 63044
Pace Quote Reference:	130426_7588
Pace Project Manager:	Brown, Angie
Pace Profile #:	6787 LINE 2

Regulatory Agency

State / Location
Missouri

Requested Analysis Filtered (Y/N)

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

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	COD EPA 410	pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B		Residual Chlorine (Y/N)	60160737
1	316-187R 4(DG9U), 3(AG3S)	OT	G	01/06/14	1130	—	—		14	10	4	1	0						X	X	X	X	X	X	X	X	X	X	X	9(BP2U), BP3S, BP3N, BP3U, 2(AG4U)		
2	TRIP BLANK								2	2																X				2(DG9U)TB		
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

METALS LIST total & LF Dis: Al,Sb,As,Be,Cd,Cr, Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn and Mercury

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	Andrew Pedak/FED	1-7-14	1405	Bernadette Hearth	1-7-14	1405				
SITE ADDRESS: BRIDGETON LF				Andrea McCy/PASZ	1/8	0225	1.4	Y	Y	Y
13570 ST. CHARLES ROCK RD										
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: John Powell					
SIGNATURE of SAMPLER:	DATE Signed: 01-06-14				

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January 15, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: UNTREATED COMMINGLED
Pace Project No.: 60160757

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 08, 2014. 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,

Angie Brown

Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

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CERTIFICATIONS

Project: UNTREATED COMMINGLED
Pace Project No.: 60160757

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: UNTREATED COMMINGLED
Pace Project No.: 60160757

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60160757001	**TCLP- 1-6**	Water	01/06/14 11:30	01/08/14 02:25
60160757002	**TRIP BLANK**	Water	01/06/14 08:00	01/08/14 02:25

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SAMPLE ANALYTE COUNT

Project: UNTREATED COMMINGLED
Pace Project No.: 60160757

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60160757001	**TCLP- 1-6**	EPA 8260	RAB	13
		EPA 5030B/8260	PRG	28
		EPA 1664A	DJR	1
		SM 2540B	JMC	1
60160757002	**TRIP BLANK**	EPA 5030B/8260	PRG	28

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ANALYTICAL RESULTS

Project: UNTREATED COMMINGLED
Pace Project No.: 60160757

Sample: TCLP- 1-6 **Lab ID: 60160757001** Collected: 01/06/14 11:30 Received: 01/08/14 02:25 Matrix: Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP	Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 01/14/14 00:00								
Benzene	**473**	ug/L	250	500	5		01/14/14 12:29	71-43-2	
2-Butanone (MEK)	**53600**	ug/L	5000	200000	5		01/14/14 12:29	78-93-3	
Carbon tetrachloride	ND	ug/L	250	500	5		01/14/14 12:29	56-23-5	
Chlorobenzene	ND	ug/L	250	100000	5		01/14/14 12:29	108-90-7	
Chloroform	ND	ug/L	1000	6000	5		01/14/14 12:29	67-66-3	
1,2-Dichloroethane	ND	ug/L	250	500	5		01/14/14 12:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	250	700	5		01/14/14 12:29	75-35-4	
Tetrachloroethene	ND	ug/L	250	700	5		01/14/14 12:29	127-18-4	
Trichloroethene	ND	ug/L	250	500	5		01/14/14 12:29	79-01-6	
Vinyl chloride	ND	ug/L	100	200	5		01/14/14 12:29	75-01-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	100	%	80-120		5		01/14/14 12:29	17060-07-0	
Toluene-d8 (S)	102	%	80-120		5		01/14/14 12:29	2037-26-5	
4-Bromofluorobenzene (S)	102	%	80-120		5		01/14/14 12:29	460-00-4	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**88300**	ug/L	2000		200		01/08/14 14:10	67-64-1	
Benzene	**789**	ug/L	200		200		01/08/14 14:10	71-43-2	
Bromodichloromethane	ND	ug/L	200		200		01/08/14 14:10	75-27-4	
Bromoform	ND	ug/L	200		200		01/08/14 14:10	75-25-2	
Bromomethane	ND	ug/L	1000		200		01/08/14 14:10	74-83-9	
2-Butanone (MEK)	**56100**	ug/L	2000		200		01/08/14 14:10	78-93-3	
Carbon tetrachloride	ND	ug/L	200		200		01/08/14 14:10	56-23-5	
Chloroethane	ND	ug/L	200		200		01/08/14 14:10	75-00-3	
Chloroform	ND	ug/L	200		200		01/08/14 14:10	67-66-3	
1,4-Dichlorobenzene	**849**	ug/L	200		200		01/08/14 14:10	106-46-7	
1,2-Dichloroethane	ND	ug/L	200		200		01/08/14 14:10	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200		200		01/08/14 14:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	200		200		01/08/14 14:10	156-60-5	
Ethylbenzene	**261**	ug/L	200		200		01/08/14 14:10	100-41-4	
Methylene chloride	ND	ug/L	200		200		01/08/14 14:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2760**	ug/L	2000		200		01/08/14 14:10	108-10-1	
1,1,2,2-Tetrachloroethane	ND	ug/L	200		200		01/08/14 14:10	79-34-5	
Tetrachloroethene	ND	ug/L	200		200		01/08/14 14:10	127-18-4	
Toluene	**255**	ug/L	200		200		01/08/14 14:10	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200		200		01/08/14 14:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200		200		01/08/14 14:10	79-00-5	
Trichloroethene	ND	ug/L	200		200		01/08/14 14:10	79-01-6	
Vinyl chloride	ND	ug/L	200		200		01/08/14 14:10	75-01-4	
Xylene (Total)	**967**	ug/L	600		200		01/08/14 14:10	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	80-120		200		01/08/14 14:10	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		200		01/08/14 14:10	17060-07-0	
Toluene-d8 (S)	101	%	80-120		200		01/08/14 14:10	2037-26-5	
Preservation pH	**6.0**		0.10		200		01/08/14 14:10		pH

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ANALYTICAL RESULTS

Project: UNTREATED COMMINGLED
Pace Project No.: 60160757

Sample: TCLP- 1-6 **Lab ID: 60160757001** Collected: 01/06/14 11:30 Received: 01/08/14 02:25 Matrix: Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
HEM, Oil and Grease	Analytical Method: EPA 1664A								
Oil and Grease	**1540**	mg/L	5.0		1		01/14/14 13:50		
2540B Total Solids	Analytical Method: SM 2540B								
Total Solids	**53000**	mg/L	5.0		1		01/13/14 14:48		

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ANALYTICAL RESULTS

Project: UNTREATED COMMINGLED
Pace Project No.: 60160757

Sample: TRIP BLANK **Lab ID: 60160757002** Collected: 01/06/14 08:00 Received: 01/08/14 02:25 Matrix: Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0		1		01/08/14 12:59	67-64-1	
Benzene	ND	ug/L	1.0		1		01/08/14 12:59	71-43-2	
Bromodichloromethane	ND	ug/L	1.0		1		01/08/14 12:59	75-27-4	
Bromoform	ND	ug/L	1.0		1		01/08/14 12:59	75-25-2	
Bromomethane	ND	ug/L	5.0		1		01/08/14 12:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0		1		01/08/14 12:59	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0		1		01/08/14 12:59	56-23-5	
Chloroethane	ND	ug/L	1.0		1		01/08/14 12:59	75-00-3	
Chloroform	ND	ug/L	1.0		1		01/08/14 12:59	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0		1		01/08/14 12:59	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0		1		01/08/14 12:59	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0		1		01/08/14 12:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0		1		01/08/14 12:59	156-60-5	
Ethylbenzene	ND	ug/L	1.0		1		01/08/14 12:59	100-41-4	
Methylene chloride	ND	ug/L	1.0		1		01/08/14 12:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0		1		01/08/14 12:59	108-10-1	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1		01/08/14 12:59	79-34-5	
Tetrachloroethene	ND	ug/L	1.0		1		01/08/14 12:59	127-18-4	
Toluene	ND	ug/L	1.0		1		01/08/14 12:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0		1		01/08/14 12:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0		1		01/08/14 12:59	79-00-5	
Trichloroethene	ND	ug/L	1.0		1		01/08/14 12:59	79-01-6	
Vinyl chloride	ND	ug/L	1.0		1		01/08/14 12:59	75-01-4	
Xylene (Total)	ND	ug/L	3.0		1		01/08/14 12:59	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		01/08/14 12:59	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		1		01/08/14 12:59	17060-07-0	
Toluene-d8 (S)	101	%	80-120		1		01/08/14 12:59	2037-26-5	
Preservation pH	**1.0**		0.10		1		01/08/14 12:59		

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QUALITY CONTROL DATA

Project: UNTREATED COMMINGLED
Pace Project No.: 60160757

QC Batch: MSV/58820 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 60160757001

METHOD BLANK: 1317105 | Matrix: Water
Associated Lab Samples: 60160757001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	01/14/14 11:43	
1,2-Dichloroethane	ug/L	ND	50.0	01/14/14 11:43	
2-Butanone (MEK)	ug/L	ND	1000	01/14/14 11:43	
Benzene	ug/L	ND	50.0	01/14/14 11:43	
Carbon tetrachloride	ug/L	ND	50.0	01/14/14 11:43	
Chlorobenzene	ug/L	ND	50.0	01/14/14 11:43	
Chloroform	ug/L	ND	200	01/14/14 11:43	
Tetrachloroethene	ug/L	ND	50.0	01/14/14 11:43	
Trichloroethene	ug/L	ND	50.0	01/14/14 11:43	
Vinyl chloride	ug/L	ND	20.0	01/14/14 11:43	
1,2-Dichloroethane-d4 (S)	%	104	80-120	01/14/14 11:43	
4-Bromofluorobenzene (S)	%	100	80-120	01/14/14 11:43	
Toluene-d8 (S)	%	101	80-120	01/14/14 11:43	

LABORATORY CONTROL SAMPLE: 1317106

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	1000	1100	110	70-127	
1,2-Dichloroethane	ug/L	1000	992	99	72-122	
2-Butanone (MEK)	ug/L	5000	3570	71	69-124	
Benzene	ug/L	1000	1050	105	73-122	
Carbon tetrachloride	ug/L	1000	1160	116	73-125	
Chlorobenzene	ug/L	1000	972	97	80-120	
Chloroform	ug/L	1000	1070	107	76-120	
Tetrachloroethene	ug/L	1000	1010	101	79-122	
Trichloroethene	ug/L	1000	1050	105	76-120	
Vinyl chloride	ug/L	1000	1260	126	57-140	
1,2-Dichloroethane-d4 (S)	%			103	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			101	80-120	

MATRIX SPIKE SAMPLE: 1317107

Parameter	Units	60160928001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	1000	1090	109	66-142	
1,2-Dichloroethane	ug/L	ND	1000	1000	100	53-144	
2-Butanone (MEK)	ug/L	ND	5000	3320	65	54-127	
Benzene	ug/L	ND	1000	1040	104	48-150	
Carbon tetrachloride	ug/L	ND	1000	1070	107	68-145	
Chlorobenzene	ug/L	ND	1000	987	99	68-131	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: UNTREATED COMMINGLED
Pace Project No.: 60160757

MATRIX SPIKE SAMPLE: 1317107

Parameter	Units	60160928001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloroform	ug/L	ND	1000	1000	100	69-126	
Tetrachloroethene	ug/L	ND	1000	972	97	66-139	
Trichloroethene	ug/L	ND	1000	1040	104	67-130	
Vinyl chloride	ug/L	ND	1000	1200	120	47-159	
1,2-Dichloroethane-d4 (S)	%				102	80-120	
4-Bromofluorobenzene (S)	%				103	80-120	
Toluene-d8 (S)	%				101	80-120	

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QUALITY CONTROL DATA

Project: UNTREATED COMMINGLED
Pace Project No.: 60160757

QC Batch: MSV/58758 | Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 | Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60160757001, 60160757002

METHOD BLANK: 1314996 | Matrix: Water
Associated Lab Samples: 60160757001, 60160757002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/08/14 12:22	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/08/14 12:22	
1,1,2-Trichloroethane	ug/L	ND	1.0	01/08/14 12:22	
1,2-Dichloroethane	ug/L	ND	1.0	01/08/14 12:22	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/08/14 12:22	
2-Butanone (MEK)	ug/L	ND	10.0	01/08/14 12:22	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/08/14 12:22	
Acetone	ug/L	ND	10.0	01/08/14 12:22	
Benzene	ug/L	ND	1.0	01/08/14 12:22	
Bromodichloromethane	ug/L	ND	1.0	01/08/14 12:22	
Bromoform	ug/L	ND	1.0	01/08/14 12:22	
Bromomethane	ug/L	ND	5.0	01/08/14 12:22	
Carbon tetrachloride	ug/L	ND	1.0	01/08/14 12:22	
Chloroethane	ug/L	ND	1.0	01/08/14 12:22	
Chloroform	ug/L	ND	1.0	01/08/14 12:22	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/08/14 12:22	
Ethylbenzene	ug/L	ND	1.0	01/08/14 12:22	
Methylene chloride	ug/L	ND	1.0	01/08/14 12:22	
Tetrachloroethene	ug/L	ND	1.0	01/08/14 12:22	
Toluene	ug/L	ND	1.0	01/08/14 12:22	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/08/14 12:22	
Trichloroethene	ug/L	ND	1.0	01/08/14 12:22	
Vinyl chloride	ug/L	ND	1.0	01/08/14 12:22	
Xylene (Total)	ug/L	ND	3.0	01/08/14 12:22	
1,2-Dichloroethane-d4 (S)	%	102	80-120	01/08/14 12:22	
4-Bromofluorobenzene (S)	%	100	80-120	01/08/14 12:22	
Toluene-d8 (S)	%	100	80-120	01/08/14 12:22	

LABORATORY CONTROL SAMPLE: 1314997

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.6	93	75-124	
1,1,2,2-Tetrachloroethane	ug/L	20	18.2	91	73-120	
1,1,2-Trichloroethane	ug/L	20	20.7	104	76-120	
1,2-Dichloroethane	ug/L	20	19.7	99	72-122	
1,4-Dichlorobenzene	ug/L	20	20.1	100	80-120	
2-Butanone (MEK)	ug/L	100	81.7	82	69-124	
4-Methyl-2-pentanone (MIBK)	ug/L	100	97.5	97	72-123	
Acetone	ug/L	100	79.2	79	60-126	
Benzene	ug/L	20	20.3	102	73-122	
Bromodichloromethane	ug/L	20	20.8	104	73-120	

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QUALITY CONTROL DATA

Project: UNTREATED COMMINGLED
Pace Project No.: 60160757

LABORATORY CONTROL SAMPLE: 1314997

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	21.3	107	74-120	
Bromomethane	ug/L	20	19.0	95	40-146	
Carbon tetrachloride	ug/L	20	20.1	100	73-125	
Chloroethane	ug/L	20	17.7	89	56-159	
Chloroform	ug/L	20	20.8	104	76-120	
cis-1,2-Dichloroethene	ug/L	20	19.1	95	69-120	
Ethylbenzene	ug/L	20	20.0	100	76-123	
Methylene chloride	ug/L	20	18.6	93	71-123	
Tetrachloroethene	ug/L	20	19.3	96	79-122	
Toluene	ug/L	20	19.6	98	76-122	
trans-1,2-Dichloroethene	ug/L	20	18.9	94	78-126	
Trichloroethene	ug/L	20	21.5	107	76-120	
Vinyl chloride	ug/L	20	17.8	89	57-140	
Xylene (Total)	ug/L	60	58.8	98	76-122	
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			105	80-120	

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QUALITY CONTROL DATA

Project: UNTREATED COMMINGLED
Pace Project No.: 60160757

QC Batch: WET/45604
QC Batch Method: EPA 1664A
Analysis Method: EPA 1664A
Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60160757001

METHOD BLANK: 1317218
Matrix: Water
Associated Lab Samples: 60160757001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/14/14 13:49	

LABORATORY CONTROL SAMPLE: 1317219

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.3	98	78-114	

MATRIX SPIKE SAMPLE: 1317220

Parameter	Units	60160834001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	1530	161	1700	111	78-114	

SAMPLE DUPLICATE: 1317221

Parameter	Units	60160927001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1520	1900	22	18	D6

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QUALITY CONTROL DATA

Project: UNTREATED COMMINGLED
Pace Project No.: 60160757

QC Batch: WET/45590 | Analysis Method: SM 2540B
QC Batch Method: SM 2540B | Analysis Description: 2540B Total Solids
Associated Lab Samples: 60160757001

METHOD BLANK: 1316827 | Matrix: Water
Associated Lab Samples: 60160757001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	5.0	01/13/14 14:48	

LABORATORY CONTROL SAMPLE: 1316828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	1000	953	95	80-120	

SAMPLE DUPLICATE: 1316830

Parameter	Units	60160715001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	14100	14800	5	10	

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QUALIFIERS

Project: UNTREATED COMMINGLED
Pace Project No.: 60160757

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

BATCH QUALIFIERS

Batch: MSV/58758

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
pH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: UNTREATED COMMINGLED
Pace Project No.: 60160757

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60160757001	**TCLP- 1-6**	EPA 8260	MSV/58820		
60160757001	**TCLP- 1-6**	EPA 5030B/8260	MSV/58758		
60160757002	**TRIP BLANK**	EPA 5030B/8260	MSV/58758		
60160757001	**TCLP- 1-6**	EPA 1664A	WET/45604		
60160757001	**TCLP- 1-6**	SM 2540B	WET/45590		

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Sample Condition Upon Receipt

WO#: 60160757
60160757

Client Name: Barr

Optional
Proj Due Date:
Proj Name:

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

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☑ None ☐ Other ☑ zplc

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 3.2

Temperature should be above freezing to 6°C

Date and initials of person examining contents: pu 1/8/14

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 & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐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	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☑Yes ☐No ☐N/A	13.
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased): cover	☑Yes ☐No ☐N/A	15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 1/8/14

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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.

Page: 1 of 1

Section A Required Client Information:

Company:	BARR ENGINEERING
Address:	
Email To:	
Phone:	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	ED GALBRAITH/BARR
Copy To:	SCOTT FEDAK/FEEZOR DANA BAKER/MARGARET TREANOR-BARR
Purchase Order No.:	PO 3727110
Project Name:	UNTREATED COMMINGLED
Project Number:	

Section C Invoice Information:

Attention:	JANET ROLLEN
Company Name:	REPUBLIC SERVICES
Address:	BRIDGETON, MO 63044
Pace Quote Reference:	
Pace Project Manager:	Angie Brown 913-563-1402
Pace Profile #:	PROFILE 6787-LINE 6

REGULATORY AGENCY

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

Site Location STATE: MO

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	8260 Volatiles **	TCLP Volatiles *	% Solids	Oil and Grease	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 60160757
1	~~3/6-171~~			~~12-20-13~~																				** total VOCs Bridgeton List
2	TCLP 1-6	OT	G	—	—	1/6/14	1130		7	2	2		3		2	AGIU			✓	✓	✓	✓	001	* footnote %dry solids TCLP
3	TRIP BLANK	—		—	—	—	—		2				2						✓					2DGAH 002
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Andrew Fedak / FEI	1-7-14	1405	[signature]	1-7-14	1405
				[signature] PASE	1/8/14	0225

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: ~~Paul Gascot~~ WILLIAM ABERNATHY

SIGNATURE of SAMPLER: ~~Paul Gascot~~

DATE Signed (MM/DD/YY): ~~12-20-13~~ 1/6/14

*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

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TCLP/SPLP Determination of Percent Solids

(Only if sample is liquid or semi-liquid. Skip if sample is obviously 100% solid.)

Date: 1/13/14 Batch: 6079

Analyst: CEM Balance ID: 6000ET3 Reviewed by: [illegible] 1/14/14

Sample Number	A Weight of Beaker (g)	B Weight of Sample & Beaker (g)	C Weight of Filtrate Container (g)	D Weight of 142-mm TCLP Filter (g)	E Weight of Waste Beaker After Filtration (g)	F Weight of Filtrate & Container (g)	G Weight of Filter and Solid Phase After Filtration (g)	H Weight of Filtrate (g) (F - C)	I Weight of Waste Filtered (g) (E - B)	J Percent WET Solids $\left(\frac{(I - H)}{I \times 0.01}\right)$	K DRY Weight #1 of Solid Phase plus Filter (g)	L DRY Weight #2 of Solid Phase plus Filter (g) (1)	M Percent DRY Solids $\left(\frac{(L - D)}{I \times 0.01}\right)$	If Multiphase, Are Phases Compatible (2)
601G075700	108.3	226.5	280.7	1.3	109.1	392.9	3.0	112.2	117.4	4.4%	1.6	1.5	0.17%	Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA
						CEM 1/14/14								Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA

NOTE: If Wet Solids are ≥0.5 and <5% and a small amount of liquid is entrapped in the filter, then determine Percent Dry Solids. If the entrapped liquid is oily (non-aqueous) do not determine Percent Dry Solids. If Solids are <0.5%, tumbling is not required because the filtrate is considered to be the TCLP/SPLP extract.

(1) Dry Weight #1 and Dry Weight #2 must be within 1% of each other. If the weights are within 1% of each other, use Dry Weight #2 in further calculations. If not within 1%, continue drying and weighing until two successive weighings are within 1%.

(2) If compatible, combine the filtered liquid resulting from extraction with the initial liquid phase of sample. If the initial liquid phase is not compatible with the filtered liquid resulting from extraction, do not combine. Analyze liquids separately and combine the results mathematically.

If solids are ≥5.0 and <100%	Weight of waste to charge the ZHE = $\frac{25}{\text{Percent solids}} \times 100$ Weight of waste to filter = $\frac{\text{mL of leachate required}}{20 \times \text{Percent solids}} \times 100$

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January 16, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-188RRRRRRR
Pace Project No.: 60160834

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 09, 2014. 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,

Mary Jane Walls for
Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

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CERTIFICATIONS

Project: BRIDGETON LF 316-188RRRRRRR
Pace Project No.: 60160834

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-188RRRRRRR
Pace Project No.: 60160834

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60160834001	**316-188RRRRRRR**	Water	01/08/14 11:45	01/09/14 02:00
60160834002	**TRIP BLANK**	Water	01/08/14 11:45	01/09/14 02:00

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-188RRRRRRR
Pace Project No.: 60160834

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60160834001	**316-188RRRRRRR**	EPA 200.7	JGP, NDJ	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	16
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC	1
		SM 4500-H+B	JML	1
		SM 5210B	JML	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC	1
60160834002	**TRIP BLANK**	EPA 624 Low	EAK	28

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-188RRRRRRR
Pace Project No.: 60160834

Sample: 316-188RRRRRRR **Lab ID: 60160834001** Collected: 01/08/14 11:45 Received: 01/09/14 02:00 Matrix: Water

Comments: • The sample volume received for volatiles by EPA 624 were preserved with Trisodiumphosphate, which was provided in the sampling kit in error. The volume for volatiles analyses is thus treated as received as unpreserved and analyzed within 7 calendar days of sample collection.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	**6760**	ug/L	750	2	01/14/14 09:40	01/15/14 10:20	7429-90-5	
Antimony	ND	ug/L	50.0	1	01/14/14 09:40	01/15/14 10:18	7440-36-0	
Arsenic	**900**	ug/L	50.0	1	01/14/14 09:40	01/15/14 10:18	7440-38-2	
Beryllium	ND	ug/L	10.0	2	01/14/14 09:40	01/15/14 10:20	7440-41-7	
Cadmium	ND	ug/L	25.0	1	01/14/14 09:40	01/15/14 10:18	7440-43-9	
Chromium	**286**	ug/L	25.0	1	01/14/14 09:40	01/15/14 10:18	7440-47-3	
Cobalt	**41.1**	ug/L	25.0	1	01/14/14 09:40	01/15/14 10:18	7440-48-4	
Copper	ND	ug/L	50.0	1	01/14/14 09:40	01/15/14 14:14	7440-50-8	
Iron	**868000**	ug/L	250	1	01/14/14 09:40	01/15/14 10:18	7439-89-6	M1
Lead	**134**	ug/L	25.0	1	01/14/14 09:40	01/15/14 10:18	7439-92-1	
Nickel	**112**	ug/L	25.0	1	01/14/14 09:40	01/15/14 10:18	7440-02-0	
Selenium	ND	ug/L	75.0	1	01/14/14 09:40	01/15/14 10:18	7782-49-2	
Silver	ND	ug/L	35.0	1	01/14/14 09:40	01/15/14 10:18	7440-22-4	
Thallium	ND	ug/L	100	1	01/14/14 09:40	01/15/14 10:18	7440-28-0	
Zinc	**8720**	ug/L	500	2	01/14/14 09:40	01/15/14 10:20	7440-66-6	
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	**1610**	ug/L	750	2	01/13/14 15:35	01/14/14 13:40	7429-90-5	
Antimony, Dissolved	ND	ug/L	100	2	01/13/14 15:35	01/14/14 13:40	7440-36-0	D3
Arsenic, Dissolved	**733**	ug/L	50.0	1	01/13/14 15:35	01/14/14 13:30	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	01/13/14 15:35	01/14/14 13:30	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	01/13/14 15:35	01/14/14 13:30	7440-43-9	
Chromium, Dissolved	**243**	ug/L	25.0	1	01/13/14 15:35	01/14/14 13:30	7440-47-3	
Cobalt, Dissolved	ND	ug/L	25.0	1	01/13/14 15:35	01/14/14 13:30	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	01/13/14 15:35	01/14/14 13:30	7440-50-8	
Iron, Dissolved	**601000**	ug/L	250	1	01/13/14 15:35	01/14/14 13:30	7439-89-6	M1
Lead, Dissolved	**88.8**	ug/L	25.0	1	01/13/14 15:35	01/14/14 13:30	7439-92-1	
Nickel, Dissolved	**84.4**	ug/L	25.0	1	01/13/14 15:35	01/14/14 13:30	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	01/13/14 15:35	01/14/14 13:30	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	01/13/14 15:35	01/14/14 13:30	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	01/13/14 15:35	01/14/14 13:30	7440-28-0	
Zinc, Dissolved	**8200**	ug/L	500	2	01/13/14 15:35	01/14/14 13:40	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**24.5**	ug/L	6.0	1	01/14/14 09:00	01/14/14 12:22	7439-97-6	
245.1 Mercury, Dissolved (LF)	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	6.0	1	01/14/14 09:00	01/14/14 13:15	7439-97-6	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	50.0	2	01/09/14 00:00	01/10/14 16:57	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	2	01/09/14 00:00	01/10/14 16:57	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	10.0	2	01/09/14 00:00	01/10/14 16:57	77-47-4	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-188RRRRRRR
Pace Project No.: 60160834

Sample: 316-188RRRRRRR **Lab ID: 60160834001** Collected: 01/08/14 11:45 Received: 01/09/14 02:00 Matrix: Water

Comments: • The sample volume received for volatiles by EPA 624 were preserved with Trisodiumphosphate, which was provided in the sampling kit in error. The volume for volatiles analyses is thus treated as received as unpreserved and analyzed within 7 calendar days of sample collection.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Hexachloroethane	ND	ug/L	10.0	2	01/09/14 00:00	01/10/14 16:57	67-72-1	
Naphthalene	**17.1**	ug/L	10.0	2	01/09/14 00:00	01/10/14 16:57	91-20-3	
Nitrobenzene	ND	ug/L	10.0	2	01/09/14 00:00	01/10/14 16:57	98-95-3	
Pentachlorophenol	ND	ug/L	10.0	2	01/09/14 00:00	01/10/14 16:57	87-86-5	
Phenol	**88.8**	ug/L	10.0	2	01/09/14 00:00	01/10/14 16:57	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	2	01/09/14 00:00	01/10/14 16:57	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	10.0	2	01/09/14 00:00	01/10/14 16:57	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	129	%	33-120	2	01/09/14 00:00	01/10/14 16:57	4165-60-0	S0
2-Fluorobiphenyl (S)	89	%	39-120	2	01/09/14 00:00	01/10/14 16:57	321-60-8	
Terphenyl-d14 (S)	84	%	45-120	2	01/09/14 00:00	01/10/14 16:57	1718-51-0	
Phenol-d6 (S)	40	%	11-120	2	01/09/14 00:00	01/10/14 16:57	13127-88-3	
2-Fluorophenol (S)	43	%	17-120	2	01/09/14 00:00	01/10/14 16:57	367-12-4	
2,4,6-Tribromophenol (S)	88	%	39-120	2	01/09/14 00:00	01/10/14 16:57	118-79-6	
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	**170000**	ug/L	2000	200		01/10/14 12:24	67-64-1	N2
Benzene	ND	ug/L	200	200		01/10/14 12:24	71-43-2	
Bromodichloromethane	ND	ug/L	200	200		01/10/14 12:24	75-27-4	
Bromoform	ND	ug/L	200	200		01/10/14 12:24	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/10/14 12:24	74-83-9	
2-Butanone (MEK)	**80200**	ug/L	2000	200		01/10/14 12:24	78-93-3	N2
Carbon tetrachloride	ND	ug/L	200	200		01/10/14 12:24	56-23-5	
Chloroethane	ND	ug/L	200	200		01/10/14 12:24	75-00-3	
Chloroform	ND	ug/L	200	200		01/10/14 12:24	67-66-3	
1,4-Dichlorobenzene	**1330**	ug/L	200	200		01/10/14 12:24	106-46-7	
1,2-Dichloroethane	ND	ug/L	200	200		01/10/14 12:24	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/10/14 12:24	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/10/14 12:24	156-60-5	
Ethylbenzene	ND	ug/L	200	200		01/10/14 12:24	100-41-4	
Methylene chloride	ND	ug/L	200	200		01/10/14 12:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	**3230**	ug/L	2000	200		01/10/14 12:24	108-10-1	N2
1,1,2,2-Tetrachloroethane	**271**	ug/L	200	200		01/10/14 12:24	79-34-5	N2
Tetrachloroethene	ND	ug/L	200	200		01/10/14 12:24	127-18-4	
Toluene	ND	ug/L	200	200		01/10/14 12:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/10/14 12:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		01/10/14 12:24	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/10/14 12:24	79-01-6	
Vinyl chloride	ND	ug/L	200	200		01/10/14 12:24	75-01-4	
Xylene (Total)	ND	ug/L	600	200		01/10/14 12:24	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	103	%	80-120	200		01/10/14 12:24	460-00-4	
Toluene-d8 (S)	98	%	80-120	200		01/10/14 12:24	2037-26-5	
1,2-Dichloroethane-d4 (S)	96	%	80-120	200		01/10/14 12:24	17060-07-0	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-188RRRRRRR
Pace Project No.: 60160834

Sample: 316-188RRRRRRR **Lab ID: 60160834001** Collected: 01/08/14 11:45 Received: 01/09/14 02:00 Matrix: Water

Comments: • The sample volume received for volatiles by EPA 624 were preserved with Trisodiumphosphate, which was provided in the sampling kit in error. The volume for volatiles analyses is thus treated as received as unpreserved and analyzed within 7 calendar days of sample collection.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Preservation pH	**6.0**		1.0	200		01/10/14 12:24		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	**1530**	mg/L	5.0	1		01/14/14 13:50		
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	**71.8**	mg/L	5.0	1		01/14/14 13:52		M1
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**2400**	mg/L	5.0	1		01/10/14 09:39		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**5.5**	Std. Units	0.10	1		01/09/14 15:24		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**32500**	mg/L	2.0	1	01/10/14 09:56	01/15/14 08:51		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**709**	mg/L	20.0	200		01/14/14 11:41	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**44400**	mg/L	5000	500		01/16/14 10:31		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-188RRRRRRR
Pace Project No.: 60160834

Sample: TRIP BLANK **Lab ID: 60160834002** Collected: 01/08/14 11:45 Received: 01/09/14 02:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	ND	ug/L	10.0	1		01/10/14 12:54	67-64-1	N2
Benzene	ND	ug/L	1.0	1		01/10/14 12:54	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		01/10/14 12:54	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/10/14 12:54	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/10/14 12:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/10/14 12:54	78-93-3	N2
Carbon tetrachloride	ND	ug/L	1.0	1		01/10/14 12:54	56-23-5	
Chloroethane	ND	ug/L	1.0	1		01/10/14 12:54	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/10/14 12:54	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/10/14 12:54	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/10/14 12:54	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/10/14 12:54	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/10/14 12:54	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/10/14 12:54	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		01/10/14 12:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/10/14 12:54	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/10/14 12:54	79-34-5	N2
Tetrachloroethene	ND	ug/L	1.0	1		01/10/14 12:54	127-18-4	
Toluene	ND	ug/L	1.0	1		01/10/14 12:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/10/14 12:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/10/14 12:54	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/10/14 12:54	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/10/14 12:54	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/10/14 12:54	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	104	%	80-120	1		01/10/14 12:54	460-00-4	
Toluene-d8 (S)	105	%	80-120	1		01/10/14 12:54	2037-26-5	
1,2-Dichloroethane-d4 (S)	96	%	80-120	1		01/10/14 12:54	17060-07-0	
Preservation pH	**6.0**		1.0	1		01/10/14 12:54		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-188RRRRRRR
Pace Project No.: 60160834

QC Batch: MERP/8063
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Associated Lab Samples: 60160834001

METHOD BLANK: 1316884
Matrix: Water
Associated Lab Samples: 60160834001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/14/14 12:11	

LABORATORY CONTROL SAMPLE: 1316885

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1316886 1316887

Parameter	Units	60160952001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	0.67	0.65	12	12	70-130	3	20	M1

MATRIX SPIKE SAMPLE: 1316888

Parameter	Units	60160834001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	24.5	150	181	104	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-188RRRRRRR
Pace Project No.: 60160834

QC Batch: MERP/8062
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60160834001

METHOD BLANK: 1316880
Matrix: Water
Associated Lab Samples: 60160834001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	01/14/14 13:00	

LABORATORY CONTROL SAMPLE: 1316881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1316882 1316883

Parameter	Units	60160952001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	0.47	0.56	9	11	70-130	17	20	M1

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-188RRRRRRR
Pace Project No.: 60160834

QC Batch: MPRP/25879
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60160834001

METHOD BLANK: 1316953
Matrix: Water
Associated Lab Samples: 60160834001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	01/15/14 10:13	
Antimony	ug/L	ND	10.0	01/15/14 10:13	
Arsenic	ug/L	ND	10.0	01/15/14 10:13	
Beryllium	ug/L	ND	1.0	01/15/14 10:13	
Cadmium	ug/L	ND	5.0	01/15/14 10:13	
Chromium	ug/L	ND	5.0	01/15/14 10:13	
Cobalt	ug/L	ND	5.0	01/15/14 10:13	
Copper	ug/L	ND	10.0	01/15/14 14:07	
Iron	ug/L	ND	50.0	01/15/14 10:13	
Lead	ug/L	ND	5.0	01/15/14 10:13	
Nickel	ug/L	ND	5.0	01/15/14 10:13	
Selenium	ug/L	ND	15.0	01/15/14 10:13	
Silver	ug/L	ND	7.0	01/15/14 10:13	
Thallium	ug/L	ND	20.0	01/15/14 10:13	
Zinc	ug/L	ND	50.0	01/15/14 10:13	

LABORATORY CONTROL SAMPLE: 1316954

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10300	103	85-115	
Antimony	ug/L	1000	1030	103	85-115	
Arsenic	ug/L	1000	932	93	85-115	
Beryllium	ug/L	1000	1050	105	85-115	
Cadmium	ug/L	1000	973	97	85-115	
Chromium	ug/L	1000	1070	107	85-115	
Cobalt	ug/L	1000	1000	100	85-115	
Copper	ug/L	1000	963	96	85-115	
Iron	ug/L	10000	10400	104	85-115	
Lead	ug/L	1000	1040	104	85-115	
Nickel	ug/L	1000	1050	105	85-115	
Selenium	ug/L	1000	1010	101	85-115	
Silver	ug/L	500	537	107	85-115	
Thallium	ug/L	1000	1000	100	85-115	
Zinc	ug/L	1000	955	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1316955 1316956

Parameter	Units	60160834001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	6760	50000	50000	64400	63800	115	114	70-130	1	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-188RRRRRRR
Pace Project No.: 60160834

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1316955 1316956

Parameter	Units	60160834001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	5000	5000	5330	5320	106	106	70-130	0	7	
Arsenic	ug/L	900	5000	5000	6280	6250	108	107	70-130	1	10	
Beryllium	ug/L	ND	5000	5000	5060	5080	101	102	70-130	0	7	
Cadmium	ug/L	ND	5000	5000	5140	5120	103	102	70-130	0	10	
Chromium	ug/L	286	5000	5000	5460	5500	104	104	70-130	1	10	
Cobalt	ug/L	41.1	5000	5000	4780	4770	95	95	70-130	0	6	
Copper	ug/L	ND	5000	5000	5050	5010	100	100	70-130	1	11	
Iron	ug/L	868000	50000	50000	1010000	993000	289	250	70-130	2	10	M1
Lead	ug/L	134	5000	5000	4670	4670	91	91	70-130	0	10	
Nickel	ug/L	112	5000	5000	4960	4970	97	97	70-130	0	10	
Selenium	ug/L	ND	5000	5000	6060	6060	120	120	70-130	0	10	
Silver	ug/L	ND	2500	2500	2830	2840	113	114	70-130	0	10	
Thallium	ug/L	ND	5000	5000	3960	3960	79	79	70-130	0	6	
Zinc	ug/L	8720	5000	5000	14000	13800	106	103	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-188RRRRRRR
Pace Project No.: 60160834

QC Batch: MPRP/25873
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60160834001

METHOD BLANK: 1316782
Matrix: Water
Associated Lab Samples: 60160834001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	01/14/14 13:24	
Antimony, Dissolved	ug/L	ND	10.0	01/14/14 13:24	
Arsenic, Dissolved	ug/L	ND	10.0	01/14/14 13:24	
Beryllium, Dissolved	ug/L	ND	1.0	01/14/14 13:24	
Cadmium, Dissolved	ug/L	ND	5.0	01/14/14 13:24	
Chromium, Dissolved	ug/L	ND	5.0	01/14/14 13:24	
Cobalt, Dissolved	ug/L	ND	5.0	01/14/14 13:24	
Copper, Dissolved	ug/L	ND	10.0	01/14/14 13:24	
Iron, Dissolved	ug/L	71.8	50.0	01/14/14 13:24	
Lead, Dissolved	ug/L	ND	5.0	01/14/14 13:24	
Nickel, Dissolved	ug/L	ND	5.0	01/14/14 13:24	
Selenium, Dissolved	ug/L	ND	15.0	01/14/14 13:24	
Silver, Dissolved	ug/L	ND	7.0	01/14/14 13:24	
Thallium, Dissolved	ug/L	ND	20.0	01/14/14 13:24	
Zinc, Dissolved	ug/L	ND	50.0	01/14/14 13:24	

LABORATORY CONTROL SAMPLE: 1316783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9510	95	85-115	
Antimony, Dissolved	ug/L	1000	1030	103	85-115	
Arsenic, Dissolved	ug/L	1000	977	98	85-115	
Beryllium, Dissolved	ug/L	1000	1010	101	85-115	
Cadmium, Dissolved	ug/L	1000	1010	101	85-115	
Chromium, Dissolved	ug/L	1000	987	99	85-115	
Cobalt, Dissolved	ug/L	1000	994	99	85-115	
Copper, Dissolved	ug/L	1000	978	98	85-115	
Iron, Dissolved	ug/L	10000	9820	98	85-115	
Lead, Dissolved	ug/L	1000	1020	102	85-115	
Nickel, Dissolved	ug/L	1000	1000	100	85-115	
Selenium, Dissolved	ug/L	1000	1010	101	85-115	
Silver, Dissolved	ug/L	500	498	100	85-115	
Thallium, Dissolved	ug/L	1000	1040	104	85-115	
Zinc, Dissolved	ug/L	1000	994	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1316784 1316785

Parameter	Units	60160834001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	1610	50000	50000	53800	54100	104	105	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-188RRRRRRR
Pace Project No.: 60160834

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1316784 1316785

Parameter	Units	60160834001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	5000	5000	5120	5090	102	101	70-130	1	7	
Arsenic, Dissolved	ug/L	733	5000	5000	5730	5720	100	100	70-130	0	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	5080	5060	102	101	70-130	0	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	4980	4990	99	100	70-130	0	10	
Chromium, Dissolved	ug/L	243	5000	5000	5140	5150	98	98	70-130	0	10	
Cobalt, Dissolved	ug/L	ND	5000	5000	4980	4980	99	99	70-130	0	6	
Copper, Dissolved	ug/L	ND	5000	5000	4850	4860	97	97	70-130	0	11	
Iron, Dissolved	ug/L	601000	50000	50000	564000	557000	-73	-88	70-130	1	10	M1
Lead, Dissolved	ug/L	88.8	5000	5000	4760	4750	93	93	70-130	0	10	
Nickel, Dissolved	ug/L	84.4	5000	5000	5080	5080	100	100	70-130	0	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5280	5230	105	104	70-130	1	10	
Silver, Dissolved	ug/L	ND	2500	2500	2490	2500	100	100	70-130	0	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4270	4290	85	86	70-130	0	6	
Zinc, Dissolved	ug/L	8200	5000	5000	12300	12200	82	81	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-188RRRRRRR
Pace Project No.: 60160834

QC Batch: MSV/58791 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60160834001, 60160834002

METHOD BLANK: 1315827 | Matrix: Water
Associated Lab Samples: 60160834001, 60160834002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/10/14 12:09	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/10/14 12:09	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/10/14 12:09	
1,2-Dichloroethane	ug/L	ND	1.0	01/10/14 12:09	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/10/14 12:09	
2-Butanone (MEK)	ug/L	ND	10.0	01/10/14 12:09	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/10/14 12:09	N2
Acetone	ug/L	ND	10.0	01/10/14 12:09	N2
Benzene	ug/L	ND	1.0	01/10/14 12:09	
Bromodichloromethane	ug/L	ND	1.0	01/10/14 12:09	
Bromoform	ug/L	ND	1.0	01/10/14 12:09	
Bromomethane	ug/L	ND	5.0	01/10/14 12:09	
Carbon tetrachloride	ug/L	ND	1.0	01/10/14 12:09	
Chloroethane	ug/L	ND	1.0	01/10/14 12:09	
Chloroform	ug/L	ND	1.0	01/10/14 12:09	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/10/14 12:09	N2
Ethylbenzene	ug/L	ND	1.0	01/10/14 12:09	
Methylene chloride	ug/L	ND	1.0	01/10/14 12:09	
Tetrachloroethene	ug/L	ND	1.0	01/10/14 12:09	
Toluene	ug/L	ND	1.0	01/10/14 12:09	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/10/14 12:09	
Trichloroethene	ug/L	ND	1.0	01/10/14 12:09	
Vinyl chloride	ug/L	ND	1.0	01/10/14 12:09	
Xylene (Total)	ug/L	ND	3.0	01/10/14 12:09	N2
1,2-Dichloroethane-d4 (S)	%	91	80-120	01/10/14 12:09	
4-Bromofluorobenzene (S)	%	100	80-120	01/10/14 12:09	
Toluene-d8 (S)	%	103	80-120	01/10/14 12:09	

LABORATORY CONTROL SAMPLE: 1315828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.7	88	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	17.9	90	59-138	N2
1,1,2-Trichloroethane	ug/L	20	17.5	87	69-127	
1,2-Dichloroethane	ug/L	20	18.1	91	71-129	
1,4-Dichlorobenzene	ug/L	20	19.8	99	68-124	
2-Butanone (MEK)	ug/L	100	88.2	88	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	94.4	94	61-120	N2
Acetone	ug/L	100	82.8	83	40-160	N2
Benzene	ug/L	20	18.9	95	73-129	
Bromodichloromethane	ug/L	20	19.2	96	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-188RRRRRRR
Pace Project No.: 60160834

LABORATORY CONTROL SAMPLE: 1315828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	21.2	106	52-123	
Bromomethane	ug/L	20	16.8	84	10-160	
Carbon tetrachloride	ug/L	20	18.1	91	70-140	
Chloroethane	ug/L	20	18.8	94	42-160	
Chloroform	ug/L	20	19.8	99	60-120	
cis-1,2-Dichloroethene	ug/L	20	18.3	91	70-125	N2
Ethylbenzene	ug/L	20	19.5	97	66-133	
Methylene chloride	ug/L	20	18.3	91	56-135	
Tetrachloroethene	ug/L	20	19.3	96	64-143	
Toluene	ug/L	20	18.4	92	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.9	84	67-149	
Trichloroethene	ug/L	20	19.1	95	71-130	
Vinyl chloride	ug/L	20	18.6	93	41-160	
Xylene (Total)	ug/L	60	56.7	94	67-130	N2
1,2-Dichloroethane-d4 (S)	%			95	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			98	80-120	

MATRIX SPIKE SAMPLE: 1315829

Parameter	Units	60160834001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3340	83	52-160	
1,1,2,2-Tetrachloroethane	ug/L	271	4000	3460	80	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	3470	87	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3250	81	49-155	
1,4-Dichlorobenzene	ug/L	1330	4000	4760	86	18-147	
2-Butanone (MEK)	ug/L	80200	20000	108000	137	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	3230	20000	20800	88	40-160	N2
Acetone	ug/L	170000	20000	182000	59	40-160	N2
Benzene	ug/L	ND	4000	3470	87	37-151	
Bromodichloromethane	ug/L	ND	4000	3620	90	35-155	
Bromoform	ug/L	ND	4000	3890	97	45-133	
Bromomethane	ug/L	ND	4000	3130	78	10-160	
Carbon tetrachloride	ug/L	ND	4000	3610	90	70-140	
Chloroethane	ug/L	ND	4000	3450	86	14-160	
Chloroform	ug/L	ND	4000	3170	79	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3430	86	19-160	N2
Ethylbenzene	ug/L	ND	4000	3590	88	37-154	
Methylene chloride	ug/L	ND	4000	3410	85	15-156	
Tetrachloroethene	ug/L	ND	4000	3910	98	64-148	
Toluene	ug/L	ND	4000	3560	89	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	3330	83	54-156	
Trichloroethene	ug/L	ND	4000	3650	91	71-157	
Vinyl chloride	ug/L	ND	4000	3620	90	10-160	
Xylene (Total)	ug/L	ND	12000	10600	89	12-153	N2
1,2-Dichloroethane-d4 (S)	%				98	80-120	
4-Bromofluorobenzene (S)	%				100	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-188RRRRRRR
Pace Project No.: 60160834

MATRIX SPIKE SAMPLE: 1315829

Parameter	Units	60160834001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				101	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-188RRRRRRR
Pace Project No.: 60160834

QC Batch: OEXT/42199 | Analysis Method: EPA 625
QC Batch Method: EPA 625 | Analysis Description: 625 MSS
Associated Lab Samples: 60160834001

METHOD BLANK: 1315562 | Matrix: Water
Associated Lab Samples: 60160834001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/10/14 12:07	
2,4,6-Trichlorophenol	ug/L	ND	5.0	01/10/14 12:07	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	01/10/14 12:07	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/10/14 12:07	
Hexachlorocyclopentadiene	ug/L	ND	5.0	01/10/14 12:07	
Hexachloroethane	ug/L	ND	5.0	01/10/14 12:07	
Naphthalene	ug/L	ND	5.0	01/10/14 12:07	
Nitrobenzene	ug/L	ND	5.0	01/10/14 12:07	
Pentachlorophenol	ug/L	ND	5.0	01/10/14 12:07	
Phenol	ug/L	ND	5.0	01/10/14 12:07	
2,4,6-Tribromophenol (S)	%	83	39-120	01/10/14 12:07	
2-Fluorobiphenyl (S)	%	92	39-120	01/10/14 12:07	
2-Fluorophenol (S)	%	44	17-120	01/10/14 12:07	
Nitrobenzene-d5 (S)	%	86	33-120	01/10/14 12:07	
Phenol-d6 (S)	%	29	11-120	01/10/14 12:07	
Terphenyl-d14 (S)	%	93	45-120	01/10/14 12:07	

LABORATORY CONTROL SAMPLE: 1315563

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	42.1	84	46-120	
2,4,6-Trichlorophenol	ug/L	50	43.6	87	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	45.9	92	40-133	
Hexachloro-1,3-butadiene	ug/L	50	41.8	84	44-116	
Hexachlorocyclopentadiene	ug/L	100	82.3	82	24-120	
Hexachloroethane	ug/L	50	39.9	80	43-113	
Naphthalene	ug/L	50	42.2	84	48-120	
Nitrobenzene	ug/L	50	42.5	85	48-120	
Pentachlorophenol	ug/L	50	44.5	89	47-120	
Phenol	ug/L	50	15.8	32	16-112	
2,4,6-Tribromophenol (S)	%			93	39-120	
2-Fluorobiphenyl (S)	%			96	39-120	
2-Fluorophenol (S)	%			44	17-120	
Nitrobenzene-d5 (S)	%			91	33-120	
Phenol-d6 (S)	%			30	11-120	
Terphenyl-d14 (S)	%			98	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-188RRRRRRR
Pace Project No.: 60160834

MATRIX SPIKE SAMPLE: 1315564

Parameter	Units	60160834001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	41.2	82	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	47.4	95	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	50	40.7J	81	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	41.8	84	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	66.7	67	11-120	
Hexachloroethane	ug/L	ND	50	39.4	79	40-113	
Naphthalene	ug/L	17.1	50	58.7	83	45-120	
Nitrobenzene	ug/L	ND	50	41.8	84	38-120	
Pentachlorophenol	ug/L	ND	50	54.1	108	43-135	
Phenol	ug/L	88.8	50	116	54	13-112	
2,4,6-Tribromophenol (S)	%				101	39-120	
2-Fluorobiphenyl (S)	%				98	39-120	
2-Fluorophenol (S)	%				48	17-120	
Nitrobenzene-d5 (S)	%				144	33-120	S0
Phenol-d6 (S)	%				44	11-120	
Terphenyl-d14 (S)	%				94	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-188RRRRRRR
Pace Project No.: 60160834

QC Batch: WET/45604
QC Batch Method: EPA 1664A
Analysis Method: EPA 1664A
Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60160834001

METHOD BLANK: 1317218
Matrix: Water
Associated Lab Samples: 60160834001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/14/14 13:49	

LABORATORY CONTROL SAMPLE: 1317219

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.3	98	78-114	

MATRIX SPIKE SAMPLE: 1317220

Parameter	Units	60160834001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	1530	161	1700	111	78-114	

SAMPLE DUPLICATE: 1317221

Parameter	Units	60160927001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1520	1900	22	18	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-188RRRRRRR
Pace Project No.: 60160834

QC Batch: WET/45603
QC Batch Method: EPA 1664A
Analysis Method: EPA 1664A
Analysis Description: 1664 SGT-HEM, TPH
Associated Lab Samples: 60160834001

METHOD BLANK: 1317211
Matrix: Water
Associated Lab Samples: 60160834001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	01/14/14 13:51	

LABORATORY CONTROL SAMPLE: 1317212

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	18.3	92	64-132	

MATRIX SPIKE SAMPLE: 1317213

Parameter	Units	60160834001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	71.8	80.6	111	48	64-132	M1

SAMPLE DUPLICATE: 1317214

Parameter	Units	60160927001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	45.5	49.5	9	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-188RRRRRRR
Pace Project No.: 60160834

QC Batch: WET/45545 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60160834001

METHOD BLANK: 1315619 | Matrix: Water
Associated Lab Samples: 60160834001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	01/10/14 09:36	

SAMPLE DUPLICATE: 1315620

Parameter	Units	60160750002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		25	

SAMPLE DUPLICATE: 1315621

Parameter	Units	60160732003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	128	134	5	25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-188RRRRRRR
Pace Project No.: 60160834

QC Batch: WET/45537
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 60160834001

SAMPLE DUPLICATE: 1315537

Parameter	Units	60160737001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.5	5.5	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-188RRRRRRR
Pace Project No.: 60160834

QC Batch: WET/45547 | Analysis Method: SM 5210B
QC Batch Method: SM 5210B | Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 60160834001

METHOD BLANK: 1315725 | Matrix: Water
Associated Lab Samples: 60160834001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	01/15/14 07:56	

LABORATORY CONTROL SAMPLE: 1315726

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	198	100	85-115	

SAMPLE DUPLICATE: 1315727

Parameter	Units	60160924001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	115	92.2	22	17	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-188RRRRRRR
Pace Project No.: 60160834

QC Batch: WETA/27807
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60160834001

METHOD BLANK: 1316667
Matrix: Water
Associated Lab Samples: 60160834001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	01/14/14 11:16	

LABORATORY CONTROL SAMPLE: 1316668

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	107	90-110	

MATRIX SPIKE SAMPLE: 1316669

Parameter	Units	60160581003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.0	99	90-110	

MATRIX SPIKE SAMPLE: 1316670

Parameter	Units	60160601006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.8	90	90-110	

SAMPLE DUPLICATE: 1316671

Parameter	Units	60160569002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-188RRRRRRR
Pace Project No.: 60160834

QC Batch: WETA/27814 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 60160834001

METHOD BLANK: 1316914 | Matrix: Water
Associated Lab Samples: 60160834001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	01/16/14 10:27	

LABORATORY CONTROL SAMPLE: 1316915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	54.9	110	90-110	

MATRIX SPIKE SAMPLE: 1316918

Parameter	Units	60160823003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	283	500	776	99	90-110	

MATRIX SPIKE SAMPLE: 1316919

Parameter	Units	60160823001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	123	500	633	102	90-110	

SAMPLE DUPLICATE: 1316917

Parameter	Units	60160715003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	2440	2580	5	25	

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QUALIFIERS

Project: BRIDGETON LF 316-188RRRRRRR
Pace Project No.: 60160834

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-188RRRRRRR
Pace Project No.: 60160834

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60160834001	**316-188RRRRRRR**	EPA 200.7	MPRP/25879	EPA 200.7	ICP/19821
60160834001	**316-188RRRRRRR**	EPA 200.7	MPRP/25873	EPA 200.7	ICP/19813
60160834001	**316-188RRRRRRR**	EPA 245.1	MERP/8063	EPA 245.1	MERC/8018
60160834001	**316-188RRRRRRR**	EPA 245.1	MERP/8062	EPA 245.1	MERC/8019
60160834001	**316-188RRRRRRR**	EPA 625	OEXT/42199	EPA 625	MSSV/13435
60160834001	**316-188RRRRRRR**	EPA 624 Low	MSV/58791		
60160834002	**TRIP BLANK**	EPA 624 Low	MSV/58791		
60160834001	**316-188RRRRRRR**	EPA 1664A	WET/45604		
60160834001	**316-188RRRRRRR**	EPA 1664A	WET/45603		
60160834001	**316-188RRRRRRR**	SM 2540D	WET/45545		
60160834001	**316-188RRRRRRR**	SM 4500-H+B	WET/45537		
60160834001	**316-188RRRRRRR**	SM 5210B	WET/45547	SM 5210B	WET/45645
60160834001	**316-188RRRRRRR**	EPA 350.1	WETA/27807		
60160834001	**316-188RRRRRRR**	EPA 410.4	WETA/27814		

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www.pacelabs.com

Sample Condition Upon Receipt

WO#: 60160834

60160834

Client Name: BARR

Optional
Proj Due Date:
Proj Name:

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

Tracking #: _____ Pace Shipping Label Used? Yes ☒ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☒ None ☐ Other ☒ zip

Thermometer Used: (T-239) / T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.4

Temperature should be above freezing to 6°C

Date and initials of person examining contents: 8 1/9/14

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 & signature on COC:	☒Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☒Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☒Yes ☐No ☐N/A	6. BOD, pH
Rush Turn Around Time requested:	☐Yes ☒No ☐N/A	7.
Sufficient volume:	☒Yes ☐No ☐N/A	8.
Correct containers used:	☐Yes ☒No ☐N/A	5 VOA are Sodium Thiosulfate but the lable reads that it should be unpres
Pace containers used:	☒Yes ☐No ☐N/A	9.
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☒Yes ☐No ☐N/A	13.
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	hno3 added to 316-188 RRRRRR 6.0/4.5
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☒No ☐N/A	h2so4 added to 316-188 RRRRRR 6.0/3.0
Exceptions: (VOA) coliform, TOC, O&G, WI-DRO (water), Phenolics	☒Yes ☐No	14. Initial when completed: S Lot # of added preservative: 12518 12513
Trip Blank present: Pace Trip Blank lot # (if purchased): Dec 23	☒Yes ☐No ☐N/A	15.
Headspace in VOA vials (>6mm):	☒Yes ☐No ☐N/A	3 of 5 VOA 16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y (N) Field Data Required? Y (N)

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: Proceed w/ analyses - M

Project Manager Review: _____ Date: 1/9/14

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: BARR ENGINEERING	Report To: ED GALBRAITH/BARR	Attention: JANET ROLLEN
Address:	Copy To: SCOTT FEDAK/FEEZOR	Company Name: REPUBLIC SERVICES
	DANA BAKER/MARGARET TREANOR -BARR	Address: BRIDGETON, MO 63044
Email To:	Purchase Order No. PO 3727110	Pace Quote Reference: 130426_7588
Phone: (816) 285-8410 Fax	Client Project ID: BRIDGETON LF	Pace Project Manager: Brown, Angie
Requested Due Date/TAT: 10 Day (Default)	Container Order Number:	Pace Profile #: 6787 LINE 2

Regulatory Agency
State / Location
Missouri

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	COD EPA 410	pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B		Residual Chlorine (Y/N)	60160834
1	316-188RRRRRRR 5(DGAT)	OT	G	01/08/14	1445	—			14	10	4	1	0	3(AG3S)					X	X	X	X	X	X	X	X	X	X	X	2		6-0 6-0 (0) BP3U, BP3U, BP3N, BP3S, 2(AG4U)
2	TRIP BLANK 2(DG9U) VD								2	2																X						
3																																
4																																
5																																
6																																METALS LIST total & LF Dis:
7																																Al,Sb,As,Be,Cd,Cr,
8																																Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn
9																																and Mercury
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	[signature] / Feezor Eng.	01-08-14	1445	[signature]	01-08-14	1445				
SITE ADDRESS: BRIDGETON LF				[signature] / BASI	1/9	0200	2.6	Y	Y	Y
13570 ST. CHARLES ROCK RD										
BRIDGETON MO 63044										

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: John Powell

SIGNATURE of SAMPLER: [signature] DATE Signed: 01-08-14

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January 17, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-189R3
Pace Project No.: 60160927

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 10, 2014. 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,

Angie Brown

Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-189R3
Pace Project No.: 60160927

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-189R3
Pace Project No.: 60160927

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60160927001	**316-189R3**	Water	01/09/14 10:30	01/10/14 01:45
60160927002	**TRIP BLANK**	Water	01/09/14 10:30	01/10/14 01:45

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-189R3
Pace Project No.: 60160927

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60160927001	**316-189R3**	EPA 200.7	NDJ	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	16
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC	1
		SM 4500-H+B	JML	1
		SM 5210B	JML	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC	1
60160927002	**TRIP BLANK**	EPA 624 Low	EAK	28

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-189R3
Pace Project No.: 60160927

Sample: 316-189R3 **Lab ID: 60160927001** Collected: 01/09/14 10:30 Received: 01/10/14 01:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	**7530**	ug/L	750	2	01/13/14 15:30	01/14/14 13:43	7429-90-5	
Antimony	ND	ug/L	50.0	1	01/13/14 15:30	01/14/14 13:41	7440-36-0	
Arsenic	**874**	ug/L	50.0	1	01/13/14 15:30	01/14/14 13:41	7440-38-2	
Beryllium	ND	ug/L	5.0	1	01/13/14 15:30	01/14/14 13:41	7440-41-7	
Cadmium	ND	ug/L	25.0	1	01/13/14 15:30	01/14/14 13:41	7440-43-9	
Chromium	**309**	ug/L	25.0	1	01/13/14 15:30	01/14/14 13:41	7440-47-3	
Cobalt	**40.0**	ug/L	25.0	1	01/13/14 15:30	01/14/14 13:41	7440-48-4	
Copper	ND	ug/L	50.0	1	01/13/14 15:30	01/14/14 13:41	7440-50-8	
Iron	**922000**	ug/L	250	1	01/13/14 15:30	01/14/14 13:41	7439-89-6	
Lead	**116**	ug/L	25.0	1	01/13/14 15:30	01/14/14 13:41	7439-92-1	
Nickel	**114**	ug/L	25.0	1	01/13/14 15:30	01/14/14 13:41	7440-02-0	
Selenium	ND	ug/L	75.0	1	01/13/14 15:30	01/14/14 13:41	7782-49-2	
Silver	ND	ug/L	35.0	1	01/13/14 15:30	01/14/14 13:41	7440-22-4	
Thallium	ND	ug/L	100	1	01/13/14 15:30	01/14/14 13:41	7440-28-0	
Zinc	**9470**	ug/L	500	2	01/13/14 15:30	01/14/14 13:43	7440-66-6	
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	**1480**	ug/L	750	2	01/13/14 15:35	01/14/14 14:00	7429-90-5	
Antimony, Dissolved	ND	ug/L	100	2	01/13/14 15:35	01/14/14 14:00	7440-36-0	D3
Arsenic, Dissolved	**699**	ug/L	50.0	1	01/13/14 15:35	01/14/14 13:50	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	01/13/14 15:35	01/14/14 13:50	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	01/13/14 15:35	01/14/14 13:50	7440-43-9	
Chromium, Dissolved	**265**	ug/L	25.0	1	01/13/14 15:35	01/14/14 13:50	7440-47-3	
Cobalt, Dissolved	**26.4**	ug/L	25.0	1	01/13/14 15:35	01/14/14 13:50	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	01/13/14 15:35	01/14/14 13:50	7440-50-8	
Iron, Dissolved	**692000**	ug/L	250	1	01/13/14 15:35	01/14/14 13:50	7439-89-6	
Lead, Dissolved	**92.1**	ug/L	25.0	1	01/13/14 15:35	01/14/14 13:50	7439-92-1	
Nickel, Dissolved	**91.6**	ug/L	25.0	1	01/13/14 15:35	01/14/14 13:50	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	01/13/14 15:35	01/14/14 13:50	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	01/13/14 15:35	01/14/14 13:50	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	01/13/14 15:35	01/14/14 13:50	7440-28-0	
Zinc, Dissolved	**8560**	ug/L	500	2	01/13/14 15:35	01/14/14 14:00	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	6.0	1	01/14/14 09:00	01/14/14 12:28	7439-97-6	
245.1 Mercury, Dissolved (LF)	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	6.0	1	01/14/14 09:00	01/14/14 13:17	7439-97-6	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	50.0	2	01/14/14 00:00	01/15/14 14:12	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 14:12	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 14:12	77-47-4	
Hexachloroethane	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 14:12	67-72-1	
Naphthalene	**26.2**	ug/L	10.0	2	01/14/14 00:00	01/15/14 14:12	91-20-3	
Nitrobenzene	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 14:12	98-95-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-189R3
Pace Project No.: 60160927

Sample: 316-189R3 **Lab ID: 60160927001** Collected: 01/09/14 10:30 Received: 01/10/14 01:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Pentachlorophenol	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 14:12	87-86-5	
Phenol	**100**	ug/L	10.0	2	01/14/14 00:00	01/15/14 14:12	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 14:12	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 14:12	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	124	%	33-120	2	01/14/14 00:00	01/15/14 14:12	4165-60-0	S0
2-Fluorobiphenyl (S)	81	%	39-120	2	01/14/14 00:00	01/15/14 14:12	321-60-8	
Terphenyl-d14 (S)	77	%	45-120	2	01/14/14 00:00	01/15/14 14:12	1718-51-0	
Phenol-d6 (S)	37	%	11-120	2	01/14/14 00:00	01/15/14 14:12	13127-88-3	
2-Fluorophenol (S)	36	%	17-120	2	01/14/14 00:00	01/15/14 14:12	367-12-4	
2,4,6-Tribromophenol (S)	86	%	39-120	2	01/14/14 00:00	01/15/14 14:12	118-79-6	
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	**152000**	ug/L	2000	200		01/10/14 13:09	67-64-1	N2
Benzene	ND	ug/L	200	200		01/10/14 13:09	71-43-2	
Bromodichloromethane	ND	ug/L	200	200		01/10/14 13:09	75-27-4	
Bromoform	ND	ug/L	200	200		01/10/14 13:09	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/10/14 13:09	74-83-9	
2-Butanone (MEK)	**71800**	ug/L	2000	200		01/10/14 13:09	78-93-3	N2
Carbon tetrachloride	ND	ug/L	200	200		01/10/14 13:09	56-23-5	
Chloroethane	ND	ug/L	200	200		01/10/14 13:09	75-00-3	
Chloroform	ND	ug/L	200	200		01/10/14 13:09	67-66-3	
1,4-Dichlorobenzene	**2730**	ug/L	200	200		01/10/14 13:09	106-46-7	
1,2-Dichloroethane	ND	ug/L	200	200		01/10/14 13:09	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/10/14 13:09	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/10/14 13:09	156-60-5	
Ethylbenzene	**432**	ug/L	200	200		01/10/14 13:09	100-41-4	
Methylene chloride	ND	ug/L	200	200		01/10/14 13:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	**4180**	ug/L	2000	200		01/10/14 13:09	108-10-1	N2
1,1,2,2-Tetrachloroethane	**580**	ug/L	200	200		01/10/14 13:09	79-34-5	N2
Tetrachloroethene	ND	ug/L	200	200		01/10/14 13:09	127-18-4	
Toluene	ND	ug/L	200	200		01/10/14 13:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/10/14 13:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		01/10/14 13:09	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/10/14 13:09	79-01-6	
Vinyl chloride	ND	ug/L	200	200		01/10/14 13:09	75-01-4	
Xylene (Total)	**1780**	ug/L	600	200		01/10/14 13:09	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	103	%	80-120	200		01/10/14 13:09	460-00-4	
Toluene-d8 (S)	99	%	80-120	200		01/10/14 13:09	2037-26-5	
1,2-Dichloroethane-d4 (S)	95	%	80-120	200		01/10/14 13:09	17060-07-0	
Preservation pH	**6.0**		1.0	200		01/10/14 13:09		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	**1520**	mg/L	5.0	1		01/14/14 13:50		D6

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-189R3
Pace Project No.: 60160927

Sample: 316-189R3 **Lab ID: 60160927001** Collected: 01/09/14 10:30 Received: 01/10/14 01:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	**45.5**	mg/L	5.0	1		01/14/14 13:52		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**3140**	mg/L	5.0	1		01/14/14 11:56		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**5.5**	Std. Units	0.10	1		01/13/14 13:20		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**29400**	mg/L	2.0	1	01/10/14 14:35	01/15/14 12:33		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**756**	mg/L	20.0	200		01/14/14 11:47	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**56100**	mg/L	5000	500		01/16/14 10:35		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-189R3
Pace Project No.: 60160927

Sample: TRIP BLANK **Lab ID: 60160927002** Collected: 01/09/14 10:30 Received: 01/10/14 01:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	ND	ug/L	10.0	1		01/10/14 13:24	67-64-1	N2
Benzene	ND	ug/L	1.0	1		01/10/14 13:24	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		01/10/14 13:24	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/10/14 13:24	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/10/14 13:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/10/14 13:24	78-93-3	N2
Carbon tetrachloride	ND	ug/L	1.0	1		01/10/14 13:24	56-23-5	
Chloroethane	ND	ug/L	1.0	1		01/10/14 13:24	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/10/14 13:24	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/10/14 13:24	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/10/14 13:24	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/10/14 13:24	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/10/14 13:24	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/10/14 13:24	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		01/10/14 13:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/10/14 13:24	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/10/14 13:24	79-34-5	N2
Tetrachloroethene	ND	ug/L	1.0	1		01/10/14 13:24	127-18-4	
Toluene	ND	ug/L	1.0	1		01/10/14 13:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/10/14 13:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/10/14 13:24	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/10/14 13:24	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/10/14 13:24	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/10/14 13:24	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	1		01/10/14 13:24	460-00-4	
Toluene-d8 (S)	104	%	80-120	1		01/10/14 13:24	2037-26-5	
1,2-Dichloroethane-d4 (S)	95	%	80-120	1		01/10/14 13:24	17060-07-0	
Preservation pH	**6.0**		1.0	1		01/10/14 13:24		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-189R3
Pace Project No.: 60160927

QC Batch: MERP/8063 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury
Associated Lab Samples: 60160927001

METHOD BLANK: 1316884 | Matrix: Water
Associated Lab Samples: 60160927001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/14/14 12:11	

LABORATORY CONTROL SAMPLE: 1316885

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1316886 1316887

Parameter	Units	60160952001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	0.67	0.65	12	12	70-130	3	20	M1

MATRIX SPIKE SAMPLE: 1316888

Parameter	Units	60160834001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	24.5	150	181	104	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-189R3
Pace Project No.: 60160927

QC Batch: MERP/8062
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60160927001

METHOD BLANK: 1316880
Matrix: Water
Associated Lab Samples: 60160927001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	01/14/14 13:00	

LABORATORY CONTROL SAMPLE: 1316881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1316882 1316883

Parameter	Units	60160952001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	0.47	0.56	9	11	70-130	17	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-189R3
Pace Project No.: 60160927

QC Batch: MPRP/25875
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60160927001

METHOD BLANK: 1316792
Matrix: Water
Associated Lab Samples: 60160927001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	01/14/14 13:34	
Antimony	ug/L	ND	10.0	01/14/14 13:34	
Arsenic	ug/L	ND	10.0	01/14/14 13:34	
Beryllium	ug/L	ND	1.0	01/14/14 13:34	
Cadmium	ug/L	ND	5.0	01/14/14 13:34	
Chromium	ug/L	ND	5.0	01/14/14 13:34	
Cobalt	ug/L	ND	5.0	01/14/14 13:34	
Copper	ug/L	ND	10.0	01/14/14 13:34	
Iron	ug/L	ND	50.0	01/14/14 13:34	
Lead	ug/L	ND	5.0	01/14/14 13:34	
Nickel	ug/L	ND	5.0	01/14/14 13:34	
Selenium	ug/L	ND	15.0	01/14/14 13:34	
Silver	ug/L	ND	7.0	01/14/14 13:34	
Thallium	ug/L	ND	20.0	01/14/14 13:34	
Zinc	ug/L	ND	50.0	01/14/14 13:34	

LABORATORY CONTROL SAMPLE: 1316793

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10100	101	85-115	
Antimony	ug/L	1000	1020	102	85-115	
Arsenic	ug/L	1000	970	97	85-115	
Beryllium	ug/L	1000	1030	103	85-115	
Cadmium	ug/L	1000	1000	100	85-115	
Chromium	ug/L	1000	1020	102	85-115	
Cobalt	ug/L	1000	1030	103	85-115	
Copper	ug/L	1000	1020	102	85-115	
Iron	ug/L	10000	10300	103	85-115	
Lead	ug/L	1000	1030	103	85-115	
Nickel	ug/L	1000	1040	104	85-115	
Selenium	ug/L	1000	1010	101	85-115	
Silver	ug/L	500	504	101	85-115	
Thallium	ug/L	1000	1040	104	85-115	
Zinc	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1316794 1316795

Parameter	Units	60161001002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	ND	10000	10000	10200	10200	101	102	70-130	1	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-189R3
Pace Project No.: 60160927

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1316794 1316795

Parameter	Units	60161001002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	1000	1000	1050	1050	105	105	70-130	0	7	
Arsenic	ug/L	ND	1000	1000	1000	1010	100	101	70-130	1	10	
Beryllium	ug/L	ND	1000	1000	1040	1040	104	104	70-130	0	7	
Cadmium	ug/L	ND	1000	1000	1010	1020	101	102	70-130	0	10	
Chromium	ug/L	ND	1000	1000	1010	1010	101	101	70-130	0	10	
Cobalt	ug/L	ND	1000	1000	1010	1010	101	101	70-130	0	6	
Copper	ug/L	ND	1000	1000	1030	1030	103	103	70-130	0	11	
Iron	ug/L	338	10000	10000	10500	10600	101	103	70-130	1	10	
Lead	ug/L	ND	1000	1000	997	1000	100	100	70-130	0	10	
Nickel	ug/L	ND	1000	1000	1020	1020	102	102	70-130	0	10	
Selenium	ug/L	ND	1000	1000	1030	1030	103	103	70-130	0	10	
Silver	ug/L	ND	500	500	512	513	102	102	70-130	0	10	
Thallium	ug/L	ND	1000	1000	964	970	96	97	70-130	1	6	
Zinc	ug/L	ND	1000	1000	1030	1030	100	100	70-130	0	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-189R3
Pace Project No.: 60160927

QC Batch: MPRP/25873
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60160927001

METHOD BLANK: 1316782
Matrix: Water
Associated Lab Samples: 60160927001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	01/14/14 13:24	
Antimony, Dissolved	ug/L	ND	10.0	01/14/14 13:24	
Arsenic, Dissolved	ug/L	ND	10.0	01/14/14 13:24	
Beryllium, Dissolved	ug/L	ND	1.0	01/14/14 13:24	
Cadmium, Dissolved	ug/L	ND	5.0	01/14/14 13:24	
Chromium, Dissolved	ug/L	ND	5.0	01/14/14 13:24	
Cobalt, Dissolved	ug/L	ND	5.0	01/14/14 13:24	
Copper, Dissolved	ug/L	ND	10.0	01/14/14 13:24	
Iron, Dissolved	ug/L	71.8	50.0	01/14/14 13:24	
Lead, Dissolved	ug/L	ND	5.0	01/14/14 13:24	
Nickel, Dissolved	ug/L	ND	5.0	01/14/14 13:24	
Selenium, Dissolved	ug/L	ND	15.0	01/14/14 13:24	
Silver, Dissolved	ug/L	ND	7.0	01/14/14 13:24	
Thallium, Dissolved	ug/L	ND	20.0	01/14/14 13:24	
Zinc, Dissolved	ug/L	ND	50.0	01/14/14 13:24	

LABORATORY CONTROL SAMPLE: 1316783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9510	95	85-115	
Antimony, Dissolved	ug/L	1000	1030	103	85-115	
Arsenic, Dissolved	ug/L	1000	977	98	85-115	
Beryllium, Dissolved	ug/L	1000	1010	101	85-115	
Cadmium, Dissolved	ug/L	1000	1010	101	85-115	
Chromium, Dissolved	ug/L	1000	987	99	85-115	
Cobalt, Dissolved	ug/L	1000	994	99	85-115	
Copper, Dissolved	ug/L	1000	978	98	85-115	
Iron, Dissolved	ug/L	10000	9820	98	85-115	
Lead, Dissolved	ug/L	1000	1020	102	85-115	
Nickel, Dissolved	ug/L	1000	1000	100	85-115	
Selenium, Dissolved	ug/L	1000	1010	101	85-115	
Silver, Dissolved	ug/L	500	498	100	85-115	
Thallium, Dissolved	ug/L	1000	1040	104	85-115	
Zinc, Dissolved	ug/L	1000	994	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1316784 1316785

Parameter	Units	60160834001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	1610	50000	50000	53800	54100	104	105	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-189R3
Pace Project No.: 60160927

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1316784 1316785

Parameter	Units	60160834001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	5000	5000	5120	5090	102	101	70-130	1	7	
Arsenic, Dissolved	ug/L	733	5000	5000	5730	5720	100	100	70-130	0	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	5080	5060	102	101	70-130	0	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	4980	4990	99	100	70-130	0	10	
Chromium, Dissolved	ug/L	243	5000	5000	5140	5150	98	98	70-130	0	10	
Cobalt, Dissolved	ug/L	ND	5000	5000	4980	4980	99	99	70-130	0	6	
Copper, Dissolved	ug/L	ND	5000	5000	4850	4860	97	97	70-130	0	11	
Iron, Dissolved	ug/L	601000	50000	50000	564000	557000	-73	-88	70-130	1	10	M1
Lead, Dissolved	ug/L	88.8	5000	5000	4760	4750	93	93	70-130	0	10	
Nickel, Dissolved	ug/L	84.4	5000	5000	5080	5080	100	100	70-130	0	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5280	5230	105	104	70-130	1	10	
Silver, Dissolved	ug/L	ND	2500	2500	2490	2500	100	100	70-130	0	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4270	4290	85	86	70-130	0	6	
Zinc, Dissolved	ug/L	8200	5000	5000	12300	12200	82	81	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-189R3
Pace Project No.: 60160927

QC Batch: MSV/58791 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60160927001, 60160927002

METHOD BLANK: 1315827 | Matrix: Water
Associated Lab Samples: 60160927001, 60160927002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/10/14 12:09	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/10/14 12:09	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/10/14 12:09	
1,2-Dichloroethane	ug/L	ND	1.0	01/10/14 12:09	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/10/14 12:09	
2-Butanone (MEK)	ug/L	ND	10.0	01/10/14 12:09	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/10/14 12:09	N2
Acetone	ug/L	ND	10.0	01/10/14 12:09	N2
Benzene	ug/L	ND	1.0	01/10/14 12:09	
Bromodichloromethane	ug/L	ND	1.0	01/10/14 12:09	
Bromoform	ug/L	ND	1.0	01/10/14 12:09	
Bromomethane	ug/L	ND	5.0	01/10/14 12:09	
Carbon tetrachloride	ug/L	ND	1.0	01/10/14 12:09	
Chloroethane	ug/L	ND	1.0	01/10/14 12:09	
Chloroform	ug/L	ND	1.0	01/10/14 12:09	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/10/14 12:09	N2
Ethylbenzene	ug/L	ND	1.0	01/10/14 12:09	
Methylene chloride	ug/L	ND	1.0	01/10/14 12:09	
Tetrachloroethene	ug/L	ND	1.0	01/10/14 12:09	
Toluene	ug/L	ND	1.0	01/10/14 12:09	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/10/14 12:09	
Trichloroethene	ug/L	ND	1.0	01/10/14 12:09	
Vinyl chloride	ug/L	ND	1.0	01/10/14 12:09	
Xylene (Total)	ug/L	ND	3.0	01/10/14 12:09	N2
1,2-Dichloroethane-d4 (S)	%	91	80-120	01/10/14 12:09	
4-Bromofluorobenzene (S)	%	100	80-120	01/10/14 12:09	
Toluene-d8 (S)	%	103	80-120	01/10/14 12:09	

LABORATORY CONTROL SAMPLE: 1315828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.7	88	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	17.9	90	59-138	N2
1,1,2-Trichloroethane	ug/L	20	17.5	87	69-127	
1,2-Dichloroethane	ug/L	20	18.1	91	71-129	
1,4-Dichlorobenzene	ug/L	20	19.8	99	68-124	
2-Butanone (MEK)	ug/L	100	88.2	88	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	94.4	94	61-120	N2
Acetone	ug/L	100	82.8	83	40-160	N2
Benzene	ug/L	20	18.9	95	73-129	
Bromodichloromethane	ug/L	20	19.2	96	63-129	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-189R3
Pace Project No.: 60160927

LABORATORY CONTROL SAMPLE: 1315828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	21.2	106	52-123	
Bromomethane	ug/L	20	16.8	84	10-160	
Carbon tetrachloride	ug/L	20	18.1	91	70-140	
Chloroethane	ug/L	20	18.8	94	42-160	
Chloroform	ug/L	20	19.8	99	60-120	
cis-1,2-Dichloroethene	ug/L	20	18.3	91	70-125	N2
Ethylbenzene	ug/L	20	19.5	97	66-133	
Methylene chloride	ug/L	20	18.3	91	56-135	
Tetrachloroethene	ug/L	20	19.3	96	64-143	
Toluene	ug/L	20	18.4	92	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.9	84	67-149	
Trichloroethene	ug/L	20	19.1	95	71-130	
Vinyl chloride	ug/L	20	18.6	93	41-160	
Xylene (Total)	ug/L	60	56.7	94	67-130	N2
1,2-Dichloroethane-d4 (S)	%			95	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			98	80-120	

MATRIX SPIKE SAMPLE: 1315829

Parameter	Units	60160834001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3340	83	52-160	
1,1,2,2-Tetrachloroethane	ug/L	271	4000	3460	80	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	3470	87	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3250	81	49-155	
1,4-Dichlorobenzene	ug/L	1330	4000	4760	86	18-147	
2-Butanone (MEK)	ug/L	80200	20000	108000	137	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	3230	20000	20800	88	40-160	N2
Acetone	ug/L	170000	20000	182000	59	40-160	N2
Benzene	ug/L	ND	4000	3470	87	37-151	
Bromodichloromethane	ug/L	ND	4000	3620	90	35-155	
Bromoform	ug/L	ND	4000	3890	97	45-133	
Bromomethane	ug/L	ND	4000	3130	78	10-160	
Carbon tetrachloride	ug/L	ND	4000	3610	90	70-140	
Chloroethane	ug/L	ND	4000	3450	86	14-160	
Chloroform	ug/L	ND	4000	3170	79	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3430	86	19-160	N2
Ethylbenzene	ug/L	ND	4000	3590	88	37-154	
Methylene chloride	ug/L	ND	4000	3410	85	15-156	
Tetrachloroethene	ug/L	ND	4000	3910	98	64-148	
Toluene	ug/L	ND	4000	3560	89	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	3330	83	54-156	
Trichloroethene	ug/L	ND	4000	3650	91	71-157	
Vinyl chloride	ug/L	ND	4000	3620	90	10-160	
Xylene (Total)	ug/L	ND	12000	10600	89	12-153	N2
1,2-Dichloroethane-d4 (S)	%				98	80-120	
4-Bromofluorobenzene (S)	%				100	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-189R3
Pace Project No.: 60160927

MATRIX SPIKE SAMPLE: 1315829

Parameter	Units	60160834001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				101	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-189R3
Pace Project No.: 60160927

QC Batch: OEXT/42228 | Analysis Method: EPA 625
QC Batch Method: EPA 625 | Analysis Description: 625 MSS
Associated Lab Samples: 60160927001

METHOD BLANK: 1316842 | Matrix: Water
Associated Lab Samples: 60160927001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/15/14 13:10	
2,4,6-Trichlorophenol	ug/L	ND	5.0	01/15/14 13:10	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	01/15/14 13:10	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/15/14 13:10	
Hexachlorocyclopentadiene	ug/L	ND	5.0	01/15/14 13:10	
Hexachloroethane	ug/L	ND	5.0	01/15/14 13:10	
Naphthalene	ug/L	ND	5.0	01/15/14 13:10	
Nitrobenzene	ug/L	ND	5.0	01/15/14 13:10	
Pentachlorophenol	ug/L	ND	5.0	01/15/14 13:10	
Phenol	ug/L	ND	5.0	01/15/14 13:10	
2,4,6-Tribromophenol (S)	%	70	39-120	01/15/14 13:10	
2-Fluorobiphenyl (S)	%	71	39-120	01/15/14 13:10	
2-Fluorophenol (S)	%	35	17-120	01/15/14 13:10	
Nitrobenzene-d5 (S)	%	66	33-120	01/15/14 13:10	
Phenol-d6 (S)	%	22	11-120	01/15/14 13:10	
Terphenyl-d14 (S)	%	81	45-120	01/15/14 13:10	

LABORATORY CONTROL SAMPLE: 1316843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	38.3	77	46-120	
2,4,6-Trichlorophenol	ug/L	50	40.6	81	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	43.5	87	40-133	
Hexachloro-1,3-butadiene	ug/L	50	36.7	73	44-116	
Hexachlorocyclopentadiene	ug/L	100	59.3	59	24-120	
Hexachloroethane	ug/L	50	35.5	71	43-113	
Naphthalene	ug/L	50	38.7	77	48-120	
Nitrobenzene	ug/L	50	39.0	78	48-120	
Pentachlorophenol	ug/L	50	35.7	71	47-120	
Phenol	ug/L	50	14.6	29	16-112	
2,4,6-Tribromophenol (S)	%			86	39-120	
2-Fluorobiphenyl (S)	%			85	39-120	
2-Fluorophenol (S)	%			41	17-120	
Nitrobenzene-d5 (S)	%			78	33-120	
Phenol-d6 (S)	%			26	11-120	
Terphenyl-d14 (S)	%			90	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-189R3
Pace Project No.: 60160927

MATRIX SPIKE SAMPLE: 1316844

Parameter	Units	60160927001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	35.6	71	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	40.3	81	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	50	39.6J	79	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	35.4	71	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	73.8	74	11-120	
Hexachloroethane	ug/L	ND	50	36.9	74	40-113	
Naphthalene	ug/L	26.2	50	57.3	62	45-120	
Nitrobenzene	ug/L	ND	50	35.0	70	38-120	
Pentachlorophenol	ug/L	ND	50	43.1	86	43-135	
Phenol	ug/L	100	50	108	15	13-112	
2,4,6-Tribromophenol (S)	%				86	39-120	
2-Fluorobiphenyl (S)	%				80	39-120	
2-Fluorophenol (S)	%				41	17-120	
Nitrobenzene-d5 (S)	%				118	33-120	
Phenol-d6 (S)	%				40	11-120	
Terphenyl-d14 (S)	%				79	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-189R3
Pace Project No.: 60160927

QC Batch: WET/45604 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60160927001

METHOD BLANK: 1317218 | Matrix: Water
Associated Lab Samples: 60160927001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/14/14 13:49	

LABORATORY CONTROL SAMPLE: 1317219

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.3	98	78-114	

MATRIX SPIKE SAMPLE: 1317220

Parameter	Units	60160834001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	1530	161	1700	111	78-114	

SAMPLE DUPLICATE: 1317221

Parameter	Units	60160927001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1520	1900	22	18	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-189R3
Pace Project No.: 60160927

QC Batch: WET/45603 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 SGT-HEM, TPH
Associated Lab Samples: 60160927001

METHOD BLANK: 1317211 | Matrix: Water
Associated Lab Samples: 60160927001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	01/14/14 13:51	

LABORATORY CONTROL SAMPLE: 1317212

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	18.3	92	64-132	

MATRIX SPIKE SAMPLE: 1317213

Parameter	Units	60160834001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	71.8	80.6	111	48	64-132	M1

SAMPLE DUPLICATE: 1317214

Parameter	Units	60160927001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	45.5	49.5	9	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-189R3
Pace Project No.: 60160927

QC Batch: WET/45600
QC Batch Method: SM 2540D
Analysis Method: SM 2540D
Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60160927001

METHOD BLANK: 1317188
Matrix: Water
Associated Lab Samples: 60160927001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	01/14/14 11:54	

SAMPLE DUPLICATE: 1317189

Parameter	Units	60161095001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	9.0	8.0	12	25	

SAMPLE DUPLICATE: 1317190

Parameter	Units	60160940001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	10.0	9.0	11	25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-189R3
Pace Project No.: 60160927

QC Batch: WET/45583
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 60160927001

SAMPLE DUPLICATE: 1316708

Parameter	Units	60160970001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.8	7.8	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-189R3
Pace Project No.: 60160927

QC Batch: WET/45564 | Analysis Method: SM 5210B
QC Batch Method: SM 5210B | Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 60160927001

METHOD BLANK: 1315932 | Matrix: Water
Associated Lab Samples: 60160927001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	01/15/14 12:08	

LABORATORY CONTROL SAMPLE: 1315933

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	203	103	85-115	

SAMPLE DUPLICATE: 1315934

Parameter	Units	60160949001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	601	611	2	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-189R3
Pace Project No.: 60160927

QC Batch: WETA/27807 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60160927001

METHOD BLANK: 1316667 | Matrix: Water
Associated Lab Samples: 60160927001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	01/14/14 11:16	

LABORATORY CONTROL SAMPLE: 1316668

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	107	90-110	

MATRIX SPIKE SAMPLE: 1316669

Parameter	Units	60160581003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.0	99	90-110	

MATRIX SPIKE SAMPLE: 1316670

Parameter	Units	60160601006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.8	90	90-110	

SAMPLE DUPLICATE: 1316671

Parameter	Units	60160569002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-189R3
Pace Project No.: 60160927

QC Batch: WETA/27814 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 60160927001

METHOD BLANK: 1316914 | Matrix: Water
Associated Lab Samples: 60160927001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	01/16/14 10:27	

LABORATORY CONTROL SAMPLE: 1316915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	54.9	110	90-110	

MATRIX SPIKE SAMPLE: 1316918

Parameter	Units	60160823003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	283	500	776	99	90-110	

MATRIX SPIKE SAMPLE: 1316919

Parameter	Units	60160823001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	123	500	633	102	90-110	

SAMPLE DUPLICATE: 1316917

Parameter	Units	60160715003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	2440	2580	5	25	

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QUALIFIERS

Project: BRIDGETON LF 316-189R3
Pace Project No.: 60160927

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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

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TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-189R3
Pace Project No.: 60160927

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60160927001	**316-189R3**	EPA 200.7	MPRP/25875	EPA 200.7	ICP/19817
60160927001	**316-189R3**	EPA 200.7	MPRP/25873	EPA 200.7	ICP/19813
60160927001	**316-189R3**	EPA 245.1	MERP/8063	EPA 245.1	MERC/8018
60160927001	**316-189R3**	EPA 245.1	MERP/8062	EPA 245.1	MERC/8019
60160927001	**316-189R3**	EPA 625	OEXT/42228	EPA 625	MSSV/13444
60160927001	**316-189R3**	EPA 624 Low	MSV/58791		
60160927002	**TRIP BLANK**	EPA 624 Low	MSV/58791		
60160927001	**316-189R3**	EPA 1664A	WET/45604		
60160927001	**316-189R3**	EPA 1664A	WET/45603		
60160927001	**316-189R3**	SM 2540D	WET/45600		
60160927001	**316-189R3**	SM 4500-H+B	WET/45583		
60160927001	**316-189R3**	SM 5210B	WET/45564	SM 5210B	WET/45669
60160927001	**316-189R3**	EPA 350.1	WETA/27807		
60160927001	**316-189R3**	EPA 410.4	WETA/27814		

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Sample Condition Upon Receipt

WO#: 60160927
60160927

Client Name: Barr

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

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☑ None ☐ Other ☑ ZPIC

Thermometer Used: T-239 / T-194 Type of Ice: (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 3-2

Temperature should be above freezing to 6°C

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: PW 10/14

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 & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6. BOD pH
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☑No ☐N/A	Sodium Thiosulfate preserved vials received
Pace containers used:	☑Yes ☐No ☐N/A	9. in lieu of non-preserved vials
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☑Yes ☐No ☐N/A	13.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	Added 2.5 mL of HNO3 to BP3N. pH 6 and 4
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	Added 2.0 mL of H2SO4 to BP3S - pH 6.0/1.5 14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed PW / Lot # of added preservative 12513 12518
Trip Blank present: Pace Trip Blank lot # (if purchased): 111113-3BE2	☑Yes ☐No ☐N/A	15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AMW for AKB Date: 1/10/14

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: BARR ENGINEERING	Report To: ED GALBRAITH/BARR	Attention: JANET ROLLEN
Address:	Copy To: SCOTT FEDAK/FEEZOR	Company Name: REPUBLIC SERVICES
	DANA BAKER/MARGARET TREANOR -BARR	Address: BRIDGETON, MO 63044
Email To:	Purchase Order No. PO 3727110	Pace Quote Reference: 130426_7588
Phone: (816) 285-8410 Fax	Client Project ID: BRIDGETON LF	Pace Project Manager: Brown, Angie
Requested Due Date/TAT: 10 Day (Default)	Container Order Number:	Pace Profile #: 6787 LINE 2

Regulatory Agency
State / Location
Missouri

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	COD EPA 410	pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B		Residual Chlorine (Y/N)	60160927
1	316-189R3 2AG4U 1BP3U	OT	G	01-09-14	1030	—			14	10	4	1	0	3AG5S			5D		X	X	X	X	X	X	X	X	X	X	1BP3S		1BP3U 2BP2U 2DG4U
2	TRIP BLANK								2	2																X						
3																																
4																																
5																																
6																																METALS LIST total & LF Dis:
7																																Al,Sb,As,Be,Cd,Cr,
8																																Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn
9																																and Mercury
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	Paul Linscott	01-09-14	2:25PM	818	01-09-14	2:25PM				
SITE ADDRESS: BRIDGETON LF				PASE	1/10/14	0145	3.2	Y	Y	Y
13570 ST. CHARLES ROCK RD										
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: John Powell					
SIGNATURE of SAMPLER:	DATE Signed: 01-09-14				

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

January 20, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 11, 2014. 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,

Mary Jane Walls for
Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60161021001	**316-190R4**	Water	01/10/14 14:30	01/11/14 01:15
60161021002	**TRIP BLANK**	Water	01/10/14 14:30	01/11/14 01:15

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60161021001	**316-190R4**	EPA 200.7	NDJ	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	16
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC	1
		SM 4500-H+B	JML	1
		SM 5210B	JML	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC	1
60161021002	**TRIP BLANK**	EPA 624 Low	EAK	28

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

Sample: 316-190R4 **Lab ID: 60161021001** Collected: 01/10/14 14:30 Received: 01/11/14 01:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	**12200**	ug/L	750	2	01/13/14 15:30	01/14/14 13:48	7429-90-5	
Antimony	ND	ug/L	50.0	1	01/13/14 15:30	01/14/14 13:46	7440-36-0	
Arsenic	**962**	ug/L	50.0	1	01/13/14 15:30	01/14/14 13:46	7440-38-2	
Beryllium	ND	ug/L	5.0	1	01/13/14 15:30	01/14/14 13:46	7440-41-7	
Cadmium	ND	ug/L	25.0	1	01/13/14 15:30	01/14/14 13:46	7440-43-9	
Chromium	**306**	ug/L	25.0	1	01/13/14 15:30	01/14/14 13:46	7440-47-3	
Cobalt	**52.0**	ug/L	25.0	1	01/13/14 15:30	01/14/14 13:46	7440-48-4	
Copper	**58.4**	ug/L	50.0	1	01/13/14 15:30	01/14/14 13:46	7440-50-8	
Iron	**916000**	ug/L	250	1	01/13/14 15:30	01/14/14 13:46	7439-89-6	
Lead	**111**	ug/L	25.0	1	01/13/14 15:30	01/14/14 13:46	7439-92-1	
Nickel	**133**	ug/L	25.0	1	01/13/14 15:30	01/14/14 13:46	7440-02-0	
Selenium	**84.4**	ug/L	75.0	1	01/13/14 15:30	01/14/14 13:46	7782-49-2	
Silver	ND	ug/L	35.0	1	01/13/14 15:30	01/14/14 13:46	7440-22-4	
Thallium	ND	ug/L	100	1	01/13/14 15:30	01/14/14 13:46	7440-28-0	
Zinc	**8380**	ug/L	500	2	01/13/14 15:30	01/14/14 13:48	7440-66-6	
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	**1630**	ug/L	750	2	01/13/14 15:35	01/14/14 14:07	7429-90-5	
Antimony, Dissolved	ND	ug/L	100	2	01/13/14 15:35	01/14/14 14:07	7440-36-0	D3
Arsenic, Dissolved	**798**	ug/L	50.0	1	01/13/14 15:35	01/14/14 14:04	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	01/13/14 15:35	01/14/14 14:04	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	01/13/14 15:35	01/14/14 14:04	7440-43-9	
Chromium, Dissolved	**270**	ug/L	25.0	1	01/13/14 15:35	01/14/14 14:04	7440-47-3	
Cobalt, Dissolved	**39.1**	ug/L	25.0	1	01/13/14 15:35	01/14/14 14:04	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	01/13/14 15:35	01/14/14 14:04	7440-50-8	
Iron, Dissolved	**722000**	ug/L	250	1	01/13/14 15:35	01/14/14 14:04	7439-89-6	
Lead, Dissolved	**83.4**	ug/L	25.0	1	01/13/14 15:35	01/14/14 14:04	7439-92-1	
Nickel, Dissolved	**110**	ug/L	25.0	1	01/13/14 15:35	01/14/14 14:04	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	01/13/14 15:35	01/14/14 14:04	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	01/13/14 15:35	01/14/14 14:04	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	01/13/14 15:35	01/14/14 14:04	7440-28-0	
Zinc, Dissolved	**7800**	ug/L	500	2	01/13/14 15:35	01/14/14 14:07	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**42.0**	ug/L	6.0	1	01/14/14 09:00	01/14/14 12:37	7439-97-6	
245.1 Mercury, Dissolved (LF)	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	6.0	1	01/14/14 09:00	01/14/14 13:20	7439-97-6	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	50.0	2	01/14/14 00:00	01/15/14 14:33	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 14:33	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 14:33	77-47-4	
Hexachloroethane	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 14:33	67-72-1	
Naphthalene	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 14:33	91-20-3	
Nitrobenzene	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 14:33	98-95-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

Sample: 316-190R4 **Lab ID: 60161021001** Collected: 01/10/14 14:30 Received: 01/11/14 01:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Pentachlorophenol	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 14:33	87-86-5	
Phenol	**81.6**	ug/L	10.0	2	01/14/14 00:00	01/15/14 14:33	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 14:33	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 14:33	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	102	%	33-120	2	01/14/14 00:00	01/15/14 14:33	4165-60-0	
2-Fluorobiphenyl (S)	79	%	39-120	2	01/14/14 00:00	01/15/14 14:33	321-60-8	
Terphenyl-d14 (S)	78	%	45-120	2	01/14/14 00:00	01/15/14 14:33	1718-51-0	
Phenol-d6 (S)	36	%	11-120	2	01/14/14 00:00	01/15/14 14:33	13127-88-3	
2-Fluorophenol (S)	34	%	17-120	2	01/14/14 00:00	01/15/14 14:33	367-12-4	
2,4,6-Tribromophenol (S)	87	%	39-120	2	01/14/14 00:00	01/15/14 14:33	118-79-6	
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	**97000**	ug/L	2000	200		01/15/14 14:45	67-64-1	M1,N2
Benzene	ND	ug/L	200	200		01/15/14 14:45	71-43-2	
Bromodichloromethane	ND	ug/L	200	200		01/15/14 14:45	75-27-4	
Bromoform	ND	ug/L	200	200		01/15/14 14:45	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/15/14 14:45	74-83-9	
2-Butanone (MEK)	**60500**	ug/L	2000	200		01/15/14 14:45	78-93-3	N2
Carbon tetrachloride	ND	ug/L	200	200		01/15/14 14:45	56-23-5	
Chloroethane	ND	ug/L	200	200		01/15/14 14:45	75-00-3	
Chloroform	ND	ug/L	200	200		01/15/14 14:45	67-66-3	
1,4-Dichlorobenzene	**715**	ug/L	200	200		01/15/14 14:45	106-46-7	
1,2-Dichloroethane	ND	ug/L	200	200		01/15/14 14:45	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/15/14 14:45	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/15/14 14:45	156-60-5	
Ethylbenzene	ND	ug/L	200	200		01/15/14 14:45	100-41-4	
Methylene chloride	ND	ug/L	200	200		01/15/14 14:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2880**	ug/L	2000	200		01/15/14 14:45	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		01/15/14 14:45	79-34-5	N2
Tetrachloroethene	ND	ug/L	200	200		01/15/14 14:45	127-18-4	
Toluene	ND	ug/L	200	200		01/15/14 14:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/15/14 14:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		01/15/14 14:45	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/15/14 14:45	79-01-6	
Vinyl chloride	ND	ug/L	200	200		01/15/14 14:45	75-01-4	
Xylene (Total)	ND	ug/L	600	200		01/15/14 14:45	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	200		01/15/14 14:45	460-00-4	
Toluene-d8 (S)	108	%	80-120	200		01/15/14 14:45	2037-26-5	
1,2-Dichloroethane-d4 (S)	91	%	80-120	200		01/15/14 14:45	17060-07-0	
Preservation pH	**6.0**		1.0	200		01/15/14 14:45		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	**1590**	mg/L	5.0	1		01/14/14 13:50		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

Sample: 316-190R4 **Lab ID: 60161021001** Collected: 01/10/14 14:30 Received: 01/11/14 01:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	**26.3**	mg/L	5.0	1		01/14/14 13:53		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**3720**	mg/L	5.0	1		01/14/14 12:05		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**5.5**	Std. Units	0.10	1		01/13/14 14:30		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**34900**	mg/L	2.0	1	01/11/14 15:09	01/16/14 07:45		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**696**	mg/L	20.0	200		01/14/14 11:48	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**41800**	mg/L	5000	500		01/16/14 10:41		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

Sample: TRIP BLANK **Lab ID: 60161021002** Collected: 01/10/14 14:30 Received: 01/11/14 01:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	ND	ug/L	10.0	1		01/14/14 23:34	67-64-1	N2
Benzene	ND	ug/L	1.0	1		01/14/14 23:34	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		01/14/14 23:34	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/14/14 23:34	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/14/14 23:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/14/14 23:34	78-93-3	N2
Carbon tetrachloride	ND	ug/L	1.0	1		01/14/14 23:34	56-23-5	
Chloroethane	ND	ug/L	1.0	1		01/14/14 23:34	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/14/14 23:34	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/14/14 23:34	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/14/14 23:34	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/14/14 23:34	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/14/14 23:34	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/14/14 23:34	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		01/14/14 23:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/14/14 23:34	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/14/14 23:34	79-34-5	N2
Tetrachloroethene	ND	ug/L	1.0	1		01/14/14 23:34	127-18-4	
Toluene	ND	ug/L	1.0	1		01/14/14 23:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/14/14 23:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/14/14 23:34	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/14/14 23:34	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/14/14 23:34	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/14/14 23:34	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	1		01/14/14 23:34	460-00-4	
Toluene-d8 (S)	103	%	80-120	1		01/14/14 23:34	2037-26-5	
1,2-Dichloroethane-d4 (S)	88	%	80-120	1		01/14/14 23:34	17060-07-0	
Preservation pH	**6.0**		1.0	1		01/14/14 23:34		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

QC Batch: MERP/8063
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Associated Lab Samples: 60161021001

METHOD BLANK: 1316884
Matrix: Water
Associated Lab Samples: 60161021001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/14/14 12:11	

LABORATORY CONTROL SAMPLE: 1316885

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1316886 1316887

Parameter	Units	60160952001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	0.67	0.65	12	12	70-130	3	20	M1

MATRIX SPIKE SAMPLE: 1316888

Parameter	Units	60160834001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	24.5	150	181	104	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

QC Batch: MERP/8062
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60161021001

METHOD BLANK: 1316880
Matrix: Water
Associated Lab Samples: 60161021001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	01/14/14 13:00	

LABORATORY CONTROL SAMPLE: 1316881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1316882 1316883

Parameter	Units	60160952001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	0.47	0.56	9	11	70-130	17	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

QC Batch: MPRP/25875
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60161021001

METHOD BLANK: 1316792
Matrix: Water
Associated Lab Samples: 60161021001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	01/14/14 13:34	
Antimony	ug/L	ND	10.0	01/14/14 13:34	
Arsenic	ug/L	ND	10.0	01/14/14 13:34	
Beryllium	ug/L	ND	1.0	01/14/14 13:34	
Cadmium	ug/L	ND	5.0	01/14/14 13:34	
Chromium	ug/L	ND	5.0	01/14/14 13:34	
Cobalt	ug/L	ND	5.0	01/14/14 13:34	
Copper	ug/L	ND	10.0	01/14/14 13:34	
Iron	ug/L	ND	50.0	01/14/14 13:34	
Lead	ug/L	ND	5.0	01/14/14 13:34	
Nickel	ug/L	ND	5.0	01/14/14 13:34	
Selenium	ug/L	ND	15.0	01/14/14 13:34	
Silver	ug/L	ND	7.0	01/14/14 13:34	
Thallium	ug/L	ND	20.0	01/14/14 13:34	
Zinc	ug/L	ND	50.0	01/14/14 13:34	

LABORATORY CONTROL SAMPLE: 1316793

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10100	101	85-115	
Antimony	ug/L	1000	1020	102	85-115	
Arsenic	ug/L	1000	970	97	85-115	
Beryllium	ug/L	1000	1030	103	85-115	
Cadmium	ug/L	1000	1000	100	85-115	
Chromium	ug/L	1000	1020	102	85-115	
Cobalt	ug/L	1000	1030	103	85-115	
Copper	ug/L	1000	1020	102	85-115	
Iron	ug/L	10000	10300	103	85-115	
Lead	ug/L	1000	1030	103	85-115	
Nickel	ug/L	1000	1040	104	85-115	
Selenium	ug/L	1000	1010	101	85-115	
Silver	ug/L	500	504	101	85-115	
Thallium	ug/L	1000	1040	104	85-115	
Zinc	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1316794 1316795

Parameter	Units	60161001002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	ND	10000	10000	10200	10200	101	102	70-130	1	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1316794 1316795

Parameter	Units	60161001002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	1000	1000	1050	1050	105	105	70-130	0	7	
Arsenic	ug/L	ND	1000	1000	1000	1010	100	101	70-130	1	10	
Beryllium	ug/L	ND	1000	1000	1040	1040	104	104	70-130	0	7	
Cadmium	ug/L	ND	1000	1000	1010	1020	101	102	70-130	0	10	
Chromium	ug/L	ND	1000	1000	1010	1010	101	101	70-130	0	10	
Cobalt	ug/L	ND	1000	1000	1010	1010	101	101	70-130	0	6	
Copper	ug/L	ND	1000	1000	1030	1030	103	103	70-130	0	11	
Iron	ug/L	338	10000	10000	10500	10600	101	103	70-130	1	10	
Lead	ug/L	ND	1000	1000	997	1000	100	100	70-130	0	10	
Nickel	ug/L	ND	1000	1000	1020	1020	102	102	70-130	0	10	
Selenium	ug/L	ND	1000	1000	1030	1030	103	103	70-130	0	10	
Silver	ug/L	ND	500	500	512	513	102	102	70-130	0	10	
Thallium	ug/L	ND	1000	1000	964	970	96	97	70-130	1	6	
Zinc	ug/L	ND	1000	1000	1030	1030	100	100	70-130	0	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

QC Batch: MPRP/25873
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60161021001

METHOD BLANK: 1316782
Matrix: Water
Associated Lab Samples: 60161021001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	01/14/14 13:24	
Antimony, Dissolved	ug/L	ND	10.0	01/14/14 13:24	
Arsenic, Dissolved	ug/L	ND	10.0	01/14/14 13:24	
Beryllium, Dissolved	ug/L	ND	1.0	01/14/14 13:24	
Cadmium, Dissolved	ug/L	ND	5.0	01/14/14 13:24	
Chromium, Dissolved	ug/L	ND	5.0	01/14/14 13:24	
Cobalt, Dissolved	ug/L	ND	5.0	01/14/14 13:24	
Copper, Dissolved	ug/L	ND	10.0	01/14/14 13:24	
Iron, Dissolved	ug/L	71.8	50.0	01/14/14 13:24	
Lead, Dissolved	ug/L	ND	5.0	01/14/14 13:24	
Nickel, Dissolved	ug/L	ND	5.0	01/14/14 13:24	
Selenium, Dissolved	ug/L	ND	15.0	01/14/14 13:24	
Silver, Dissolved	ug/L	ND	7.0	01/14/14 13:24	
Thallium, Dissolved	ug/L	ND	20.0	01/14/14 13:24	
Zinc, Dissolved	ug/L	ND	50.0	01/14/14 13:24	

LABORATORY CONTROL SAMPLE: 1316783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9510	95	85-115	
Antimony, Dissolved	ug/L	1000	1030	103	85-115	
Arsenic, Dissolved	ug/L	1000	977	98	85-115	
Beryllium, Dissolved	ug/L	1000	1010	101	85-115	
Cadmium, Dissolved	ug/L	1000	1010	101	85-115	
Chromium, Dissolved	ug/L	1000	987	99	85-115	
Cobalt, Dissolved	ug/L	1000	994	99	85-115	
Copper, Dissolved	ug/L	1000	978	98	85-115	
Iron, Dissolved	ug/L	10000	9820	98	85-115	
Lead, Dissolved	ug/L	1000	1020	102	85-115	
Nickel, Dissolved	ug/L	1000	1000	100	85-115	
Selenium, Dissolved	ug/L	1000	1010	101	85-115	
Silver, Dissolved	ug/L	500	498	100	85-115	
Thallium, Dissolved	ug/L	1000	1040	104	85-115	
Zinc, Dissolved	ug/L	1000	994	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1316784 1316785

Parameter	Units	60160834001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	1610	50000	50000	53800	54100	104	105	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1316784 1316785

Parameter	Units	60160834001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	5000	5000	5120	5090	102	101	70-130	1	7	
Arsenic, Dissolved	ug/L	733	5000	5000	5730	5720	100	100	70-130	0	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	5080	5060	102	101	70-130	0	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	4980	4990	99	100	70-130	0	10	
Chromium, Dissolved	ug/L	243	5000	5000	5140	5150	98	98	70-130	0	10	
Cobalt, Dissolved	ug/L	ND	5000	5000	4980	4980	99	99	70-130	0	6	
Copper, Dissolved	ug/L	ND	5000	5000	4850	4860	97	97	70-130	0	11	
Iron, Dissolved	ug/L	601000	50000	50000	564000	557000	-73	-88	70-130	1	10	M1
Lead, Dissolved	ug/L	88.8	5000	5000	4760	4750	93	93	70-130	0	10	
Nickel, Dissolved	ug/L	84.4	5000	5000	5080	5080	100	100	70-130	0	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5280	5230	105	104	70-130	1	10	
Silver, Dissolved	ug/L	ND	2500	2500	2490	2500	100	100	70-130	0	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4270	4290	85	86	70-130	0	6	
Zinc, Dissolved	ug/L	8200	5000	5000	12300	12200	82	81	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

QC Batch: MSV/58821 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60161021002

METHOD BLANK: 1317125 | Matrix: Water
Associated Lab Samples: 60161021002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/14/14 22:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/14/14 22:49	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/14/14 22:49	
1,2-Dichloroethane	ug/L	ND	1.0	01/14/14 22:49	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/14/14 22:49	
2-Butanone (MEK)	ug/L	ND	10.0	01/14/14 22:49	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/14/14 22:49	N2
Acetone	ug/L	ND	10.0	01/14/14 22:49	N2
Benzene	ug/L	ND	1.0	01/14/14 22:49	
Bromodichloromethane	ug/L	ND	1.0	01/14/14 22:49	
Bromoform	ug/L	ND	1.0	01/14/14 22:49	
Bromomethane	ug/L	ND	5.0	01/14/14 22:49	
Carbon tetrachloride	ug/L	ND	1.0	01/14/14 22:49	
Chloroethane	ug/L	ND	1.0	01/14/14 22:49	
Chloroform	ug/L	ND	1.0	01/14/14 22:49	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/14/14 22:49	N2
Ethylbenzene	ug/L	ND	1.0	01/14/14 22:49	
Methylene chloride	ug/L	ND	1.0	01/14/14 22:49	
Tetrachloroethene	ug/L	ND	1.0	01/14/14 22:49	
Toluene	ug/L	ND	1.0	01/14/14 22:49	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/14/14 22:49	
Trichloroethene	ug/L	ND	1.0	01/14/14 22:49	
Vinyl chloride	ug/L	ND	1.0	01/14/14 22:49	
Xylene (Total)	ug/L	ND	3.0	01/14/14 22:49	N2
1,2-Dichloroethane-d4 (S)	%	93	80-120	01/14/14 22:49	
4-Bromofluorobenzene (S)	%	101	80-120	01/14/14 22:49	
Toluene-d8 (S)	%	108	80-120	01/14/14 22:49	

LABORATORY CONTROL SAMPLE: 1317126

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	14.5	72	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	14.9	75	59-138	N2
1,1,2-Trichloroethane	ug/L	20	15.8	79	69-127	
1,2-Dichloroethane	ug/L	20	15.3	76	71-129	
1,4-Dichlorobenzene	ug/L	20	18.1	90	68-124	
2-Butanone (MEK)	ug/L	100	77.3	77	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	70.8	71	61-120	N2
Acetone	ug/L	100	68.8	69	40-160	N2
Benzene	ug/L	20	15.7	79	73-129	
Bromodichloromethane	ug/L	20	15.6	78	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

LABORATORY CONTROL SAMPLE: 1317126

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	15.1	76	52-123	
Bromomethane	ug/L	20	8.9	45	10-160	
Carbon tetrachloride	ug/L	20	14.5	72	70-140	
Chloroethane	ug/L	20	14.9	75	42-160	
Chloroform	ug/L	20	14.4	72	60-120	
cis-1,2-Dichloroethene	ug/L	20	17.1	85	70-125	N2
Ethylbenzene	ug/L	20	17.4	87	66-133	
Methylene chloride	ug/L	20	16.9	85	56-135	
Tetrachloroethene	ug/L	20	16.2	81	64-143	
Toluene	ug/L	20	16.3	82	70-130	
trans-1,2-Dichloroethene	ug/L	20	15.9	80	67-149	
Trichloroethene	ug/L	20	16.7	84	71-130	
Vinyl chloride	ug/L	20	11.6	58	41-160	
Xylene (Total)	ug/L	60	51.1	85	67-130	N2
1,2-Dichloroethane-d4 (S)	%			89	80-120	
4-Bromofluorobenzene (S)	%			95	80-120	
Toluene-d8 (S)	%			103	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

QC Batch: MSV/58857 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60161021001

METHOD BLANK: 1317833 | Matrix: Water
Associated Lab Samples: 60161021001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/15/14 14:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/15/14 14:30	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/15/14 14:30	
1,2-Dichloroethane	ug/L	ND	1.0	01/15/14 14:30	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/15/14 14:30	
2-Butanone (MEK)	ug/L	ND	10.0	01/15/14 14:30	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/15/14 14:30	N2
Acetone	ug/L	ND	10.0	01/15/14 14:30	N2
Benzene	ug/L	ND	1.0	01/15/14 14:30	
Bromodichloromethane	ug/L	ND	1.0	01/15/14 14:30	
Bromoform	ug/L	ND	1.0	01/15/14 14:30	
Bromomethane	ug/L	ND	5.0	01/15/14 14:30	
Carbon tetrachloride	ug/L	ND	1.0	01/15/14 14:30	
Chloroethane	ug/L	ND	1.0	01/15/14 14:30	
Chloroform	ug/L	ND	1.0	01/15/14 14:30	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/15/14 14:30	N2
Ethylbenzene	ug/L	ND	1.0	01/15/14 14:30	
Methylene chloride	ug/L	ND	1.0	01/15/14 14:30	
Tetrachloroethene	ug/L	ND	1.0	01/15/14 14:30	
Toluene	ug/L	ND	1.0	01/15/14 14:30	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/15/14 14:30	
Trichloroethene	ug/L	ND	1.0	01/15/14 14:30	
Vinyl chloride	ug/L	ND	1.0	01/15/14 14:30	
Xylene (Total)	ug/L	ND	3.0	01/15/14 14:30	N2
1,2-Dichloroethane-d4 (S)	%	95	80-120	01/15/14 14:30	
4-Bromofluorobenzene (S)	%	105	80-120	01/15/14 14:30	
Toluene-d8 (S)	%	111	80-120	01/15/14 14:30	

LABORATORY CONTROL SAMPLE: 1317834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.8	89	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	16.8	84	59-138	N2
1,1,2-Trichloroethane	ug/L	20	18.8	94	69-127	
1,2-Dichloroethane	ug/L	20	18.1	90	71-129	
1,4-Dichlorobenzene	ug/L	20	17.3	87	68-124	
2-Butanone (MEK)	ug/L	100	83.8	84	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	89.2	89	61-120	N2
Acetone	ug/L	100	73.9	74	40-160	N2
Benzene	ug/L	20	18.4	92	73-129	
Bromodichloromethane	ug/L	20	19.9	100	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

LABORATORY CONTROL SAMPLE: 1317834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	18.7	94	52-123	
Bromomethane	ug/L	20	20.0	100	10-160	
Carbon tetrachloride	ug/L	20	18.5	93	70-140	
Chloroethane	ug/L	20	20.2	101	42-160	
Chloroform	ug/L	20	17.7	89	60-120	
cis-1,2-Dichloroethene	ug/L	20	21.2	106	70-125	N2
Ethylbenzene	ug/L	20	17.5	87	66-133	
Methylene chloride	ug/L	20	20.4	102	56-135	
Tetrachloroethene	ug/L	20	18.3	92	64-143	
Toluene	ug/L	20	19.8	99	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.4	102	67-149	
Trichloroethene	ug/L	20	19.3	97	71-130	
Vinyl chloride	ug/L	20	21.1	105	41-160	
Xylene (Total)	ug/L	60	53.7	90	67-130	N2
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			104	80-120	

MATRIX SPIKE SAMPLE: 1317127

Parameter	Units	60161021001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3820	96	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3570	85	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4150	104	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3610	90	49-155	
1,4-Dichlorobenzene	ug/L	715	4000	4330	90	18-147	
2-Butanone (MEK)	ug/L	60500	20000	92300	159	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	2880	20000	22300	97	40-160	N2
Acetone	ug/L	97000	20000	133000	178	40-160	M1,N2
Benzene	ug/L	ND	4000	3880	95	37-151	
Bromodichloromethane	ug/L	ND	4000	4230	106	35-155	
Bromoform	ug/L	ND	4000	4070	102	45-133	
Bromomethane	ug/L	ND	4000	3830	96	10-160	
Carbon tetrachloride	ug/L	ND	4000	4180	104	70-140	
Chloroethane	ug/L	ND	4000	4110	102	14-160	
Chloroform	ug/L	ND	4000	3630	91	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	4260	107	19-160	N2
Ethylbenzene	ug/L	ND	4000	3850	93	37-154	
Methylene chloride	ug/L	ND	4000	4140	103	15-156	
Tetrachloroethene	ug/L	ND	4000	4170	104	64-148	
Toluene	ug/L	ND	4000	4170	102	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4230	106	54-156	
Trichloroethene	ug/L	ND	4000	4210	105	71-157	
Vinyl chloride	ug/L	ND	4000	4510	113	10-160	
Xylene (Total)	ug/L	ND	12000	12000	100	12-153	N2
1,2-Dichloroethane-d4 (S)	%				95	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

MATRIX SPIKE SAMPLE: 1317127

Parameter	Units	60161021001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				107	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

QC Batch: OEXT/42228 | Analysis Method: EPA 625
QC Batch Method: EPA 625 | Analysis Description: 625 MSS
Associated Lab Samples: 60161021001

METHOD BLANK: 1316842 | Matrix: Water
Associated Lab Samples: 60161021001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/15/14 13:10	
2,4,6-Trichlorophenol	ug/L	ND	5.0	01/15/14 13:10	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	01/15/14 13:10	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/15/14 13:10	
Hexachlorocyclopentadiene	ug/L	ND	5.0	01/15/14 13:10	
Hexachloroethane	ug/L	ND	5.0	01/15/14 13:10	
Naphthalene	ug/L	ND	5.0	01/15/14 13:10	
Nitrobenzene	ug/L	ND	5.0	01/15/14 13:10	
Pentachlorophenol	ug/L	ND	5.0	01/15/14 13:10	
Phenol	ug/L	ND	5.0	01/15/14 13:10	
2,4,6-Tribromophenol (S)	%	70	39-120	01/15/14 13:10	
2-Fluorobiphenyl (S)	%	71	39-120	01/15/14 13:10	
2-Fluorophenol (S)	%	35	17-120	01/15/14 13:10	
Nitrobenzene-d5 (S)	%	66	33-120	01/15/14 13:10	
Phenol-d6 (S)	%	22	11-120	01/15/14 13:10	
Terphenyl-d14 (S)	%	81	45-120	01/15/14 13:10	

LABORATORY CONTROL SAMPLE: 1316843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	38.3	77	46-120	
2,4,6-Trichlorophenol	ug/L	50	40.6	81	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	43.5	87	40-133	
Hexachloro-1,3-butadiene	ug/L	50	36.7	73	44-116	
Hexachlorocyclopentadiene	ug/L	100	59.3	59	24-120	
Hexachloroethane	ug/L	50	35.5	71	43-113	
Naphthalene	ug/L	50	38.7	77	48-120	
Nitrobenzene	ug/L	50	39.0	78	48-120	
Pentachlorophenol	ug/L	50	35.7	71	47-120	
Phenol	ug/L	50	14.6	29	16-112	
2,4,6-Tribromophenol (S)	%			86	39-120	
2-Fluorobiphenyl (S)	%			85	39-120	
2-Fluorophenol (S)	%			41	17-120	
Nitrobenzene-d5 (S)	%			78	33-120	
Phenol-d6 (S)	%			26	11-120	
Terphenyl-d14 (S)	%			90	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

MATRIX SPIKE SAMPLE: 1316844

Parameter	Units	60160927001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	35.6	71	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	40.3	81	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	50	39.6J	79	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	35.4	71	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	73.8	74	11-120	
Hexachloroethane	ug/L	ND	50	36.9	74	40-113	
Naphthalene	ug/L	26.2	50	57.3	62	45-120	
Nitrobenzene	ug/L	ND	50	35.0	70	38-120	
Pentachlorophenol	ug/L	ND	50	43.1	86	43-135	
Phenol	ug/L	100	50	108	15	13-112	
2,4,6-Tribromophenol (S)	%				86	39-120	
2-Fluorobiphenyl (S)	%				80	39-120	
2-Fluorophenol (S)	%				41	17-120	
Nitrobenzene-d5 (S)	%				118	33-120	
Phenol-d6 (S)	%				40	11-120	
Terphenyl-d14 (S)	%				79	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

QC Batch: WET/45604 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60161021001

METHOD BLANK: 1317218 | Matrix: Water
Associated Lab Samples: 60161021001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/14/14 13:49	

LABORATORY CONTROL SAMPLE: 1317219

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.3	98	78-114	

MATRIX SPIKE SAMPLE: 1317220

Parameter	Units	60160834001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	1530	161	1700	111	78-114	

SAMPLE DUPLICATE: 1317221

Parameter	Units	60160927001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1520	1900	22	18	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

QC Batch: WET/45603 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 SGT-HEM, TPH
Associated Lab Samples: 60161021001

METHOD BLANK: 1317211 | Matrix: Water
Associated Lab Samples: 60161021001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	01/14/14 13:51	

LABORATORY CONTROL SAMPLE: 1317212

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	18.3	92	64-132	

MATRIX SPIKE SAMPLE: 1317213

Parameter	Units	60160834001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	71.8	80.6	111	48	64-132	M1

SAMPLE DUPLICATE: 1317214

Parameter	Units	60160927001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	45.5	49.5	9	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

QC Batch: WET/45601 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60161021001

METHOD BLANK: 1317191 | Matrix: Water
Associated Lab Samples: 60161021001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	01/14/14 11:59	

SAMPLE DUPLICATE: 1317192

Parameter	Units	60160918003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	7.0	7.0	0	25	

SAMPLE DUPLICATE: 1317193

Parameter	Units	60160900003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	99.0	95.0	4	25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

QC Batch: WET/45584
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 60161021001

SAMPLE DUPLICATE: 1316709

Parameter	Units	60160944019 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.6	6.6	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

QC Batch: WET/45578 | Analysis Method: SM 5210B
QC Batch Method: SM 5210B | Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 60161021001

METHOD BLANK: 1316580 | Matrix: Water
Associated Lab Samples: 60161021001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	01/16/14 07:34	

LABORATORY CONTROL SAMPLE: 1316581

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	201	102	85-115	

SAMPLE DUPLICATE: 1316582

Parameter	Units	60161021001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	34900	36100	3	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

QC Batch: WETA/27807
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60161021001

METHOD BLANK: 1316667
Matrix: Water
Associated Lab Samples: 60161021001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	01/14/14 11:16	

LABORATORY CONTROL SAMPLE: 1316668

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	107	90-110	

MATRIX SPIKE SAMPLE: 1316669

Parameter	Units	60160581003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.0	99	90-110	

MATRIX SPIKE SAMPLE: 1316670

Parameter	Units	60160601006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.8	90	90-110	

SAMPLE DUPLICATE: 1316671

Parameter	Units	60160569002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

QC Batch: WETA/27814 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 60161021001

METHOD BLANK: 1316914 | Matrix: Water
Associated Lab Samples: 60161021001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	01/16/14 10:27	

LABORATORY CONTROL SAMPLE: 1316915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	54.9	110	90-110	

MATRIX SPIKE SAMPLE: 1316918

Parameter	Units	60160823003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L			776			

MATRIX SPIKE SAMPLE: 1316919

Parameter	Units	60160823001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L			633			

SAMPLE DUPLICATE: 1316917

Parameter	Units	60160715003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	2440	2580	5	25	

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QUALIFIERS

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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

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TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/58821

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-190R4
Pace Project No.: 60161021

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60161021001	**316-190R4**	EPA 200.7	MPRP/25875	EPA 200.7	ICP/19817
60161021001	**316-190R4**	EPA 200.7	MPRP/25873	EPA 200.7	ICP/19813
60161021001	**316-190R4**	EPA 245.1	MERP/8063	EPA 245.1	MERC/8018
60161021001	**316-190R4**	EPA 245.1	MERP/8062	EPA 245.1	MERC/8019
60161021001	**316-190R4**	EPA 625	OEXT/42228	EPA 625	MSSV/13444
60161021001	**316-190R4**	EPA 624 Low	MSV/58857		
60161021002	**TRIP BLANK**	EPA 624 Low	MSV/58821		
60161021001	**316-190R4**	EPA 1664A	WET/45604		
60161021001	**316-190R4**	EPA 1664A	WET/45603		
60161021001	**316-190R4**	SM 2540D	WET/45601		
60161021001	**316-190R4**	SM 4500-H+B	WET/45584		
60161021001	**316-190R4**	SM 5210B	WET/45578	SM 5210B	WET/45674
60161021001	**316-190R4**	EPA 350.1	WETA/27807		
60161021001	**316-190R4**	EPA 410.4	WETA/27814		

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Sample Condition Upon Receipt

WO#: 60161021
60161021

Optional
Proj Due Date:
Proj Name:

Client Name: Barr

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

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☑ None ☐ Other ☑ ZPIC

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 1-2

Temperature should be above freezing to 6°C

Date and initials of person examining contents: PV 1/11/14

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 & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6. BOD pH
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☑Yes ☐No ☐N/A	13.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	Added 2.5 mL of HNO3 to 8P3N. pH 6.0/4.0 Added 2.0 mL of H2SO4 to 8P3S. pH 6.0/2.0
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed PV — Lot # of added preservative 12513 12518
Trip Blank present: Pace Trip Blank lot # (if purchased): 11113-3	☑Yes ☐No ☐N/A	15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: MW for AKB Date: 1/11/14

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A — Required Client Information:

Company:	BARR ENGINEERING
Address:	
Email To:	
Phone:	(816) 285-8410 Fax
Requested Due Date/TAT:	10 Day (Default)

Section B — Required Project Information:

Report To:	ED GALBRAITH/BARR
Copy To:	SCOTT FEDAK/FEEZOR
	DANA BAKER/MARGARET TREANOR -BARR
Purchase Order No.	PO 3727110
Client Project ID:	BRIDGETON LF
Container Order Number:	

Section C — Invoice Information:

Attention:	JANET ROLLEN
Company Name:	REPUBLIC SERVICES
Address:	BRIDGETON, MO 63044
Pace Quote Reference:	130426_7588
Pace Project Manager:	Brown, Angie
Pace Profile #:	6787 LINE 2

Regulatory Agency:

State / Location: Missouri

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

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	COD EPA 410	pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B		Residual Chlorine (Y/N)	6016 1021
1	31G-190R4 2AG4U 1BP3U 3AG3S	OT	G	01/10/14	1430	—	—		14	10	4	1	0	1BP3N	4 oz				X	X	X	X	X	X	X	X	X	X	X	1BP3S	2BP2U 5DG9T	W
2	TRIP BLANK								2	2															X						2DG9U	W
3																															
4																															
5																															
6																															METALS LIST total & LF Dis:
7																															Al,Sb,As,Be,Cd,Cr,
8																															Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn
9																															and Mercury
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	Julie Cook/ Feezor	1/10/14	1505	Margaret A. Olarth	1/10/14	1505				
SITE ADDRESS: BRIDGETON LF				PLAS	1/11/14	0115	1-2	Y	Y	Y
13570 ST. CHARLES ROCK RD										
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: John Powell

SIGNATURE of SAMPLER: [signature] DATE Signed: 01-10-04

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Pace Analytical Services, Inc.
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(913)599-5665

January 21, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 13, 2014. 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,

Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60161076001	**316-191R2**	Water	01/11/14 14:00	01/13/14 13:55
60161076002	**TRIP BLANK**	Water	01/11/14 14:00	01/13/14 13:55

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60161076001	**316-191R2**	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TJT	1
		EPA 245.1	TJT	1
		EPA 625	JMT	16
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC	1
		SM 4500-H+B	JML	1
		SM 5210B	AJM	1
		EPA 350.1	NDL	1
		EPA 410.4	JMC	1
60161076002	**TRIP BLANK**	EPA 624 Low	EAK	28

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PROJECT NARRATIVE

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

Date: January 21, 2014

The samples were received on Jan 13th at 13:55. The hold time for BOD analysis expired Jan 13th at 14:00.

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

Sample: 316-191R2 **Lab ID: 60161076001** Collected: 01/11/14 14:00 Received: 01/13/14 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	**8220**	ug/L	750	2	01/16/14 14:55	01/17/14 14:45	7429-90-5	
Antimony	ND	ug/L	100	2	01/16/14 14:55	01/17/14 14:45	7440-36-0	D3
Arsenic	**797**	ug/L	50.0	1	01/16/14 14:55	01/17/14 14:41	7440-38-2	
Beryllium	ND	ug/L	5.0	1	01/16/14 14:55	01/17/14 14:41	7440-41-7	
Cadmium	ND	ug/L	25.0	1	01/16/14 14:55	01/17/14 14:41	7440-43-9	
Chromium	**282**	ug/L	25.0	1	01/16/14 14:55	01/17/14 14:41	7440-47-3	
Cobalt	**39.4**	ug/L	25.0	1	01/16/14 14:55	01/17/14 14:41	7440-48-4	
Copper	ND	ug/L	50.0	1	01/16/14 14:55	01/17/14 14:41	7440-50-8	
Iron	**690000**	ug/L	250	1	01/16/14 14:55	01/17/14 14:41	7439-89-6	M1
Lead	**110**	ug/L	25.0	1	01/16/14 14:55	01/17/14 14:41	7439-92-1	
Nickel	**117**	ug/L	25.0	1	01/16/14 14:55	01/17/14 14:41	7440-02-0	
Selenium	ND	ug/L	75.0	1	01/16/14 14:55	01/17/14 14:41	7782-49-2	
Silver	ND	ug/L	35.0	1	01/16/14 14:55	01/17/14 14:41	7440-22-4	
Thallium	ND	ug/L	100	1	01/16/14 14:55	01/17/14 14:41	7440-28-0	
Zinc	**7090**	ug/L	500	2	01/16/14 14:55	01/17/14 14:45	7440-66-6	
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	**1790**	ug/L	750	2	01/16/14 15:20	01/17/14 12:11	7429-90-5	
Antimony, Dissolved	ND	ug/L	100	2	01/16/14 15:20	01/17/14 12:11	7440-36-0	D3
Arsenic, Dissolved	**574**	ug/L	50.0	1	01/16/14 15:20	01/17/14 12:08	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	01/16/14 15:20	01/17/14 12:08	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	01/16/14 15:20	01/17/14 12:08	7440-43-9	
Chromium, Dissolved	**212**	ug/L	25.0	1	01/16/14 15:20	01/17/14 12:08	7440-47-3	
Cobalt, Dissolved	**25.5**	ug/L	25.0	1	01/16/14 15:20	01/17/14 12:08	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	01/16/14 15:20	01/17/14 12:08	7440-50-8	
Iron, Dissolved	**526000**	ug/L	250	1	01/16/14 15:20	01/17/14 12:08	7439-89-6	M1
Lead, Dissolved	**59.8**	ug/L	25.0	1	01/16/14 15:20	01/17/14 12:08	7439-92-1	
Nickel, Dissolved	**85.9**	ug/L	25.0	1	01/16/14 15:20	01/17/14 12:08	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	01/16/14 15:20	01/17/14 12:08	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	01/16/14 15:20	01/17/14 12:08	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	01/16/14 15:20	01/17/14 12:08	7440-28-0	
Zinc, Dissolved	**5070**	ug/L	500	2	01/16/14 15:20	01/17/14 12:11	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	6.0	1	01/16/14 13:00	01/17/14 12:24	7439-97-6	
245.1 Mercury, Dissolved (LF)	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	6.0	1	01/16/14 13:00	01/17/14 11:58	7439-97-6	M1
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	50.0	2	01/14/14 00:00	01/15/14 14:53	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 14:53	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 14:53	77-47-4	
Hexachloroethane	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 14:53	67-72-1	
Naphthalene	**13.5**	ug/L	10.0	2	01/14/14 00:00	01/15/14 14:53	91-20-3	
Nitrobenzene	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 14:53	98-95-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

Sample: 316-191R2 **Lab ID: 60161076001** Collected: 01/11/14 14:00 Received: 01/13/14 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Pentachlorophenol	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 14:53	87-86-5	
Phenol	**89.4**	ug/L	10.0	2	01/14/14 00:00	01/15/14 14:53	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 14:53	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 14:53	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	114	%	33-120	2	01/14/14 00:00	01/15/14 14:53	4165-60-0	
2-Fluorobiphenyl (S)	77	%	39-120	2	01/14/14 00:00	01/15/14 14:53	321-60-8	
Terphenyl-d14 (S)	76	%	45-120	2	01/14/14 00:00	01/15/14 14:53	1718-51-0	
Phenol-d6 (S)	37	%	11-120	2	01/14/14 00:00	01/15/14 14:53	13127-88-3	
2-Fluorophenol (S)	40	%	17-120	2	01/14/14 00:00	01/15/14 14:53	367-12-4	
2,4,6-Tribromophenol (S)	86	%	39-120	2	01/14/14 00:00	01/15/14 14:53	118-79-6	
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	**104000**	ug/L	2000	200		01/15/14 15:15	67-64-1	N2
Benzene	ND	ug/L	200	200		01/15/14 15:15	71-43-2	
Bromodichloromethane	ND	ug/L	200	200		01/15/14 15:15	75-27-4	
Bromoform	ND	ug/L	200	200		01/15/14 15:15	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/15/14 15:15	74-83-9	
2-Butanone (MEK)	**73300**	ug/L	2000	200		01/15/14 15:15	78-93-3	N2
Carbon tetrachloride	ND	ug/L	200	200		01/15/14 15:15	56-23-5	
Chloroethane	ND	ug/L	200	200		01/15/14 15:15	75-00-3	
Chloroform	ND	ug/L	200	200		01/15/14 15:15	67-66-3	
1,4-Dichlorobenzene	**798**	ug/L	200	200		01/15/14 15:15	106-46-7	
1,2-Dichloroethane	ND	ug/L	200	200		01/15/14 15:15	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/15/14 15:15	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/15/14 15:15	156-60-5	
Ethylbenzene	ND	ug/L	200	200		01/15/14 15:15	100-41-4	
Methylene chloride	ND	ug/L	200	200		01/15/14 15:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	**3110**	ug/L	2000	200		01/15/14 15:15	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		01/15/14 15:15	79-34-5	N2
Tetrachloroethene	ND	ug/L	200	200		01/15/14 15:15	127-18-4	
Toluene	ND	ug/L	200	200		01/15/14 15:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/15/14 15:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		01/15/14 15:15	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/15/14 15:15	79-01-6	
Vinyl chloride	ND	ug/L	200	200		01/15/14 15:15	75-01-4	
Xylene (Total)	ND	ug/L	600	200		01/15/14 15:15	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	96	%	80-120	200		01/15/14 15:15	460-00-4	
Toluene-d8 (S)	108	%	80-120	200		01/15/14 15:15	2037-26-5	
1,2-Dichloroethane-d4 (S)	98	%	80-120	200		01/15/14 15:15	17060-07-0	
Preservation pH	**6.0**		1.0	200		01/15/14 15:15		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	**842**	mg/L	5.0	1		01/16/14 16:49		M1

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

Sample: 316-191R2 **Lab ID: 60161076001** Collected: 01/11/14 14:00 Received: 01/13/14 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	**6.5**	mg/L	5.0	1		01/16/14 16:51		M1
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**2920**	mg/L	5.0	1		01/16/14 07:47		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**5.5**	Std. Units	0.10	1		01/17/14 15:50		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**24800**	mg/L	2.0	1	01/13/14 15:54	01/18/14 12:08		H2
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**648**	mg/L	50.0	500		01/15/14 13:30	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**44500**	mg/L	5000	500		01/16/14 10:42		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

Sample: TRIP BLANK **Lab ID: 60161076002** Collected: 01/11/14 14:00 Received: 01/13/14 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	ND	ug/L	10.0	1		01/15/14 00:04	67-64-1	N2
Benzene	ND	ug/L	1.0	1		01/15/14 00:04	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		01/15/14 00:04	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/15/14 00:04	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/15/14 00:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/15/14 00:04	78-93-3	N2
Carbon tetrachloride	ND	ug/L	1.0	1		01/15/14 00:04	56-23-5	
Chloroethane	ND	ug/L	1.0	1		01/15/14 00:04	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/15/14 00:04	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/15/14 00:04	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/15/14 00:04	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/15/14 00:04	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/15/14 00:04	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/15/14 00:04	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		01/15/14 00:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/15/14 00:04	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/15/14 00:04	79-34-5	N2
Tetrachloroethene	ND	ug/L	1.0	1		01/15/14 00:04	127-18-4	
Toluene	ND	ug/L	1.0	1		01/15/14 00:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/15/14 00:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/15/14 00:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/15/14 00:04	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/15/14 00:04	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/15/14 00:04	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	1		01/15/14 00:04	460-00-4	
Toluene-d8 (S)	102	%	80-120	1		01/15/14 00:04	2037-26-5	
1,2-Dichloroethane-d4 (S)	91	%	80-120	1		01/15/14 00:04	17060-07-0	
Preservation pH	**6.0**		1.0	1		01/15/14 00:04		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

QC Batch: MERP/8069
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Associated Lab Samples: 60161076001

METHOD BLANK: 1318148
Matrix: Water
Associated Lab Samples: 60161076001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/17/14 12:11	

LABORATORY CONTROL SAMPLE: 1318149

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.3	86	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318150 1318151

Parameter	Units	60161176001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.0	4.1	80	82	70-130	2	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

QC Batch: MERP/8070
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60161076001

METHOD BLANK: 1318152
Matrix: Water
Associated Lab Samples: 60161076001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	01/17/14 11:47	

LABORATORY CONTROL SAMPLE: 1318153

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.5	90	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318154 1318155

Parameter	Units	60161076001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	97.8	86.4	65	58	70-130	12	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

QC Batch: MPRP/25910
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60161076001

METHOD BLANK: 1318350
Matrix: Water
Associated Lab Samples: 60161076001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	01/17/14 14:08	
Antimony	ug/L	ND	10.0	01/17/14 14:08	
Arsenic	ug/L	ND	10.0	01/17/14 14:08	
Beryllium	ug/L	ND	1.0	01/17/14 14:08	
Cadmium	ug/L	ND	5.0	01/17/14 14:08	
Chromium	ug/L	ND	5.0	01/17/14 14:08	
Cobalt	ug/L	ND	5.0	01/17/14 14:08	
Copper	ug/L	ND	10.0	01/17/14 14:08	
Iron	ug/L	ND	50.0	01/17/14 14:08	
Lead	ug/L	ND	5.0	01/17/14 14:08	
Nickel	ug/L	ND	5.0	01/17/14 14:08	
Selenium	ug/L	ND	15.0	01/17/14 14:08	
Silver	ug/L	ND	7.0	01/17/14 14:08	
Thallium	ug/L	ND	20.0	01/17/14 14:08	
Zinc	ug/L	ND	50.0	01/17/14 14:08	

LABORATORY CONTROL SAMPLE: 1318351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9850	98	85-115	
Antimony	ug/L	1000	1060	106	85-115	
Arsenic	ug/L	1000	1020	102	85-115	
Beryllium	ug/L	1000	1010	101	85-115	
Cadmium	ug/L	1000	1030	103	85-115	
Chromium	ug/L	1000	1020	102	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	997	100	85-115	
Iron	ug/L	10000	10000	100	85-115	
Lead	ug/L	1000	1040	104	85-115	
Nickel	ug/L	1000	1040	104	85-115	
Selenium	ug/L	1000	1050	105	85-115	
Silver	ug/L	500	490	98	85-115	
Thallium	ug/L	1000	1000	100	85-115	
Zinc	ug/L	1000	1050	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318352 1318353

Parameter	Units	60161076001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	8220	50000	50000	64300	64100	112	112	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318352 1318353

Parameter	Units	60161076001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	5000	5000	5000	5090	100	102	70-130	2	7	
Arsenic	ug/L	797	5000	5000	5660	5790	97	100	70-130	2	10	
Beryllium	ug/L	ND	5000	5000	4880	5040	98	101	70-130	3	7	
Cadmium	ug/L	ND	5000	5000	4870	5030	97	100	70-130	3	10	
Chromium	ug/L	282	5000	5000	5090	5200	96	98	70-130	2	10	
Cobalt	ug/L	39.4	5000	5000	4870	5040	97	100	70-130	3	6	
Copper	ug/L	ND	5000	5000	4850	4990	96	99	70-130	3	11	
Iron	ug/L	690000	50000	50000	730000	706000	80	31	70-130	3	10	M1
Lead	ug/L	110	5000	5000	4780	4940	93	97	70-130	3	10	
Nickel	ug/L	117	5000	5000	4930	5080	96	99	70-130	3	10	
Selenium	ug/L	ND	5000	5000	4980	5180	99	103	70-130	4	10	
Silver	ug/L	ND	2500	2500	2390	2460	96	98	70-130	3	10	
Thallium	ug/L	ND	5000	5000	4420	4580	88	92	70-130	4	6	
Zinc	ug/L	7090	5000	5000	12100	12000	101	97	70-130	1	11	

MATRIX SPIKE SAMPLE: 1318354

Parameter	Units	60161120005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	ND	10000	10800	107	70-130	
Antimony	ug/L	ND	1000	1020	102	70-130	
Arsenic	ug/L	ND	1000	993	99	70-130	
Beryllium	ug/L	ND	1000	1050	105	70-130	
Cadmium	ug/L	ND	1000	1000	100	70-130	
Chromium	ug/L	ND	1000	1010	101	70-130	
Cobalt	ug/L	ND	1000	1010	101	70-130	
Copper	ug/L	ND	1000	992	99	70-130	
Iron	ug/L	76.8	10000	10100	101	70-130	
Lead	ug/L	ND	1000	983	98	70-130	
Nickel	ug/L	0.013 mg/L	1000	1020	101	70-130	
Selenium	ug/L	ND	1000	1010	101	70-130	
Silver	ug/L	ND	500	495	99	70-130	
Thallium	ug/L	ND	1000	942	94	70-130	
Zinc	ug/L	ND	1000	1020	100	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

QC Batch: MPRP/25909
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60161076001

METHOD BLANK: 1318337
Matrix: Water
Associated Lab Samples: 60161076001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	01/17/14 09:37	
Antimony, Dissolved	ug/L	ND	10.0	01/17/14 09:37	
Arsenic, Dissolved	ug/L	ND	10.0	01/17/14 09:37	
Beryllium, Dissolved	ug/L	ND	1.0	01/17/14 09:37	
Cadmium, Dissolved	ug/L	ND	5.0	01/17/14 09:37	
Chromium, Dissolved	ug/L	ND	5.0	01/17/14 09:37	
Cobalt, Dissolved	ug/L	ND	5.0	01/17/14 09:37	
Copper, Dissolved	ug/L	ND	10.0	01/17/14 09:37	
Iron, Dissolved	ug/L	ND	50.0	01/17/14 09:37	
Lead, Dissolved	ug/L	ND	5.0	01/17/14 09:37	
Nickel, Dissolved	ug/L	ND	5.0	01/17/14 09:37	
Selenium, Dissolved	ug/L	ND	15.0	01/17/14 09:37	
Silver, Dissolved	ug/L	ND	7.0	01/17/14 09:37	
Thallium, Dissolved	ug/L	ND	20.0	01/17/14 09:37	
Zinc, Dissolved	ug/L	ND	50.0	01/17/14 09:37	

LABORATORY CONTROL SAMPLE: 1318338

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10200	102	85-115	
Antimony, Dissolved	ug/L	1000	1070	107	85-115	
Arsenic, Dissolved	ug/L	1000	1040	104	85-115	
Beryllium, Dissolved	ug/L	1000	1040	104	85-115	
Cadmium, Dissolved	ug/L	1000	1060	106	85-115	
Chromium, Dissolved	ug/L	1000	1050	105	85-115	
Cobalt, Dissolved	ug/L	1000	1050	105	85-115	
Copper, Dissolved	ug/L	1000	1030	103	85-115	
Iron, Dissolved	ug/L	10000	10000	100	85-115	
Lead, Dissolved	ug/L	1000	1050	105	85-115	
Nickel, Dissolved	ug/L	1000	1060	106	85-115	
Selenium, Dissolved	ug/L	1000	1070	107	85-115	
Silver, Dissolved	ug/L	500	484	97	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	1070	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318339 1318340

Parameter	Units	60161076001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	1790	50000	50000	55000	59100	107	115	70-130	7	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318339 1318340

Parameter	Units	60161076001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	5000	5000	4920	4980	98	99	70-130	1	7	
Arsenic, Dissolved	ug/L	574	5000	5000	5300	5420	95	97	70-130	2	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	4990	5070	100	101	70-130	2	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	4780	4870	95	97	70-130	2	10	
Chromium, Dissolved	ug/L	212	5000	5000	5100	5260	98	101	70-130	3	10	
Cobalt, Dissolved	ug/L	25.5	5000	5000	4760	4860	95	97	70-130	2	6	
Copper, Dissolved	ug/L	ND	5000	5000	4880	5000	97	100	70-130	2	11	
Iron, Dissolved	ug/L	526000	50000	50000	550000	554000	48	54	70-130	1	10	M1
Lead, Dissolved	ug/L	59.8	5000	5000	4600	4690	91	93	70-130	2	10	
Nickel, Dissolved	ug/L	85.9	5000	5000	4870	4970	96	98	70-130	2	10	
Selenium, Dissolved	ug/L	ND	5000	5000	4750	4880	95	97	70-130	3	10	
Silver, Dissolved	ug/L	ND	2500	2500	2380	2440	95	97	70-130	2	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4400	4500	88	90	70-130	2	6	
Zinc, Dissolved	ug/L	5070	5000	5000	9730	9790	93	94	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

QC Batch: MSV/58821 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60161076002

METHOD BLANK: 1317125 | Matrix: Water
Associated Lab Samples: 60161076002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/14/14 22:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/14/14 22:49	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/14/14 22:49	
1,2-Dichloroethane	ug/L	ND	1.0	01/14/14 22:49	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/14/14 22:49	
2-Butanone (MEK)	ug/L	ND	10.0	01/14/14 22:49	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/14/14 22:49	N2
Acetone	ug/L	ND	10.0	01/14/14 22:49	N2
Benzene	ug/L	ND	1.0	01/14/14 22:49	
Bromodichloromethane	ug/L	ND	1.0	01/14/14 22:49	
Bromoform	ug/L	ND	1.0	01/14/14 22:49	
Bromomethane	ug/L	ND	5.0	01/14/14 22:49	
Carbon tetrachloride	ug/L	ND	1.0	01/14/14 22:49	
Chloroethane	ug/L	ND	1.0	01/14/14 22:49	
Chloroform	ug/L	ND	1.0	01/14/14 22:49	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/14/14 22:49	N2
Ethylbenzene	ug/L	ND	1.0	01/14/14 22:49	
Methylene chloride	ug/L	ND	1.0	01/14/14 22:49	
Tetrachloroethene	ug/L	ND	1.0	01/14/14 22:49	
Toluene	ug/L	ND	1.0	01/14/14 22:49	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/14/14 22:49	
Trichloroethene	ug/L	ND	1.0	01/14/14 22:49	
Vinyl chloride	ug/L	ND	1.0	01/14/14 22:49	
Xylene (Total)	ug/L	ND	3.0	01/14/14 22:49	N2
1,2-Dichloroethane-d4 (S)	%	93	80-120	01/14/14 22:49	
4-Bromofluorobenzene (S)	%	101	80-120	01/14/14 22:49	
Toluene-d8 (S)	%	108	80-120	01/14/14 22:49	

LABORATORY CONTROL SAMPLE: 1317126

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	14.5	72	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	14.9	75	59-138	N2
1,1,2-Trichloroethane	ug/L	20	15.8	79	69-127	
1,2-Dichloroethane	ug/L	20	15.3	76	71-129	
1,4-Dichlorobenzene	ug/L	20	18.1	90	68-124	
2-Butanone (MEK)	ug/L	100	77.3	77	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	70.8	71	61-120	N2
Acetone	ug/L	100	68.8	69	40-160	N2
Benzene	ug/L	20	15.7	79	73-129	
Bromodichloromethane	ug/L	20	15.6	78	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

LABORATORY CONTROL SAMPLE: 1317126

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	15.1	76	52-123	
Bromomethane	ug/L	20	8.9	45	10-160	
Carbon tetrachloride	ug/L	20	14.5	72	70-140	
Chloroethane	ug/L	20	14.9	75	42-160	
Chloroform	ug/L	20	14.4	72	60-120	
cis-1,2-Dichloroethene	ug/L	20	17.1	85	70-125	N2
Ethylbenzene	ug/L	20	17.4	87	66-133	
Methylene chloride	ug/L	20	16.9	85	56-135	
Tetrachloroethene	ug/L	20	16.2	81	64-143	
Toluene	ug/L	20	16.3	82	70-130	
trans-1,2-Dichloroethene	ug/L	20	15.9	80	67-149	
Trichloroethene	ug/L	20	16.7	84	71-130	
Vinyl chloride	ug/L	20	11.6	58	41-160	
Xylene (Total)	ug/L	60	51.1	85	67-130	N2
1,2-Dichloroethane-d4 (S)	%			89	80-120	
4-Bromofluorobenzene (S)	%			95	80-120	
Toluene-d8 (S)	%			103	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

QC Batch: MSV/58857 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60161076001

METHOD BLANK: 1317833 | Matrix: Water
Associated Lab Samples: 60161076001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/15/14 14:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/15/14 14:30	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/15/14 14:30	
1,2-Dichloroethane	ug/L	ND	1.0	01/15/14 14:30	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/15/14 14:30	
2-Butanone (MEK)	ug/L	ND	10.0	01/15/14 14:30	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/15/14 14:30	N2
Acetone	ug/L	ND	10.0	01/15/14 14:30	N2
Benzene	ug/L	ND	1.0	01/15/14 14:30	
Bromodichloromethane	ug/L	ND	1.0	01/15/14 14:30	
Bromoform	ug/L	ND	1.0	01/15/14 14:30	
Bromomethane	ug/L	ND	5.0	01/15/14 14:30	
Carbon tetrachloride	ug/L	ND	1.0	01/15/14 14:30	
Chloroethane	ug/L	ND	1.0	01/15/14 14:30	
Chloroform	ug/L	ND	1.0	01/15/14 14:30	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/15/14 14:30	N2
Ethylbenzene	ug/L	ND	1.0	01/15/14 14:30	
Methylene chloride	ug/L	ND	1.0	01/15/14 14:30	
Tetrachloroethene	ug/L	ND	1.0	01/15/14 14:30	
Toluene	ug/L	ND	1.0	01/15/14 14:30	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/15/14 14:30	
Trichloroethene	ug/L	ND	1.0	01/15/14 14:30	
Vinyl chloride	ug/L	ND	1.0	01/15/14 14:30	
Xylene (Total)	ug/L	ND	3.0	01/15/14 14:30	N2
1,2-Dichloroethane-d4 (S)	%	95	80-120	01/15/14 14:30	
4-Bromofluorobenzene (S)	%	105	80-120	01/15/14 14:30	
Toluene-d8 (S)	%	111	80-120	01/15/14 14:30	

LABORATORY CONTROL SAMPLE: 1317834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.8	89	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	16.8	84	59-138	N2
1,1,2-Trichloroethane	ug/L	20	18.8	94	69-127	
1,2-Dichloroethane	ug/L	20	18.1	90	71-129	
1,4-Dichlorobenzene	ug/L	20	17.3	87	68-124	
2-Butanone (MEK)	ug/L	100	83.8	84	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	89.2	89	61-120	N2
Acetone	ug/L	100	73.9	74	40-160	N2
Benzene	ug/L	20	18.4	92	73-129	
Bromodichloromethane	ug/L	20	19.9	100	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

LABORATORY CONTROL SAMPLE: 1317834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	18.7	94	52-123	
Bromomethane	ug/L	20	20.0	100	10-160	
Carbon tetrachloride	ug/L	20	18.5	93	70-140	
Chloroethane	ug/L	20	20.2	101	42-160	
Chloroform	ug/L	20	17.7	89	60-120	
cis-1,2-Dichloroethene	ug/L	20	21.2	106	70-125	N2
Ethylbenzene	ug/L	20	17.5	87	66-133	
Methylene chloride	ug/L	20	20.4	102	56-135	
Tetrachloroethene	ug/L	20	18.3	92	64-143	
Toluene	ug/L	20	19.8	99	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.4	102	67-149	
Trichloroethene	ug/L	20	19.3	97	71-130	
Vinyl chloride	ug/L	20	21.1	105	41-160	
Xylene (Total)	ug/L	60	53.7	90	67-130	N2
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			104	80-120	

MATRIX SPIKE SAMPLE: 1317127

Parameter	Units	60161021001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3820	96	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3570	85	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4150	104	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3610	90	49-155	
1,4-Dichlorobenzene	ug/L	715	4000	4330	90	18-147	
2-Butanone (MEK)	ug/L	60500	20000	92300	159	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	2880	20000	22300	97	40-160	N2
Acetone	ug/L	97000	20000	133000	178	40-160	M1,N2
Benzene	ug/L	ND	4000	3880	95	37-151	
Bromodichloromethane	ug/L	ND	4000	4230	106	35-155	
Bromoform	ug/L	ND	4000	4070	102	45-133	
Bromomethane	ug/L	ND	4000	3830	96	10-160	
Carbon tetrachloride	ug/L	ND	4000	4180	104	70-140	
Chloroethane	ug/L	ND	4000	4110	102	14-160	
Chloroform	ug/L	ND	4000	3630	91	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	4260	107	19-160	N2
Ethylbenzene	ug/L	ND	4000	3850	93	37-154	
Methylene chloride	ug/L	ND	4000	4140	103	15-156	
Tetrachloroethene	ug/L	ND	4000	4170	104	64-148	
Toluene	ug/L	ND	4000	4170	102	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4230	106	54-156	
Trichloroethene	ug/L	ND	4000	4210	105	71-157	
Vinyl chloride	ug/L	ND	4000	4510	113	10-160	
Xylene (Total)	ug/L	ND	12000	12000	100	12-153	N2
1,2-Dichloroethane-d4 (S)	%				95	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	

REPORT OF LABORATORY ANALYSIS

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Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

MATRIX SPIKE SAMPLE: 1317127

Parameter	Units	60161021001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				107	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

QC Batch: OEXT/42228
Analysis Method: EPA 625
QC Batch Method: EPA 625
Analysis Description: 625 MSS
Associated Lab Samples: 60161076001

METHOD BLANK: 1316842
Matrix: Water
Associated Lab Samples: 60161076001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/15/14 13:10	
2,4,6-Trichlorophenol	ug/L	ND	5.0	01/15/14 13:10	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	01/15/14 13:10	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/15/14 13:10	
Hexachlorocyclopentadiene	ug/L	ND	5.0	01/15/14 13:10	
Hexachloroethane	ug/L	ND	5.0	01/15/14 13:10	
Naphthalene	ug/L	ND	5.0	01/15/14 13:10	
Nitrobenzene	ug/L	ND	5.0	01/15/14 13:10	
Pentachlorophenol	ug/L	ND	5.0	01/15/14 13:10	
Phenol	ug/L	ND	5.0	01/15/14 13:10	
2,4,6-Tribromophenol (S)	%	70	39-120	01/15/14 13:10	
2-Fluorobiphenyl (S)	%	71	39-120	01/15/14 13:10	
2-Fluorophenol (S)	%	35	17-120	01/15/14 13:10	
Nitrobenzene-d5 (S)	%	66	33-120	01/15/14 13:10	
Phenol-d6 (S)	%	22	11-120	01/15/14 13:10	
Terphenyl-d14 (S)	%	81	45-120	01/15/14 13:10	

LABORATORY CONTROL SAMPLE: 1316843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	38.3	77	46-120	
2,4,6-Trichlorophenol	ug/L	50	40.6	81	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	43.5	87	40-133	
Hexachloro-1,3-butadiene	ug/L	50	36.7	73	44-116	
Hexachlorocyclopentadiene	ug/L	100	59.3	59	24-120	
Hexachloroethane	ug/L	50	35.5	71	43-113	
Naphthalene	ug/L	50	38.7	77	48-120	
Nitrobenzene	ug/L	50	39.0	78	48-120	
Pentachlorophenol	ug/L	50	35.7	71	47-120	
Phenol	ug/L	50	14.6	29	16-112	
2,4,6-Tribromophenol (S)	%			86	39-120	
2-Fluorobiphenyl (S)	%			85	39-120	
2-Fluorophenol (S)	%			41	17-120	
Nitrobenzene-d5 (S)	%			78	33-120	
Phenol-d6 (S)	%			26	11-120	
Terphenyl-d14 (S)	%			90	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

MATRIX SPIKE SAMPLE: 1316844

Parameter	Units	60160927001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	35.6	71	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	40.3	81	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	50	39.6J	79	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	35.4	71	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	73.8	74	11-120	
Hexachloroethane	ug/L	ND	50	36.9	74	40-113	
Naphthalene	ug/L	26.2	50	57.3	62	45-120	
Nitrobenzene	ug/L	ND	50	35.0	70	38-120	
Pentachlorophenol	ug/L	ND	50	43.1	86	43-135	
Phenol	ug/L	100	50	108	15	13-112	
2,4,6-Tribromophenol (S)	%				86	39-120	
2-Fluorobiphenyl (S)	%				80	39-120	
2-Fluorophenol (S)	%				41	17-120	
Nitrobenzene-d5 (S)	%				118	33-120	
Phenol-d6 (S)	%				40	11-120	
Terphenyl-d14 (S)	%				79	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

QC Batch: WET/45652 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60161076001

METHOD BLANK: 1318600 | Matrix: Water
Associated Lab Samples: 60161076001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/16/14 16:49	

LABORATORY CONTROL SAMPLE: 1318601

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	42.9	107	78-114	

MATRIX SPIKE SAMPLE: 1318602

Parameter	Units	60161076001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	842	160	1230	241	78-114	M1

SAMPLE DUPLICATE: 1318603

Parameter	Units	60161077001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1070	1070	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

QC Batch: WET/45654 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 SGT-HEM, TPH
Associated Lab Samples: 60161076001

METHOD BLANK: 1318612 | Matrix: Water
Associated Lab Samples: 60161076001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	01/16/14 16:50	

LABORATORY CONTROL SAMPLE: 1318613

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	19.0	95	64-132	

MATRIX SPIKE SAMPLE: 1318614

Parameter	Units	60161076001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	6.5	80	30.4	30	64-132	M1

SAMPLE DUPLICATE: 1318615

Parameter	Units	60161077001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	7.3	8.0	10	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

QC Batch: WET/45634 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60161076001

METHOD BLANK: 1318013 | Matrix: Water
Associated Lab Samples: 60161076001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	01/16/14 07:46	

SAMPLE DUPLICATE: 1318014

Parameter	Units	60161255001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		25	

SAMPLE DUPLICATE: 1318015

Parameter	Units	60160982001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	128	150	16	25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

QC Batch: WET/45672
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 60161076001

SAMPLE DUPLICATE: 1319382

Parameter	Units	60161103001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.1	8.1	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

QC Batch: WET/45591
QC Batch Method: SM 5210B
Analysis Method: SM 5210B
Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 60161076001

LABORATORY CONTROL SAMPLE: 1316836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	199	100	85-115	

SAMPLE DUPLICATE: 1316837

Parameter	Units	60161076001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	24800	25700	4	17	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

QC Batch: WETA/27825 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60161076001

METHOD BLANK: 1317738 | Matrix: Water
Associated Lab Samples: 60161076001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	01/15/14 13:17	

LABORATORY CONTROL SAMPLE: 1317739

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	107	90-110	

MATRIX SPIKE SAMPLE: 1317740

Parameter	Units	60160600002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	15.0	20	36.0	105	90-110	

MATRIX SPIKE SAMPLE: 1317742

Parameter	Units	60160745003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.6	79	90-110	M1

SAMPLE DUPLICATE: 1317741

Parameter	Units	60160784001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.13	0.13	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

QC Batch: WETA/27814 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 60161076001

METHOD BLANK: 1316914 | Matrix: Water
Associated Lab Samples: 60161076001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	01/16/14 10:27	

LABORATORY CONTROL SAMPLE: 1316915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	54.9	110	90-110	

MATRIX SPIKE SAMPLE: 1316918

Parameter	Units	60160823003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	320		776			

MATRIX SPIKE SAMPLE: 1316919

Parameter	Units	60160823001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	176		633			

SAMPLE DUPLICATE: 1316917

Parameter	Units	60160715003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	2440	2580	5	25	

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QUALIFIERS

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

BATCH QUALIFIERS

Batch: MSV/58821

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
H2	Extraction or preparation conducted outside EPA method holding time.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-191R2
Pace Project No.: 60161076

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60161076001	**316-191R2**	EPA 200.7	MPRP/25910	EPA 200.7	ICP/19833
60161076001	**316-191R2**	EPA 200.7	MPRP/25909	EPA 200.7	ICP/19835
60161076001	**316-191R2**	EPA 245.1	MERP/8069	EPA 245.1	MERC/8023
60161076001	**316-191R2**	EPA 245.1	MERP/8070	EPA 245.1	MERC/8024
60161076001	**316-191R2**	EPA 625	OEXT/42228	EPA 625	MSSV/13444
60161076001	**316-191R2**	EPA 624 Low	MSV/58857		
60161076002	**TRIP BLANK**	EPA 624 Low	MSV/58821		
60161076001	**316-191R2**	EPA 1664A	WET/45652		
60161076001	**316-191R2**	EPA 1664A	WET/45654		
60161076001	**316-191R2**	SM 2540D	WET/45634		
60161076001	**316-191R2**	SM 4500-H+B	WET/45672		
60161076001	**316-191R2**	SM 5210B	WET/45591	SM 5210B	WET/45682
60161076001	**316-191R2**	EPA 350.1	WETA/27825		
60161076001	**316-191R2**	EPA 410.4	WETA/27814		

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Sample Condition Upon Receipt

WO#: 60161076

60161076

Client Name: Barr

Optional
Proj Due Date:
Proj Name:

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

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☑ None ☐ Other ☐

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: _____

Temperature should be above freezing to 6°C

Date and initials of person examining contents: MN 1/13/14

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 & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5. Not received w/ enough time to run BOD w/in 48 hours.
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6. BOD
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☑No ☐N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☑Yes ☐No ☐N/A	13.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	Initial pH HNO_3 ~6.0; added 2.5 ml; final pH ~4.0
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☑No ☐N/A	Initial pH H_2SO_4 ~6.0; added 2 ml; final pH ~2.0 14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed MN Lot # of added preservative 12513 / 12518
Trip Blank present: Pace Trip Blank lot # (if purchased): Dec 19 2013	☑Yes ☐No ☐N/A	15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	No headspace in any vials 16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 1/14/14

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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.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	BARR ENGINEERING	Report To:	ED GALBRAITH/BARR	Attention:	JANET ROLLEN
Address:		Copy To:	SCOTT FEDAK/FEEZOR	Company Name:	REPUBLIC SERVICES
			DANA BAKER/MARGARET TREANOR -BARR	Address:	BRIDGETON, MO 63044
Email To:		Purchase Order No.	PO 3727110	Pace Quote Reference:	130426_7588
Phone:	(816) 285-8410 Fax	Client Project ID:	BRIDGETON LF	Pace Project Manager:	Brown, Angie
Requested Due Date/TAT:	10 Day (Default)	Container Order Number:		Pace Profile #:	6787 LINE 2

Regulatory Agency
State / Location
Missouri

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N): COD EPA 410	pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B	Residual Chlorine (Y/N)	60161070
1	316-191RZ	OT	G	01/11/14	1400	—	—		14	10	4	1	0					X	X	X	X	X	X	X	X	X	X	X		3(AG3S) 2(AG4) 2(AG2U) ~~AG1U~~ BG3U BG3S BG3U 5(DG9T)
2	TRIP BLANK								2	2															X					2(DG9U)
3																														
4																														
5																														
6																														METALS LIST total & LF Dis:
7																														Al,Sb,As,Be,Cd,Cr,
8																														Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn
9																														and Mercury
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	Feezor Eng.	01-13-14	0920		01-13-14	0920				
SITE ADDRESS: BRIDGETON LF				PRE	1/13/14	1355	1.0	Y	Y	Y
13570 ST. CHARLES ROCK RD										
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: John Powell					
SIGNATURE of SAMPLER:	DATE Signed: 01-11-14				

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(913)599-5665

January 21, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 13, 2014. 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,

Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60161077001	**316-192R2**	Water	01/12/14 14:30	01/13/14 13:55
60161077002	**TRIP BLANK**	Water	01/12/14 14:30	01/13/14 13:55

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60161077001	**316-192R2**	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TJT	1
		EPA 245.1	TJT	1
		EPA 625	JMT	16
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC	1
		SM 4500-H+B	JML	1
		SM 5210B	AJM	1
		EPA 350.1	NDL	1
		EPA 410.4	JMC	1
60161077002	**TRIP BLANK**	EPA 624 Low	EAK	28

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

Sample: 316-192R2 **Lab ID: 60161077001** Collected: 01/12/14 14:30 Received: 01/13/14 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	**9120**	ug/L	750	2	01/16/14 14:55	01/17/14 15:25	7429-90-5	
Antimony	ND	ug/L	100	2	01/16/14 14:55	01/17/14 15:25	7440-36-0	D3
Arsenic	**770**	ug/L	50.0	1	01/16/14 14:55	01/17/14 15:22	7440-38-2	
Beryllium	ND	ug/L	5.0	1	01/16/14 14:55	01/17/14 15:22	7440-41-7	
Cadmium	ND	ug/L	25.0	1	01/16/14 14:55	01/17/14 15:22	7440-43-9	
Chromium	**270**	ug/L	25.0	1	01/16/14 14:55	01/17/14 15:22	7440-47-3	
Cobalt	**32.7**	ug/L	25.0	1	01/16/14 14:55	01/17/14 15:22	7440-48-4	
Copper	ND	ug/L	50.0	1	01/16/14 14:55	01/17/14 15:22	7440-50-8	
Iron	**718000**	ug/L	250	1	01/16/14 14:55	01/17/14 15:22	7439-89-6	
Lead	**106**	ug/L	25.0	1	01/16/14 14:55	01/17/14 15:22	7439-92-1	
Nickel	**109**	ug/L	25.0	1	01/16/14 14:55	01/17/14 15:22	7440-02-0	
Selenium	ND	ug/L	75.0	1	01/16/14 14:55	01/17/14 15:22	7782-49-2	
Silver	ND	ug/L	35.0	1	01/16/14 14:55	01/17/14 15:22	7440-22-4	
Thallium	ND	ug/L	100	1	01/16/14 14:55	01/17/14 15:22	7440-28-0	
Zinc	**6720**	ug/L	500	2	01/16/14 14:55	01/17/14 15:25	7440-66-6	
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	**1610**	ug/L	750	2	01/16/14 15:20	01/17/14 12:32	7429-90-5	
Antimony, Dissolved	ND	ug/L	100	2	01/16/14 15:20	01/17/14 12:32	7440-36-0	D3
Arsenic, Dissolved	**630**	ug/L	50.0	1	01/16/14 15:20	01/17/14 12:28	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	01/16/14 15:20	01/17/14 12:28	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	01/16/14 15:20	01/17/14 12:28	7440-43-9	
Chromium, Dissolved	**215**	ug/L	25.0	1	01/16/14 15:20	01/17/14 12:28	7440-47-3	
Cobalt, Dissolved	ND	ug/L	25.0	1	01/16/14 15:20	01/17/14 12:28	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	01/16/14 15:20	01/17/14 12:28	7440-50-8	
Iron, Dissolved	**542000**	ug/L	250	1	01/16/14 15:20	01/17/14 12:28	7439-89-6	
Lead, Dissolved	**61.6**	ug/L	25.0	1	01/16/14 15:20	01/17/14 12:28	7439-92-1	
Nickel, Dissolved	**85.0**	ug/L	25.0	1	01/16/14 15:20	01/17/14 12:28	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	01/16/14 15:20	01/17/14 12:28	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	01/16/14 15:20	01/17/14 12:28	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	01/16/14 15:20	01/17/14 12:28	7440-28-0	
Zinc, Dissolved	**5510**	ug/L	500	2	01/16/14 15:20	01/17/14 12:32	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**16.6**	ug/L	6.0	1	01/16/14 13:00	01/17/14 12:26	7439-97-6	
245.1 Mercury, Dissolved (LF)	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	6.0	1	01/16/14 13:00	01/17/14 12:05	7439-97-6	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	50.0	2	01/14/14 00:00	01/15/14 15:14	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 15:14	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 15:14	77-47-4	
Hexachloroethane	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 15:14	67-72-1	
Naphthalene	**11.3**	ug/L	10.0	2	01/14/14 00:00	01/15/14 15:14	91-20-3	
Nitrobenzene	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 15:14	98-95-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

Sample: 316-192R2 **Lab ID: 60161077001** Collected: 01/12/14 14:30 Received: 01/13/14 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Pentachlorophenol	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 15:14	87-86-5	
Phenol	**94.7**	ug/L	10.0	2	01/14/14 00:00	01/15/14 15:14	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 15:14	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	10.0	2	01/14/14 00:00	01/15/14 15:14	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	115	%	33-120	2	01/14/14 00:00	01/15/14 15:14	4165-60-0	
2-Fluorobiphenyl (S)	78	%	39-120	2	01/14/14 00:00	01/15/14 15:14	321-60-8	
Terphenyl-d14 (S)	75	%	45-120	2	01/14/14 00:00	01/15/14 15:14	1718-51-0	
Phenol-d6 (S)	39	%	11-120	2	01/14/14 00:00	01/15/14 15:14	13127-88-3	
2-Fluorophenol (S)	41	%	17-120	2	01/14/14 00:00	01/15/14 15:14	367-12-4	
2,4,6-Tribromophenol (S)	83	%	39-120	2	01/14/14 00:00	01/15/14 15:14	118-79-6	
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	**111000**	ug/L	2000	200		01/15/14 15:30	67-64-1	N2
Benzene	ND	ug/L	200	200		01/15/14 15:30	71-43-2	
Bromodichloromethane	ND	ug/L	200	200		01/15/14 15:30	75-27-4	
Bromoform	ND	ug/L	200	200		01/15/14 15:30	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/15/14 15:30	74-83-9	
2-Butanone (MEK)	**76500**	ug/L	2000	200		01/15/14 15:30	78-93-3	N2
Carbon tetrachloride	ND	ug/L	200	200		01/15/14 15:30	56-23-5	
Chloroethane	ND	ug/L	200	200		01/15/14 15:30	75-00-3	
Chloroform	ND	ug/L	200	200		01/15/14 15:30	67-66-3	
1,4-Dichlorobenzene	**806**	ug/L	200	200		01/15/14 15:30	106-46-7	
1,2-Dichloroethane	ND	ug/L	200	200		01/15/14 15:30	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/15/14 15:30	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/15/14 15:30	156-60-5	
Ethylbenzene	ND	ug/L	200	200		01/15/14 15:30	100-41-4	
Methylene chloride	ND	ug/L	200	200		01/15/14 15:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	**3920**	ug/L	2000	200		01/15/14 15:30	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		01/15/14 15:30	79-34-5	N2
Tetrachloroethene	ND	ug/L	200	200		01/15/14 15:30	127-18-4	
Toluene	ND	ug/L	200	200		01/15/14 15:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/15/14 15:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		01/15/14 15:30	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/15/14 15:30	79-01-6	
Vinyl chloride	ND	ug/L	200	200		01/15/14 15:30	75-01-4	
Xylene (Total)	ND	ug/L	600	200		01/15/14 15:30	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	200		01/15/14 15:30	460-00-4	
Toluene-d8 (S)	111	%	80-120	200		01/15/14 15:30	2037-26-5	
1,2-Dichloroethane-d4 (S)	98	%	80-120	200		01/15/14 15:30	17060-07-0	
Preservation pH	**6.0**		1.0	200		01/15/14 15:30		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	**1070**	mg/L	5.0	1		01/16/14 16:49		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

Sample: 316-192R2 **Lab ID: 60161077001** Collected: 01/12/14 14:30 Received: 01/13/14 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	**7.3**	mg/L	5.0	1		01/16/14 16:51		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**2560**	mg/L	5.0	1		01/16/14 07:47		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**5.4**	Std. Units	0.10	1		01/17/14 15:50		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**26500**	mg/L	2.0	1	01/13/14 15:57	01/18/14 12:15		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**595**	mg/L	50.0	500		01/15/14 13:31	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**46200**	mg/L	5000	500		01/16/14 10:42		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

Sample: TRIP BLANK **Lab ID: 60161077002** Collected: 01/12/14 14:30 Received: 01/13/14 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	ND	ug/L	10.0	1		01/15/14 00:34	67-64-1	N2
Benzene	ND	ug/L	1.0	1		01/15/14 00:34	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		01/15/14 00:34	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/15/14 00:34	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/15/14 00:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/15/14 00:34	78-93-3	N2
Carbon tetrachloride	ND	ug/L	1.0	1		01/15/14 00:34	56-23-5	
Chloroethane	ND	ug/L	1.0	1		01/15/14 00:34	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/15/14 00:34	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/15/14 00:34	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/15/14 00:34	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/15/14 00:34	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/15/14 00:34	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/15/14 00:34	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		01/15/14 00:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/15/14 00:34	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/15/14 00:34	79-34-5	N2
Tetrachloroethene	ND	ug/L	1.0	1		01/15/14 00:34	127-18-4	
Toluene	ND	ug/L	1.0	1		01/15/14 00:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/15/14 00:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/15/14 00:34	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/15/14 00:34	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/15/14 00:34	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/15/14 00:34	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	1		01/15/14 00:34	460-00-4	
Toluene-d8 (S)	105	%	80-120	1		01/15/14 00:34	2037-26-5	
1,2-Dichloroethane-d4 (S)	89	%	80-120	1		01/15/14 00:34	17060-07-0	
Preservation pH	**6.0**		1.0	1		01/15/14 00:34		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

QC Batch: MERP/8069
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Associated Lab Samples: 60161077001

METHOD BLANK: 1318148
Matrix: Water
Associated Lab Samples: 60161077001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/17/14 12:11	

LABORATORY CONTROL SAMPLE: 1318149

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.3	86	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318150 1318151

Parameter	Units	60161176001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.0	4.1	80	82	70-130	2	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

QC Batch: MERP/8070
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60161077001

METHOD BLANK: 1318152
Matrix: Water
Associated Lab Samples: 60161077001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	01/17/14 11:47	

LABORATORY CONTROL SAMPLE: 1318153

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.5	90	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318154 1318155

Parameter	Units	60161076001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	97.8	86.4	65	58	70-130	12	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

QC Batch: MPRP/25910 | Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 | Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60161077001

METHOD BLANK: 1318350 | Matrix: Water
Associated Lab Samples: 60161077001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	01/17/14 14:08	
Antimony	ug/L	ND	10.0	01/17/14 14:08	
Arsenic	ug/L	ND	10.0	01/17/14 14:08	
Beryllium	ug/L	ND	1.0	01/17/14 14:08	
Cadmium	ug/L	ND	5.0	01/17/14 14:08	
Chromium	ug/L	ND	5.0	01/17/14 14:08	
Cobalt	ug/L	ND	5.0	01/17/14 14:08	
Copper	ug/L	ND	10.0	01/17/14 14:08	
Iron	ug/L	ND	50.0	01/17/14 14:08	
Lead	ug/L	ND	5.0	01/17/14 14:08	
Nickel	ug/L	ND	5.0	01/17/14 14:08	
Selenium	ug/L	ND	15.0	01/17/14 14:08	
Silver	ug/L	ND	7.0	01/17/14 14:08	
Thallium	ug/L	ND	20.0	01/17/14 14:08	
Zinc	ug/L	ND	50.0	01/17/14 14:08	

LABORATORY CONTROL SAMPLE: 1318351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9850	98	85-115	
Antimony	ug/L	1000	1060	106	85-115	
Arsenic	ug/L	1000	1020	102	85-115	
Beryllium	ug/L	1000	1010	101	85-115	
Cadmium	ug/L	1000	1030	103	85-115	
Chromium	ug/L	1000	1020	102	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	997	100	85-115	
Iron	ug/L	10000	10000	100	85-115	
Lead	ug/L	1000	1040	104	85-115	
Nickel	ug/L	1000	1040	104	85-115	
Selenium	ug/L	1000	1050	105	85-115	
Silver	ug/L	500	490	98	85-115	
Thallium	ug/L	1000	1000	100	85-115	
Zinc	ug/L	1000	1050	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318352 1318353

Parameter	Units	60161076001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	8220	50000	50000	64300	64100	112	112	70-130	0	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318352 1318353

Parameter	Units	60161076001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	5000	5000	5000	5090	100	102	70-130	2	7	
Arsenic	ug/L	797	5000	5000	5660	5790	97	100	70-130	2	10	
Beryllium	ug/L	ND	5000	5000	4880	5040	98	101	70-130	3	7	
Cadmium	ug/L	ND	5000	5000	4870	5030	97	100	70-130	3	10	
Chromium	ug/L	282	5000	5000	5090	5200	96	98	70-130	2	10	
Cobalt	ug/L	39.4	5000	5000	4870	5040	97	100	70-130	3	6	
Copper	ug/L	ND	5000	5000	4850	4990	96	99	70-130	3	11	
Iron	ug/L	690000	50000	50000	730000	706000	80	31	70-130	3	10	M1
Lead	ug/L	110	5000	5000	4780	4940	93	97	70-130	3	10	
Nickel	ug/L	117	5000	5000	4930	5080	96	99	70-130	3	10	
Selenium	ug/L	ND	5000	5000	4980	5180	99	103	70-130	4	10	
Silver	ug/L	ND	2500	2500	2390	2460	96	98	70-130	3	10	
Thallium	ug/L	ND	5000	5000	4420	4580	88	92	70-130	4	6	
Zinc	ug/L	7090	5000	5000	12100	12000	101	97	70-130	1	11	

MATRIX SPIKE SAMPLE: 1318354

Parameter	Units	60161120005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	ND	10000	10800	107	70-130	
Antimony	ug/L	ND	1000	1020	102	70-130	
Arsenic	ug/L	ND	1000	993	99	70-130	
Beryllium	ug/L	ND	1000	1050	105	70-130	
Cadmium	ug/L	ND	1000	1000	100	70-130	
Chromium	ug/L	ND	1000	1010	101	70-130	
Cobalt	ug/L	ND	1000	1010	101	70-130	
Copper	ug/L	ND	1000	992	99	70-130	
Iron	ug/L	76.8	10000	10100	101	70-130	
Lead	ug/L	ND	1000	983	98	70-130	
Nickel	ug/L	0.013 mg/L	1000	1020	101	70-130	
Selenium	ug/L	ND	1000	1010	101	70-130	
Silver	ug/L	ND	500	495	99	70-130	
Thallium	ug/L	ND	1000	942	94	70-130	
Zinc	ug/L	ND	1000	1020	100	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

QC Batch: MPRP/25909
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60161077001

METHOD BLANK: 1318337
Matrix: Water
Associated Lab Samples: 60161077001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	01/17/14 09:37	
Antimony, Dissolved	ug/L	ND	10.0	01/17/14 09:37	
Arsenic, Dissolved	ug/L	ND	10.0	01/17/14 09:37	
Beryllium, Dissolved	ug/L	ND	1.0	01/17/14 09:37	
Cadmium, Dissolved	ug/L	ND	5.0	01/17/14 09:37	
Chromium, Dissolved	ug/L	ND	5.0	01/17/14 09:37	
Cobalt, Dissolved	ug/L	ND	5.0	01/17/14 09:37	
Copper, Dissolved	ug/L	ND	10.0	01/17/14 09:37	
Iron, Dissolved	ug/L	ND	50.0	01/17/14 09:37	
Lead, Dissolved	ug/L	ND	5.0	01/17/14 09:37	
Nickel, Dissolved	ug/L	ND	5.0	01/17/14 09:37	
Selenium, Dissolved	ug/L	ND	15.0	01/17/14 09:37	
Silver, Dissolved	ug/L	ND	7.0	01/17/14 09:37	
Thallium, Dissolved	ug/L	ND	20.0	01/17/14 09:37	
Zinc, Dissolved	ug/L	ND	50.0	01/17/14 09:37	

LABORATORY CONTROL SAMPLE: 1318338

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10200	102	85-115	
Antimony, Dissolved	ug/L	1000	1070	107	85-115	
Arsenic, Dissolved	ug/L	1000	1040	104	85-115	
Beryllium, Dissolved	ug/L	1000	1040	104	85-115	
Cadmium, Dissolved	ug/L	1000	1060	106	85-115	
Chromium, Dissolved	ug/L	1000	1050	105	85-115	
Cobalt, Dissolved	ug/L	1000	1050	105	85-115	
Copper, Dissolved	ug/L	1000	1030	103	85-115	
Iron, Dissolved	ug/L	10000	10000	100	85-115	
Lead, Dissolved	ug/L	1000	1050	105	85-115	
Nickel, Dissolved	ug/L	1000	1060	106	85-115	
Selenium, Dissolved	ug/L	1000	1070	107	85-115	
Silver, Dissolved	ug/L	500	484	97	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	1070	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318339 1318340

Parameter	Units	60161076001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	1790	50000	50000	55000	59100	107	115	70-130	7	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318339 1318340

Parameter	Units	60161076001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	5000	5000	4920	4980	98	99	70-130	1	7	
Arsenic, Dissolved	ug/L	574	5000	5000	5300	5420	95	97	70-130	2	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	4990	5070	100	101	70-130	2	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	4780	4870	95	97	70-130	2	10	
Chromium, Dissolved	ug/L	212	5000	5000	5100	5260	98	101	70-130	3	10	
Cobalt, Dissolved	ug/L	25.5	5000	5000	4760	4860	95	97	70-130	2	6	
Copper, Dissolved	ug/L	ND	5000	5000	4880	5000	97	100	70-130	2	11	
Iron, Dissolved	ug/L	526000	50000	50000	550000	554000	48	54	70-130	1	10	M1
Lead, Dissolved	ug/L	59.8	5000	5000	4600	4690	91	93	70-130	2	10	
Nickel, Dissolved	ug/L	85.9	5000	5000	4870	4970	96	98	70-130	2	10	
Selenium, Dissolved	ug/L	ND	5000	5000	4750	4880	95	97	70-130	3	10	
Silver, Dissolved	ug/L	ND	2500	2500	2380	2440	95	97	70-130	2	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4400	4500	88	90	70-130	2	6	
Zinc, Dissolved	ug/L	5070	5000	5000	9730	9790	93	94	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

QC Batch: MSV/58821 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60161077002

METHOD BLANK: 1317125 | Matrix: Water
Associated Lab Samples: 60161077002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/14/14 22:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/14/14 22:49	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/14/14 22:49	
1,2-Dichloroethane	ug/L	ND	1.0	01/14/14 22:49	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/14/14 22:49	
2-Butanone (MEK)	ug/L	ND	10.0	01/14/14 22:49	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/14/14 22:49	N2
Acetone	ug/L	ND	10.0	01/14/14 22:49	N2
Benzene	ug/L	ND	1.0	01/14/14 22:49	
Bromodichloromethane	ug/L	ND	1.0	01/14/14 22:49	
Bromoform	ug/L	ND	1.0	01/14/14 22:49	
Bromomethane	ug/L	ND	5.0	01/14/14 22:49	
Carbon tetrachloride	ug/L	ND	1.0	01/14/14 22:49	
Chloroethane	ug/L	ND	1.0	01/14/14 22:49	
Chloroform	ug/L	ND	1.0	01/14/14 22:49	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/14/14 22:49	N2
Ethylbenzene	ug/L	ND	1.0	01/14/14 22:49	
Methylene chloride	ug/L	ND	1.0	01/14/14 22:49	
Tetrachloroethene	ug/L	ND	1.0	01/14/14 22:49	
Toluene	ug/L	ND	1.0	01/14/14 22:49	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/14/14 22:49	
Trichloroethene	ug/L	ND	1.0	01/14/14 22:49	
Vinyl chloride	ug/L	ND	1.0	01/14/14 22:49	
Xylene (Total)	ug/L	ND	3.0	01/14/14 22:49	N2
1,2-Dichloroethane-d4 (S)	%	93	80-120	01/14/14 22:49	
4-Bromofluorobenzene (S)	%	101	80-120	01/14/14 22:49	
Toluene-d8 (S)	%	108	80-120	01/14/14 22:49	

LABORATORY CONTROL SAMPLE: 1317126

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	14.5	72	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	14.9	75	59-138	N2
1,1,2-Trichloroethane	ug/L	20	15.8	79	69-127	
1,2-Dichloroethane	ug/L	20	15.3	76	71-129	
1,4-Dichlorobenzene	ug/L	20	18.1	90	68-124	
2-Butanone (MEK)	ug/L	100	77.3	77	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	70.8	71	61-120	N2
Acetone	ug/L	100	68.8	69	40-160	N2
Benzene	ug/L	20	15.7	79	73-129	
Bromodichloromethane	ug/L	20	15.6	78	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

LABORATORY CONTROL SAMPLE: 1317126

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	15.1	76	52-123	
Bromomethane	ug/L	20	8.9	45	10-160	
Carbon tetrachloride	ug/L	20	14.5	72	70-140	
Chloroethane	ug/L	20	14.9	75	42-160	
Chloroform	ug/L	20	14.4	72	60-120	
cis-1,2-Dichloroethene	ug/L	20	17.1	85	70-125	N2
Ethylbenzene	ug/L	20	17.4	87	66-133	
Methylene chloride	ug/L	20	16.9	85	56-135	
Tetrachloroethene	ug/L	20	16.2	81	64-143	
Toluene	ug/L	20	16.3	82	70-130	
trans-1,2-Dichloroethene	ug/L	20	15.9	80	67-149	
Trichloroethene	ug/L	20	16.7	84	71-130	
Vinyl chloride	ug/L	20	11.6	58	41-160	
Xylene (Total)	ug/L	60	51.1	85	67-130	N2
1,2-Dichloroethane-d4 (S)	%			89	80-120	
4-Bromofluorobenzene (S)	%			95	80-120	
Toluene-d8 (S)	%			103	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

QC Batch: MSV/58857 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60161077001

METHOD BLANK: 1317833 | Matrix: Water
Associated Lab Samples: 60161077001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/15/14 14:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/15/14 14:30	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/15/14 14:30	
1,2-Dichloroethane	ug/L	ND	1.0	01/15/14 14:30	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/15/14 14:30	
2-Butanone (MEK)	ug/L	ND	10.0	01/15/14 14:30	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/15/14 14:30	N2
Acetone	ug/L	ND	10.0	01/15/14 14:30	N2
Benzene	ug/L	ND	1.0	01/15/14 14:30	
Bromodichloromethane	ug/L	ND	1.0	01/15/14 14:30	
Bromoform	ug/L	ND	1.0	01/15/14 14:30	
Bromomethane	ug/L	ND	5.0	01/15/14 14:30	
Carbon tetrachloride	ug/L	ND	1.0	01/15/14 14:30	
Chloroethane	ug/L	ND	1.0	01/15/14 14:30	
Chloroform	ug/L	ND	1.0	01/15/14 14:30	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/15/14 14:30	N2
Ethylbenzene	ug/L	ND	1.0	01/15/14 14:30	
Methylene chloride	ug/L	ND	1.0	01/15/14 14:30	
Tetrachloroethene	ug/L	ND	1.0	01/15/14 14:30	
Toluene	ug/L	ND	1.0	01/15/14 14:30	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/15/14 14:30	
Trichloroethene	ug/L	ND	1.0	01/15/14 14:30	
Vinyl chloride	ug/L	ND	1.0	01/15/14 14:30	
Xylene (Total)	ug/L	ND	3.0	01/15/14 14:30	N2
1,2-Dichloroethane-d4 (S)	%	95	80-120	01/15/14 14:30	
4-Bromofluorobenzene (S)	%	105	80-120	01/15/14 14:30	
Toluene-d8 (S)	%	111	80-120	01/15/14 14:30	

LABORATORY CONTROL SAMPLE: 1317834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.8	89	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	16.8	84	59-138	N2
1,1,2-Trichloroethane	ug/L	20	18.8	94	69-127	
1,2-Dichloroethane	ug/L	20	18.1	90	71-129	
1,4-Dichlorobenzene	ug/L	20	17.3	87	68-124	
2-Butanone (MEK)	ug/L	100	83.8	84	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	89.2	89	61-120	N2
Acetone	ug/L	100	73.9	74	40-160	N2
Benzene	ug/L	20	18.4	92	73-129	
Bromodichloromethane	ug/L	20	19.9	100	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

LABORATORY CONTROL SAMPLE: 1317834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	18.7	94	52-123	
Bromomethane	ug/L	20	20.0	100	10-160	
Carbon tetrachloride	ug/L	20	18.5	93	70-140	
Chloroethane	ug/L	20	20.2	101	42-160	
Chloroform	ug/L	20	17.7	89	60-120	
cis-1,2-Dichloroethene	ug/L	20	21.2	106	70-125	N2
Ethylbenzene	ug/L	20	17.5	87	66-133	
Methylene chloride	ug/L	20	20.4	102	56-135	
Tetrachloroethene	ug/L	20	18.3	92	64-143	
Toluene	ug/L	20	19.8	99	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.4	102	67-149	
Trichloroethene	ug/L	20	19.3	97	71-130	
Vinyl chloride	ug/L	20	21.1	105	41-160	
Xylene (Total)	ug/L	60	53.7	90	67-130	N2
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			104	80-120	

MATRIX SPIKE SAMPLE: 1317127

Parameter	Units	60161021001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3820	96	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3570	85	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4150	104	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3610	90	49-155	
1,4-Dichlorobenzene	ug/L	715	4000	4330	90	18-147	
2-Butanone (MEK)	ug/L	60500	20000	92300	159	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	2880	20000	22300	97	40-160	N2
Acetone	ug/L	97000	20000	133000	178	40-160	M1,N2
Benzene	ug/L	ND	4000	3880	95	37-151	
Bromodichloromethane	ug/L	ND	4000	4230	106	35-155	
Bromoform	ug/L	ND	4000	4070	102	45-133	
Bromomethane	ug/L	ND	4000	3830	96	10-160	
Carbon tetrachloride	ug/L	ND	4000	4180	104	70-140	
Chloroethane	ug/L	ND	4000	4110	102	14-160	
Chloroform	ug/L	ND	4000	3630	91	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	4260	107	19-160	N2
Ethylbenzene	ug/L	ND	4000	3850	93	37-154	
Methylene chloride	ug/L	ND	4000	4140	103	15-156	
Tetrachloroethene	ug/L	ND	4000	4170	104	64-148	
Toluene	ug/L	ND	4000	4170	102	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4230	106	54-156	
Trichloroethene	ug/L	ND	4000	4210	105	71-157	
Vinyl chloride	ug/L	ND	4000	4510	113	10-160	
Xylene (Total)	ug/L	ND	12000	12000	100	12-153	N2
1,2-Dichloroethane-d4 (S)	%				95	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

MATRIX SPIKE SAMPLE: 1317127

Parameter	Units	60161021001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				107	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

QC Batch: OEXT/42228 | Analysis Method: EPA 625
QC Batch Method: EPA 625 | Analysis Description: 625 MSS
Associated Lab Samples: 60161077001

METHOD BLANK: 1316842 | Matrix: Water
Associated Lab Samples: 60161077001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/15/14 13:10	
2,4,6-Trichlorophenol	ug/L	ND	5.0	01/15/14 13:10	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	01/15/14 13:10	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/15/14 13:10	
Hexachlorocyclopentadiene	ug/L	ND	5.0	01/15/14 13:10	
Hexachloroethane	ug/L	ND	5.0	01/15/14 13:10	
Naphthalene	ug/L	ND	5.0	01/15/14 13:10	
Nitrobenzene	ug/L	ND	5.0	01/15/14 13:10	
Pentachlorophenol	ug/L	ND	5.0	01/15/14 13:10	
Phenol	ug/L	ND	5.0	01/15/14 13:10	
2,4,6-Tribromophenol (S)	%	70	39-120	01/15/14 13:10	
2-Fluorobiphenyl (S)	%	71	39-120	01/15/14 13:10	
2-Fluorophenol (S)	%	35	17-120	01/15/14 13:10	
Nitrobenzene-d5 (S)	%	66	33-120	01/15/14 13:10	
Phenol-d6 (S)	%	22	11-120	01/15/14 13:10	
Terphenyl-d14 (S)	%	81	45-120	01/15/14 13:10	

LABORATORY CONTROL SAMPLE: 1316843

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	38.3	77	46-120	
2,4,6-Trichlorophenol	ug/L	50	40.6	81	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	43.5	87	40-133	
Hexachloro-1,3-butadiene	ug/L	50	36.7	73	44-116	
Hexachlorocyclopentadiene	ug/L	100	59.3	59	24-120	
Hexachloroethane	ug/L	50	35.5	71	43-113	
Naphthalene	ug/L	50	38.7	77	48-120	
Nitrobenzene	ug/L	50	39.0	78	48-120	
Pentachlorophenol	ug/L	50	35.7	71	47-120	
Phenol	ug/L	50	14.6	29	16-112	
2,4,6-Tribromophenol (S)	%			86	39-120	
2-Fluorobiphenyl (S)	%			85	39-120	
2-Fluorophenol (S)	%			41	17-120	
Nitrobenzene-d5 (S)	%			78	33-120	
Phenol-d6 (S)	%			26	11-120	
Terphenyl-d14 (S)	%			90	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

MATRIX SPIKE SAMPLE: 1316844

Parameter	Units	60160927001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	35.6	71	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	40.3	81	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	50	39.6J	79	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	35.4	71	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	73.8	74	11-120	
Hexachloroethane	ug/L	ND	50	36.9	74	40-113	
Naphthalene	ug/L	26.2	50	57.3	62	45-120	
Nitrobenzene	ug/L	ND	50	35.0	70	38-120	
Pentachlorophenol	ug/L	ND	50	43.1	86	43-135	
Phenol	ug/L	100	50	108	15	13-112	
2,4,6-Tribromophenol (S)	%				86	39-120	
2-Fluorobiphenyl (S)	%				80	39-120	
2-Fluorophenol (S)	%				41	17-120	
Nitrobenzene-d5 (S)	%				118	33-120	
Phenol-d6 (S)	%				40	11-120	
Terphenyl-d14 (S)	%				79	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

QC Batch: WET/45652 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60161077001

METHOD BLANK: 1318600 | Matrix: Water
Associated Lab Samples: 60161077001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/16/14 16:49	

LABORATORY CONTROL SAMPLE: 1318601

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	42.9	107	78-114	

MATRIX SPIKE SAMPLE: 1318602

Parameter	Units	60161076001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	842	160	1230	241	78-114	M1

SAMPLE DUPLICATE: 1318603

Parameter	Units	60161077001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1070	1070	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

QC Batch: WET/45654 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 SGT-HEM, TPH
Associated Lab Samples: 60161077001

METHOD BLANK: 1318612 | Matrix: Water
Associated Lab Samples: 60161077001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	01/16/14 16:50	

LABORATORY CONTROL SAMPLE: 1318613

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	19.0	95	64-132	

MATRIX SPIKE SAMPLE: 1318614

Parameter	Units	60161076001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	6.5	80	30.4	30	64-132	M1

SAMPLE DUPLICATE: 1318615

Parameter	Units	60161077001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	7.3	8.0	10	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

QC Batch: WET/45634 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60161077001

METHOD BLANK: 1318013 | Matrix: Water
Associated Lab Samples: 60161077001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	01/16/14 07:46	

SAMPLE DUPLICATE: 1318014

Parameter	Units	60161255001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		25	

SAMPLE DUPLICATE: 1318015

Parameter	Units	60160982001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	128	150	16	25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

QC Batch: WET/45672
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 60161077001

SAMPLE DUPLICATE: 1319382

Parameter	Units	60161103001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.1	8.1	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

QC Batch: WET/45591
QC Batch Method: SM 5210B
Analysis Method: SM 5210B
Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 60161077001

LABORATORY CONTROL SAMPLE: 1316836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	199	100	85-115	

SAMPLE DUPLICATE: 1316837

Parameter	Units	60161076001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	24800	25700	4	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

QC Batch: WETA/27825 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60161077001

METHOD BLANK: 1317738 | Matrix: Water
Associated Lab Samples: 60161077001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	01/15/14 13:17	

LABORATORY CONTROL SAMPLE: 1317739

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	107	90-110	

MATRIX SPIKE SAMPLE: 1317740

Parameter	Units	60160600002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	15.0	20	36.0	105	90-110	

MATRIX SPIKE SAMPLE: 1317742

Parameter	Units	60160745003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.6	79	90-110	M1

SAMPLE DUPLICATE: 1317741

Parameter	Units	60160784001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.13	0.13	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

QC Batch: WETA/27814 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 60161077001

METHOD BLANK: 1316914 | Matrix: Water
Associated Lab Samples: 60161077001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	01/16/14 10:27	

LABORATORY CONTROL SAMPLE: 1316915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	54.9	110	90-110	

MATRIX SPIKE SAMPLE: 1316918

Parameter	Units	60160823003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	320	500	776	99	90-110	

MATRIX SPIKE SAMPLE: 1316919

Parameter	Units	60160823001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	176	500	633	102	90-110	

SAMPLE DUPLICATE: 1316917

Parameter	Units	60160715003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	2440	2580	5	25	

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QUALIFIERS

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

BATCH QUALIFIERS

Batch: MSV/58821

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-192R2
Pace Project No.: 60161077

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60161077001	**316-192R2**	EPA 200.7	MPRP/25910	EPA 200.7	ICP/19833
60161077001	**316-192R2**	EPA 200.7	MPRP/25909	EPA 200.7	ICP/19835
60161077001	**316-192R2**	EPA 245.1	MERP/8069	EPA 245.1	MERC/8023
60161077001	**316-192R2**	EPA 245.1	MERP/8070	EPA 245.1	MERC/8024
60161077001	**316-192R2**	EPA 625	OEXT/42228	EPA 625	MSSV/13444
60161077001	**316-192R2**	EPA 624 Low	MSV/58857		
60161077002	**TRIP BLANK**	EPA 624 Low	MSV/58821		
60161077001	**316-192R2**	EPA 1664A	WET/45652		
60161077001	**316-192R2**	EPA 1664A	WET/45654		
60161077001	**316-192R2**	SM 2540D	WET/45634		
60161077001	**316-192R2**	SM 4500-H+B	WET/45672		
60161077001	**316-192R2**	SM 5210B	WET/45591	SM 5210B	WET/45682
60161077001	**316-192R2**	EPA 350.1	WETA/27825		
60161077001	**316-192R2**	EPA 410.4	WETA/27814		

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Sample Condition Upon Receipt

WO#: 60161077

60161077

Optional
Proj Due Date:
Proj Name:

Client Name: Barr

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

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☑ None ☐ Other ☐

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: _____

Date and initials of person examining contents: MN 1/13/14

Temperature should be above freezing to 6°C

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 & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6. BOD
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☑No ☐N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☑Yes ☐No ☐N/A	13.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	Initial pH HNO_3 ~6.0, added 2.5 ml; final pH ~4.0
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☑No ☐N/A	Initial pH H_2SO_4 ~6.0; added 2 ml; final pH ~2.0 14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed: MN Lot # of added preservative: 12513 / 12518
Trip Blank present: Pace Trip Blank lot # (if purchased): Dec 19 2013	☑Yes ☐No ☐N/A	15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	3 of 5 sample vials have h.s. 16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 1/14/14

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:

Company:	BARR ENGINEERING
Address:	
Email To:	
Phone:	(816) 285-8410 Fax
Requested Due Date/TAT:	10 Day (Default)

Section B Required Project Information:

Report To:	ED GALBRAITH/BARR
Copy To:	SCOTT FEDAK/FEEZOR
	DANA BAKER/MARGARET TREANOR -BARR
Purchase Order No.	PO 3727110
Client Project ID:	BRIDGETON LF
Container Order Number:	

Section C Invoice Information:

Attention:	JANET ROLLEN
Company Name:	REPUBLIC SERVICES
Address:	BRIDGETON, MO 63044
Pace Quote Reference:	130426_7588
Pace Project Manager:	Brown, Angie
Pace Profile #:	6787 LINE 2

Regulatory Agency	
State / Location	Missouri

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N): COD EPA 410	pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B	Residual Chlorine (Y/N)	6G61077
1	316-192RZ	OT	G	01-12-14	1430	—	—		14	10	4	1	0					X	X	X	X	X	X	X	X	X	X	X		3(AG3S) 2(AG4U) 2(BG2U) BG3U BG3S4.0 BP3N6.0 5(DG9T) 2(DG9U)
2	TRIP BLANK								2	2															X					
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

(01)
(02)

METALS LIST total & LF Dis: Al,Sb,As,Be,Cd,Cr, Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn and Mercury

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	Feezor Eng.	01-13-14	0920		01-13-14	0920				
SITE ADDRESS: BRIDGETON LF				PACE	1/13/14	1355	3.8	Y	Y	Y
13570 ST. CHARLES ROCK RD										
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE		
PRINT Name of SAMPLER:	John Powell	
SIGNATURE of SAMPLER:		DATE Signed: 01-12-14

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

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January 30, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-193R1
Pace Project No.: 60161153

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 15, 2014. 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.

Amended report revised 1/30/14 to include comment regarding the matrix spike information as unavailable for method EPA 625.

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

Sincerely,

Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-193R1
Pace Project No.: 60161153

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-193R1
Pace Project No.: 60161153

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60161153001	**316-193R1**	Water	01/13/14 14:00	01/15/14 01:50
60161153002	**TRIP BLANK**	Water	01/13/14 14:00	01/15/14 01:50

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-193R1
Pace Project No.: 60161153

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60161153001	**316-193R1**	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TJT	1
		EPA 245.1	TJT	1
		EPA 625	JMT	16
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC1	1
		SM 4500-H+B	JML	1
		SM 5210B	JML	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
60161153002	**TRIP BLANK**	EPA 624 Low	EAK	28

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PROJECT NARRATIVE

Project: BRIDGETON LF 316-193R1
Pace Project No.: 60161153

Date: January 30, 2014

The sample volume received for volatiles by EPA 624 were preserved with sodiumthiosulfate, which was provided in the sampling kit in error. The volume for volatiles analyses is thus treated as received as unpreserved and analyzed within 7 calendar days of sample collection.

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-193R1
Pace Project No.: 60161153

Sample: 316-193R1 **Lab ID: 60161153001** Collected: 01/13/14 14:00 Received: 01/15/14 01:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	**8700**	ug/L	750	2	01/16/14 14:55	01/17/14 15:32	7429-90-5	
Antimony	ND	ug/L	100	2	01/16/14 14:55	01/17/14 15:32	7440-36-0	D3
Arsenic	**842**	ug/L	50.0	1	01/16/14 14:55	01/17/14 15:28	7440-38-2	
Beryllium	ND	ug/L	5.0	1	01/16/14 14:55	01/17/14 15:28	7440-41-7	
Cadmium	ND	ug/L	25.0	1	01/16/14 14:55	01/17/14 15:28	7440-43-9	
Chromium	**283**	ug/L	25.0	1	01/16/14 14:55	01/17/14 15:28	7440-47-3	
Cobalt	**40.9**	ug/L	25.0	1	01/16/14 14:55	01/17/14 15:28	7440-48-4	
Copper	ND	ug/L	50.0	1	01/16/14 14:55	01/17/14 15:28	7440-50-8	
Iron	**739000**	ug/L	250	1	01/16/14 14:55	01/17/14 15:28	7439-89-6	
Lead	**118**	ug/L	25.0	1	01/16/14 14:55	01/17/14 15:28	7439-92-1	
Nickel	**119**	ug/L	25.0	1	01/16/14 14:55	01/17/14 15:28	7440-02-0	
Selenium	ND	ug/L	75.0	1	01/16/14 14:55	01/17/14 15:28	7782-49-2	
Silver	ND	ug/L	35.0	1	01/16/14 14:55	01/17/14 15:28	7440-22-4	
Thallium	ND	ug/L	100	1	01/16/14 14:55	01/17/14 15:28	7440-28-0	
Zinc	**6890**	ug/L	500	2	01/16/14 14:55	01/17/14 15:32	7440-66-6	
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	**1820**	ug/L	750	2	01/16/14 15:20	01/17/14 12:38	7429-90-5	
Antimony, Dissolved	ND	ug/L	100	2	01/16/14 15:20	01/17/14 12:38	7440-36-0	D3
Arsenic, Dissolved	**696**	ug/L	50.0	1	01/16/14 15:20	01/17/14 12:35	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	01/16/14 15:20	01/17/14 12:35	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	01/16/14 15:20	01/17/14 12:35	7440-43-9	
Chromium, Dissolved	**229**	ug/L	25.0	1	01/16/14 15:20	01/17/14 12:35	7440-47-3	
Cobalt, Dissolved	**29.1**	ug/L	25.0	1	01/16/14 15:20	01/17/14 12:35	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	01/16/14 15:20	01/17/14 12:35	7440-50-8	
Iron, Dissolved	**548000**	ug/L	250	1	01/16/14 15:20	01/17/14 12:35	7439-89-6	
Lead, Dissolved	**69.8**	ug/L	25.0	1	01/16/14 15:20	01/17/14 12:35	7439-92-1	
Nickel, Dissolved	**89.0**	ug/L	25.0	1	01/16/14 15:20	01/17/14 12:35	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	01/16/14 15:20	01/17/14 12:35	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	01/16/14 15:20	01/17/14 12:35	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	01/16/14 15:20	01/17/14 12:35	7440-28-0	
Zinc, Dissolved	**5840**	ug/L	500	2	01/16/14 15:20	01/17/14 12:38	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	6.0	1	01/16/14 13:00	01/17/14 12:35	7439-97-6	
245.1 Mercury, Dissolved (LF)	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	6.0	1	01/16/14 13:00	01/17/14 12:07	7439-97-6	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	01/16/14 00:00	01/17/14 20:21	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	01/16/14 00:00	01/17/14 20:21	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	01/16/14 00:00	01/17/14 20:21	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	01/16/14 00:00	01/17/14 20:21	67-72-1	
Naphthalene	ND	ug/L	1000	2	01/16/14 00:00	01/17/14 20:21	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	01/16/14 00:00	01/17/14 20:21	98-95-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-193R1
Pace Project No.: 60161153

Sample: 316-193R1 **Lab ID: 60161153001** Collected: 01/13/14 14:00 Received: 01/15/14 01:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Pentachlorophenol	ND	ug/L	1000	2	01/16/14 00:00	01/17/14 20:21	87-86-5	
Phenol	**11700**	ug/L	1000	2	01/16/14 00:00	01/17/14 20:21	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	1000	2	01/16/14 00:00	01/17/14 20:21	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	1000	2	01/16/14 00:00	01/17/14 20:21	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	138	%	33-120	2	01/16/14 00:00	01/17/14 20:21	4165-60-0	S0
2-Fluorobiphenyl (S)	92	%	39-120	2	01/16/14 00:00	01/17/14 20:21	321-60-8	
Terphenyl-d14 (S)	84	%	45-120	2	01/16/14 00:00	01/17/14 20:21	1718-51-0	
Phenol-d6 (S)	36	%	11-120	2	01/16/14 00:00	01/17/14 20:21	13127-88-3	
2-Fluorophenol (S)	59	%	17-120	2	01/16/14 00:00	01/17/14 20:21	367-12-4	
2,4,6-Tribromophenol (S)	103	%	39-120	2	01/16/14 00:00	01/17/14 20:21	118-79-6	
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	**95300**	ug/L	2000	200		01/15/14 15:45	67-64-1	N2
Benzene	ND	ug/L	200	200		01/15/14 15:45	71-43-2	
Bromodichloromethane	ND	ug/L	200	200		01/15/14 15:45	75-27-4	
Bromoform	ND	ug/L	200	200		01/15/14 15:45	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/15/14 15:45	74-83-9	
2-Butanone (MEK)	**57300**	ug/L	2000	200		01/15/14 15:45	78-93-3	N2
Carbon tetrachloride	ND	ug/L	200	200		01/15/14 15:45	56-23-5	
Chloroethane	ND	ug/L	200	200		01/15/14 15:45	75-00-3	
Chloroform	ND	ug/L	200	200		01/15/14 15:45	67-66-3	
1,4-Dichlorobenzene	**626**	ug/L	200	200		01/15/14 15:45	106-46-7	
1,2-Dichloroethane	ND	ug/L	200	200		01/15/14 15:45	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/15/14 15:45	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/15/14 15:45	156-60-5	
Ethylbenzene	ND	ug/L	200	200		01/15/14 15:45	100-41-4	
Methylene chloride	ND	ug/L	200	200		01/15/14 15:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	**3080**	ug/L	2000	200		01/15/14 15:45	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		01/15/14 15:45	79-34-5	N2
Tetrachloroethene	ND	ug/L	200	200		01/15/14 15:45	127-18-4	
Toluene	ND	ug/L	200	200		01/15/14 15:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/15/14 15:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		01/15/14 15:45	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/15/14 15:45	79-01-6	
Vinyl chloride	ND	ug/L	200	200		01/15/14 15:45	75-01-4	
Xylene (Total)	ND	ug/L	600	200		01/15/14 15:45	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	200		01/15/14 15:45	460-00-4	
Toluene-d8 (S)	107	%	80-120	200		01/15/14 15:45	2037-26-5	
1,2-Dichloroethane-d4 (S)	91	%	80-120	200		01/15/14 15:45	17060-07-0	
Preservation pH	**6.0**		1.0	200		01/15/14 15:45		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	**56.7**	mg/L	5.0	1		01/21/14 12:51		D6

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-193R1
Pace Project No.: 60161153

Sample: 316-193R1 **Lab ID: 60161153001** Collected: 01/13/14 14:00 Received: 01/15/14 01:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	**8.0**	mg/L	5.0	1		01/21/14 12:59		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**1540**	mg/L	5.0	1		01/20/14 08:02		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**5.4**	Std. Units	0.10	1		01/17/14 15:50		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**28500**	mg/L	2.0	1	01/15/14 13:59	01/20/14 10:29		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**626**	mg/L	20.0	200		01/22/14 10:31	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**37000**	mg/L	5000	500		01/21/14 16:12		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-193R1
Pace Project No.: 60161153

Sample: TRIP BLANK **Lab ID: 60161153002** Collected: 01/13/14 14:00 Received: 01/15/14 01:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	ND	ug/L	10.0	1		01/15/14 16:00	67-64-1	N2
Benzene	ND	ug/L	1.0	1		01/15/14 16:00	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		01/15/14 16:00	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/15/14 16:00	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/15/14 16:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/15/14 16:00	78-93-3	N2
Carbon tetrachloride	ND	ug/L	1.0	1		01/15/14 16:00	56-23-5	
Chloroethane	ND	ug/L	1.0	1		01/15/14 16:00	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/15/14 16:00	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/15/14 16:00	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/15/14 16:00	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/15/14 16:00	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/15/14 16:00	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/15/14 16:00	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		01/15/14 16:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/15/14 16:00	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/15/14 16:00	79-34-5	N2
Tetrachloroethene	ND	ug/L	1.0	1		01/15/14 16:00	127-18-4	
Toluene	ND	ug/L	1.0	1		01/15/14 16:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/15/14 16:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/15/14 16:00	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/15/14 16:00	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/15/14 16:00	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/15/14 16:00	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	105	%	80-120	1		01/15/14 16:00	460-00-4	
Toluene-d8 (S)	108	%	80-120	1		01/15/14 16:00	2037-26-5	
1,2-Dichloroethane-d4 (S)	88	%	80-120	1		01/15/14 16:00	17060-07-0	
Preservation pH	**6.0**		1.0	1		01/15/14 16:00		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-193R1
Pace Project No.: 60161153

QC Batch: MERP/8069 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury
Associated Lab Samples: 60161153001

METHOD BLANK: 1318148 | Matrix: Water
Associated Lab Samples: 60161153001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/17/14 12:11	

LABORATORY CONTROL SAMPLE: 1318149

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.3	86	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318150 1318151

Parameter	Units	60161176001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.0	4.1	80	82	70-130	2	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-193R1
Pace Project No.: 60161153

QC Batch: MERP/8070
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60161153001

METHOD BLANK: 1318152
Matrix: Water
Associated Lab Samples: 60161153001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	01/17/14 11:47	

LABORATORY CONTROL SAMPLE: 1318153

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.5	90	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318154 1318155

Parameter	Units	60161076001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	97.8	86.4	65	58	70-130	12	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-193R1
Pace Project No.: 60161153

QC Batch: MPRP/25910
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60161153001

METHOD BLANK: 1318350
Matrix: Water
Associated Lab Samples: 60161153001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	01/17/14 14:08	
Antimony	ug/L	ND	10.0	01/17/14 14:08	
Arsenic	ug/L	ND	10.0	01/17/14 14:08	
Beryllium	ug/L	ND	1.0	01/17/14 14:08	
Cadmium	ug/L	ND	5.0	01/17/14 14:08	
Chromium	ug/L	ND	5.0	01/17/14 14:08	
Cobalt	ug/L	ND	5.0	01/17/14 14:08	
Copper	ug/L	ND	10.0	01/17/14 14:08	
Iron	ug/L	ND	50.0	01/17/14 14:08	
Lead	ug/L	ND	5.0	01/17/14 14:08	
Nickel	ug/L	ND	5.0	01/17/14 14:08	
Selenium	ug/L	ND	15.0	01/17/14 14:08	
Silver	ug/L	ND	7.0	01/17/14 14:08	
Thallium	ug/L	ND	20.0	01/17/14 14:08	
Zinc	ug/L	ND	50.0	01/17/14 14:08	

LABORATORY CONTROL SAMPLE: 1318351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9850	98	85-115	
Antimony	ug/L	1000	1060	106	85-115	
Arsenic	ug/L	1000	1020	102	85-115	
Beryllium	ug/L	1000	1010	101	85-115	
Cadmium	ug/L	1000	1030	103	85-115	
Chromium	ug/L	1000	1020	102	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	997	100	85-115	
Iron	ug/L	10000	10000	100	85-115	
Lead	ug/L	1000	1040	104	85-115	
Nickel	ug/L	1000	1040	104	85-115	
Selenium	ug/L	1000	1050	105	85-115	
Silver	ug/L	500	490	98	85-115	
Thallium	ug/L	1000	1000	100	85-115	
Zinc	ug/L	1000	1050	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318352 1318353

Parameter	Units	60161076001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	8220	50000	50000	64300	64100	112	112	70-130	0	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-193R1
Pace Project No.: 60161153

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318352 1318353

Parameter	Units	60161076001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	5000	5000	5000	5090	100	102	70-130	2	7	
Arsenic	ug/L	797	5000	5000	5660	5790	97	100	70-130	2	10	
Beryllium	ug/L	ND	5000	5000	4880	5040	98	101	70-130	3	7	
Cadmium	ug/L	ND	5000	5000	4870	5030	97	100	70-130	3	10	
Chromium	ug/L	282	5000	5000	5090	5200	96	98	70-130	2	10	
Cobalt	ug/L	39.4	5000	5000	4870	5040	97	100	70-130	3	6	
Copper	ug/L	ND	5000	5000	4850	4990	96	99	70-130	3	11	
Iron	ug/L	690000	50000	50000	730000	706000	80	31	70-130	3	10	M1
Lead	ug/L	110	5000	5000	4780	4940	93	97	70-130	3	10	
Nickel	ug/L	117	5000	5000	4930	5080	96	99	70-130	3	10	
Selenium	ug/L	ND	5000	5000	4980	5180	99	103	70-130	4	10	
Silver	ug/L	ND	2500	2500	2390	2460	96	98	70-130	3	10	
Thallium	ug/L	ND	5000	5000	4420	4580	88	92	70-130	4	6	
Zinc	ug/L	7090	5000	5000	12100	12000	101	97	70-130	1	11	

MATRIX SPIKE SAMPLE: 1318354

Parameter	Units	60161120005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	ND	10000	10800	107	70-130	
Antimony	ug/L	ND	1000	1020	102	70-130	
Arsenic	ug/L	ND	1000	993	99	70-130	
Beryllium	ug/L	ND	1000	1050	105	70-130	
Cadmium	ug/L	ND	1000	1000	100	70-130	
Chromium	ug/L	ND	1000	1010	101	70-130	
Cobalt	ug/L	ND	1000	1010	101	70-130	
Copper	ug/L	ND	1000	992	99	70-130	
Iron	ug/L	76.8	10000	10100	101	70-130	
Lead	ug/L	ND	1000	983	98	70-130	
Nickel	ug/L	0.013 mg/L	1000	1020	101	70-130	
Selenium	ug/L	ND	1000	1010	101	70-130	
Silver	ug/L	ND	500	495	99	70-130	
Thallium	ug/L	ND	1000	942	94	70-130	
Zinc	ug/L	ND	1000	1020	100	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-193R1
Pace Project No.: 60161153

QC Batch: MPRP/25909
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60161153001

METHOD BLANK: 1318337
Matrix: Water
Associated Lab Samples: 60161153001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	01/17/14 09:37	
Antimony, Dissolved	ug/L	ND	10.0	01/17/14 09:37	
Arsenic, Dissolved	ug/L	ND	10.0	01/17/14 09:37	
Beryllium, Dissolved	ug/L	ND	1.0	01/17/14 09:37	
Cadmium, Dissolved	ug/L	ND	5.0	01/17/14 09:37	
Chromium, Dissolved	ug/L	ND	5.0	01/17/14 09:37	
Cobalt, Dissolved	ug/L	ND	5.0	01/17/14 09:37	
Copper, Dissolved	ug/L	ND	10.0	01/17/14 09:37	
Iron, Dissolved	ug/L	ND	50.0	01/17/14 09:37	
Lead, Dissolved	ug/L	ND	5.0	01/17/14 09:37	
Nickel, Dissolved	ug/L	ND	5.0	01/17/14 09:37	
Selenium, Dissolved	ug/L	ND	15.0	01/17/14 09:37	
Silver, Dissolved	ug/L	ND	7.0	01/17/14 09:37	
Thallium, Dissolved	ug/L	ND	20.0	01/17/14 09:37	
Zinc, Dissolved	ug/L	ND	50.0	01/17/14 09:37	

LABORATORY CONTROL SAMPLE: 1318338

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10200	102	85-115	
Antimony, Dissolved	ug/L	1000	1070	107	85-115	
Arsenic, Dissolved	ug/L	1000	1040	104	85-115	
Beryllium, Dissolved	ug/L	1000	1040	104	85-115	
Cadmium, Dissolved	ug/L	1000	1060	106	85-115	
Chromium, Dissolved	ug/L	1000	1050	105	85-115	
Cobalt, Dissolved	ug/L	1000	1050	105	85-115	
Copper, Dissolved	ug/L	1000	1030	103	85-115	
Iron, Dissolved	ug/L	10000	10000	100	85-115	
Lead, Dissolved	ug/L	1000	1050	105	85-115	
Nickel, Dissolved	ug/L	1000	1060	106	85-115	
Selenium, Dissolved	ug/L	1000	1070	107	85-115	
Silver, Dissolved	ug/L	500	484	97	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	1070	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318339 1318340

Parameter	Units	60161076001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	1790	50000	50000	55000	59100	107	115	70-130	7	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-193R1
Pace Project No.: 60161153

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318339 1318340

Parameter	Units	60161076001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	5000	5000	4920	4980	98	99	70-130	1	7	
Arsenic, Dissolved	ug/L	574	5000	5000	5300	5420	95	97	70-130	2	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	4990	5070	100	101	70-130	2	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	4780	4870	95	97	70-130	2	10	
Chromium, Dissolved	ug/L	212	5000	5000	5100	5260	98	101	70-130	3	10	
Cobalt, Dissolved	ug/L	25.5	5000	5000	4760	4860	95	97	70-130	2	6	
Copper, Dissolved	ug/L	ND	5000	5000	4880	5000	97	100	70-130	2	11	
Iron, Dissolved	ug/L	526000	50000	50000	550000	554000	48	54	70-130	1	10	M1
Lead, Dissolved	ug/L	59.8	5000	5000	4600	4690	91	93	70-130	2	10	
Nickel, Dissolved	ug/L	85.9	5000	5000	4870	4970	96	98	70-130	2	10	
Selenium, Dissolved	ug/L	ND	5000	5000	4750	4880	95	97	70-130	3	10	
Silver, Dissolved	ug/L	ND	2500	2500	2380	2440	95	97	70-130	2	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4400	4500	88	90	70-130	2	6	
Zinc, Dissolved	ug/L	5070	5000	5000	9730	9790	93	94	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-193R1
Pace Project No.: 60161153

QC Batch: MSV/58857 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60161153001, 60161153002

METHOD BLANK: 1317833 | Matrix: Water
Associated Lab Samples: 60161153001, 60161153002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/15/14 14:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/15/14 14:30	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/15/14 14:30	
1,2-Dichloroethane	ug/L	ND	1.0	01/15/14 14:30	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/15/14 14:30	
2-Butanone (MEK)	ug/L	ND	10.0	01/15/14 14:30	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/15/14 14:30	N2
Acetone	ug/L	ND	10.0	01/15/14 14:30	N2
Benzene	ug/L	ND	1.0	01/15/14 14:30	
Bromodichloromethane	ug/L	ND	1.0	01/15/14 14:30	
Bromoform	ug/L	ND	1.0	01/15/14 14:30	
Bromomethane	ug/L	ND	5.0	01/15/14 14:30	
Carbon tetrachloride	ug/L	ND	1.0	01/15/14 14:30	
Chloroethane	ug/L	ND	1.0	01/15/14 14:30	
Chloroform	ug/L	ND	1.0	01/15/14 14:30	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/15/14 14:30	N2
Ethylbenzene	ug/L	ND	1.0	01/15/14 14:30	
Methylene chloride	ug/L	ND	1.0	01/15/14 14:30	
Tetrachloroethene	ug/L	ND	1.0	01/15/14 14:30	
Toluene	ug/L	ND	1.0	01/15/14 14:30	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/15/14 14:30	
Trichloroethene	ug/L	ND	1.0	01/15/14 14:30	
Vinyl chloride	ug/L	ND	1.0	01/15/14 14:30	
Xylene (Total)	ug/L	ND	3.0	01/15/14 14:30	N2
1,2-Dichloroethane-d4 (S)	%	95	80-120	01/15/14 14:30	
4-Bromofluorobenzene (S)	%	105	80-120	01/15/14 14:30	
Toluene-d8 (S)	%	111	80-120	01/15/14 14:30	

LABORATORY CONTROL SAMPLE: 1317834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.8	89	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	16.8	84	59-138	N2
1,1,2-Trichloroethane	ug/L	20	18.8	94	69-127	
1,2-Dichloroethane	ug/L	20	18.1	90	71-129	
1,4-Dichlorobenzene	ug/L	20	17.3	87	68-124	
2-Butanone (MEK)	ug/L	100	83.8	84	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	89.2	89	61-120	N2
Acetone	ug/L	100	73.9	74	40-160	N2
Benzene	ug/L	20	18.4	92	73-129	
Bromodichloromethane	ug/L	20	19.9	100	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-193R1
Pace Project No.: 60161153

LABORATORY CONTROL SAMPLE: 1317834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	18.7	94	52-123	
Bromomethane	ug/L	20	20.0	100	10-160	
Carbon tetrachloride	ug/L	20	18.5	93	70-140	
Chloroethane	ug/L	20	20.2	101	42-160	
Chloroform	ug/L	20	17.7	89	60-120	
cis-1,2-Dichloroethene	ug/L	20	21.2	106	70-125	N2
Ethylbenzene	ug/L	20	17.5	87	66-133	
Methylene chloride	ug/L	20	20.4	102	56-135	
Tetrachloroethene	ug/L	20	18.3	92	64-143	
Toluene	ug/L	20	19.8	99	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.4	102	67-149	
Trichloroethene	ug/L	20	19.3	97	71-130	
Vinyl chloride	ug/L	20	21.1	105	41-160	
Xylene (Total)	ug/L	60	53.7	90	67-130	N2
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			104	80-120	

MATRIX SPIKE SAMPLE: 1317127

Parameter	Units	60161021001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3820	96	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3570	85	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4150	104	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3610	90	49-155	
1,4-Dichlorobenzene	ug/L	715	4000	4330	90	18-147	
2-Butanone (MEK)	ug/L	60500	20000	92300	159	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	2880	20000	22300	97	40-160	N2
Acetone	ug/L	97000	20000	133000	178	40-160	M1,N2
Benzene	ug/L	ND	4000	3880	95	37-151	
Bromodichloromethane	ug/L	ND	4000	4230	106	35-155	
Bromoform	ug/L	ND	4000	4070	102	45-133	
Bromomethane	ug/L	ND	4000	3830	96	10-160	
Carbon tetrachloride	ug/L	ND	4000	4180	104	70-140	
Chloroethane	ug/L	ND	4000	4110	102	14-160	
Chloroform	ug/L	ND	4000	3630	91	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	4260	107	19-160	N2
Ethylbenzene	ug/L	ND	4000	3850	93	37-154	
Methylene chloride	ug/L	ND	4000	4140	103	15-156	
Tetrachloroethene	ug/L	ND	4000	4170	104	64-148	
Toluene	ug/L	ND	4000	4170	102	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4230	106	54-156	
Trichloroethene	ug/L	ND	4000	4210	105	71-157	
Vinyl chloride	ug/L	ND	4000	4510	113	10-160	
Xylene (Total)	ug/L	ND	12000	12000	100	12-153	N2
1,2-Dichloroethane-d4 (S)	%				95	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-193R1
Pace Project No.: 60161153

MATRIX SPIKE SAMPLE: 1317127

Parameter	Units	60161021001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				107	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-193R1
Pace Project No.: 60161153

QC Batch: OEXT/42265 | Analysis Method: EPA 625
QC Batch Method: EPA 625 | Analysis Description: 625 MSS
Associated Lab Samples: 60161153001

METHOD BLANK: 1318052 | Matrix: Water
Associated Lab Samples: 60161153001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/17/14 19:39	
2,4,6-Trichlorophenol	ug/L	ND	5.0	01/17/14 19:39	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	01/17/14 19:39	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/17/14 19:39	
Hexachlorocyclopentadiene	ug/L	ND	5.0	01/17/14 19:39	
Hexachloroethane	ug/L	ND	5.0	01/17/14 19:39	
Naphthalene	ug/L	ND	5.0	01/17/14 19:39	
Nitrobenzene	ug/L	ND	5.0	01/17/14 19:39	
Pentachlorophenol	ug/L	ND	5.0	01/17/14 19:39	
Phenol	ug/L	ND	5.0	01/17/14 19:39	
2,4,6-Tribromophenol (S)	%	101	39-120	01/17/14 19:39	
2-Fluorobiphenyl (S)	%	95	39-120	01/17/14 19:39	
2-Fluorophenol (S)	%	55	17-120	01/17/14 19:39	
Nitrobenzene-d5 (S)	%	93	33-120	01/17/14 19:39	
Phenol-d6 (S)	%	32	11-120	01/17/14 19:39	
Terphenyl-d14 (S)	%	93	45-120	01/17/14 19:39	

LABORATORY CONTROL SAMPLE: 1318053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.4	79	46-120	
2,4,6-Trichlorophenol	ug/L	50	43.9	88	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	46.3	93	40-133	
Hexachloro-1,3-butadiene	ug/L	50	38.8	78	44-116	
Hexachlorocyclopentadiene	ug/L	100	58.4	58	24-120	
Hexachloroethane	ug/L	50	37.8	76	43-113	
Naphthalene	ug/L	50	40.8	82	48-120	
Nitrobenzene	ug/L	50	40.6	81	48-120	
Pentachlorophenol	ug/L	50	43.7	87	47-120	
Phenol	ug/L	50	14.6	29	16-112	
2,4,6-Tribromophenol (S)	%			92	39-120	
2-Fluorobiphenyl (S)	%			86	39-120	
2-Fluorophenol (S)	%			45	17-120	
Nitrobenzene-d5 (S)	%			83	33-120	1e
Phenol-d6 (S)	%			27	11-120	
Terphenyl-d14 (S)	%			87	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-193R1
Pace Project No.: 60161153

QC Batch: WET/45711 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60161153001

METHOD BLANK: 1320190 | Matrix: Water
Associated Lab Samples: 60161153001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/21/14 12:47	

LABORATORY CONTROL SAMPLE: 1320191

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	37.6	94	78-114	

MATRIX SPIKE SAMPLE: 1320192

Parameter	Units	60160806001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	41.2	38.7	92	78-114	

SAMPLE DUPLICATE: 1320193

Parameter	Units	60161153001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	56.7	45.6	22	18	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-193R1
Pace Project No.: 60161153

QC Batch: WET/45712 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 SGT-HEM, TPH
Associated Lab Samples: 60161153001

METHOD BLANK: 1320194 | Matrix: Water
Associated Lab Samples: 60161153001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	01/21/14 12:58	

LABORATORY CONTROL SAMPLE: 1320195

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	17.8	89	64-132	

MATRIX SPIKE SAMPLE: 1320196

Parameter	Units	60160806001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20.6	18.1	84	64-132	

SAMPLE DUPLICATE: 1320197

Parameter	Units	60161153001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	8.0	9.2	14	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-193R1
Pace Project No.: 60161153

QC Batch: WET/45685 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60161153001

METHOD BLANK: 1319717 | Matrix: Water
Associated Lab Samples: 60161153001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	01/20/14 07:58	

SAMPLE DUPLICATE: 1319718

Parameter	Units	60161106003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		25	

SAMPLE DUPLICATE: 1319719

Parameter	Units	60161090001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-193R1
Pace Project No.: 60161153

QC Batch: WET/45672
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 60161153001

SAMPLE DUPLICATE: 1319382

Parameter	Units	60161103001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.1	8.1	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-193R1
Pace Project No.: 60161153

QC Batch: WET/45630 | Analysis Method: SM 5210B
QC Batch Method: SM 5210B | Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 60161153001

METHOD BLANK: 1317821 | Matrix: Water
Associated Lab Samples: 60161153001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	01/20/14 10:26	

LABORATORY CONTROL SAMPLE: 1317822

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	181	92	85-115	

SAMPLE DUPLICATE: 1317823

Parameter	Units	60161153001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	28500	27900	2	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-193R1
Pace Project No.: 60161153

QC Batch: WETA/27882
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60161153001

METHOD BLANK: 1320470
Matrix: Water
Associated Lab Samples: 60161153001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	01/22/14 10:06	

LABORATORY CONTROL SAMPLE: 1320471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	106	90-110	

MATRIX SPIKE SAMPLE: 1320472

Parameter	Units	60160905002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.8	91	90-110	

MATRIX SPIKE SAMPLE: 1320473

Parameter	Units	60160909003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.8	92	90-110	

SAMPLE DUPLICATE: 1320474

Parameter	Units	60160917001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	6.8	6.6	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-193R1
Pace Project No.: 60161153

QC Batch: WETA/27872 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 60161153001

METHOD BLANK: 1320034 | Matrix: Water
Associated Lab Samples: 60161153001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	01/21/14 16:08	

LABORATORY CONTROL SAMPLE: 1320035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	45.4	91	90-110	

MATRIX SPIKE SAMPLE: 1320036

Parameter	Units	60161115002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	131	100	217	86	90-110	M1

SAMPLE DUPLICATE: 1320144

Parameter	Units	60161153001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	37000	36700	1	25	

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QUALIFIERS

Project: BRIDGETON LF 316-193R1
Pace Project No.: 60161153

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

ANALYTE QUALIFIERS

1e	A matrix spike was not reported for this batch due to dilution of parent sample for high levels of matrix interference.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-193R1
Pace Project No.: 60161153

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60161153001	**316-193R1**	EPA 200.7	MPRP/25910	EPA 200.7	ICP/19833
60161153001	**316-193R1**	EPA 200.7	MPRP/25909	EPA 200.7	ICP/19835
60161153001	**316-193R1**	EPA 245.1	MERP/8069	EPA 245.1	MERC/8023
60161153001	**316-193R1**	EPA 245.1	MERP/8070	EPA 245.1	MERC/8024
60161153001	**316-193R1**	EPA 625	OEXT/42265	EPA 625	MSSV/13454
60161153001	**316-193R1**	EPA 624 Low	MSV/58857		
60161153002	**TRIP BLANK**	EPA 624 Low	MSV/58857		
60161153001	**316-193R1**	EPA 1664A	WET/45711		
60161153001	**316-193R1**	EPA 1664A	WET/45712		
60161153001	**316-193R1**	SM 2540D	WET/45685		
60161153001	**316-193R1**	SM 4500-H+B	WET/45672		
60161153001	**316-193R1**	SM 5210B	WET/45630	SM 5210B	WET/45733
60161153001	**316-193R1**	EPA 350.1	WETA/27882		
60161153001	**316-193R1**	EPA 410.4	WETA/27872		

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Sample Condition Upon Receipt

WO#: 60161153

60161153

Optional
Proj Due Date:
Proj Name:

Client Name: BALR

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

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☒

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☒ None ☐ Other ☒ Zip

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 4.0

Temperature should be above freezing to 6°C

Date and initials of person examining contents: S 1/15/14

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 & signature on COC:	☒Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☒Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☒Yes ☐No ☐N/A	6. BOD-1400, pH
Rush Turn Around Time requested:	☐Yes ☒No ☐N/A	7.
Sufficient volume:	☒Yes ☐No ☐N/A	8.
Correct containers used:	☒Yes ☐No ☐N/A	5 sodium Thiosulfate VOA with labels
Pace containers used:	☒Yes ☐No ☐N/A	9. ask for uppres. VOA — Apply comment
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☒Yes ☐No ☐N/A	13.
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	Added hno3 to 316-19321 BP3N 6.0/4.5 Added h2so4 to 316-19321 BP3S 5.0/2.5
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☒No ☐N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☒Yes ☐No	Initial when completed S — Lot # of added preservative 12513 12518
Trip Blank present: Pace Trip Blank lot # (if purchased): Dec. 23	☒Yes ☐No ☐N/A	15.
Headspace in VOA vials (>6mm):	☒Yes ☐No ☐N/A	3 005 VOA — 316-19321 Leachate 16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 1/16/14

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	BARR ENGINEERING	Report To:	ED GALBRAITH/BARR	Attention:	JANET ROLLEN
Address:		Copy To:	SCOTT FEDAK/FEEZOR	Company Name:	REPUBLIC SERVICES
			DANA BAKER/MARGARET TREANOR -BARR	Address:	BRIDGETON, MO 63044
Email To:		Purchase Order No.	PO 3727110	Pace Quote Reference:	130426_7588
Phone:	(816) 285-8410 Fax	Client Project ID:	BRIDGETON LF	Pace Project Manager:	Brown, Angie
Requested Due Date/TAT:	10 Day (Default)	Container Order Number:		Pace Profile #:	6787 LINE 2

Regulatory Agency	
State / Location	
	Missouri

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N): COD EPA 410	pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B		Residual Chlorine (Y/N)	60161153
1	316-193R1 3(A6B5) 5(D69T)	OT	G	1-13-14	1400	—			14	10	4	1	0					X	X	X	X	X	X	X	X	X	X	X	2(BP8U)	BP3U, BP3N BP3S, 2(AG4U) 6.0 50 a1
2	TRIP BLANK								2	2														X						2(DG9U) TB a2
3																														
4																														
5																														
6																														METALS LIST total & LF Dis:
7																														Al,Sb,As,Be,Cd,Cr,
8																														Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn
9																														and Mercury
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	Sam Bircher/Feezor	1-13-14	1305	Margaret Heath	1-14-14	1430				
SITE ADDRESS: BRIDGETON LF	Andrew Roberts/Feezor	1-14-14	1430	Michael Mck/PASI	1/15	0150	4.0	Y	Y	Y
13570 ST. CHARLES ROCK RD										
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Sam Bircher					
SIGNATURE of SAMPLER:		DATE Signed: 1-13-14				

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January 22, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-194
Pace Project No.: 60161162

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 15, 2014. 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,

Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

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CERTIFICATIONS

Project: BRIDGETON LF 316-194
Pace Project No.: 60161162

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-194
Pace Project No.: 60161162

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60161162001	**316-194**	Water	01/14/14 10:00	01/15/14 01:50
60161162002	**TRIP BLANK**	Water	01/14/14 10:00	01/15/14 01:50

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-194
Pace Project No.: 60161162

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60161162001	**316-194**	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TJT	1
		EPA 245.1	TJT	1
		EPA 625	JMT	16
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC1	1
		SM 4500-H+B	JML	1
		SM 5210B	JML	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC	1
60161162002	**TRIP BLANK**	EPA 624 Low	EAK	28

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-194
Pace Project No.: 60161162

Sample: 316-194 **Lab ID: 60161162001** Collected: 01/14/14 10:00 Received: 01/15/14 01:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	**9450**	ug/L	750	2	01/16/14 14:55	01/17/14 15:39	7429-90-5	
Antimony	ND	ug/L	100	2	01/16/14 14:55	01/17/14 15:39	7440-36-0	D3
Arsenic	**916**	ug/L	50.0	1	01/16/14 14:55	01/17/14 15:35	7440-38-2	
Beryllium	ND	ug/L	5.0	1	01/16/14 14:55	01/17/14 15:35	7440-41-7	
Cadmium	ND	ug/L	25.0	1	01/16/14 14:55	01/17/14 15:35	7440-43-9	
Chromium	**314**	ug/L	25.0	1	01/16/14 14:55	01/17/14 15:35	7440-47-3	
Cobalt	**42.4**	ug/L	25.0	1	01/16/14 14:55	01/17/14 15:35	7440-48-4	
Copper	ND	ug/L	50.0	1	01/16/14 14:55	01/17/14 15:35	7440-50-8	
Iron	**776000**	ug/L	250	1	01/16/14 14:55	01/17/14 15:35	7439-89-6	
Lead	**120**	ug/L	25.0	1	01/16/14 14:55	01/17/14 15:35	7439-92-1	
Nickel	**130**	ug/L	25.0	1	01/16/14 14:55	01/17/14 15:35	7440-02-0	
Selenium	ND	ug/L	75.0	1	01/16/14 14:55	01/17/14 15:35	7782-49-2	
Silver	ND	ug/L	35.0	1	01/16/14 14:55	01/17/14 15:35	7440-22-4	
Thallium	ND	ug/L	100	1	01/16/14 14:55	01/17/14 15:35	7440-28-0	
Zinc	**8620**	ug/L	500	2	01/16/14 14:55	01/17/14 15:39	7440-66-6	
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	**1880**	ug/L	750	2	01/16/14 15:20	01/17/14 12:52	7429-90-5	
Antimony, Dissolved	ND	ug/L	100	2	01/16/14 15:20	01/17/14 12:52	7440-36-0	D3
Arsenic, Dissolved	**770**	ug/L	50.0	1	01/16/14 15:20	01/17/14 12:48	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	01/16/14 15:20	01/17/14 12:48	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	01/16/14 15:20	01/17/14 12:48	7440-43-9	
Chromium, Dissolved	**255**	ug/L	25.0	1	01/16/14 15:20	01/17/14 12:48	7440-47-3	
Cobalt, Dissolved	**29.6**	ug/L	25.0	1	01/16/14 15:20	01/17/14 12:48	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	01/16/14 15:20	01/17/14 12:48	7440-50-8	
Iron, Dissolved	**603000**	ug/L	250	1	01/16/14 15:20	01/17/14 12:48	7439-89-6	
Lead, Dissolved	**74.8**	ug/L	25.0	1	01/16/14 15:20	01/17/14 12:48	7439-92-1	
Nickel, Dissolved	**98.2**	ug/L	25.0	1	01/16/14 15:20	01/17/14 12:48	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	01/16/14 15:20	01/17/14 12:48	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	01/16/14 15:20	01/17/14 12:48	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	01/16/14 15:20	01/17/14 12:48	7440-28-0	
Zinc, Dissolved	**7210**	ug/L	500	2	01/16/14 15:20	01/17/14 12:52	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	6.0	1	01/16/14 13:00	01/17/14 12:37	7439-97-6	
245.1 Mercury, Dissolved (LF)	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	6.0	1	01/16/14 13:00	01/17/14 12:09	7439-97-6	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	01/16/14 00:00	01/17/14 20:41	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	01/16/14 00:00	01/17/14 20:41	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	01/16/14 00:00	01/17/14 20:41	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	01/16/14 00:00	01/17/14 20:41	67-72-1	
Naphthalene	ND	ug/L	1000	2	01/16/14 00:00	01/17/14 20:41	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	01/16/14 00:00	01/17/14 20:41	98-95-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-194
Pace Project No.: 60161162

Sample: 316-194 **Lab ID: 60161162001** Collected: 01/14/14 10:00 Received: 01/15/14 01:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Pentachlorophenol	ND	ug/L	1000	2	01/16/14 00:00	01/17/14 20:41	87-86-5	
Phenol	**11800**	ug/L	1000	2	01/16/14 00:00	01/17/14 20:41	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	1000	2	01/16/14 00:00	01/17/14 20:41	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	1000	2	01/16/14 00:00	01/17/14 20:41	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	129	%	33-120	2	01/16/14 00:00	01/17/14 20:41	4165-60-0	S0
2-Fluorobiphenyl (S)	85	%	39-120	2	01/16/14 00:00	01/17/14 20:41	321-60-8	
Terphenyl-d14 (S)	78	%	45-120	2	01/16/14 00:00	01/17/14 20:41	1718-51-0	
Phenol-d6 (S)	36	%	11-120	2	01/16/14 00:00	01/17/14 20:41	13127-88-3	
2-Fluorophenol (S)	55	%	17-120	2	01/16/14 00:00	01/17/14 20:41	367-12-4	
2,4,6-Tribromophenol (S)	96	%	39-120	2	01/16/14 00:00	01/17/14 20:41	118-79-6	
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	**58500**	ug/L	2000	200		01/15/14 16:25	67-64-1	N2
Benzene	ND	ug/L	200	200		01/15/14 16:25	71-43-2	
Bromodichloromethane	ND	ug/L	200	200		01/15/14 16:25	75-27-4	
Bromoform	ND	ug/L	200	200		01/15/14 16:25	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/15/14 16:25	74-83-9	
2-Butanone (MEK)	**28700**	ug/L	2000	200		01/15/14 16:25	78-93-3	N2
Carbon tetrachloride	ND	ug/L	200	200		01/15/14 16:25	56-23-5	
Chloroethane	ND	ug/L	200	200		01/15/14 16:25	75-00-3	
Chloroform	ND	ug/L	200	200		01/15/14 16:25	67-66-3	
1,4-Dichlorobenzene	**411**	ug/L	200	200		01/15/14 16:25	106-46-7	
1,2-Dichloroethane	ND	ug/L	200	200		01/15/14 16:25	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/15/14 16:25	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/15/14 16:25	156-60-5	
Ethylbenzene	ND	ug/L	200	200		01/15/14 16:25	100-41-4	
Methylene chloride	ND	ug/L	200	200		01/15/14 16:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2000	200		01/15/14 16:25	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		01/15/14 16:25	79-34-5	N2
Tetrachloroethene	ND	ug/L	200	200		01/15/14 16:25	127-18-4	
Toluene	ND	ug/L	200	200		01/15/14 16:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/15/14 16:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		01/15/14 16:25	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/15/14 16:25	79-01-6	
Vinyl chloride	ND	ug/L	200	200		01/15/14 16:25	75-01-4	
Xylene (Total)	ND	ug/L	600	200		01/15/14 16:25	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	94	%	80-120	200		01/15/14 16:25	460-00-4	
Toluene-d8 (S)	110	%	80-120	200		01/15/14 16:25	2037-26-5	
1,2-Dichloroethane-d4 (S)	97	%	80-120	200		01/15/14 16:25	17060-07-0	
Preservation pH	**6.0**		1.0	200		01/15/14 16:25		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	**54.0**	mg/L	5.0	1		01/21/14 12:51		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-194
Pace Project No.: 60161162

Sample: 316-194 **Lab ID: 60161162001** Collected: 01/14/14 10:00 Received: 01/15/14 01:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	**8.0**	mg/L	5.0	1		01/21/14 12:59		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**3940**	mg/L	5.0	1		01/20/14 08:03		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**5.4**	Std. Units	0.10	1		01/17/14 15:50		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**33100**	mg/L	2.0	1	01/15/14 15:50	01/20/14 11:17		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**701**	mg/L	20.0	200		01/22/14 10:37	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**41400**	mg/L	5000	500		01/21/14 16:12		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-194
Pace Project No.: 60161162

Sample: TRIP BLANK **Lab ID: 60161162002** Collected: 01/14/14 10:00 Received: 01/15/14 01:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	**22.8**	ug/L	10.0	1		01/15/14 16:40	67-64-1	N2
Benzene	ND	ug/L	1.0	1		01/15/14 16:40	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		01/15/14 16:40	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/15/14 16:40	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/15/14 16:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/15/14 16:40	78-93-3	N2
Carbon tetrachloride	ND	ug/L	1.0	1		01/15/14 16:40	56-23-5	
Chloroethane	ND	ug/L	1.0	1		01/15/14 16:40	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/15/14 16:40	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/15/14 16:40	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/15/14 16:40	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/15/14 16:40	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/15/14 16:40	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/15/14 16:40	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		01/15/14 16:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/15/14 16:40	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/15/14 16:40	79-34-5	N2
Tetrachloroethene	ND	ug/L	1.0	1		01/15/14 16:40	127-18-4	
Toluene	ND	ug/L	1.0	1		01/15/14 16:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/15/14 16:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/15/14 16:40	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/15/14 16:40	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/15/14 16:40	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/15/14 16:40	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	105	%	80-120	1		01/15/14 16:40	460-00-4	
Toluene-d8 (S)	108	%	80-120	1		01/15/14 16:40	2037-26-5	
1,2-Dichloroethane-d4 (S)	96	%	80-120	1		01/15/14 16:40	17060-07-0	
Preservation pH	**6.0**		1.0	1		01/15/14 16:40		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-194
Pace Project No.: 60161162

QC Batch: MERP/8069
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Associated Lab Samples: 60161162001

METHOD BLANK: 1318148
Matrix: Water
Associated Lab Samples: 60161162001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/17/14 12:11	

LABORATORY CONTROL SAMPLE: 1318149

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.3	86	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318150 1318151

Parameter	Units	60161176001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.0	4.1	80	82	70-130	2	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-194
Pace Project No.: 60161162

QC Batch: MERP/8070
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60161162001

METHOD BLANK: 1318152
Matrix: Water
Associated Lab Samples: 60161162001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	01/17/14 11:47	

LABORATORY CONTROL SAMPLE: 1318153

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.5	90	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318154 1318155

Parameter	Units	60161076001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	97.8	86.4	65	58	70-130	12	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-194
Pace Project No.: 60161162

QC Batch: MPRP/25910
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60161162001

METHOD BLANK: 1318350
Matrix: Water
Associated Lab Samples: 60161162001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	01/17/14 14:08	
Antimony	ug/L	ND	10.0	01/17/14 14:08	
Arsenic	ug/L	ND	10.0	01/17/14 14:08	
Beryllium	ug/L	ND	1.0	01/17/14 14:08	
Cadmium	ug/L	ND	5.0	01/17/14 14:08	
Chromium	ug/L	ND	5.0	01/17/14 14:08	
Cobalt	ug/L	ND	5.0	01/17/14 14:08	
Copper	ug/L	ND	10.0	01/17/14 14:08	
Iron	ug/L	ND	50.0	01/17/14 14:08	
Lead	ug/L	ND	5.0	01/17/14 14:08	
Nickel	ug/L	ND	5.0	01/17/14 14:08	
Selenium	ug/L	ND	15.0	01/17/14 14:08	
Silver	ug/L	ND	7.0	01/17/14 14:08	
Thallium	ug/L	ND	20.0	01/17/14 14:08	
Zinc	ug/L	ND	50.0	01/17/14 14:08	

LABORATORY CONTROL SAMPLE: 1318351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9850	98	85-115	
Antimony	ug/L	1000	1060	106	85-115	
Arsenic	ug/L	1000	1020	102	85-115	
Beryllium	ug/L	1000	1010	101	85-115	
Cadmium	ug/L	1000	1030	103	85-115	
Chromium	ug/L	1000	1020	102	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	997	100	85-115	
Iron	ug/L	10000	10000	100	85-115	
Lead	ug/L	1000	1040	104	85-115	
Nickel	ug/L	1000	1040	104	85-115	
Selenium	ug/L	1000	1050	105	85-115	
Silver	ug/L	500	490	98	85-115	
Thallium	ug/L	1000	1000	100	85-115	
Zinc	ug/L	1000	1050	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318352 1318353

Parameter	Units	60161076001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	8220	50000	50000	64300	64100	112	112	70-130	0	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-194
Pace Project No.: 60161162

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318352 1318353

Parameter	Units	60161076001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	5000	5000	5000	5090	100	102	70-130	2	7	
Arsenic	ug/L	797	5000	5000	5660	5790	97	100	70-130	2	10	
Beryllium	ug/L	ND	5000	5000	4880	5040	98	101	70-130	3	7	
Cadmium	ug/L	ND	5000	5000	4870	5030	97	100	70-130	3	10	
Chromium	ug/L	282	5000	5000	5090	5200	96	98	70-130	2	10	
Cobalt	ug/L	39.4	5000	5000	4870	5040	97	100	70-130	3	6	
Copper	ug/L	ND	5000	5000	4850	4990	96	99	70-130	3	11	
Iron	ug/L	690000	50000	50000	730000	706000	80	31	70-130	3	10	M1
Lead	ug/L	110	5000	5000	4780	4940	93	97	70-130	3	10	
Nickel	ug/L	117	5000	5000	4930	5080	96	99	70-130	3	10	
Selenium	ug/L	ND	5000	5000	4980	5180	99	103	70-130	4	10	
Silver	ug/L	ND	2500	2500	2390	2460	96	98	70-130	3	10	
Thallium	ug/L	ND	5000	5000	4420	4580	88	92	70-130	4	6	
Zinc	ug/L	7090	5000	5000	12100	12000	101	97	70-130	1	11	

MATRIX SPIKE SAMPLE: 1318354

Parameter	Units	60161120005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	ND	10000	10800	107	70-130	
Antimony	ug/L	ND	1000	1020	102	70-130	
Arsenic	ug/L	ND	1000	993	99	70-130	
Beryllium	ug/L	ND	1000	1050	105	70-130	
Cadmium	ug/L	ND	1000	1000	100	70-130	
Chromium	ug/L	ND	1000	1010	101	70-130	
Cobalt	ug/L	ND	1000	1010	101	70-130	
Copper	ug/L	ND	1000	992	99	70-130	
Iron	ug/L	76.8	10000	10100	101	70-130	
Lead	ug/L	ND	1000	983	98	70-130	
Nickel	ug/L	0.013 mg/L	1000	1020	101	70-130	
Selenium	ug/L	ND	1000	1010	101	70-130	
Silver	ug/L	ND	500	495	99	70-130	
Thallium	ug/L	ND	1000	942	94	70-130	
Zinc	ug/L	ND	1000	1020	100	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-194
Pace Project No.: 60161162

QC Batch: MPRP/25909
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60161162001

METHOD BLANK: 1318337
Matrix: Water
Associated Lab Samples: 60161162001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	01/17/14 09:37	
Antimony, Dissolved	ug/L	ND	10.0	01/17/14 09:37	
Arsenic, Dissolved	ug/L	ND	10.0	01/17/14 09:37	
Beryllium, Dissolved	ug/L	ND	1.0	01/17/14 09:37	
Cadmium, Dissolved	ug/L	ND	5.0	01/17/14 09:37	
Chromium, Dissolved	ug/L	ND	5.0	01/17/14 09:37	
Cobalt, Dissolved	ug/L	ND	5.0	01/17/14 09:37	
Copper, Dissolved	ug/L	ND	10.0	01/17/14 09:37	
Iron, Dissolved	ug/L	ND	50.0	01/17/14 09:37	
Lead, Dissolved	ug/L	ND	5.0	01/17/14 09:37	
Nickel, Dissolved	ug/L	ND	5.0	01/17/14 09:37	
Selenium, Dissolved	ug/L	ND	15.0	01/17/14 09:37	
Silver, Dissolved	ug/L	ND	7.0	01/17/14 09:37	
Thallium, Dissolved	ug/L	ND	20.0	01/17/14 09:37	
Zinc, Dissolved	ug/L	ND	50.0	01/17/14 09:37	

LABORATORY CONTROL SAMPLE: 1318338

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10200	102	85-115	
Antimony, Dissolved	ug/L	1000	1070	107	85-115	
Arsenic, Dissolved	ug/L	1000	1040	104	85-115	
Beryllium, Dissolved	ug/L	1000	1040	104	85-115	
Cadmium, Dissolved	ug/L	1000	1060	106	85-115	
Chromium, Dissolved	ug/L	1000	1050	105	85-115	
Cobalt, Dissolved	ug/L	1000	1050	105	85-115	
Copper, Dissolved	ug/L	1000	1030	103	85-115	
Iron, Dissolved	ug/L	10000	10000	100	85-115	
Lead, Dissolved	ug/L	1000	1050	105	85-115	
Nickel, Dissolved	ug/L	1000	1060	106	85-115	
Selenium, Dissolved	ug/L	1000	1070	107	85-115	
Silver, Dissolved	ug/L	500	484	97	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	1070	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318339 1318340

Parameter	Units	60161076001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	1790	50000	50000	55000	59100	107	115	70-130	7	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-194
Pace Project No.: 60161162

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1318339 1318340

Parameter	Units	60161076001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	5000	5000	4920	4980	98	99	70-130	1	7	
Arsenic, Dissolved	ug/L	574	5000	5000	5300	5420	95	97	70-130	2	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	4990	5070	100	101	70-130	2	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	4780	4870	95	97	70-130	2	10	
Chromium, Dissolved	ug/L	212	5000	5000	5100	5260	98	101	70-130	3	10	
Cobalt, Dissolved	ug/L	25.5	5000	5000	4760	4860	95	97	70-130	2	6	
Copper, Dissolved	ug/L	ND	5000	5000	4880	5000	97	100	70-130	2	11	
Iron, Dissolved	ug/L	526000	50000	50000	550000	554000	48	54	70-130	1	10	M1
Lead, Dissolved	ug/L	59.8	5000	5000	4600	4690	91	93	70-130	2	10	
Nickel, Dissolved	ug/L	85.9	5000	5000	4870	4970	96	98	70-130	2	10	
Selenium, Dissolved	ug/L	ND	5000	5000	4750	4880	95	97	70-130	3	10	
Silver, Dissolved	ug/L	ND	2500	2500	2380	2440	95	97	70-130	2	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4400	4500	88	90	70-130	2	6	
Zinc, Dissolved	ug/L	5070	5000	5000	9730	9790	93	94	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-194
Pace Project No.: 60161162

QC Batch: MSV/58857 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60161162001, 60161162002

METHOD BLANK: 1317833 | Matrix: Water
Associated Lab Samples: 60161162001, 60161162002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/15/14 14:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/15/14 14:30	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/15/14 14:30	
1,2-Dichloroethane	ug/L	ND	1.0	01/15/14 14:30	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/15/14 14:30	
2-Butanone (MEK)	ug/L	ND	10.0	01/15/14 14:30	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/15/14 14:30	N2
Acetone	ug/L	ND	10.0	01/15/14 14:30	N2
Benzene	ug/L	ND	1.0	01/15/14 14:30	
Bromodichloromethane	ug/L	ND	1.0	01/15/14 14:30	
Bromoform	ug/L	ND	1.0	01/15/14 14:30	
Bromomethane	ug/L	ND	5.0	01/15/14 14:30	
Carbon tetrachloride	ug/L	ND	1.0	01/15/14 14:30	
Chloroethane	ug/L	ND	1.0	01/15/14 14:30	
Chloroform	ug/L	ND	1.0	01/15/14 14:30	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/15/14 14:30	N2
Ethylbenzene	ug/L	ND	1.0	01/15/14 14:30	
Methylene chloride	ug/L	ND	1.0	01/15/14 14:30	
Tetrachloroethene	ug/L	ND	1.0	01/15/14 14:30	
Toluene	ug/L	ND	1.0	01/15/14 14:30	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/15/14 14:30	
Trichloroethene	ug/L	ND	1.0	01/15/14 14:30	
Vinyl chloride	ug/L	ND	1.0	01/15/14 14:30	
Xylene (Total)	ug/L	ND	3.0	01/15/14 14:30	N2
1,2-Dichloroethane-d4 (S)	%	95	80-120	01/15/14 14:30	
4-Bromofluorobenzene (S)	%	105	80-120	01/15/14 14:30	
Toluene-d8 (S)	%	111	80-120	01/15/14 14:30	

LABORATORY CONTROL SAMPLE: 1317834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.8	89	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	16.8	84	59-138	N2
1,1,2-Trichloroethane	ug/L	20	18.8	94	69-127	
1,2-Dichloroethane	ug/L	20	18.1	90	71-129	
1,4-Dichlorobenzene	ug/L	20	17.3	87	68-124	
2-Butanone (MEK)	ug/L	100	83.8	84	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	89.2	89	61-120	N2
Acetone	ug/L	100	73.9	74	40-160	N2
Benzene	ug/L	20	18.4	92	73-129	
Bromodichloromethane	ug/L	20	19.9	100	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-194
Pace Project No.: 60161162

LABORATORY CONTROL SAMPLE: 1317834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	18.7	94	52-123	
Bromomethane	ug/L	20	20.0	100	10-160	
Carbon tetrachloride	ug/L	20	18.5	93	70-140	
Chloroethane	ug/L	20	20.2	101	42-160	
Chloroform	ug/L	20	17.7	89	60-120	
cis-1,2-Dichloroethene	ug/L	20	21.2	106	70-125	N2
Ethylbenzene	ug/L	20	17.5	87	66-133	
Methylene chloride	ug/L	20	20.4	102	56-135	
Tetrachloroethene	ug/L	20	18.3	92	64-143	
Toluene	ug/L	20	19.8	99	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.4	102	67-149	
Trichloroethene	ug/L	20	19.3	97	71-130	
Vinyl chloride	ug/L	20	21.1	105	41-160	
Xylene (Total)	ug/L	60	53.7	90	67-130	N2
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			104	80-120	

MATRIX SPIKE SAMPLE: 1317127

Parameter	Units	60161021001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3820	96	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3570	85	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4150	104	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3610	90	49-155	
1,4-Dichlorobenzene	ug/L	715	4000	4330	90	18-147	
2-Butanone (MEK)	ug/L	60500	20000	92300	159	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	2880	20000	22300	97	40-160	N2
Acetone	ug/L	97000	20000	133000	178	40-160	M1,N2
Benzene	ug/L	ND	4000	3880	95	37-151	
Bromodichloromethane	ug/L	ND	4000	4230	106	35-155	
Bromoform	ug/L	ND	4000	4070	102	45-133	
Bromomethane	ug/L	ND	4000	3830	96	10-160	
Carbon tetrachloride	ug/L	ND	4000	4180	104	70-140	
Chloroethane	ug/L	ND	4000	4110	102	14-160	
Chloroform	ug/L	ND	4000	3630	91	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	4260	107	19-160	N2
Ethylbenzene	ug/L	ND	4000	3850	93	37-154	
Methylene chloride	ug/L	ND	4000	4140	103	15-156	
Tetrachloroethene	ug/L	ND	4000	4170	104	64-148	
Toluene	ug/L	ND	4000	4170	102	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4230	106	54-156	
Trichloroethene	ug/L	ND	4000	4210	105	71-157	
Vinyl chloride	ug/L	ND	4000	4510	113	10-160	
Xylene (Total)	ug/L	ND	12000	12000	100	12-153	N2
1,2-Dichloroethane-d4 (S)	%				95	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-194
Pace Project No.: 60161162

MATRIX SPIKE SAMPLE: 1317127

Parameter	Units	60161021001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				107	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-194
Pace Project No.: 60161162

QC Batch: OEXT/42265 | Analysis Method: EPA 625
QC Batch Method: EPA 625 | Analysis Description: 625 MSS
Associated Lab Samples: 60161162001

METHOD BLANK: 1318052 | Matrix: Water
Associated Lab Samples: 60161162001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/17/14 19:39	
2,4,6-Trichlorophenol	ug/L	ND	5.0	01/17/14 19:39	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	01/17/14 19:39	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/17/14 19:39	
Hexachlorocyclopentadiene	ug/L	ND	5.0	01/17/14 19:39	
Hexachloroethane	ug/L	ND	5.0	01/17/14 19:39	
Naphthalene	ug/L	ND	5.0	01/17/14 19:39	
Nitrobenzene	ug/L	ND	5.0	01/17/14 19:39	
Pentachlorophenol	ug/L	ND	5.0	01/17/14 19:39	
Phenol	ug/L	ND	5.0	01/17/14 19:39	
2,4,6-Tribromophenol (S)	%	101	39-120	01/17/14 19:39	
2-Fluorobiphenyl (S)	%	95	39-120	01/17/14 19:39	
2-Fluorophenol (S)	%	55	17-120	01/17/14 19:39	
Nitrobenzene-d5 (S)	%	93	33-120	01/17/14 19:39	
Phenol-d6 (S)	%	32	11-120	01/17/14 19:39	
Terphenyl-d14 (S)	%	93	45-120	01/17/14 19:39	

LABORATORY CONTROL SAMPLE: 1318053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.4	79	46-120	
2,4,6-Trichlorophenol	ug/L	50	43.9	88	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	46.3	93	40-133	
Hexachloro-1,3-butadiene	ug/L	50	38.8	78	44-116	
Hexachlorocyclopentadiene	ug/L	100	58.4	58	24-120	
Hexachloroethane	ug/L	50	37.8	76	43-113	
Naphthalene	ug/L	50	40.8	82	48-120	
Nitrobenzene	ug/L	50	40.6	81	48-120	
Pentachlorophenol	ug/L	50	43.7	87	47-120	
Phenol	ug/L	50	14.6	29	16-112	
2,4,6-Tribromophenol (S)	%			92	39-120	
2-Fluorobiphenyl (S)	%			86	39-120	
2-Fluorophenol (S)	%			45	17-120	
Nitrobenzene-d5 (S)	%			83	33-120	
Phenol-d6 (S)	%			27	11-120	
Terphenyl-d14 (S)	%			87	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-194
Pace Project No.: 60161162

QC Batch: WET/45711 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60161162001

METHOD BLANK: 1320190 | Matrix: Water
Associated Lab Samples: 60161162001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/21/14 12:47	

LABORATORY CONTROL SAMPLE: 1320191

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	37.6	94	78-114	

MATRIX SPIKE SAMPLE: 1320192

Parameter	Units	60160806001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	41.2	38.7	92	78-114	

SAMPLE DUPLICATE: 1320193

Parameter	Units	60161153001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	56.7	45.6	22	18	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-194
Pace Project No.: 60161162

QC Batch: WET/45712 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 SGT-HEM, TPH
Associated Lab Samples: 60161162001

METHOD BLANK: 1320194 | Matrix: Water
Associated Lab Samples: 60161162001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	01/21/14 12:58	

LABORATORY CONTROL SAMPLE: 1320195

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	17.8	89	64-132	

MATRIX SPIKE SAMPLE: 1320196

Parameter	Units	60160806001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20.6	18.1	84	64-132	

SAMPLE DUPLICATE: 1320197

Parameter	Units	60161153001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	8.0	9.2	14	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-194
Pace Project No.: 60161162

QC Batch: WET/45685 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60161162001

METHOD BLANK: 1319717 | Matrix: Water
Associated Lab Samples: 60161162001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	01/20/14 07:58	

SAMPLE DUPLICATE: 1319718

Parameter	Units	60161106003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		25	

SAMPLE DUPLICATE: 1319719

Parameter	Units	60161090001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-194
Pace Project No.: 60161162

QC Batch: WET/45672
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 60161162001

SAMPLE DUPLICATE: 1319382

Parameter	Units	60161103001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.1	8.1	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-194
Pace Project No.: 60161162

QC Batch: WET/45630 | Analysis Method: SM 5210B
QC Batch Method: SM 5210B | Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 60161162001

METHOD BLANK: 1317821 | Matrix: Water
Associated Lab Samples: 60161162001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	01/20/14 10:26	

LABORATORY CONTROL SAMPLE: 1317822

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	181	92	85-115	

SAMPLE DUPLICATE: 1317823

Parameter	Units	60161153001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	28500	27900	2	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-194
Pace Project No.: 60161162

QC Batch: WETA/27882 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60161162001

METHOD BLANK: 1320470 | Matrix: Water
Associated Lab Samples: 60161162001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	01/22/14 10:06	

LABORATORY CONTROL SAMPLE: 1320471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	106	90-110	

MATRIX SPIKE SAMPLE: 1320472

Parameter	Units	60160905002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.8	91	90-110	

MATRIX SPIKE SAMPLE: 1320473

Parameter	Units	60160909003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.8	92	90-110	

SAMPLE DUPLICATE: 1320474

Parameter	Units	60160917001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	6.8	6.6	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-194
Pace Project No.: 60161162

QC Batch: WETA/27872 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 60161162001

METHOD BLANK: 1320034 | Matrix: Water
Associated Lab Samples: 60161162001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	01/21/14 16:08	

LABORATORY CONTROL SAMPLE: 1320035

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	45.4	91	90-110	

MATRIX SPIKE SAMPLE: 1320036

Parameter	Units	60161115002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	131	100	217	86	90-110	M1

SAMPLE DUPLICATE: 1320144

Parameter	Units	60161153001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	37000	36700	1	25	

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QUALIFIERS

Project: BRIDGETON LF 316-194
Pace Project No.: 60161162

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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

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ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-194
Pace Project No.: 60161162

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60161162001	**316-194**	EPA 200.7	MPRP/25910	EPA 200.7	ICP/19833
60161162001	**316-194**	EPA 200.7	MPRP/25909	EPA 200.7	ICP/19835
60161162001	**316-194**	EPA 245.1	MERP/8069	EPA 245.1	MERC/8023
60161162001	**316-194**	EPA 245.1	MERP/8070	EPA 245.1	MERC/8024
60161162001	**316-194**	EPA 625	OEXT/42265	EPA 625	MSSV/13454
60161162001	**316-194**	EPA 624 Low	MSV/58857		
60161162002	**TRIP BLANK**	EPA 624 Low	MSV/58857		
60161162001	**316-194**	EPA 1664A	WET/45711		
60161162001	**316-194**	EPA 1664A	WET/45712		
60161162001	**316-194**	SM 2540D	WET/45685		
60161162001	**316-194**	SM 4500-H+B	WET/45672		
60161162001	**316-194**	SM 5210B	WET/45630	SM 5210B	WET/45733
60161162001	**316-194**	EPA 350.1	WETA/27882		
60161162001	**316-194**	EPA 410.4	WETA/27872		

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Sample Condition Upon Receipt

WO#: 60161162

60161162

Client Name: Barr

Optional
Proj Due Date:
Proj Name:

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

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☑ None ☐ Other ☑ 2 PIC

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 1.0

Date and initials of person examining contents: PV 1/15/14

Temperature should be above freezing to 6°C

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 & signature on COC:	☑Yes ☐No ☐N/A	4.	
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.	
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6. BOD PH	
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.	
Sufficient volume:	☑Yes ☐No ☐N/A	8.	
Correct containers used:	☑Yes ☐No ☐N/A		
Pace containers used:	☑Yes ☐No ☐N/A	9.	
Containers intact:	☑Yes ☐No ☐N/A	10.	
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.	
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.	
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☑Yes ☐No ☐N/A	13.	
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	Added 2.5 mL of HNO3 to BP3N. pH 6.0/4.0 Added 2.0mL of H2SO4 to BP3S. pH 6.0/1.5	
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	14.	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed PV	Lot # of added preservative 12518 12573
Trip Blank present: Pace Trip Blank lot # (if purchased): COVER	☑Yes ☐No ☐N/A	15.	
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.	
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 1/15/14

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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.

Page : 1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: BARR ENGINEERING	Report To: ED GALBRAITH/BARR	Attention: JANET ROLLEN
Address:	Copy To: SCOTT FEDAK/FEEZOR	Company Name: REPUBLIC SERVICES
	DANA BAKER/MARGARET TREANOR -BARR	Address: BRIDGETON, MO 63044
Email To:	Purchase Order No. PO 3727110	Pace Quote Reference: 130426_7588
Phone: (816) 285-8410 Fax	Client Project ID: BRIDGETON LF	Pace Project Manager: Brown, Angie
Requested Due Date/TAT: 10 Day (Default)	Container Order Number:	Pace Profile #: 6787 LINE 2

Regulatory Agency
State / Location
Missouri

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N): COD EPA 410	pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B		Residual Chlorine (Y/N)	60161162
1	316-194 2AG4U 1BP3U 3AG3S	OT	G	1/14/14	1000				14	10	4	1	0	1BP3S	1.5			X	X	X	X	X	X	X	X	X	X	X	1BP3N pH<2	4°	2BP1U 5DG4U 2DG4U G1 G2
2	TRIP BLANK								2	2															X						
3																															
4																															
5																															
6																															METALS LIST total & LF Dis:
7																															Al,Sb,As,Be,Cd,Cr,
8																															Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn
9																															and Mercury
10																															
11																															
12																															

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	Sam Bircher / Feezor	1-14-14	1030	[illegible]	1-14-14	1430				
SITE ADDRESS: BRIDGETON LF	Andrea Robyk / Feezor	1-14-14	1430	~~[illegible] PACE~~	~~1/15/14~~	~~1430~~				
13570 ST. CHARLES ROCK RD				[illegible] PACE	1/15/14	0150	1.0	Y	Y	Y
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Sam Bircher					
SIGNATURE of SAMPLER: [signature]	DATE Signed: 1-14-14				

Pace Analytical Services, Inc.
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(913)599-5665

January 23, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-195
Pace Project No.: 60161305

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 16, 2014. 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,

Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

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CERTIFICATIONS

Project: BRIDGETON LF 316-195
Pace Project No.: 60161305

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-195
Pace Project No.: 60161305

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60161305001	**316-195**	Water	01/15/14 10:00	01/16/14 01:45
60161305002	**TRIP BLANK**	Water	01/15/14 10:00	01/16/14 01:45

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-195
Pace Project No.: 60161305

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60161305001	**316-195**	EPA 200.7	JGP, SMW	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	16
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC	1
		SM 4500-H+B	JML	1
		SM 5210B	RAH	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
60161305002	**TRIP BLANK**	EPA 624 Low	EAK	28

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-195
Pace Project No.: 60161305

Sample: 316-195 **Lab ID: 60161305001** Collected: 01/15/14 10:00 Received: 01/16/14 01:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	**13400**	ug/L	750	2	01/17/14 16:10	01/20/14 16:38	7429-90-5	
Antimony	ND	ug/L	50.0	1	01/17/14 16:10	01/20/14 16:36	7440-36-0	
Arsenic	**1200**	ug/L	50.0	1	01/17/14 16:10	01/20/14 16:36	7440-38-2	
Beryllium	ND	ug/L	5.0	1	01/17/14 16:10	01/21/14 15:27	7440-41-7	
Cadmium	ND	ug/L	25.0	1	01/17/14 16:10	01/20/14 16:36	7440-43-9	
Chromium	**314**	ug/L	25.0	1	01/17/14 16:10	01/20/14 16:36	7440-47-3	
Cobalt	**53.8**	ug/L	25.0	1	01/17/14 16:10	01/20/14 16:36	7440-48-4	
Copper	**60.5**	ug/L	50.0	1	01/17/14 16:10	01/20/14 16:36	7440-50-8	
Iron	**936000**	ug/L	250	1	01/17/14 16:10	01/20/14 16:36	7439-89-6	M1
Lead	**113**	ug/L	25.0	1	01/17/14 16:10	01/20/14 16:36	7439-92-1	
Nickel	**155**	ug/L	25.0	1	01/17/14 16:10	01/20/14 16:36	7440-02-0	
Selenium	ND	ug/L	75.0	1	01/17/14 16:10	01/20/14 16:36	7782-49-2	
Silver	ND	ug/L	35.0	1	01/17/14 16:10	01/20/14 16:36	7440-22-4	
Thallium	ND	ug/L	100	1	01/17/14 16:10	01/20/14 16:36	7440-28-0	
Zinc	**7950**	ug/L	250	1	01/17/14 16:10	01/20/14 16:36	7440-66-6	
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	**2040**	ug/L	750	2	01/20/14 16:55	01/21/14 13:20	7429-90-5	
Antimony, Dissolved	**52.2**	ug/L	50.0	1	01/20/14 16:55	01/21/14 13:17	7440-36-0	D9
Arsenic, Dissolved	**1030**	ug/L	50.0	1	01/20/14 16:55	01/21/14 13:17	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	01/20/14 16:55	01/21/14 13:17	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	01/20/14 16:55	01/21/14 13:17	7440-43-9	
Chromium, Dissolved	**234**	ug/L	25.0	1	01/20/14 16:55	01/21/14 13:17	7440-47-3	
Cobalt, Dissolved	**40.8**	ug/L	25.0	1	01/20/14 16:55	01/21/14 13:17	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	01/20/14 16:55	01/21/14 13:17	7440-50-8	
Iron, Dissolved	**643000**	ug/L	250	1	01/20/14 16:55	01/21/14 13:17	7439-89-6	
Lead, Dissolved	**70.6**	ug/L	25.0	1	01/20/14 16:55	01/21/14 13:17	7439-92-1	
Nickel, Dissolved	**111**	ug/L	25.0	1	01/20/14 16:55	01/21/14 13:17	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	01/20/14 16:55	01/21/14 13:17	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	01/20/14 16:55	01/21/14 13:17	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	01/20/14 16:55	01/21/14 13:17	7440-28-0	
Zinc, Dissolved	**7230**	ug/L	500	2	01/20/14 16:55	01/21/14 13:20	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	01/21/14 17:00	01/22/14 11:20	7439-97-6	
245.1 Mercury, Dissolved (LF)	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	6.0	1	01/23/14 09:30	01/23/14 12:31	7439-97-6	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	01/21/14 00:00	01/22/14 09:10	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	01/21/14 00:00	01/22/14 09:10	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	01/21/14 00:00	01/22/14 09:10	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	01/21/14 00:00	01/22/14 09:10	67-72-1	
Naphthalene	**1270**	ug/L	1000	2	01/21/14 00:00	01/22/14 09:10	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	01/21/14 00:00	01/22/14 09:10	98-95-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-195
Pace Project No.: 60161305

Sample: 316-195 **Lab ID: 60161305001** Collected: 01/15/14 10:00 Received: 01/16/14 01:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Pentachlorophenol	ND	ug/L	1000	2	01/21/14 00:00	01/22/14 09:10	87-86-5	
Phenol	**13100**	ug/L	1000	2	01/21/14 00:00	01/22/14 09:10	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	1000	2	01/21/14 00:00	01/22/14 09:10	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	1000	2	01/21/14 00:00	01/22/14 09:10	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	138	%	33-120	2	01/21/14 00:00	01/22/14 09:10	4165-60-0	S0
2-Fluorobiphenyl (S)	83	%	39-120	2	01/21/14 00:00	01/22/14 09:10	321-60-8	
Terphenyl-d14 (S)	79	%	45-120	2	01/21/14 00:00	01/22/14 09:10	1718-51-0	
Phenol-d6 (S)	43	%	11-120	2	01/21/14 00:00	01/22/14 09:10	13127-88-3	
2-Fluorophenol (S)	56	%	17-120	2	01/21/14 00:00	01/22/14 09:10	367-12-4	
2,4,6-Tribromophenol (S)	94	%	39-120	2	01/21/14 00:00	01/22/14 09:10	118-79-6	
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	**127000**	ug/L	2000	200		01/21/14 14:59	67-64-1	N2
Benzene	ND	ug/L	200	200		01/21/14 14:59	71-43-2	
Bromodichloromethane	ND	ug/L	200	200		01/21/14 14:59	75-27-4	
Bromoform	ND	ug/L	200	200		01/21/14 14:59	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/21/14 14:59	74-83-9	
2-Butanone (MEK)	**57700**	ug/L	2000	200		01/21/14 14:59	78-93-3	N2
Carbon tetrachloride	ND	ug/L	200	200		01/21/14 14:59	56-23-5	
Chloroethane	ND	ug/L	200	200		01/21/14 14:59	75-00-3	
Chloroform	ND	ug/L	200	200		01/21/14 14:59	67-66-3	
1,4-Dichlorobenzene	**788**	ug/L	200	200		01/21/14 14:59	106-46-7	
1,2-Dichloroethane	ND	ug/L	200	200		01/21/14 14:59	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/21/14 14:59	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/21/14 14:59	156-60-5	
Ethylbenzene	ND	ug/L	200	200		01/21/14 14:59	100-41-4	
Methylene chloride	ND	ug/L	200	200		01/21/14 14:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2600**	ug/L	2000	200		01/21/14 14:59	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		01/21/14 14:59	79-34-5	N2
Tetrachloroethene	ND	ug/L	200	200		01/21/14 14:59	127-18-4	
Toluene	ND	ug/L	200	200		01/21/14 14:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/21/14 14:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		01/21/14 14:59	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/21/14 14:59	79-01-6	
Vinyl chloride	ND	ug/L	200	200		01/21/14 14:59	75-01-4	
Xylene (Total)	ND	ug/L	600	200		01/21/14 14:59	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	102	%	80-120	200		01/21/14 14:59	460-00-4	
Toluene-d8 (S)	104	%	80-120	200		01/21/14 14:59	2037-26-5	
1,2-Dichloroethane-d4 (S)	97	%	80-120	200		01/21/14 14:59	17060-07-0	
Preservation pH	**6.0**		1.0	200		01/21/14 14:59		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	**830**	mg/L	5.0	1		01/22/14 10:02		M1

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-195
Pace Project No.: 60161305

Sample: 316-195 **Lab ID: 60161305001** Collected: 01/15/14 10:00 Received: 01/16/14 01:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	**20.8**	mg/L	5.0	1		01/23/14 13:51		M1
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**2880**	mg/L	5.0	1		01/21/14 07:44		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**5.3**	Std. Units	0.10	1		01/17/14 15:50		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**33300**	mg/L	2.0	1	01/17/14 09:34	01/22/14 14:36		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**626**	mg/L	20.0	200		01/22/14 14:56	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**66300**	mg/L	5000	500		01/23/14 14:08		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-195
Pace Project No.: 60161305

Sample: TRIP BLANK **Lab ID: 60161305002** Collected: 01/15/14 10:00 Received: 01/16/14 01:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	ND	ug/L	10.0	1		01/21/14 15:29	67-64-1	N2
Benzene	ND	ug/L	1.0	1		01/21/14 15:29	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		01/21/14 15:29	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/21/14 15:29	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/21/14 15:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/21/14 15:29	78-93-3	N2
Carbon tetrachloride	ND	ug/L	1.0	1		01/21/14 15:29	56-23-5	
Chloroethane	ND	ug/L	1.0	1		01/21/14 15:29	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/21/14 15:29	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/21/14 15:29	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/21/14 15:29	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/21/14 15:29	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/21/14 15:29	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/21/14 15:29	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		01/21/14 15:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/21/14 15:29	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/21/14 15:29	79-34-5	N2
Tetrachloroethene	ND	ug/L	1.0	1		01/21/14 15:29	127-18-4	
Toluene	ND	ug/L	1.0	1		01/21/14 15:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/21/14 15:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/21/14 15:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/21/14 15:29	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/21/14 15:29	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/21/14 15:29	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	105	%	80-120	1		01/21/14 15:29	460-00-4	
Toluene-d8 (S)	105	%	80-120	1		01/21/14 15:29	2037-26-5	
1,2-Dichloroethane-d4 (S)	97	%	80-120	1		01/21/14 15:29	17060-07-0	
Preservation pH	**6.0**		1.0	1		01/21/14 15:29		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-195
Pace Project No.: 60161305

QC Batch: MERP/8083 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury
Associated Lab Samples: 60161305001

METHOD BLANK: 1320333 | Matrix: Water
Associated Lab Samples: 60161305001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/22/14 11:15	

LABORATORY CONTROL SAMPLE: 1320334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.5	109	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1320335 1320336

Parameter	Units	60161372001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.2	3.7	84	73	70-130	14	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-195
Pace Project No.: 60161305

QC Batch: MERP/8085
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60161305001

METHOD BLANK: 1321045
Matrix: Water
Associated Lab Samples: 60161305001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	01/23/14 12:26	

LABORATORY CONTROL SAMPLE: 1321046

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.2	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1321047 1321048

Parameter	Units	10255223001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	<0.20 ppb	5	5	4.5	4.6	91	92	70-130	2	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-195
Pace Project No.: 60161305

QC Batch: MPRP/25930
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60161305001

METHOD BLANK: 1319215
Matrix: Water
Associated Lab Samples: 60161305001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	01/20/14 16:33	
Antimony	ug/L	ND	10.0	01/20/14 16:33	
Arsenic	ug/L	ND	10.0	01/20/14 16:33	
Beryllium	ug/L	ND	1.0	01/20/14 16:33	
Cadmium	ug/L	ND	5.0	01/20/14 16:33	
Chromium	ug/L	ND	5.0	01/20/14 16:33	
Cobalt	ug/L	ND	5.0	01/20/14 16:33	
Copper	ug/L	ND	10.0	01/20/14 16:33	
Iron	ug/L	ND	50.0	01/20/14 16:33	
Lead	ug/L	ND	5.0	01/20/14 16:33	
Nickel	ug/L	ND	5.0	01/20/14 16:33	
Selenium	ug/L	ND	15.0	01/20/14 16:33	
Silver	ug/L	ND	7.0	01/20/14 16:33	
Thallium	ug/L	ND	20.0	01/20/14 16:33	
Zinc	ug/L	ND	50.0	01/20/14 16:33	

LABORATORY CONTROL SAMPLE: 1319216

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10200	102	85-115	
Antimony	ug/L	1000	1030	103	85-115	
Arsenic	ug/L	1000	958	96	85-115	
Beryllium	ug/L	1000	1010	101	85-115	
Cadmium	ug/L	1000	987	99	85-115	
Chromium	ug/L	1000	1020	102	85-115	
Cobalt	ug/L	1000	1000	100	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	10200	102	85-115	
Lead	ug/L	1000	1040	104	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1010	101	85-115	
Silver	ug/L	500	515	103	85-115	
Thallium	ug/L	1000	1030	103	85-115	
Zinc	ug/L	1000	975	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1319217 1319218

Parameter	Units	60161305001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	13400	50000	50000	77900	74600	129	122	70-130	4	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-195
Pace Project No.: 60161305

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1319217 1319218

Parameter	Units	60161305001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	5000	5000	5240	5200	104	103	70-130	1	7	
Arsenic	ug/L	1200	5000	5000	6500	6400	106	104	70-130	2	10	
Beryllium	ug/L	ND	5000	5000	4900	4900	98	98	70-130	0	7	
Cadmium	ug/L	ND	5000	5000	5090	5050	101	101	70-130	1	10	
Chromium	ug/L	314	5000	5000	5360	5340	101	101	70-130	0	10	
Cobalt	ug/L	53.8	5000	5000	4700	4670	93	92	70-130	1	6	
Copper	ug/L	60.5	5000	5000	5420	5400	107	107	70-130	0	11	
Iron	ug/L	936000	50000	50000	1060000	1010000	240	142	70-130	5	10	M1
Lead	ug/L	113	5000	5000	4600	4590	90	90	70-130	0	10	
Nickel	ug/L	155	5000	5000	4890	4860	95	94	70-130	0	10	
Selenium	ug/L	ND	5000	5000	5930	5820	117	115	70-130	2	10	
Silver	ug/L	ND	2500	2500	2770	2750	111	110	70-130	1	10	
Thallium	ug/L	ND	5000	5000	3920	3920	78	78	70-130	0	6	
Zinc	ug/L	7950	5000	5000	12800	12300	97	87	70-130	4	11	

MATRIX SPIKE SAMPLE: 1319219

Parameter	Units	60161263001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	862	10000	11400	106	70-130	
Antimony	ug/L	ND	1000	1020	102	70-130	
Arsenic	ug/L	ND	1000	967	97	70-130	
Beryllium	ug/L	ND	1000	1000	100	70-130	
Cadmium	ug/L	ND	1000	972	97	70-130	
Chromium	ug/L	ND	1000	1000	100	70-130	
Cobalt	ug/L	ND	1000	940	94	70-130	
Copper	ug/L	57.1	1000	1110	105	70-130	
Iron	ug/L	4070	10000	14000	99	70-130	
Lead	ug/L	16.5	1000	969	95	70-130	
Nickel	ug/L	16.4	1000	979	96	70-130	
Selenium	ug/L	ND	1000	989	99	70-130	
Silver	ug/L	ND	500	522	104	70-130	
Thallium	ug/L	ND	1000	897	90	70-130	
Zinc	ug/L	494	1000	1390	89	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-195
Pace Project No.: 60161305

QC Batch: MPRP/25938
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60161305001

METHOD BLANK: 1319405
Matrix: Water
Associated Lab Samples: 60161305001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	01/21/14 15:14	
Antimony, Dissolved	ug/L	ND	10.0	01/21/14 12:58	
Arsenic, Dissolved	ug/L	ND	10.0	01/21/14 12:58	
Beryllium, Dissolved	ug/L	ND	1.0	01/21/14 12:58	
Cadmium, Dissolved	ug/L	ND	5.0	01/21/14 12:58	
Chromium, Dissolved	ug/L	ND	5.0	01/21/14 12:58	
Cobalt, Dissolved	ug/L	ND	5.0	01/21/14 12:58	
Copper, Dissolved	ug/L	ND	10.0	01/21/14 12:58	
Iron, Dissolved	ug/L	ND	50.0	01/21/14 12:58	
Lead, Dissolved	ug/L	ND	5.0	01/21/14 12:58	
Nickel, Dissolved	ug/L	ND	5.0	01/21/14 12:58	
Selenium, Dissolved	ug/L	ND	15.0	01/21/14 12:58	
Silver, Dissolved	ug/L	ND	7.0	01/21/14 12:58	
Thallium, Dissolved	ug/L	ND	20.0	01/21/14 12:58	
Zinc, Dissolved	ug/L	ND	50.0	01/21/14 12:58	

LABORATORY CONTROL SAMPLE: 1319406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10200	102	85-115	
Antimony, Dissolved	ug/L	1000	1040	104	85-115	
Arsenic, Dissolved	ug/L	1000	987	99	85-115	
Beryllium, Dissolved	ug/L	1000	1040	104	85-115	
Cadmium, Dissolved	ug/L	1000	1020	102	85-115	
Chromium, Dissolved	ug/L	1000	1030	103	85-115	
Cobalt, Dissolved	ug/L	1000	1060	106	85-115	
Copper, Dissolved	ug/L	1000	1020	102	85-115	
Iron, Dissolved	ug/L	10000	10300	103	85-115	
Lead, Dissolved	ug/L	1000	1060	106	85-115	
Nickel, Dissolved	ug/L	1000	1060	106	85-115	
Selenium, Dissolved	ug/L	1000	1040	104	85-115	
Silver, Dissolved	ug/L	500	509	102	85-115	
Thallium, Dissolved	ug/L	1000	1070	107	85-115	
Zinc, Dissolved	ug/L	1000	1020	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1319407 1319408

Parameter	Units	60161316001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	ND	10000	10000	10400	10400	104	104	70-130	1	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-195
Pace Project No.: 60161305

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1319407 1319408

Parameter	Units	60161316001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	1000	1000	1070	1070	107	107	70-130	0	7	
Arsenic, Dissolved	ug/L	ND	1000	1000	1040	1040	104	104	70-130	0	10	
Beryllium, Dissolved	ug/L	ND	1000	1000	1050	1050	105	105	70-130	0	7	
Cadmium, Dissolved	ug/L	ND	1000	1000	1040	1030	103	103	70-130	1	10	
Chromium, Dissolved	ug/L	ND	1000	1000	1020	1020	102	102	70-130	0	10	
Cobalt, Dissolved	ug/L	ND	1000	1000	1040	1040	104	104	70-130	0	6	
Copper, Dissolved	ug/L	ND	1000	1000	1040	1040	104	103	70-130	1	11	
Iron, Dissolved	ug/L	ND	10000	10000	10100	10100	101	101	70-130	1	10	
Lead, Dissolved	ug/L	ND	1000	1000	1020	1010	102	101	70-130	0	10	
Nickel, Dissolved	ug/L	ND	1000	1000	1030	1030	103	102	70-130	0	10	
Selenium, Dissolved	ug/L	ND	1000	1000	1070	1070	107	107	70-130	0	10	
Silver, Dissolved	ug/L	ND	500	500	521	519	104	104	70-130	0	10	
Thallium, Dissolved	ug/L	ND	1000	1000	967	962	97	96	70-130	1	6	
Zinc, Dissolved	ug/L	ND	1000	1000	1010	1010	101	101	70-130	0	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-195
Pace Project No.: 60161305

QC Batch: MSV/58942 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60161305001, 60161305002

METHOD BLANK: 1320255 | Matrix: Water
Associated Lab Samples: 60161305001, 60161305002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/21/14 14:44	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/21/14 14:44	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/21/14 14:44	
1,2-Dichloroethane	ug/L	ND	1.0	01/21/14 14:44	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/21/14 14:44	
2-Butanone (MEK)	ug/L	ND	10.0	01/21/14 14:44	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/21/14 14:44	N2
Acetone	ug/L	ND	10.0	01/21/14 14:44	N2
Benzene	ug/L	ND	1.0	01/21/14 14:44	
Bromodichloromethane	ug/L	ND	1.0	01/21/14 14:44	
Bromoform	ug/L	ND	1.0	01/21/14 14:44	
Bromomethane	ug/L	ND	5.0	01/21/14 14:44	
Carbon tetrachloride	ug/L	ND	1.0	01/21/14 14:44	
Chloroethane	ug/L	ND	1.0	01/21/14 14:44	
Chloroform	ug/L	ND	1.0	01/21/14 14:44	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/21/14 14:44	N2
Ethylbenzene	ug/L	ND	1.0	01/21/14 14:44	
Methylene chloride	ug/L	ND	1.0	01/21/14 14:44	
Tetrachloroethene	ug/L	ND	1.0	01/21/14 14:44	
Toluene	ug/L	ND	1.0	01/21/14 14:44	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/21/14 14:44	
Trichloroethene	ug/L	ND	1.0	01/21/14 14:44	
Vinyl chloride	ug/L	ND	1.0	01/21/14 14:44	
Xylene (Total)	ug/L	ND	3.0	01/21/14 14:44	N2
1,2-Dichloroethane-d4 (S)	%	92	80-120	01/21/14 14:44	
4-Bromofluorobenzene (S)	%	102	80-120	01/21/14 14:44	
Toluene-d8 (S)	%	103	80-120	01/21/14 14:44	

LABORATORY CONTROL SAMPLE: 1320256

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.5	102	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	59-138	N2
1,1,2-Trichloroethane	ug/L	20	19.8	99	69-127	
1,2-Dichloroethane	ug/L	20	20.1	101	71-129	
1,4-Dichlorobenzene	ug/L	20	19.1	96	68-124	
2-Butanone (MEK)	ug/L	100	82.8	83	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.6	93	61-120	N2
Acetone	ug/L	100	76.4	76	40-160	N2
Benzene	ug/L	20	20.0	100	73-129	
Bromodichloromethane	ug/L	20	20.5	102	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-195
Pace Project No.: 60161305

LABORATORY CONTROL SAMPLE: 1320256

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.9	99	52-123	
Bromomethane	ug/L	20	18.4	92	10-160	
Carbon tetrachloride	ug/L	20	21.4	107	70-140	
Chloroethane	ug/L	20	21.3	107	42-160	
Chloroform	ug/L	20	22.2	111	60-120	
cis-1,2-Dichloroethene	ug/L	20	21.1	105	70-125	N2
Ethylbenzene	ug/L	20	19.3	97	66-133	
Methylene chloride	ug/L	20	21.1	105	56-135	
Tetrachloroethene	ug/L	20	18.4	92	64-143	
Toluene	ug/L	20	19.8	99	70-130	
trans-1,2-Dichloroethene	ug/L	20	21.1	105	67-149	
Trichloroethene	ug/L	20	20.6	103	71-130	
Vinyl chloride	ug/L	20	21.6	108	41-160	
Xylene (Total)	ug/L	60	58.4	97	67-130	N2
1,2-Dichloroethane-d4 (S)	%			103	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Toluene-d8 (S)	%			101	80-120	

MATRIX SPIKE SAMPLE: 1320257

Parameter	Units	60161305001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4190	105	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3820	95	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4070	102	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3780	95	49-155	
1,4-Dichlorobenzene	ug/L	788	4000	4600	95	18-147	
2-Butanone (MEK)	ug/L	57700	20000	79800	111	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	2600	20000	21400	94	40-160	N2
Acetone	ug/L	127000	20000	151000	117	40-160	N2
Benzene	ug/L	ND	4000	4000	99	37-151	
Bromodichloromethane	ug/L	ND	4000	4040	101	35-155	
Bromoform	ug/L	ND	4000	3680	92	45-133	
Bromomethane	ug/L	ND	4000	3550	89	10-160	
Carbon tetrachloride	ug/L	ND	4000	4500	112	70-140	
Chloroethane	ug/L	ND	4000	4170	104	14-160	
Chloroform	ug/L	ND	4000	4460	111	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	4090	102	19-160	N2
Ethylbenzene	ug/L	ND	4000	3830	93	37-154	
Methylene chloride	ug/L	ND	4000	4110	100	15-156	
Tetrachloroethene	ug/L	ND	4000	3900	98	64-148	
Toluene	ug/L	ND	4000	3950	97	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4290	107	54-156	
Trichloroethene	ug/L	ND	4000	4320	108	71-157	
Vinyl chloride	ug/L	ND	4000	4540	113	10-160	
Xylene (Total)	ug/L	ND	12000	11800	99	12-153	N2
1,2-Dichloroethane-d4 (S)	%				99	80-120	
4-Bromofluorobenzene (S)	%				100	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-195
Pace Project No.: 60161305

MATRIX SPIKE SAMPLE: 1320257

Parameter	Units	60161305001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				102	80-120	
Preservation pH		6.0		6.0			

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

QUALITY CONTROL DATA

Project: BRIDGETON LF 316-195
Pace Project No.: 60161305

QC Batch: OEXT/42315 | Analysis Method: EPA 625
QC Batch Method: EPA 625 | Analysis Description: 625 MSS
Associated Lab Samples: 60161305001

METHOD BLANK: 1319889 | Matrix: Water
Associated Lab Samples: 60161305001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/22/14 08:07	
2,4,6-Trichlorophenol	ug/L	ND	5.0	01/22/14 08:07	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	01/22/14 08:07	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/22/14 08:07	
Hexachlorocyclopentadiene	ug/L	ND	5.0	01/22/14 08:07	
Hexachloroethane	ug/L	ND	5.0	01/22/14 08:07	
Naphthalene	ug/L	ND	5.0	01/22/14 08:07	
Nitrobenzene	ug/L	ND	5.0	01/22/14 08:07	
Pentachlorophenol	ug/L	ND	5.0	01/22/14 08:07	
Phenol	ug/L	ND	5.0	01/22/14 08:07	
2,4,6-Tribromophenol (S)	%	86	39-120	01/22/14 08:07	
2-Fluorobiphenyl (S)	%	84	39-120	01/22/14 08:07	
2-Fluorophenol (S)	%	44	17-120	01/22/14 08:07	
Nitrobenzene-d5 (S)	%	81	33-120	01/22/14 08:07	
Phenol-d6 (S)	%	28	11-120	01/22/14 08:07	
Terphenyl-d14 (S)	%	85	45-120	01/22/14 08:07	

LABORATORY CONTROL SAMPLE: 1319890

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	38.8	78	46-120	
2,4,6-Trichlorophenol	ug/L	50	41.5	83	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	44.9	90	40-133	
Hexachloro-1,3-butadiene	ug/L	50	36.4	73	44-116	
Hexachlorocyclopentadiene	ug/L	100	57.8	58	24-120	
Hexachloroethane	ug/L	50	34.4	69	43-113	
Naphthalene	ug/L	50	39.4	79	48-120	
Nitrobenzene	ug/L	50	38.5	77	48-120	
Pentachlorophenol	ug/L	50	37.4	75	47-120	
Phenol	ug/L	50	14.0	28	16-112	
2,4,6-Tribromophenol (S)	%			88	39-120	
2-Fluorobiphenyl (S)	%			81	39-120	
2-Fluorophenol (S)	%			40	17-120	
Nitrobenzene-d5 (S)	%			82	33-120	
Phenol-d6 (S)	%			25	11-120	
Terphenyl-d14 (S)	%			84	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-195
Pace Project No.: 60161305

MATRIX SPIKE SAMPLE: 1319891

Parameter	Units	60161305001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	4050	81	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4260	85	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4250J	85	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3850	77	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	7590	76	11-120	
Hexachloroethane	ug/L	ND	5000	3860	77	40-113	
Naphthalene	ug/L	1270	5000	5200	79	45-120	
Nitrobenzene	ug/L	ND	5000	4940	99	38-120	
Pentachlorophenol	ug/L	ND	5000	4550	91	43-135	
Phenol	ug/L	13100	5000	14700	31	13-112	
2,4,6-Tribromophenol (S)	%				91	39-120	
2-Fluorobiphenyl (S)	%				82	39-120	
2-Fluorophenol (S)	%				57	17-120	
Nitrobenzene-d5 (S)	%				142	33-120	S0
Phenol-d6 (S)	%				50	11-120	
Terphenyl-d14 (S)	%				77	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-195
Pace Project No.: 60161305

QC Batch: WET/45730
QC Batch Method: EPA 1664A
Analysis Method: EPA 1664A
Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60161305001

METHOD BLANK: 1320515
Matrix: Water
Associated Lab Samples: 60161305001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/22/14 09:58	

LABORATORY CONTROL SAMPLE: 1320516

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	37.2	93	78-114	

MATRIX SPIKE SAMPLE: 1320518

Parameter	Units	60161305001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	830	160	1200	230	78-114	M1

SAMPLE DUPLICATE: 1320531

Parameter	Units	60161037015 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	61.6	65.1	6	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-195
Pace Project No.: 60161305

QC Batch: WET/45767 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 SGT-HEM, TPH
Associated Lab Samples: 60161305001

METHOD BLANK: 1321323 | Matrix: Water
Associated Lab Samples: 60161305001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	01/23/14 13:51	

LABORATORY CONTROL SAMPLE: 1321324

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	18.8	94	64-132	

MATRIX SPIKE SAMPLE: 1321325

Parameter	Units	60161305001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20.8	80	70.0	61	64-132	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-195
Pace Project No.: 60161305

QC Batch: WET/45687
QC Batch Method: SM 2540D
Analysis Method: SM 2540D
Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60161305001

METHOD BLANK: 1319723
Matrix: Water
Associated Lab Samples: 60161305001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	01/21/14 07:41	

SAMPLE DUPLICATE: 1319724

Parameter	Units	5092428001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	48.0	42.0	13	25	

SAMPLE DUPLICATE: 1319725

Parameter	Units	60161207001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	588	642	9	25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-195
Pace Project No.: 60161305

QC Batch: WET/45672
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 60161305001

SAMPLE DUPLICATE: 1319382

Parameter	Units	60161103001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.1	8.1	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-195
Pace Project No.: 60161305

QC Batch: WET/45665 | Analysis Method: SM 5210B
QC Batch Method: SM 5210B | Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 60161305001

METHOD BLANK: 1318868 | Matrix: Water
Associated Lab Samples: 60161305001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	01/22/14 13:34	

LABORATORY CONTROL SAMPLE: 1318869

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	209	106	85-115	

SAMPLE DUPLICATE: 1318870

Parameter	Units	60161225004 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	74.0	88.4	18	17	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-195
Pace Project No.: 60161305

QC Batch: WETA/27885 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60161305001

METHOD BLANK: 1320493 | Matrix: Water
Associated Lab Samples: 60161305001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	01/22/14 14:29	

LABORATORY CONTROL SAMPLE: 1320494

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	100	90-110	

MATRIX SPIKE SAMPLE: 1320495

Parameter	Units	60161208001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.8	92	90-110	

MATRIX SPIKE SAMPLE: 1320496

Parameter	Units	60161209001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.7	87	90-110	M1

SAMPLE DUPLICATE: 1320497

Parameter	Units	60161212001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-195
Pace Project No.: 60161305

QC Batch: WETA/27850 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 60161305001

METHOD BLANK: 1318878 | Matrix: Water
Associated Lab Samples: 60161305001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	01/23/14 13:44	

LABORATORY CONTROL SAMPLE: 1318879

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	54.6	109	90-110	

MATRIX SPIKE SAMPLE: 1321096

Parameter	Units	60160896001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	2810	2500	5600	112	90-110	M1

SAMPLE DUPLICATE: 1321095

Parameter	Units	60160949001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	887	927	4	25	

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QUALIFIERS

Project: BRIDGETON LF 316-195
Pace Project No.: 60161305

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

ANALYTE QUALIFIERS

D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
D9	Dissolved result is greater than the total. Data is within laboratory control limits.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-195
Pace Project No.: 60161305

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60161305001	**316-195**	EPA 200.7	MPRP/25930	EPA 200.7	ICP/19843
60161305001	**316-195**	EPA 200.7	MPRP/25938	EPA 200.7	ICP/19855
60161305001	**316-195**	EPA 245.1	MERP/8083	EPA 245.1	MERC/8037
60161305001	**316-195**	EPA 245.1	MERP/8085	EPA 245.1	MERC/8041
60161305001	**316-195**	EPA 625	OEXT/42315	EPA 625	MSSV/13469
60161305001	**316-195**	EPA 624 Low	MSV/58942		
60161305002	**TRIP BLANK**	EPA 624 Low	MSV/58942		
60161305001	**316-195**	EPA 1664A	WET/45730		
60161305001	**316-195**	EPA 1664A	WET/45767		
60161305001	**316-195**	SM 2540D	WET/45687		
60161305001	**316-195**	SM 4500-H+B	WET/45672		
60161305001	**316-195**	SM 5210B	WET/45665	SM 5210B	WET/45765
60161305001	**316-195**	EPA 350.1	WETA/27885		
60161305001	**316-195**	EPA 410.4	WETA/27850		

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Sample Condition Upon Receipt

WO#: 60161305
60161305

Client Name: Barr

Optional
Proj Due Date:
Proj Name:

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

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☑ None ☐ Other ☑ zplc

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.6

Date and initials of person examining contents: 12/16/14

Temperature should be above freezing to 6°C

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 & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6. pH Bod
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☑Yes ☐No ☐N/A	13.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	Added 2.5 mL of HNO3 to BP3N. pH 6.0/4.0 Added 2.0 mL of H2SO4 to BP3S. pH 6.0/3.0
All containers needing preservation are found to be in compliance with EPA recommendation.	~~☑Yes~~ ☑No ☐N/A PN/16/14	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed PN Lot # of added preservative 12513/12518
Trip Blank present: Pace Trip Blank lot # (if purchased): cover	☑Yes ☐No ☐N/A	15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: MW for AKB Date: 1/16/14

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	BARR ENGINEERING	Report To:	ED GALBRAITH/BARR	Attention:	JANET ROLLEN
Address:		Copy To:	SCOTT FEDAK/FEEZOR	Company Name:	REPUBLIC SERVICES
			DANA BAKER/MARGARET TREANOR -BARR	Address:	BRIDGETON, MO 63044
Email To:		Purchase Order No.	PO 3727110	Pace Quote Reference:	130426_7588
Phone:	(816) 285-8410 Fax	Client Project ID:	BRIDGETON LF	Pace Project Manager:	Brown, Angie
Requested Due Date/TAT:	10 Day (Default)	Container Order Number:		Pace Profile #:	6787 LINE 2

Regulatory Agency	
State / Location	
Missouri	

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N: COD EPA 410	pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B		Residual Chlorine (Y/N)	60161305
1	316-195 2AG4U 1BP3U 3AG3S	OT	G	1/15/14	1000		1BP4N 1BP3N	1BP3S 3-0	14	10	4	1	0	5	2AG4U			X	X	X	X	X	X	X	X	X	X	X	2BP1U		601
2	TRIP BLANK								2	2															X						~~2BG4U~~ 2DG4U 602
3																															1/16/14
4																															
5																															
6																															METALS LIST total & LF Dis:
7																															Al,Sb,As,Be,Cd,Cr,
8																															Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn
9																															and Mercury
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	Sam Bircher/Feezor	1-15-14	1115	Andrew Rolle/Feezor	1-15-14	1115				
SITE ADDRESS: BRIDGETON LF	Andrew Rolle/Feezor	1-15-14	1425	Bernadette Flaath	1-15-14	1425				
13570 ST. CHARLES ROCK RD				[illegible] PACE	1/16/14	0145	2-6	Y	Y	Y
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Sam Bircher					
SIGNATURE of SAMPLER: [signature]	DATE Signed: 1-15-14				

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January 24, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-196R1
Pace Project No.: 60161402

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 17, 2014. 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,

Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-196R1
Pace Project No.: 60161402

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-196R1
Pace Project No.: 60161402

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60161402001	**316-196R1**	Water	01/16/14 11:30	01/17/14 01:00
60161402002	**TRIP BLANK**	Water	01/16/14 11:30	01/17/14 01:00

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-196R1
Pace Project No.: 60161402

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60161402001	**316-196R1**	EPA 200.7	JGP	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	16
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC	1
		SM 4500-H+B	AJM	1
		SM 5210B	JML	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
60161402002	**TRIP BLANK**	EPA 624 Low	EAK	28

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-196R1
Pace Project No.: 60161402

Sample: 316-196R1 **Lab ID: 60161402001** Collected: 01/16/14 11:30 Received: 01/17/14 01:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	**8130**	ug/L	750	2	01/21/14 11:30	01/22/14 15:21	7429-90-5	
Antimony	**78.8**	ug/L	50.0	1	01/21/14 11:30	01/23/14 12:41	7440-36-0	
Arsenic	**957**	ug/L	50.0	1	01/21/14 11:30	01/22/14 15:18	7440-38-2	
Beryllium	ND	ug/L	5.0	1	01/21/14 11:30	01/22/14 15:18	7440-41-7	
Cadmium	ND	ug/L	25.0	1	01/21/14 11:30	01/23/14 12:41	7440-43-9	
Chromium	**291**	ug/L	25.0	1	01/21/14 11:30	01/22/14 15:18	7440-47-3	
Cobalt	**51.3**	ug/L	25.0	1	01/21/14 11:30	01/22/14 15:18	7440-48-4	
Copper	ND	ug/L	50.0	1	01/21/14 11:30	01/22/14 15:18	7440-50-8	
Iron	**942000**	ug/L	250	1	01/21/14 11:30	01/22/14 15:18	7439-89-6	M1
Lead	**177**	ug/L	25.0	1	01/21/14 11:30	01/23/14 12:41	7439-92-1	
Nickel	**121**	ug/L	25.0	1	01/21/14 11:30	01/23/14 12:41	7440-02-0	
Selenium	ND	ug/L	75.0	1	01/21/14 11:30	01/22/14 15:18	7782-49-2	
Silver	ND	ug/L	35.0	1	01/21/14 11:30	01/22/14 15:18	7440-22-4	
Thallium	ND	ug/L	200	2	01/21/14 11:30	01/23/14 12:44	7440-28-0	D3
Zinc	**7860**	ug/L	500	2	01/21/14 11:30	01/23/14 12:44	7440-66-6	
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	**1970**	ug/L	750	2	01/20/14 16:55	01/21/14 13:24	7429-90-5	
Antimony, Dissolved	**50.8**	ug/L	50.0	1	01/20/14 16:55	01/21/14 13:22	7440-36-0	
Arsenic, Dissolved	**950**	ug/L	50.0	1	01/20/14 16:55	01/21/14 13:22	7440-38-2	
Beryllium, Dissolved	ND	ug/L	10.0	2	01/20/14 16:55	01/21/14 13:24	7440-41-7	D3
Cadmium, Dissolved	ND	ug/L	25.0	1	01/20/14 16:55	01/21/14 13:22	7440-43-9	
Chromium, Dissolved	**224**	ug/L	25.0	1	01/20/14 16:55	01/21/14 13:22	7440-47-3	
Cobalt, Dissolved	**35.8**	ug/L	25.0	1	01/20/14 16:55	01/21/14 13:22	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	01/20/14 16:55	01/21/14 13:22	7440-50-8	
Iron, Dissolved	**587000**	ug/L	250	1	01/20/14 16:55	01/21/14 13:22	7439-89-6	
Lead, Dissolved	**78.2**	ug/L	25.0	1	01/20/14 16:55	01/21/14 13:22	7439-92-1	
Nickel, Dissolved	**99.0**	ug/L	25.0	1	01/20/14 16:55	01/21/14 13:22	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	01/20/14 16:55	01/21/14 13:22	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	01/20/14 16:55	01/21/14 13:22	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	01/20/14 16:55	01/21/14 13:22	7440-28-0	
Zinc, Dissolved	**6960**	ug/L	500	2	01/20/14 16:55	01/21/14 13:24	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	0.20	1	01/21/14 17:00	01/22/14 11:22	7439-97-6	
245.1 Mercury, Dissolved (LF)	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	6.0	1	01/23/14 09:30	01/23/14 12:33	7439-97-6	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	01/21/14 00:00	01/22/14 09:31	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	01/21/14 00:00	01/22/14 09:31	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	01/21/14 00:00	01/22/14 09:31	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	01/21/14 00:00	01/22/14 09:31	67-72-1	
Naphthalene	**1780**	ug/L	1000	2	01/21/14 00:00	01/22/14 09:31	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	01/21/14 00:00	01/22/14 09:31	98-95-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-196R1
Pace Project No.: 60161402

Sample: 316-196R1 **Lab ID: 60161402001** Collected: 01/16/14 11:30 Received: 01/17/14 01:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Pentachlorophenol	ND	ug/L	1000	2	01/21/14 00:00	01/22/14 09:31	87-86-5	
Phenol	**11600**	ug/L	1000	2	01/21/14 00:00	01/22/14 09:31	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	1000	2	01/21/14 00:00	01/22/14 09:31	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	1000	2	01/21/14 00:00	01/22/14 09:31	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	142	%	33-120	2	01/21/14 00:00	01/22/14 09:31	4165-60-0	S0
2-Fluorobiphenyl (S)	85	%	39-120	2	01/21/14 00:00	01/22/14 09:31	321-60-8	
Terphenyl-d14 (S)	75	%	45-120	2	01/21/14 00:00	01/22/14 09:31	1718-51-0	
Phenol-d6 (S)	29	%	11-120	2	01/21/14 00:00	01/22/14 09:31	13127-88-3	
2-Fluorophenol (S)	56	%	17-120	2	01/21/14 00:00	01/22/14 09:31	367-12-4	
2,4,6-Tribromophenol (S)	94	%	39-120	2	01/21/14 00:00	01/22/14 09:31	118-79-6	
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	**137000**	ug/L	2000	200		01/21/14 15:44	67-64-1	N2
Benzene	ND	ug/L	200	200		01/21/14 15:44	71-43-2	
Bromodichloromethane	ND	ug/L	200	200		01/21/14 15:44	75-27-4	
Bromoform	ND	ug/L	200	200		01/21/14 15:44	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/21/14 15:44	74-83-9	
2-Butanone (MEK)	**61800**	ug/L	2000	200		01/21/14 15:44	78-93-3	N2
Carbon tetrachloride	ND	ug/L	200	200		01/21/14 15:44	56-23-5	
Chloroethane	ND	ug/L	200	200		01/21/14 15:44	75-00-3	
Chloroform	ND	ug/L	200	200		01/21/14 15:44	67-66-3	
1,4-Dichlorobenzene	**876**	ug/L	200	200		01/21/14 15:44	106-46-7	
1,2-Dichloroethane	ND	ug/L	200	200		01/21/14 15:44	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/21/14 15:44	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/21/14 15:44	156-60-5	
Ethylbenzene	ND	ug/L	200	200		01/21/14 15:44	100-41-4	
Methylene chloride	ND	ug/L	200	200		01/21/14 15:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2950**	ug/L	2000	200		01/21/14 15:44	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		01/21/14 15:44	79-34-5	N2
Tetrachloroethene	ND	ug/L	200	200		01/21/14 15:44	127-18-4	
Toluene	ND	ug/L	200	200		01/21/14 15:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/21/14 15:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		01/21/14 15:44	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/21/14 15:44	79-01-6	
Vinyl chloride	ND	ug/L	200	200		01/21/14 15:44	75-01-4	
Xylene (Total)	**639**	ug/L	600	200		01/21/14 15:44	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	200		01/21/14 15:44	460-00-4	
Toluene-d8 (S)	104	%	80-120	200		01/21/14 15:44	2037-26-5	
1,2-Dichloroethane-d4 (S)	103	%	80-120	200		01/21/14 15:44	17060-07-0	
Preservation pH	**6.0**		1.0	200		01/21/14 15:44		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	**1750**	mg/L	5.0	1		01/24/14 08:18		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-196R1
Pace Project No.: 60161402

Sample: 316-196R1 **Lab ID: 60161402001** Collected: 01/16/14 11:30 Received: 01/17/14 01:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	**12.8**	mg/L	5.0	1		01/24/14 08:21		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**1680**	mg/L	5.0	1		01/22/14 14:20		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**5.4**	Std. Units	0.10	1		01/18/14 11:15		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**32800**	mg/L	2.0	1	01/17/14 16:53	01/22/14 16:26		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**644**	mg/L	20.0	200		01/22/14 14:59	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**58300**	mg/L	5000	500		01/24/14 08:20		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-196R1
Pace Project No.: 60161402

Sample: TRIP BLANK **Lab ID: 60161402002** Collected: 01/16/14 11:30 Received: 01/17/14 01:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	ND	ug/L	10.0	1		01/21/14 15:59	67-64-1	N2
Benzene	ND	ug/L	1.0	1		01/21/14 15:59	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		01/21/14 15:59	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/21/14 15:59	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/21/14 15:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/21/14 15:59	78-93-3	N2
Carbon tetrachloride	ND	ug/L	1.0	1		01/21/14 15:59	56-23-5	
Chloroethane	ND	ug/L	1.0	1		01/21/14 15:59	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/21/14 15:59	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/21/14 15:59	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/21/14 15:59	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/21/14 15:59	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/21/14 15:59	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/21/14 15:59	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		01/21/14 15:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/21/14 15:59	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/21/14 15:59	79-34-5	N2
Tetrachloroethene	ND	ug/L	1.0	1		01/21/14 15:59	127-18-4	
Toluene	ND	ug/L	1.0	1		01/21/14 15:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/21/14 15:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/21/14 15:59	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/21/14 15:59	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/21/14 15:59	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/21/14 15:59	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	105	%	80-120	1		01/21/14 15:59	460-00-4	
Toluene-d8 (S)	105	%	80-120	1		01/21/14 15:59	2037-26-5	
1,2-Dichloroethane-d4 (S)	98	%	80-120	1		01/21/14 15:59	17060-07-0	
Preservation pH	**6.0**		1.0	1		01/21/14 15:59		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-196R1
Pace Project No.: 60161402

QC Batch: MERP/8083 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury
Associated Lab Samples: 60161402001

METHOD BLANK: 1320333 | Matrix: Water
Associated Lab Samples: 60161402001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/22/14 11:15	

LABORATORY CONTROL SAMPLE: 1320334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.5	109	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1320335 1320336

Parameter	Units	60161372001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.2	3.7	84	73	70-130	14	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-196R1
Pace Project No.: 60161402

QC Batch: MERP/8085
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60161402001

METHOD BLANK: 1321045
Matrix: Water
Associated Lab Samples: 60161402001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	01/23/14 12:26	

LABORATORY CONTROL SAMPLE: 1321046

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.2	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1321047 1321048

Parameter	Units	10255223001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	<0.20 ppb	5	5	4.5	4.6	91	92	70-130	2	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-196R1
Pace Project No.: 60161402

QC Batch: MPRP/25945
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60161402001

METHOD BLANK: 1319959
Matrix: Water
Associated Lab Samples: 60161402001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	01/22/14 15:01	
Antimony	ug/L	ND	10.0	01/23/14 12:34	
Arsenic	ug/L	ND	10.0	01/22/14 15:01	
Beryllium	ug/L	ND	1.0	01/22/14 15:01	
Cadmium	ug/L	ND	5.0	01/23/14 12:34	
Chromium	ug/L	ND	5.0	01/22/14 15:01	
Cobalt	ug/L	ND	5.0	01/22/14 15:01	
Copper	ug/L	ND	10.0	01/22/14 15:01	
Iron	ug/L	ND	50.0	01/22/14 15:01	
Lead	ug/L	ND	5.0	01/23/14 12:34	
Nickel	ug/L	ND	5.0	01/23/14 12:34	
Selenium	ug/L	ND	15.0	01/22/14 15:01	
Silver	ug/L	ND	7.0	01/22/14 15:01	
Thallium	ug/L	ND	20.0	01/23/14 12:34	
Zinc	ug/L	ND	50.0	01/23/14 12:34	

LABORATORY CONTROL SAMPLE: 1319960

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10100	101	85-115	
Antimony	ug/L	1000	1030	103	85-115	
Arsenic	ug/L	1000	983	98	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1000	100	85-115	
Chromium	ug/L	1000	1000	100	85-115	
Cobalt	ug/L	1000	991	99	85-115	
Copper	ug/L	1000	982	98	85-115	
Iron	ug/L	10000	9990	100	85-115	
Lead	ug/L	1000	1020	102	85-115	
Nickel	ug/L	1000	1040	104	85-115	
Selenium	ug/L	1000	1000	100	85-115	
Silver	ug/L	500	498	100	85-115	
Thallium	ug/L	1000	959	96	85-115	
Zinc	ug/L	1000	1040	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1319961 1319962

Parameter	Units	60161402001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	8130	50000	50000	67600	69000	119	122	70-130	2	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-196R1
Pace Project No.: 60161402

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1319961 1319962

Parameter	Units	60161402001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	78.8	5000	5000	4880	4920	96	97	70-130	1	7	
Arsenic	ug/L	957	5000	5000	5680	5660	95	94	70-130	0	10	
Beryllium	ug/L	ND	5000	5000	4940	4920	99	98	70-130	1	7	
Cadmium	ug/L	ND	5000	5000	5050	5090	101	102	70-130	1	10	
Chromium	ug/L	291	5000	5000	5060	5040	95	95	70-130	0	10	
Cobalt	ug/L	51.3	5000	5000	4750	4730	94	94	70-130	0	6	
Copper	ug/L	ND	5000	5000	4700	4690	94	94	70-130	0	11	
Iron	ug/L	942000	50000	50000	1050000	1040000	212	186	70-130	1	10	M1
Lead	ug/L	177	5000	5000	4890	4940	94	95	70-130	1	10	
Nickel	ug/L	121	5000	5000	4910	4970	96	97	70-130	1	10	
Selenium	ug/L	ND	5000	5000	4810	4770	96	95	70-130	1	10	
Silver	ug/L	ND	2500	2500	2460	2440	99	98	70-130	1	10	
Thallium	ug/L	ND	5000	5000	4620	4660	92	93	70-130	1	6	
Zinc	ug/L	7860	5000	5000	13000	13000	102	104	70-130	1	11	

MATRIX SPIKE SAMPLE: 1319963

Parameter	Units	60161537002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	ND	10000	10200	102	70-130	
Antimony	ug/L	ND	1000	1020	102	70-130	
Arsenic	ug/L	ND	1000	957	96	70-130	
Beryllium	ug/L	ND	1000	996	100	70-130	
Cadmium	ug/L	ND	1000	997	100	70-130	
Chromium	ug/L	ND	1000	978	98	70-130	
Cobalt	ug/L	ND	1000	967	97	70-130	
Copper	ug/L	870	1000	1840	97	70-130	
Iron	ug/L	106	10000	9270	92	70-130	
Lead	ug/L	ND	1000	1010	101	70-130	
Nickel	ug/L	ND	1000	1020	102	70-130	
Selenium	ug/L	ND	1000	977	97	70-130	
Silver	ug/L	ND	500	491	98	70-130	
Thallium	ug/L	ND	1000	955	95	70-130	
Zinc	ug/L	ND	1000	1020	101	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-196R1
Pace Project No.: 60161402

QC Batch: MPRP/25938
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60161402001

METHOD BLANK: 1319405
Matrix: Water
Associated Lab Samples: 60161402001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	01/21/14 15:14	
Antimony, Dissolved	ug/L	ND	10.0	01/21/14 12:58	
Arsenic, Dissolved	ug/L	ND	10.0	01/21/14 12:58	
Beryllium, Dissolved	ug/L	ND	1.0	01/21/14 12:58	
Cadmium, Dissolved	ug/L	ND	5.0	01/21/14 12:58	
Chromium, Dissolved	ug/L	ND	5.0	01/21/14 12:58	
Cobalt, Dissolved	ug/L	ND	5.0	01/21/14 12:58	
Copper, Dissolved	ug/L	ND	10.0	01/21/14 12:58	
Iron, Dissolved	ug/L	ND	50.0	01/21/14 12:58	
Lead, Dissolved	ug/L	ND	5.0	01/21/14 12:58	
Nickel, Dissolved	ug/L	ND	5.0	01/21/14 12:58	
Selenium, Dissolved	ug/L	ND	15.0	01/21/14 12:58	
Silver, Dissolved	ug/L	ND	7.0	01/21/14 12:58	
Thallium, Dissolved	ug/L	ND	20.0	01/21/14 12:58	
Zinc, Dissolved	ug/L	ND	50.0	01/21/14 12:58	

LABORATORY CONTROL SAMPLE: 1319406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10200	102	85-115	
Antimony, Dissolved	ug/L	1000	1040	104	85-115	
Arsenic, Dissolved	ug/L	1000	987	99	85-115	
Beryllium, Dissolved	ug/L	1000	1040	104	85-115	
Cadmium, Dissolved	ug/L	1000	1020	102	85-115	
Chromium, Dissolved	ug/L	1000	1030	103	85-115	
Cobalt, Dissolved	ug/L	1000	1060	106	85-115	
Copper, Dissolved	ug/L	1000	1020	102	85-115	
Iron, Dissolved	ug/L	10000	10300	103	85-115	
Lead, Dissolved	ug/L	1000	1060	106	85-115	
Nickel, Dissolved	ug/L	1000	1060	106	85-115	
Selenium, Dissolved	ug/L	1000	1040	104	85-115	
Silver, Dissolved	ug/L	500	509	102	85-115	
Thallium, Dissolved	ug/L	1000	1070	107	85-115	
Zinc, Dissolved	ug/L	1000	1020	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1319407 1319408

Parameter	Units	60161316001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	ND	10000	10000	10400	10400	104	104	70-130	1	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-196R1
Pace Project No.: 60161402

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1319407 1319408

Parameter	Units	60161316001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	1000	1000	1070	1070	107	107	70-130	0	7	
Arsenic, Dissolved	ug/L	ND	1000	1000	1040	1040	104	104	70-130	0	10	
Beryllium, Dissolved	ug/L	ND	1000	1000	1050	1050	105	105	70-130	0	7	
Cadmium, Dissolved	ug/L	ND	1000	1000	1040	1030	103	103	70-130	1	10	
Chromium, Dissolved	ug/L	ND	1000	1000	1020	1020	102	102	70-130	0	10	
Cobalt, Dissolved	ug/L	ND	1000	1000	1040	1040	104	104	70-130	0	6	
Copper, Dissolved	ug/L	ND	1000	1000	1040	1040	104	103	70-130	1	11	
Iron, Dissolved	ug/L	ND	10000	10000	10100	10100	101	101	70-130	1	10	
Lead, Dissolved	ug/L	ND	1000	1000	1020	1010	102	101	70-130	0	10	
Nickel, Dissolved	ug/L	ND	1000	1000	1030	1030	103	102	70-130	0	10	
Selenium, Dissolved	ug/L	ND	1000	1000	1070	1070	107	107	70-130	0	10	
Silver, Dissolved	ug/L	ND	500	500	521	519	104	104	70-130	0	10	
Thallium, Dissolved	ug/L	ND	1000	1000	967	962	97	96	70-130	1	6	
Zinc, Dissolved	ug/L	ND	1000	1000	1010	1010	101	101	70-130	0	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-196R1
Pace Project No.: 60161402

QC Batch: MSV/58942 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60161402001, 60161402002

METHOD BLANK: 1320255 | Matrix: Water
Associated Lab Samples: 60161402001, 60161402002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/21/14 14:44	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/21/14 14:44	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/21/14 14:44	
1,2-Dichloroethane	ug/L	ND	1.0	01/21/14 14:44	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/21/14 14:44	
2-Butanone (MEK)	ug/L	ND	10.0	01/21/14 14:44	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/21/14 14:44	N2
Acetone	ug/L	ND	10.0	01/21/14 14:44	N2
Benzene	ug/L	ND	1.0	01/21/14 14:44	
Bromodichloromethane	ug/L	ND	1.0	01/21/14 14:44	
Bromoform	ug/L	ND	1.0	01/21/14 14:44	
Bromomethane	ug/L	ND	5.0	01/21/14 14:44	
Carbon tetrachloride	ug/L	ND	1.0	01/21/14 14:44	
Chloroethane	ug/L	ND	1.0	01/21/14 14:44	
Chloroform	ug/L	ND	1.0	01/21/14 14:44	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/21/14 14:44	N2
Ethylbenzene	ug/L	ND	1.0	01/21/14 14:44	
Methylene chloride	ug/L	ND	1.0	01/21/14 14:44	
Tetrachloroethene	ug/L	ND	1.0	01/21/14 14:44	
Toluene	ug/L	ND	1.0	01/21/14 14:44	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/21/14 14:44	
Trichloroethene	ug/L	ND	1.0	01/21/14 14:44	
Vinyl chloride	ug/L	ND	1.0	01/21/14 14:44	
Xylene (Total)	ug/L	ND	3.0	01/21/14 14:44	N2
1,2-Dichloroethane-d4 (S)	%	92	80-120	01/21/14 14:44	
4-Bromofluorobenzene (S)	%	102	80-120	01/21/14 14:44	
Toluene-d8 (S)	%	103	80-120	01/21/14 14:44	

LABORATORY CONTROL SAMPLE: 1320256

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.5	102	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	59-138	N2
1,1,2-Trichloroethane	ug/L	20	19.8	99	69-127	
1,2-Dichloroethane	ug/L	20	20.1	101	71-129	
1,4-Dichlorobenzene	ug/L	20	19.1	96	68-124	
2-Butanone (MEK)	ug/L	100	82.8	83	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.6	93	61-120	N2
Acetone	ug/L	100	76.4	76	40-160	N2
Benzene	ug/L	20	20.0	100	73-129	
Bromodichloromethane	ug/L	20	20.5	102	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-196R1
Pace Project No.: 60161402

LABORATORY CONTROL SAMPLE: 1320256

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.9	99	52-123	
Bromomethane	ug/L	20	18.4	92	10-160	
Carbon tetrachloride	ug/L	20	21.4	107	70-140	
Chloroethane	ug/L	20	21.3	107	42-160	
Chloroform	ug/L	20	22.2	111	60-120	
cis-1,2-Dichloroethene	ug/L	20	21.1	105	70-125	N2
Ethylbenzene	ug/L	20	19.3	97	66-133	
Methylene chloride	ug/L	20	21.1	105	56-135	
Tetrachloroethene	ug/L	20	18.4	92	64-143	
Toluene	ug/L	20	19.8	99	70-130	
trans-1,2-Dichloroethene	ug/L	20	21.1	105	67-149	
Trichloroethene	ug/L	20	20.6	103	71-130	
Vinyl chloride	ug/L	20	21.6	108	41-160	
Xylene (Total)	ug/L	60	58.4	97	67-130	N2
1,2-Dichloroethane-d4 (S)	%			103	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Toluene-d8 (S)	%			101	80-120	

MATRIX SPIKE SAMPLE: 1320257

Parameter	Units	60161305001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4190	105	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3820	95	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4070	102	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3780	95	49-155	
1,4-Dichlorobenzene	ug/L	788	4000	4600	95	18-147	
2-Butanone (MEK)	ug/L	57700	20000	79800	111	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	2600	20000	21400	94	40-160	N2
Acetone	ug/L	127000	20000	151000	117	40-160	N2
Benzene	ug/L	ND	4000	4000	99	37-151	
Bromodichloromethane	ug/L	ND	4000	4040	101	35-155	
Bromoform	ug/L	ND	4000	3680	92	45-133	
Bromomethane	ug/L	ND	4000	3550	89	10-160	
Carbon tetrachloride	ug/L	ND	4000	4500	112	70-140	
Chloroethane	ug/L	ND	4000	4170	104	14-160	
Chloroform	ug/L	ND	4000	4460	111	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	4090	102	19-160	N2
Ethylbenzene	ug/L	ND	4000	3830	93	37-154	
Methylene chloride	ug/L	ND	4000	4110	100	15-156	
Tetrachloroethene	ug/L	ND	4000	3900	98	64-148	
Toluene	ug/L	ND	4000	3950	97	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4290	107	54-156	
Trichloroethene	ug/L	ND	4000	4320	108	71-157	
Vinyl chloride	ug/L	ND	4000	4540	113	10-160	
Xylene (Total)	ug/L	ND	12000	11800	99	12-153	N2
1,2-Dichloroethane-d4 (S)	%				99	80-120	
4-Bromofluorobenzene (S)	%				100	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-196R1
Pace Project No.: 60161402

MATRIX SPIKE SAMPLE: 1320257

Parameter	Units	60161305001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				102	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-196R1
Pace Project No.: 60161402

QC Batch: OEXT/42315 | Analysis Method: EPA 625
QC Batch Method: EPA 625 | Analysis Description: 625 MSS
Associated Lab Samples: 60161402001

METHOD BLANK: 1319889 | Matrix: Water
Associated Lab Samples: 60161402001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/22/14 08:07	
2,4,6-Trichlorophenol	ug/L	ND	5.0	01/22/14 08:07	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	01/22/14 08:07	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/22/14 08:07	
Hexachlorocyclopentadiene	ug/L	ND	5.0	01/22/14 08:07	
Hexachloroethane	ug/L	ND	5.0	01/22/14 08:07	
Naphthalene	ug/L	ND	5.0	01/22/14 08:07	
Nitrobenzene	ug/L	ND	5.0	01/22/14 08:07	
Pentachlorophenol	ug/L	ND	5.0	01/22/14 08:07	
Phenol	ug/L	ND	5.0	01/22/14 08:07	
2,4,6-Tribromophenol (S)	%	86	39-120	01/22/14 08:07	
2-Fluorobiphenyl (S)	%	84	39-120	01/22/14 08:07	
2-Fluorophenol (S)	%	44	17-120	01/22/14 08:07	
Nitrobenzene-d5 (S)	%	81	33-120	01/22/14 08:07	
Phenol-d6 (S)	%	28	11-120	01/22/14 08:07	
Terphenyl-d14 (S)	%	85	45-120	01/22/14 08:07	

LABORATORY CONTROL SAMPLE: 1319890

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	38.8	78	46-120	
2,4,6-Trichlorophenol	ug/L	50	41.5	83	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	44.9	90	40-133	
Hexachloro-1,3-butadiene	ug/L	50	36.4	73	44-116	
Hexachlorocyclopentadiene	ug/L	100	57.8	58	24-120	
Hexachloroethane	ug/L	50	34.4	69	43-113	
Naphthalene	ug/L	50	39.4	79	48-120	
Nitrobenzene	ug/L	50	38.5	77	48-120	
Pentachlorophenol	ug/L	50	37.4	75	47-120	
Phenol	ug/L	50	14.0	28	16-112	
2,4,6-Tribromophenol (S)	%			88	39-120	
2-Fluorobiphenyl (S)	%			81	39-120	
2-Fluorophenol (S)	%			40	17-120	
Nitrobenzene-d5 (S)	%			82	33-120	
Phenol-d6 (S)	%			25	11-120	
Terphenyl-d14 (S)	%			84	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-196R1
Pace Project No.: 60161402

MATRIX SPIKE SAMPLE: 1319891

Parameter	Units	60161305001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	4050	81	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4260	85	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4250J	85	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3850	77	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	7590	76	11-120	
Hexachloroethane	ug/L	ND	5000	3860	77	40-113	
Naphthalene	ug/L	1270	5000	5200	79	45-120	
Nitrobenzene	ug/L	ND	5000	4940	99	38-120	
Pentachlorophenol	ug/L	ND	5000	4550	91	43-135	
Phenol	ug/L	13100	5000	14700	31	13-112	
2,4,6-Tribromophenol (S)	%				91	39-120	
2-Fluorobiphenyl (S)	%				82	39-120	
2-Fluorophenol (S)	%				57	17-120	
Nitrobenzene-d5 (S)	%				142	33-120	S0
Phenol-d6 (S)	%				50	11-120	
Terphenyl-d14 (S)	%				77	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-196R1
Pace Project No.: 60161402

QC Batch: WET/45780
QC Batch Method: EPA 1664A
Analysis Method: EPA 1664A
Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60161402001

METHOD BLANK: 1321695
Matrix: Water
Associated Lab Samples: 60161402001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/24/14 08:15	

LABORATORY CONTROL SAMPLE: 1321696

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	44.2	110	78-114	

MATRIX SPIKE SAMPLE: 1321697

Parameter	Units	60161402001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	1750	160	1900	92	78-114	

SAMPLE DUPLICATE: 1321699

Parameter	Units	60161023001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	13.9	14.1	2	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-196R1
Pace Project No.: 60161402

QC Batch: WET/45781
QC Batch Method: EPA 1664A
Analysis Method: EPA 1664A
Analysis Description: 1664 SGT-HEM, TPH
Associated Lab Samples: 60161402001

METHOD BLANK: 1321702
Matrix: Water
Associated Lab Samples: 60161402001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	01/24/14 08:20	

LABORATORY CONTROL SAMPLE: 1321703

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	16.0	80	64-132	

MATRIX SPIKE SAMPLE: 1321704

Parameter	Units	60161402001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	12.8	80	74.8	77	64-132	

SAMPLE DUPLICATE: 1321705

Parameter	Units	60161023001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	ND		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-196R1
Pace Project No.: 60161402

QC Batch: WET/45734 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60161402001

METHOD BLANK: 1320767 | Matrix: Water
Associated Lab Samples: 60161402001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	01/22/14 14:16	

SAMPLE DUPLICATE: 1320768

Parameter	Units	60161530001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		25	

SAMPLE DUPLICATE: 1320769

Parameter	Units	60161271002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	42.5	42.5	0	25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-196R1
Pace Project No.: 60161402

QC Batch: WET/45680
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 60161402001

SAMPLE DUPLICATE: 1319520

Parameter	Units	60161271002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.6	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-196R1
Pace Project No.: 60161402

QC Batch: WET/45671 | Analysis Method: SM 5210B
QC Batch Method: SM 5210B | Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 60161402001

METHOD BLANK: 1319315 | Matrix: Water
Associated Lab Samples: 60161402001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	01/22/14 15:39	

LABORATORY CONTROL SAMPLE: 1319316

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	201	102	85-115	

SAMPLE DUPLICATE: 1319317

Parameter	Units	60161353003 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	9.0	10.1	11	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-196R1
Pace Project No.: 60161402

QC Batch: WETA/27885 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60161402001

METHOD BLANK: 1320493 | Matrix: Water
Associated Lab Samples: 60161402001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	01/22/14 14:29	

LABORATORY CONTROL SAMPLE: 1320494

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	100	90-110	

MATRIX SPIKE SAMPLE: 1320495

Parameter	Units	60161208001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.8	92	90-110	

MATRIX SPIKE SAMPLE: 1320496

Parameter	Units	60161209001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.7	87	90-110	M1

SAMPLE DUPLICATE: 1320497

Parameter	Units	60161212001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-196R1
Pace Project No.: 60161402

QC Batch: WETA/27911 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 60161402001

METHOD BLANK: 1321518 | Matrix: Water
Associated Lab Samples: 60161402001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	01/24/14 08:17	

LABORATORY CONTROL SAMPLE: 1321519

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	54.0	108	90-110	

MATRIX SPIKE SAMPLE: 1321520

Parameter	Units	60161630001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	250	250	486	94	90-110	

SAMPLE DUPLICATE: 1321521

Parameter	Units	60161402001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	58300	57200	2	25	

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QUALIFIERS

Project: BRIDGETON LF 316-196R1
Pace Project No.: 60161402

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-196R1
Pace Project No.: 60161402

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60161402001	**316-196R1**	EPA 200.7	MPRP/25945	EPA 200.7	ICP/19859
60161402001	**316-196R1**	EPA 200.7	MPRP/25938	EPA 200.7	ICP/19855
60161402001	**316-196R1**	EPA 245.1	MERP/8083	EPA 245.1	MERC/8037
60161402001	**316-196R1**	EPA 245.1	MERP/8085	EPA 245.1	MERC/8041
60161402001	**316-196R1**	EPA 625	OEXT/42315	EPA 625	MSSV/13469
60161402001	**316-196R1**	EPA 624 Low	MSV/58942		
60161402002	**TRIP BLANK**	EPA 624 Low	MSV/58942		
60161402001	**316-196R1**	EPA 1664A	WET/45780		
60161402001	**316-196R1**	EPA 1664A	WET/45781		
60161402001	**316-196R1**	SM 2540D	WET/45734		
60161402001	**316-196R1**	SM 4500-H+B	WET/45680		
60161402001	**316-196R1**	SM 5210B	WET/45671	SM 5210B	WET/45795
60161402001	**316-196R1**	EPA 350.1	WETA/27885		
60161402001	**316-196R1**	EPA 410.4	WETA/27911		

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Sample Condition Upon Receipt

WO#: 60161402

60161402

Client Name: Burr Eng

Optional
Proj Due Date:
Proj Name:

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

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☑ None ☐ Other ☑ zpic

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 2-0

Temperature should be above freezing to 6°C

Date and initials of person examining contents: pv / 1/7/14

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 & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6. BOD pH
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☑Yes ☐No ☐N/A	13.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	Added 25ml of HNO3 to BP3N. pH 6.0/4.0 Added 2.0 ml of H2SO4 to BP3S. pH 6.0/2.0
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☑No ☐N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed pv Lot # of added preservative 12513 12518
Trip Blank present: Pace Trip Blank lot # (if purchased): cover	☑Yes ☐No ☐N/A	15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: MW for AKB Date: 1/17/14

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: BARR ENGINEERING	Report To: ED GALBRAITH/BARR	Attention: JANET ROLLEN
Address:	Copy To: SCOTT FEDAK/FEEZOR	Company Name: REPUBLIC SERVICES
	DANA BAKER/MARGARET TREANOR -BARR	Address: BRIDGETON, MO 63044
Email To:	Purchase Order No. PO 3727110	Pace Quote Reference: 130426_7588
Phone: (816) 285-8410 Fax	Client Project ID: BRIDGETON LF	Pace Project Manager: Brown, Angie
Requested Due Date/TAT: 10 Day (Default)	Container Order Number:	Pace Profile #: 6787 LINE 2

Regulatory Agency
State / Location
Missouri

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	COD EPA 410	pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B		Residual Chlorine (Y/N)	60161402
1	316-196R | 2AG4U 1BP3U 3AG3S	OT	G	1/16/14	1130				14	10	4	1	0	1BP3N	1D				X	X	X	X	X	X	X	X	X	X	X	1BP3S	3.0	2BGlu 5DG4U 04
2	TRIP BLANK								2	2																X						2DG4U 02
3																																
4																																
5																																
6																																METALS LIST total & LF Dis:
7																																Al,Sb,As,Be,Cd,Cr,
8																																Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn
9																																and Mercury
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	Sam Bircher / Feezor	1/16/14	1200	Andrew Roberts / Feezor	1/16/14	1200				
SITE ADDRESS: BRIDGETON LF	Andrew Roberts / Feezor	1/16/14	1427	[illegible]	1/16/14	1427				
13570 ST. CHARLES ROCK RD				[illegible]	1/17/14	0100	2-0	Y	Y	Y
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Sam Bircher					
SIGNATURE of SAMPLER: [signature]	DATE Signed: 1-16-14				

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January 27, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60161522

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 18, 2014. 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,

Mary Jane Walls for
Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

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CERTIFICATIONS

Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60161522

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60161522

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60161522001	**TCLP 01-17**	Water	01/17/14 13:30	01/18/14 01:15
60161522002	**TRIP BLANK**	Water	01/17/14 08:00	01/18/14 01:15

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SAMPLE ANALYTE COUNT

Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60161522

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60161522001	**TCLP 01-17**	EPA 8260	RAB	13
		EPA 5030B/8260	PRG	28
		EPA 1664A	DJR	1
		SM 2540B	JMC	1
60161522002	**TRIP BLANK**	EPA 5030B/8260	PRG	28

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60161522

Sample: TCLP 01-17 **Lab ID: 60161522001** Collected: 01/17/14 13:30 Received: 01/18/14 01:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP	Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 01/25/14 00:00							
Benzene	**1350**	ug/L	250	5		01/27/14 10:24	71-43-2	
2-Butanone (MEK)	**108000**	ug/L	20000	20		01/27/14 11:56	78-93-3	
Carbon tetrachloride	ND	ug/L	250	5		01/27/14 10:24	56-23-5	L3
Chlorobenzene	ND	ug/L	250	5		01/27/14 10:24	108-90-7	
Chloroform	ND	ug/L	1000	5		01/27/14 10:24	67-66-3	
1,2-Dichloroethane	ND	ug/L	250	5		01/27/14 10:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	250	5		01/27/14 10:24	75-35-4	
Tetrachloroethene	ND	ug/L	250	5		01/27/14 10:24	127-18-4	
Trichloroethene	ND	ug/L	250	5		01/27/14 10:24	79-01-6	
Vinyl chloride	ND	ug/L	100	5		01/27/14 10:24	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	80-120	5		01/27/14 10:24	17060-07-0	1e
Toluene-d8 (S)	101	%	80-120	5		01/27/14 10:24	2037-26-5	
4-Bromofluorobenzene (S)	101	%	80-120	5		01/27/14 10:24	460-00-4	
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	**170000**	ug/L	2000	200		01/23/14 16:48	67-64-1	
Benzene	**1970**	ug/L	200	200		01/23/14 16:48	71-43-2	
Bromodichloromethane	ND	ug/L	200	200		01/23/14 16:48	75-27-4	
Bromoform	ND	ug/L	200	200		01/23/14 16:48	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/23/14 16:48	74-83-9	
2-Butanone (MEK)	**118000**	ug/L	2000	200		01/23/14 16:48	78-93-3	
Carbon tetrachloride	ND	ug/L	200	200		01/23/14 16:48	56-23-5	
Chloroethane	ND	ug/L	200	200		01/23/14 16:48	75-00-3	
Chloroform	ND	ug/L	200	200		01/23/14 16:48	67-66-3	
1,4-Dichlorobenzene	**778**	ug/L	200	200		01/23/14 16:48	106-46-7	
1,2-Dichloroethane	ND	ug/L	200	200		01/23/14 16:48	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/23/14 16:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/23/14 16:48	156-60-5	
Ethylbenzene	**295**	ug/L	200	200		01/23/14 16:48	100-41-4	
Methylene chloride	ND	ug/L	200	200		01/23/14 16:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	**4720**	ug/L	2000	200		01/23/14 16:48	108-10-1	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		01/23/14 16:48	79-34-5	
Tetrachloroethene	ND	ug/L	200	200		01/23/14 16:48	127-18-4	
Toluene	**405**	ug/L	200	200		01/23/14 16:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/23/14 16:48	71-55-6	
1,1,2-Trichloroethane	**698**	ug/L	200	200		01/23/14 16:48	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/23/14 16:48	79-01-6	
Vinyl chloride	ND	ug/L	200	200		01/23/14 16:48	75-01-4	
Xylene (Total)	**1060**	ug/L	600	200		01/23/14 16:48	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	200		01/23/14 16:48	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	80-120	200		01/23/14 16:48	17060-07-0	
Toluene-d8 (S)	96	%	80-120	200		01/23/14 16:48	2037-26-5	
Preservation pH	**6.0**		0.10	200		01/23/14 16:48		pH

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60161522

Sample: TCLP 01-17 **Lab ID: 60161522001** Collected: 01/17/14 13:30 Received: 01/18/14 01:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	**1420**	mg/L	5.0	1		01/27/14 09:47		
2540B Total Solids	Analytical Method: SM 2540B							
Total Solids	**49100**	mg/L	5.0	1		01/24/14 13:43		

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60161522

Sample: TRIP BLANK **Lab ID: 60161522002** Collected: 01/17/14 08:00 Received: 01/18/14 01:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
Acetone	ND	ug/L	10.0	1		01/23/14 12:47	67-64-1	
Benzene	ND	ug/L	1.0	1		01/23/14 12:47	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		01/23/14 12:47	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/23/14 12:47	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/23/14 12:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/23/14 12:47	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0	1		01/23/14 12:47	56-23-5	
Chloroethane	ND	ug/L	1.0	1		01/23/14 12:47	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/23/14 12:47	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/23/14 12:47	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/23/14 12:47	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/23/14 12:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/23/14 12:47	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/23/14 12:47	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		01/23/14 12:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/23/14 12:47	108-10-1	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/23/14 12:47	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		01/23/14 12:47	127-18-4	
Toluene	ND	ug/L	1.0	1		01/23/14 12:47	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/23/14 12:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/23/14 12:47	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/23/14 12:47	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/23/14 12:47	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/23/14 12:47	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	1		01/23/14 12:47	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	80-120	1		01/23/14 12:47	17060-07-0	
Toluene-d8 (S)	103	%	80-120	1		01/23/14 12:47	2037-26-5	
Preservation pH	**1.0**		0.10	1		01/23/14 12:47		

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60161522

QC Batch: MSV/59044 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 60161522001

METHOD BLANK: 1322615 | Matrix: Water
Associated Lab Samples: 60161522001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	01/27/14 10:08	
1,2-Dichloroethane	ug/L	ND	50.0	01/27/14 10:08	
2-Butanone (MEK)	ug/L	ND	1000	01/27/14 10:08	
Benzene	ug/L	ND	50.0	01/27/14 10:08	
Carbon tetrachloride	ug/L	ND	50.0	01/27/14 10:08	
Chlorobenzene	ug/L	ND	50.0	01/27/14 10:08	
Chloroform	ug/L	ND	200	01/27/14 10:08	
Tetrachloroethene	ug/L	ND	50.0	01/27/14 10:08	
Trichloroethene	ug/L	ND	50.0	01/27/14 10:08	
Vinyl chloride	ug/L	ND	20.0	01/27/14 10:08	
1,2-Dichloroethane-d4 (S)	%	97	80-120	01/27/14 10:08	
4-Bromofluorobenzene (S)	%	102	80-120	01/27/14 10:08	
Toluene-d8 (S)	%	101	80-120	01/27/14 10:08	

LABORATORY CONTROL SAMPLE: 1322616

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	1000	1070	107	70-127	
1,2-Dichloroethane	ug/L	1000	1030	103	72-122	
2-Butanone (MEK)	ug/L	5000	5290	106	69-124	
Benzene	ug/L	1000	1100	110	73-122	
Carbon tetrachloride	ug/L	1000	1270	127	73-125	L0
Chlorobenzene	ug/L	1000	1070	107	80-120	
Chloroform	ug/L	1000	1130	113	76-120	
Tetrachloroethene	ug/L	1000	1090	109	79-122	
Trichloroethene	ug/L	1000	1100	110	76-120	
Vinyl chloride	ug/L	1000	1110	111	57-140	
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1322617

Parameter	Units	60161522001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	5000	5930	118	66-142	
1,2-Dichloroethane	ug/L	ND	5000	5000	100	53-144	
2-Butanone (MEK)	ug/L	108000	100000	210000	102	54-127	
Benzene	ug/L	1350	5000	6620	106	48-150	
Carbon tetrachloride	ug/L	ND	5000	6160	123	68-145	
Chlorobenzene	ug/L	ND	5000	5550	111	68-131	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60161522

MATRIX SPIKE SAMPLE: 1322617

Parameter	Units	60161522001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloroform	ug/L	ND	5000	5490	110	69-126	
Tetrachloroethene	ug/L	ND	5000	5730	115	66-139	
Trichloroethene	ug/L	ND	5000	5640	113	67-130	
Vinyl chloride	ug/L	ND	5000	6300	126	47-159	
1,2-Dichloroethane-d4 (S)	%				95	80-120	
4-Bromofluorobenzene (S)	%				102	80-120	
Toluene-d8 (S)	%				101	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60161522

QC Batch: MSV/58998 | Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 | Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60161522001, 60161522002

METHOD BLANK: 1321250 | Matrix: Water
Associated Lab Samples: 60161522001, 60161522002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/23/14 12:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/23/14 12:29	
1,1,2-Trichloroethane	ug/L	ND	1.0	01/23/14 12:29	
1,2-Dichloroethane	ug/L	ND	1.0	01/23/14 12:29	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/23/14 12:29	
2-Butanone (MEK)	ug/L	ND	10.0	01/23/14 12:29	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/23/14 12:29	
Acetone	ug/L	ND	10.0	01/23/14 12:29	
Benzene	ug/L	ND	1.0	01/23/14 12:29	
Bromodichloromethane	ug/L	ND	1.0	01/23/14 12:29	
Bromoform	ug/L	ND	1.0	01/23/14 12:29	
Bromomethane	ug/L	ND	5.0	01/23/14 12:29	
Carbon tetrachloride	ug/L	ND	1.0	01/23/14 12:29	
Chloroethane	ug/L	ND	1.0	01/23/14 12:29	
Chloroform	ug/L	ND	1.0	01/23/14 12:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/23/14 12:29	
Ethylbenzene	ug/L	ND	1.0	01/23/14 12:29	
Methylene chloride	ug/L	ND	1.0	01/23/14 12:29	
Tetrachloroethene	ug/L	ND	1.0	01/23/14 12:29	
Toluene	ug/L	ND	1.0	01/23/14 12:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/23/14 12:29	
Trichloroethene	ug/L	ND	1.0	01/23/14 12:29	
Vinyl chloride	ug/L	ND	1.0	01/23/14 12:29	
Xylene (Total)	ug/L	ND	3.0	01/23/14 12:29	
1,2-Dichloroethane-d4 (S)	%	97	80-120	01/23/14 12:29	
4-Bromofluorobenzene (S)	%	104	80-120	01/23/14 12:29	
Toluene-d8 (S)	%	99	80-120	01/23/14 12:29	

LABORATORY CONTROL SAMPLE: 1321251

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.0	105	75-124	
1,1,2,2-Tetrachloroethane	ug/L	20	17.2	86	73-120	
1,1,2-Trichloroethane	ug/L	20	17.3	87	76-120	
1,2-Dichloroethane	ug/L	20	19.4	97	72-122	
1,4-Dichlorobenzene	ug/L	20	19.6	98	80-120	
2-Butanone (MEK)	ug/L	100	90.8	91	69-124	
4-Methyl-2-pentanone (MIBK)	ug/L	100	95.6	96	72-123	
Acetone	ug/L	100	80.9	81	60-126	
Benzene	ug/L	20	20.1	101	73-122	
Bromodichloromethane	ug/L	20	19.7	99	73-120	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60161522

LABORATORY CONTROL SAMPLE: 1321251

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	18.6	93	74-120	
Bromomethane	ug/L	20	21.9	110	40-146	
Carbon tetrachloride	ug/L	20	20.9	105	73-125	
Chloroethane	ug/L	20	17.0	85	56-159	
Chloroform	ug/L	20	20.4	102	76-120	
cis-1,2-Dichloroethene	ug/L	20	18.6	93	69-120	
Ethylbenzene	ug/L	20	18.5	92	76-123	
Methylene chloride	ug/L	20	20.1	101	71-123	
Tetrachloroethene	ug/L	20	18.8	94	79-122	
Toluene	ug/L	20	18.8	94	76-122	
trans-1,2-Dichloroethene	ug/L	20	18.6	93	78-126	
Trichloroethene	ug/L	20	19.7	98	76-120	
Vinyl chloride	ug/L	20	20.0	100	57-140	
Xylene (Total)	ug/L	60	57.0	95	76-122	
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Toluene-d8 (S)	%			96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1321252 1321253

Parameter	Units	60161441004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.1	20	20	21.8	21.3	109	107	72-139	2	22	
1,1,2,2-Tetrachloroethane	ug/L	<1.5	20	20	20.2	17.0	101	85	63-126	17	20	
1,1,2-Trichloroethane	ug/L	<2.0	20	20	21.0	18.4	105	92	70-121	13	24	
1,2-Dichloroethane	ug/L	<1.2	20	20	22.7	20.0	113	100	53-144	13	27	
1,4-Dichlorobenzene	ug/L	<0.60	20	20	21.1	20.3	105	101	68-125	4	22	
2-Butanone (MEK)	ug/L	<5.9	100	100	95.3	78.1	95	78	54-127	20	20	
4-Methyl-2-pentanone (MIBK)	ug/L	<4.2	100	100	109	92.6	109	93	61-127	16	20	
Acetone	ug/L	<18.8	100	100	74.2	62.5	57	45	40-139	17	24	
Benzene	ug/L	1.0J	20	20	22.3	20.8	107	99	48-150	7	31	
Bromodichloromethane	ug/L	<1.9	20	20	20.5	19.7	103	98	66-123	4	20	
Bromoform	ug/L	<0.70	20	20	22.3	20.1	111	100	64-122	10	21	
Bromomethane	ug/L	<1.6	20	20	18.3	21.0	91	105	40-146	14	37	
Carbon tetrachloride	ug/L	<1.8	20	20	22.0	21.2	110	106	68-145	4	20	
Chloroethane	ug/L	<1.5	20	20	20.4	19.4	102	97	49-160	5	24	
Chloroform	ug/L	<1.4	20	20	21.0	19.9	105	99	69-126	5	20	
cis-1,2-Dichloroethene	ug/L	19.0	20	20	21.3	20.2	11	6	63-127	5	20	M1
Ethylbenzene	ug/L	<1.8	20	20	21.0	20.0	105	100	50-147	5	31	
Methylene chloride	ug/L	8.8J	20	20	22.0	20.0	66	56	67-128	9	20	M1
Tetrachloroethene	ug/L	<1.0	20	20	20.4	19.6	102	98	66-139	4	20	
Toluene	ug/L	<1.7	20	20	20.7	19.9	104	100	51-147	4	32	
trans-1,2-Dichloroethene	ug/L	<2.0	20	20	19.2	19.4	96	97	73-142	1	20	
Trichloroethene	ug/L	689	20	20	96.5	90.6	-2964	-2993	67-130	6	20	M1
Vinyl chloride	ug/L	<1.3	20	20	20.3	18.7	102	93	47-159	9	20	
Xylene (Total)	ug/L	<4.2	60	60	63.3	59.9	105	100	49-145	5	31	
1,2-Dichloroethane-d4 (S)	%						99	99	80-120			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60161522

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1321252 1321253

Parameter	Units	60161441004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4-Bromofluorobenzene (S)	%						103	102	80-120			
Toluene-d8 (S)	%						98	99	80-120			
Preservation pH		1.0			1.0	1.0				0		

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60161522

QC Batch: WET/45810 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60161522001

METHOD BLANK: 1322645 | Matrix: Water
Associated Lab Samples: 60161522001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/27/14 09:46	

LABORATORY CONTROL SAMPLE: 1322646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.8	100	78-114	

MATRIX SPIKE SAMPLE: 1322647

Parameter	Units	60161847001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	42.1	42.6	98	78-114	

SAMPLE DUPLICATE: 1322648

Parameter	Units	60161548001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1410	1570	11	18	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60161522

QC Batch: WET/45777 | Analysis Method: SM 2540B
QC Batch Method: SM 2540B | Analysis Description: 2540B Total Solids
Associated Lab Samples: 60161522001

METHOD BLANK: 1321648 | Matrix: Water
Associated Lab Samples: 60161522001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	5.0	01/24/14 13:42	

LABORATORY CONTROL SAMPLE: 1321649

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	1000	1040	104	80-120	

SAMPLE DUPLICATE: 1321650

Parameter	Units	60161594001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	18200	18600	2	10	

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QUALIFIERS

Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60161522

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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

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ANALYTE QUALIFIERS

1e	Sample was diluted due to the presence of high levels of non-target analytes and other matrix interferences which causes sample foaming.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
pH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60161522

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60161522001	**TCLP 01-17**	EPA 8260	MSV/59044		
60161522001	**TCLP 01-17**	EPA 5030B/8260	MSV/58998		
60161522002	**TRIP BLANK**	EPA 5030B/8260	MSV/58998		
60161522001	**TCLP 01-17**	EPA 1664A	WET/45810		
60161522001	**TCLP 01-17**	SM 2540B	WET/45777		

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TCLP/SPLP Determination of Percent Solids

(Only if sample is liquid or semi-liquid. Skip if sample is obviously 100% solid.)

Date: 1/24/14 Batch: 6107/6106/6105

Analyst: CEM Balance ID: 6008ET3 Reviewed by: _____

Sample Number	A Weight of Beaker (g)	B Weight of Sample & Beaker (g)	C Weight of Filtrate Container (g)	D Weight of 142-mm TCLP Filter (g)	E Weight of Waste Beaker After Filtration (g)	F Weight of Filtrate & Container (g)	G Weight of Filter and Solid Phase After Filtration (g)	H Weight of Filtrate (g) (F - C)	I Weight of Waste Filtered (g) (E - B)	J Percent WET Solids $\left(\frac{(I - H)}{I \times 0.01}\right)$	K DRY Weight #1 of Solid Phase plus Filter (g)	L DRY Weight #2 of Solid Phase plus Filter (g) (1)	M Percent DRY Solids $\left(\frac{(L - D)}{I \times 0.01}\right)$	If Multiphase, Are Phases Compatible (2)
60161 - 380-1	108.0	257.8	283.0	1.3	109.8	426.7	3.8	143.7	148.0	2.9%	2.2	1.3	0	Yes / No / NA
60161 - 532-1	108.9	254.8	282.3	1.3	111.3	421.7	3.9	139.4 oil 1/23 ~~143.8~~	143.8	3.0%	3.0	3.0	1.18%	Yes / No / NA
60161 - 522-1	108.9	249.2	282.4	1.2	109.7	418.1	2.6	1/23 ~~2.135~~ 139.5	139.5	2.7%	1.5	1.5	0.22%	Yes / No / NA
60161 - 493-1	109.9	203.8	281.8	1.3	111.9	369.9	3.8	88.1	91.9	4.1%	3.1	1.4	0.11%	Yes / No / NA
~~493-2~~	~~122.3~~	~~222.4~~	~~282.8~~	~~1.2~~	~~125.9~~				~~96.5~~	~~Does not filter - CEM 1/24~~				~~Yes / No / NA~~
60161 - 493-3	120.1	197.1	282.8	1.2	121.7	350.8	8.0	68	75.4	9.8%	NA	—		Yes / No / NA
														Yes / No / NA
														Yes / No / NA
						CEM	1/24/14							Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA

NOTE: If Wet Solids are ≥0.5 and <5% and a small amount of liquid is entrapped in the filter, then determine Percent Dry Solids. If the entrapped liquid is oily (non-aqueous) do not determine Percent Dry Solids. If Solids are <0.5%, tumbling is not required because the filtrate is considered to be the TCLP/SPLP extract.

(1) Dry Weight #1 and Dry Weight #2 must be within 1% of each other. If the weights are within 1% of each other, use Dry Weight #2 in further calculations. If not within 1%, continue drying and weighing until two successive weighings are within 1%.

(2) If compatible, combine the filtered liquid resulting from extraction with the initial liquid phase of sample. If the initial liquid phase is not compatible with the filtered liquid resulting from extraction, do not combine. Analyze liquids separately and combine the results mathematically.

If solids are ≥5.0 and <100%	Weight of waste to charge the ZHE = $\frac{25}{\text{Percent solids}} \times 100$ Weight of waste to filter = $\frac{\text{mL of leachate required}}{20 \times \text{Percent solids}} \times 100$

96.0 × 0.098 = 9.41

F-KS-128-rev.0
October 21, 2013

Pace Analytical
www.pacelabs.com

Sample Condition Upon Receipt

WO#: 60161522

60161522

Client Name: Barr Eng

Optional
Proj Due Date:
Proj Name:

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

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☑ None ☐ Other ☑ ZPLC

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 3.2

Date and initials of person examining contents: 1/18/14 BA

Temperature should be above freezing to 6°C

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 & signature on COC:	☑Yes ☐No ☐N/A	4.	
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.	
Short Hold Time analyses (<72hr):	☐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		
Pace containers used:	☑Yes ☐No ☐N/A	9.	
Containers intact:	☑Yes ☐No ☐N/A	10.	
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.	
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.	
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☑Yes ☐No ☐N/A	13.	
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A		
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	14.	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed	Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased): _____	☑Yes ☐No ☐N/A	15.	
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.	
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State: MO	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 1/21/14

F-KS-C-003-Rev 7 04December2012

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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.

Page: of

Section A Required Client Information:

Company:	BARR ENGINEERING
Address:	
Email To:	
Phone:	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	ED GALBRAITH/BARR
Copy To:	SCOTT FEDAK/FEEZOR DANA BAKER/MARGARET TREANOR-BARR
Purchase Order No.:	PO 3727110
Project Name:	UNTREATED COMMINGLED
Project Number:	

Section C Invoice Information:

Attention:	JANET ROLLEN
Company Name:	REPUBLIC SERVICES
Address:	BRIDGETON, MO 63044
Pace Quote Reference:	
Pace Project Manager:	Angie Brown 913-563-1402
Pace Profile #:	PROFILE 6787-LINE 6

REGULATORY AGENCY

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

Site Location STATE: MO

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	8260 Volatiles **	TCLP Volatiles *	% Solids	Oil and Grease						Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	TCLP 01-17 2AG1H 2AG35			01/17/14	1330	—																		3DGAH				001	** total VOCs Bridgeton List
2																								2DGAH (TB)				002	* footnote %dry solids TCLP
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

60161522

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Pawlinski / FGI	1/17/14	1435	Bernetta Harris	1/17/14	1435				
				Bernetta Harris / PASI KS	1/18/14	0115	3.2	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: John Powell

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 01-17-14

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 Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

January 27, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 20, 2014. 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,

Mary Jane Walls for
Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60161549001	**316-197-R5**	Water	01/18/14 08:30	01/20/14 14:15
60161549002	**TRIP BLANK**	Water	01/18/14 08:00	01/20/14 14:15

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60161549001	**316-197-R5**	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	16
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC	1
		SM 4500-H+B	AJM	1
		SM 5210B	JML	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
60161549002	**TRIP BLANK**	EPA 624 Low	EAK	28

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PROJECT NARRATIVE

Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

Date: January 27, 2014

The sample received for Biochemical Oxygen Demand analyses was received outside of the method hold time of 48 hours. The analysis was conducted, noting the hold time has expired.

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

Sample: 316-197-R5 **Lab ID: 60161549001** Collected: 01/18/14 08:30 Received: 01/20/14 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	**3890**	ug/L	150	2	01/22/14 15:40	01/23/14 15:12	7429-90-5	
Antimony	ND	ug/L	10.0	1	01/22/14 15:40	01/23/14 15:09	7440-36-0	
Arsenic	**176**	ug/L	10.0	1	01/22/14 15:40	01/23/14 15:09	7440-38-2	
Beryllium	ND	ug/L	1.0	1	01/22/14 15:40	01/23/14 15:09	7440-41-7	
Cadmium	ND	ug/L	5.0	1	01/22/14 15:40	01/23/14 15:09	7440-43-9	
Chromium	**47.6**	ug/L	5.0	1	01/22/14 15:40	01/23/14 15:09	7440-47-3	
Cobalt	**9.4**	ug/L	5.0	1	01/22/14 15:40	01/23/14 15:09	7440-48-4	
Copper	**10.3**	ug/L	10.0	1	01/22/14 15:40	01/23/14 15:09	7440-50-8	
Iron	**141000**	ug/L	50.0	1	01/22/14 15:40	01/23/14 15:09	7439-89-6	
Lead	**23.4**	ug/L	5.0	1	01/22/14 15:40	01/23/14 15:09	7439-92-1	
Nickel	**24.3**	ug/L	5.0	1	01/22/14 15:40	01/23/14 15:09	7440-02-0	
Selenium	ND	ug/L	15.0	1	01/22/14 15:40	01/23/14 15:09	7782-49-2	
Silver	ND	ug/L	7.0	1	01/22/14 15:40	01/23/14 15:09	7440-22-4	
Thallium	ND	ug/L	20.0	1	01/22/14 15:40	01/23/14 15:09	7440-28-0	
Zinc	**1330**	ug/L	100	2	01/22/14 15:40	01/23/14 15:12	7440-66-6	
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	**414**	ug/L	150	2	01/23/14 17:00	01/24/14 14:05	7429-90-5	
Antimony, Dissolved	ND	ug/L	10.0	1	01/23/14 17:00	01/24/14 14:02	7440-36-0	
Arsenic, Dissolved	**148**	ug/L	10.0	1	01/23/14 17:00	01/24/14 14:02	7440-38-2	
Beryllium, Dissolved	ND	ug/L	1.0	1	01/23/14 17:00	01/24/14 14:02	7440-41-7	
Cadmium, Dissolved	ND	ug/L	5.0	1	01/23/14 17:00	01/24/14 14:02	7440-43-9	
Chromium, Dissolved	**39.5**	ug/L	5.0	1	01/23/14 17:00	01/24/14 14:02	7440-47-3	
Cobalt, Dissolved	**5.5**	ug/L	5.0	1	01/23/14 17:00	01/24/14 14:02	7440-48-4	
Copper, Dissolved	ND	ug/L	10.0	1	01/23/14 17:00	01/24/14 14:02	7440-50-8	
Iron, Dissolved	**103000**	ug/L	50.0	1	01/23/14 17:00	01/24/14 14:02	7439-89-6	
Lead, Dissolved	**9.6**	ug/L	5.0	1	01/23/14 17:00	01/24/14 14:02	7439-92-1	
Nickel, Dissolved	**16.4**	ug/L	5.0	1	01/23/14 17:00	01/24/14 14:02	7440-02-0	
Selenium, Dissolved	ND	ug/L	15.0	1	01/23/14 17:00	01/24/14 14:02	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	01/23/14 17:00	01/24/14 14:02	7440-22-4	
Thallium, Dissolved	ND	ug/L	20.0	1	01/23/14 17:00	01/24/14 14:02	7440-28-0	
Zinc, Dissolved	**1110**	ug/L	100	2	01/23/14 17:00	01/24/14 14:05	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	6.0	1	01/27/14 10:00	01/27/14 13:14	7439-97-6	
245.1 Mercury, Dissolved (LF)	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	6.0	1	01/27/14 10:00	01/27/14 13:32	7439-97-6	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	01/21/14 00:00	01/22/14 10:13	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	01/21/14 00:00	01/22/14 10:13	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	01/21/14 00:00	01/22/14 10:13	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	01/21/14 00:00	01/22/14 10:13	67-72-1	
Naphthalene	**3430**	ug/L	1000	2	01/21/14 00:00	01/22/14 10:13	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	01/21/14 00:00	01/22/14 10:13	98-95-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

Sample: 316-197-R5 **Lab ID: 60161549001** Collected: 01/18/14 08:30 Received: 01/20/14 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Pentachlorophenol	ND	ug/L	1000	2	01/21/14 00:00	01/22/14 10:13	87-86-5	
Phenol	**11500**	ug/L	1000	2	01/21/14 00:00	01/22/14 10:13	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	1000	2	01/21/14 00:00	01/22/14 10:13	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	1000	2	01/21/14 00:00	01/22/14 10:13	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	156	%	33-120	2	01/21/14 00:00	01/22/14 10:13	4165-60-0	S0
2-Fluorobiphenyl (S)	91	%	39-120	2	01/21/14 00:00	01/22/14 10:13	321-60-8	
Terphenyl-d14 (S)	83	%	45-120	2	01/21/14 00:00	01/22/14 10:13	1718-51-0	
Phenol-d6 (S)	42	%	11-120	2	01/21/14 00:00	01/22/14 10:13	13127-88-3	
2-Fluorophenol (S)	61	%	17-120	2	01/21/14 00:00	01/22/14 10:13	367-12-4	
2,4,6-Tribromophenol (S)	104	%	39-120	2	01/21/14 00:00	01/22/14 10:13	118-79-6	
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	**111000**	ug/L	2000	200		01/21/14 16:45	67-64-1	N2
Benzene	ND	ug/L	200	200		01/21/14 16:45	71-43-2	
Bromodichloromethane	ND	ug/L	200	200		01/21/14 16:45	75-27-4	
Bromoform	ND	ug/L	200	200		01/21/14 16:45	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/21/14 16:45	74-83-9	
2-Butanone (MEK)	**52800**	ug/L	2000	200		01/21/14 16:45	78-93-3	N2
Carbon tetrachloride	ND	ug/L	200	200		01/21/14 16:45	56-23-5	
Chloroethane	ND	ug/L	200	200		01/21/14 16:45	75-00-3	
Chloroform	ND	ug/L	200	200		01/21/14 16:45	67-66-3	
1,4-Dichlorobenzene	**2280**	ug/L	200	200		01/21/14 16:45	106-46-7	
1,2-Dichloroethane	ND	ug/L	200	200		01/21/14 16:45	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/21/14 16:45	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/21/14 16:45	156-60-5	
Ethylbenzene	**265**	ug/L	200	200		01/21/14 16:45	100-41-4	
Methylene chloride	ND	ug/L	200	200		01/21/14 16:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2300**	ug/L	2000	200		01/21/14 16:45	108-10-1	N2
1,1,2,2-Tetrachloroethane	**557**	ug/L	200	200		01/21/14 16:45	79-34-5	N2
Tetrachloroethene	ND	ug/L	200	200		01/21/14 16:45	127-18-4	
Toluene	ND	ug/L	200	200		01/21/14 16:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/21/14 16:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		01/21/14 16:45	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/21/14 16:45	79-01-6	
Vinyl chloride	ND	ug/L	200	200		01/21/14 16:45	75-01-4	
Xylene (Total)	**1200**	ug/L	600	200		01/21/14 16:45	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	96	%	80-120	200		01/21/14 16:45	460-00-4	
Toluene-d8 (S)	103	%	80-120	200		01/21/14 16:45	2037-26-5	
1,2-Dichloroethane-d4 (S)	97	%	80-120	200		01/21/14 16:45	17060-07-0	
Preservation pH	**6.0**		1.0	200		01/21/14 16:45		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	**1900**	mg/L	5.0	1		01/27/14 09:47		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

Sample: 316-197-R5 **Lab ID: 60161549001** Collected: 01/18/14 08:30 Received: 01/20/14 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	**21.2**	mg/L	5.0	1		01/27/14 09:50		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**2980**	mg/L	5.0	1		01/23/14 14:46		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**5.7**	Std. Units	0.10	1		01/20/14 15:30		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**31500**	mg/L	2.0	1	01/20/14 15:50	01/25/14 09:13		H3
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**550**	mg/L	20.0	200		01/22/14 15:02	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**47200**	mg/L	5000	500		01/27/14 09:58		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

Sample: TRIP BLANK **Lab ID: 60161549002** Collected: 01/18/14 08:00 Received: 01/20/14 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	ND	ug/L	10.0	1		01/21/14 17:00	67-64-1	N2
Benzene	ND	ug/L	1.0	1		01/21/14 17:00	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		01/21/14 17:00	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/21/14 17:00	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/21/14 17:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/21/14 17:00	78-93-3	N2
Carbon tetrachloride	ND	ug/L	1.0	1		01/21/14 17:00	56-23-5	
Chloroethane	ND	ug/L	1.0	1		01/21/14 17:00	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/21/14 17:00	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/21/14 17:00	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/21/14 17:00	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/21/14 17:00	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/21/14 17:00	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/21/14 17:00	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		01/21/14 17:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/21/14 17:00	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/21/14 17:00	79-34-5	N2
Tetrachloroethene	ND	ug/L	1.0	1		01/21/14 17:00	127-18-4	
Toluene	ND	ug/L	1.0	1		01/21/14 17:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/21/14 17:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/21/14 17:00	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/21/14 17:00	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/21/14 17:00	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/21/14 17:00	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	102	%	80-120	1		01/21/14 17:00	460-00-4	
Toluene-d8 (S)	104	%	80-120	1		01/21/14 17:00	2037-26-5	
1,2-Dichloroethane-d4 (S)	96	%	80-120	1		01/21/14 17:00	17060-07-0	
Preservation pH	**6.0**		1.0	1		01/21/14 17:00		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

QC Batch: MERP/8089 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury
Associated Lab Samples: 60161549001

METHOD BLANK: 1322623 | Matrix: Water
Associated Lab Samples: 60161549001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/27/14 13:03	

LABORATORY CONTROL SAMPLE: 1322624

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.1	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322625 1322626

Parameter	Units	60161548001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	150	150	140	120	92	79	70-130	15	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

QC Batch: MERP/8090 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60161549001

METHOD BLANK: 1322631 | Matrix: Water
Associated Lab Samples: 60161549001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	01/27/14 13:16	

LABORATORY CONTROL SAMPLE: 1322632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.6	91	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322633 1322634

Parameter	Units	60161548001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	138	140	91	93	70-130	2	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

QC Batch: MPRP/25967
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60161549001

METHOD BLANK: 1320598
Matrix: Water
Associated Lab Samples: 60161549001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	01/23/14 15:00	
Antimony	ug/L	ND	10.0	01/23/14 15:00	
Arsenic	ug/L	ND	10.0	01/23/14 15:00	
Beryllium	ug/L	ND	1.0	01/23/14 15:00	
Cadmium	ug/L	ND	5.0	01/23/14 15:00	
Chromium	ug/L	ND	5.0	01/23/14 15:00	
Cobalt	ug/L	ND	5.0	01/23/14 15:00	
Copper	ug/L	ND	10.0	01/23/14 15:00	
Iron	ug/L	ND	50.0	01/23/14 15:00	
Lead	ug/L	ND	5.0	01/23/14 15:00	
Nickel	ug/L	ND	5.0	01/23/14 15:00	
Selenium	ug/L	ND	15.0	01/23/14 15:00	
Silver	ug/L	ND	7.0	01/23/14 15:00	
Thallium	ug/L	ND	20.0	01/23/14 15:00	
Zinc	ug/L	ND	50.0	01/23/14 15:00	

LABORATORY CONTROL SAMPLE: 1320599

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9480	95	85-115	
Antimony	ug/L	1000	1020	102	85-115	
Arsenic	ug/L	1000	978	98	85-115	
Beryllium	ug/L	1000	958	96	85-115	
Cadmium	ug/L	1000	1010	101	85-115	
Chromium	ug/L	1000	942	94	85-115	
Cobalt	ug/L	1000	1030	103	85-115	
Copper	ug/L	1000	993	99	85-115	
Iron	ug/L	10000	9390	94	85-115	
Lead	ug/L	1000	1010	101	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	968	97	85-115	
Silver	ug/L	500	483	97	85-115	
Thallium	ug/L	1000	1040	104	85-115	
Zinc	ug/L	1000	982	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1320600 1320601

Parameter	Units	60161578001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	1410	10000	10000	11900	11900	105	105	70-130	1	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1320600 1320601

Parameter	Units	60161578001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L		1000	1000	1050	1050	105	105	70-130	0	7	
Arsenic	ug/L	ND	1000	1000	1020	1010	102	101	70-130	1	10	
Beryllium	ug/L		1000	1000	985	995	99	99	70-130	1	7	
Cadmium	ug/L	ND	1000	1000	1020	1010	102	101	70-130	1	10	
Chromium	ug/L	ND	1000	1000	955	950	95	95	70-130	1	10	
Cobalt	ug/L		1000	1000	1020	1000	101	100	70-130	1	6	
Copper	ug/L	147	1000	1000	1160	1160	102	102	70-130	0	11	
Iron	ug/L		10000	10000	10100	10000	91	90	70-130	1	10	
Lead	ug/L	13.4	1000	1000	1010	1010	100	100	70-130	0	10	
Nickel	ug/L	10.6	1000	1000	1020	1020	101	100	70-130	0	10	
Selenium	ug/L		1000	1000	980	982	98	98	70-130	0	10	
Silver	ug/L	ND	500	500	496	494	99	99	70-130	0	10	
Thallium	ug/L		1000	1000	1000	998	100	100	70-130	1	6	
Zinc	ug/L	ND	1000	1000	1010	1000	98	97	70-130	1	11	

SAMPLE DUPLICATE: 1321790

Parameter	Units	60161577001 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum	ug/L	4350	4330	0	20	
Antimony	ug/L		17.4	8	20	
Arsenic	ug/L		ND		20	
Beryllium	ug/L		ND		20	
Cadmium	ug/L		ND		20	
Chromium	ug/L		ND		20	
Cobalt	ug/L		ND		20	
Copper	ug/L	14.8	15.1	2	20	
Iron	ug/L		408	1	20	
Lead	ug/L	24.0	26.0	8	20	
Nickel	ug/L		ND		20	
Selenium	ug/L		ND		20	
Silver	ug/L		ND		20	
Thallium	ug/L		ND		20	
Zinc	ug/L	359	359	0	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

QC Batch: MPRP/25987
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60161549001

METHOD BLANK: 1321534
Matrix: Water
Associated Lab Samples: 60161549001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	01/24/14 13:41	
Antimony, Dissolved	ug/L	ND	10.0	01/24/14 13:41	
Arsenic, Dissolved	ug/L	ND	10.0	01/24/14 13:41	
Beryllium, Dissolved	ug/L	ND	1.0	01/24/14 13:41	
Cadmium, Dissolved	ug/L	ND	5.0	01/24/14 13:41	
Chromium, Dissolved	ug/L	ND	5.0	01/24/14 13:41	
Cobalt, Dissolved	ug/L	ND	5.0	01/24/14 13:41	
Copper, Dissolved	ug/L	ND	10.0	01/24/14 13:41	
Iron, Dissolved	ug/L	ND	50.0	01/24/14 13:41	
Lead, Dissolved	ug/L	ND	5.0	01/24/14 13:41	
Nickel, Dissolved	ug/L	ND	5.0	01/24/14 13:41	
Selenium, Dissolved	ug/L	ND	15.0	01/24/14 13:41	
Silver, Dissolved	ug/L	ND	7.0	01/24/14 13:41	
Thallium, Dissolved	ug/L	ND	20.0	01/24/14 13:41	
Zinc, Dissolved	ug/L	ND	50.0	01/24/14 13:41	

LABORATORY CONTROL SAMPLE: 1321535

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9980	100	85-115	
Antimony, Dissolved	ug/L	1000	1020	102	85-115	
Arsenic, Dissolved	ug/L	1000	983	98	85-115	
Beryllium, Dissolved	ug/L	1000	1020	102	85-115	
Cadmium, Dissolved	ug/L	1000	1000	100	85-115	
Chromium, Dissolved	ug/L	1000	1010	101	85-115	
Cobalt, Dissolved	ug/L	1000	1020	102	85-115	
Copper, Dissolved	ug/L	1000	994	99	85-115	
Iron, Dissolved	ug/L	10000	10000	100	85-115	
Lead, Dissolved	ug/L	1000	1030	103	85-115	
Nickel, Dissolved	ug/L	1000	1030	103	85-115	
Selenium, Dissolved	ug/L	1000	1000	100	85-115	
Silver, Dissolved	ug/L	500	500	100	85-115	
Thallium, Dissolved	ug/L	1000	1060	106	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1321536 1321537

Parameter	Units	60161548001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	480	10000	10000	10500	10600	101	101	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1321536 1321537

Parameter	Units	60161548001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	1000	1000	1040	1040	104	103	70-130	0	7	
Arsenic, Dissolved	ug/L	174	1000	1000	1250	1240	108	107	70-130	1	10	
Beryllium, Dissolved	ug/L	ND	1000	1000	983	987	98	99	70-130	0	7	
Cadmium, Dissolved	ug/L	ND	1000	1000	1050	1050	104	104	70-130	0	10	
Chromium, Dissolved	ug/L	46.0	1000	1000	1040	1040	99	100	70-130	1	10	
Cobalt, Dissolved	ug/L	6.1	1000	1000	963	966	96	96	70-130	0	6	
Copper, Dissolved	ug/L	ND	1000	1000	1010	1030	101	102	70-130	1	11	
Iron, Dissolved	ug/L	128000	10000	10000	135000	132000	70	38	70-130	2	10	M1
Lead, Dissolved	ug/L	14.4	1000	1000	912	909	90	89	70-130	0	10	
Nickel, Dissolved	ug/L	19.4	1000	1000	956	958	94	94	70-130	0	10	
Selenium, Dissolved	ug/L	ND	1000	1000	1160	1160	115	115	70-130	0	10	
Silver, Dissolved	ug/L	ND	500	500	519	519	103	103	70-130	0	10	
Thallium, Dissolved	ug/L	ND	1000	1000	858	865	86	86	70-130	1	6	
Zinc, Dissolved	ug/L	1300	1000	1000	2220	2160	92	87	70-130	2	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

QC Batch: MSV/58942 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60161549001, 60161549002

METHOD BLANK: 1320255 | Matrix: Water
Associated Lab Samples: 60161549001, 60161549002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/21/14 14:44	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/21/14 14:44	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/21/14 14:44	
1,2-Dichloroethane	ug/L	ND	1.0	01/21/14 14:44	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/21/14 14:44	
2-Butanone (MEK)	ug/L	ND	10.0	01/21/14 14:44	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/21/14 14:44	N2
Acetone	ug/L	ND	10.0	01/21/14 14:44	N2
Benzene	ug/L	ND	1.0	01/21/14 14:44	
Bromodichloromethane	ug/L	ND	1.0	01/21/14 14:44	
Bromoform	ug/L	ND	1.0	01/21/14 14:44	
Bromomethane	ug/L	ND	5.0	01/21/14 14:44	
Carbon tetrachloride	ug/L	ND	1.0	01/21/14 14:44	
Chloroethane	ug/L	ND	1.0	01/21/14 14:44	
Chloroform	ug/L	ND	1.0	01/21/14 14:44	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/21/14 14:44	N2
Ethylbenzene	ug/L	ND	1.0	01/21/14 14:44	
Methylene chloride	ug/L	ND	1.0	01/21/14 14:44	
Tetrachloroethene	ug/L	ND	1.0	01/21/14 14:44	
Toluene	ug/L	ND	1.0	01/21/14 14:44	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/21/14 14:44	
Trichloroethene	ug/L	ND	1.0	01/21/14 14:44	
Vinyl chloride	ug/L	ND	1.0	01/21/14 14:44	
Xylene (Total)	ug/L	ND	3.0	01/21/14 14:44	N2
1,2-Dichloroethane-d4 (S)	%	92	80-120	01/21/14 14:44	
4-Bromofluorobenzene (S)	%	102	80-120	01/21/14 14:44	
Toluene-d8 (S)	%	103	80-120	01/21/14 14:44	

LABORATORY CONTROL SAMPLE: 1320256

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.5	102	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	59-138	N2
1,1,2-Trichloroethane	ug/L	20	19.8	99	69-127	
1,2-Dichloroethane	ug/L	20	20.1	101	71-129	
1,4-Dichlorobenzene	ug/L	20	19.1	96	68-124	
2-Butanone (MEK)	ug/L	100	82.8	83	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.6	93	61-120	N2
Acetone	ug/L	100	76.4	76	40-160	N2
Benzene	ug/L	20	20.0	100	73-129	
Bromodichloromethane	ug/L	20	20.5	102	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

LABORATORY CONTROL SAMPLE: 1320256

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.9	99	52-123	
Bromomethane	ug/L	20	18.4	92	10-160	
Carbon tetrachloride	ug/L	20	21.4	107	70-140	
Chloroethane	ug/L	20	21.3	107	42-160	
Chloroform	ug/L	20	22.2	111	60-120	
cis-1,2-Dichloroethene	ug/L	20	21.1	105	70-125	N2
Ethylbenzene	ug/L	20	19.3	97	66-133	
Methylene chloride	ug/L	20	21.1	105	56-135	
Tetrachloroethene	ug/L	20	18.4	92	64-143	
Toluene	ug/L	20	19.8	99	70-130	
trans-1,2-Dichloroethene	ug/L	20	21.1	105	67-149	
Trichloroethene	ug/L	20	20.6	103	71-130	
Vinyl chloride	ug/L	20	21.6	108	41-160	
Xylene (Total)	ug/L	60	58.4	97	67-130	N2
1,2-Dichloroethane-d4 (S)	%			103	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Toluene-d8 (S)	%			101	80-120	

MATRIX SPIKE SAMPLE: 1320257

Parameter	Units	60161305001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4190	105	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3820	95	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4070	102	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3780	95	49-155	
1,4-Dichlorobenzene	ug/L	788	4000	4600	95	18-147	
2-Butanone (MEK)	ug/L	57700	20000	79800	111	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	2600	20000	21400	94	40-160	N2
Acetone	ug/L	127000	20000	151000	117	40-160	N2
Benzene	ug/L	ND	4000	4000	99	37-151	
Bromodichloromethane	ug/L	ND	4000	4040	101	35-155	
Bromoform	ug/L	ND	4000	3680	92	45-133	
Bromomethane	ug/L	ND	4000	3550	89	10-160	
Carbon tetrachloride	ug/L	ND	4000	4500	112	70-140	
Chloroethane	ug/L	ND	4000	4170	104	14-160	
Chloroform	ug/L	ND	4000	4460	111	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	4090	102	19-160	N2
Ethylbenzene	ug/L	ND	4000	3830	93	37-154	
Methylene chloride	ug/L	ND	4000	4110	100	15-156	
Tetrachloroethene	ug/L	ND	4000	3900	98	64-148	
Toluene	ug/L	ND	4000	3950	97	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4290	107	54-156	
Trichloroethene	ug/L	ND	4000	4320	108	71-157	
Vinyl chloride	ug/L	ND	4000	4540	113	10-160	
Xylene (Total)	ug/L	ND	12000	11800	99	12-153	N2
1,2-Dichloroethane-d4 (S)	%				99	80-120	
4-Bromofluorobenzene (S)	%				100	80-120	

REPORT OF LABORATORY ANALYSIS

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(913)599-5665

QUALITY CONTROL DATA

Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

MATRIX SPIKE SAMPLE: 1320257

Parameter	Units	60161305001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				102	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

QC Batch: OEXT/42315 | Analysis Method: EPA 625
QC Batch Method: EPA 625 | Analysis Description: 625 MSS
Associated Lab Samples: 60161549001

METHOD BLANK: 1319889 | Matrix: Water
Associated Lab Samples: 60161549001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/22/14 08:07	
2,4,6-Trichlorophenol	ug/L	ND	5.0	01/22/14 08:07	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	01/22/14 08:07	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/22/14 08:07	
Hexachlorocyclopentadiene	ug/L	ND	5.0	01/22/14 08:07	
Hexachloroethane	ug/L	ND	5.0	01/22/14 08:07	
Naphthalene	ug/L	ND	5.0	01/22/14 08:07	
Nitrobenzene	ug/L	ND	5.0	01/22/14 08:07	
Pentachlorophenol	ug/L	ND	5.0	01/22/14 08:07	
Phenol	ug/L	ND	5.0	01/22/14 08:07	
2,4,6-Tribromophenol (S)	%	86	39-120	01/22/14 08:07	
2-Fluorobiphenyl (S)	%	84	39-120	01/22/14 08:07	
2-Fluorophenol (S)	%	44	17-120	01/22/14 08:07	
Nitrobenzene-d5 (S)	%	81	33-120	01/22/14 08:07	
Phenol-d6 (S)	%	28	11-120	01/22/14 08:07	
Terphenyl-d14 (S)	%	85	45-120	01/22/14 08:07	

LABORATORY CONTROL SAMPLE: 1319890

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	38.8	78	46-120	
2,4,6-Trichlorophenol	ug/L	50	41.5	83	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	44.9	90	40-133	
Hexachloro-1,3-butadiene	ug/L	50	36.4	73	44-116	
Hexachlorocyclopentadiene	ug/L	100	57.8	58	24-120	
Hexachloroethane	ug/L	50	34.4	69	43-113	
Naphthalene	ug/L	50	39.4	79	48-120	
Nitrobenzene	ug/L	50	38.5	77	48-120	
Pentachlorophenol	ug/L	50	37.4	75	47-120	
Phenol	ug/L	50	14.0	28	16-112	
2,4,6-Tribromophenol (S)	%			88	39-120	
2-Fluorobiphenyl (S)	%			81	39-120	
2-Fluorophenol (S)	%			40	17-120	
Nitrobenzene-d5 (S)	%			82	33-120	
Phenol-d6 (S)	%			25	11-120	
Terphenyl-d14 (S)	%			84	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

MATRIX SPIKE SAMPLE: 1319891

Parameter	Units	60161305001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	4050	81	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4260	85	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4250J	85	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3850	77	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	7590	76	11-120	
Hexachloroethane	ug/L	ND	5000	3860	77	40-113	
Naphthalene	ug/L	1270	5000	5200	79	45-120	
Nitrobenzene	ug/L	ND	5000	4940	99	38-120	
Pentachlorophenol	ug/L	ND	5000	4550	91	43-135	
Phenol	ug/L	13100	5000	14700	31	13-112	
2,4,6-Tribromophenol (S)	%				91	39-120	
2-Fluorobiphenyl (S)	%				82	39-120	
2-Fluorophenol (S)	%				57	17-120	
Nitrobenzene-d5 (S)	%				142	33-120	S0
Phenol-d6 (S)	%				50	11-120	
Terphenyl-d14 (S)	%				77	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

QC Batch: WET/45810
QC Batch Method: EPA 1664A
Analysis Method: EPA 1664A
Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60161549001

METHOD BLANK: 1322645
Matrix: Water
Associated Lab Samples: 60161549001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/27/14 09:46	

LABORATORY CONTROL SAMPLE: 1322646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.8	100	78-114	

MATRIX SPIKE SAMPLE: 1322647

Parameter	Units	60161847001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	42.1	42.6	98	78-114	

SAMPLE DUPLICATE: 1322648

Parameter	Units	60161548001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1410	1570	11	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

QC Batch: WET/45812
QC Batch Method: EPA 1664A
Analysis Method: EPA 1664A
Analysis Description: 1664 SGT-HEM, TPH
Associated Lab Samples: 60161549001

METHOD BLANK: 1322663
Matrix: Water
Associated Lab Samples: 60161549001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	01/27/14 09:49	

LABORATORY CONTROL SAMPLE: 1322664

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	17.6	88	64-132	

MATRIX SPIKE SAMPLE: 1322665

Parameter	Units	60161235001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	15.6	22.7	33.0	76	64-132	

SAMPLE DUPLICATE: 1322666

Parameter	Units	60161548001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	9.2	8.4	9	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

QC Batch: WET/45751 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60161549001

METHOD BLANK: 1320930 | Matrix: Water
Associated Lab Samples: 60161549001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	01/23/14 14:43	

SAMPLE DUPLICATE: 1320931

Parameter	Units	60161488001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	56.0	60.0	7	25	

SAMPLE DUPLICATE: 1320932

Parameter	Units	60161549001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2980	2980	0	25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

QC Batch: WET/45696
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 60161549001

SAMPLE DUPLICATE: 1319836

Parameter	Units	60161543001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

QC Batch: WET/45697 | Analysis Method: SM 5210B
QC Batch Method: SM 5210B | Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 60161549001

METHOD BLANK: 1319837 | Matrix: Water
Associated Lab Samples: 60161549001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	01/25/14 08:45	

LABORATORY CONTROL SAMPLE: 1319838

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	204	103	85-115	

SAMPLE DUPLICATE: 1319839

Parameter	Units	60161543001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	1150	1160	1	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

QC Batch: WETA/27885
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60161549001

METHOD BLANK: 1320493
Matrix: Water
Associated Lab Samples: 60161549001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	01/22/14 14:29	

LABORATORY CONTROL SAMPLE: 1320494

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	100	90-110	

MATRIX SPIKE SAMPLE: 1320495

Parameter	Units	60161208001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.8	92	90-110	

MATRIX SPIKE SAMPLE: 1320496

Parameter	Units	60161209001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.7	87	90-110	M1

SAMPLE DUPLICATE: 1320497

Parameter	Units	60161212001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

QC Batch: WETA/27927 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 60161549001

METHOD BLANK: 1322530 | Matrix: Water
Associated Lab Samples: 60161549001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	01/27/14 09:47	

LABORATORY CONTROL SAMPLE: 1322531

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	53.6	107	90-110	

MATRIX SPIKE SAMPLE: 1322532

Parameter	Units	60161035001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50	55.4	99	90-110	

SAMPLE DUPLICATE: 1322533

Parameter	Units	60161070001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	17.6	16.8	5	25	

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QUALIFIERS

Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

ANALYTE QUALIFIERS

H3	Sample was received or analysis requested beyond the recognized method holding time.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-197R5
Pace Project No.: 60161549

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60161549001	**316-197-R5**	EPA 200.7	MPRP/25967	EPA 200.7	ICP/19878
60161549001	**316-197-R5**	EPA 200.7	MPRP/25987	EPA 200.7	ICP/19884
60161549001	**316-197-R5**	EPA 245.1	MERP/8089	EPA 245.1	MERC/8045
60161549001	**316-197-R5**	EPA 245.1	MERP/8090	EPA 245.1	MERC/8046
60161549001	**316-197-R5**	EPA 625	OEXT/42315	EPA 625	MSSV/13469
60161549001	**316-197-R5**	EPA 624 Low	MSV/58942		
60161549002	**TRIP BLANK**	EPA 624 Low	MSV/58942		
60161549001	**316-197-R5**	EPA 1664A	WET/45810		
60161549001	**316-197-R5**	EPA 1664A	WET/45812		
60161549001	**316-197-R5**	SM 2540D	WET/45751		
60161549001	**316-197-R5**	SM 4500-H+B	WET/45696		
60161549001	**316-197-R5**	SM 5210B	WET/45697	SM 5210B	WET/45819
60161549001	**316-197-R5**	EPA 350.1	WETA/27885		
60161549001	**316-197-R5**	EPA 410.4	WETA/27927		

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Sample Condition Upon Receipt

WO#: 60161549

60161549

Client Name: Republic - Bare

Optional
Proj Due Date:
Proj Name:

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

Tracking #: _____ Pace Shipping Label Used? Yes ☒ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Other ☐

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 1.8

Date and initials of person examining contents: MJW

Temperature should be above freezing to 6°C

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 & signature on COC:	☒Yes ☐No ☐N/A	4.
Samples arrived within holding time: 1/21/14 MW	☒Yes ☐No ☐N/A	5. BOD Collected 1/18 8:30 out of hold
Short Hold Time analyses (<72hr):	☒Yes ☐No ☐N/A	6. BOD, pH
Rush Turn Around Time requested:	☐Yes ☒No ☐N/A	7.
Sufficient volume:	☒Yes ☐No ☐N/A	8. use 1 AG3S for NH3 added nitric to BP3S by mistake - MW 1/20/14
Correct containers used:	☒Yes ☐No ☐N/A	
Pace containers used:	☒Yes ☐No ☐N/A	9.
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: H_2O	☒Yes ☐No ☐N/A	13.
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	added 2.5ml of HNO_3 to BP3N pH 5/4.0
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☒No ☐N/A	added 2ml of H_2SO_4 to BP3S pH 4.5/3.0 14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☒Yes ☐No	Initial when completed MW Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased): Jun 13 2014	☒Yes ☐No ☐N/A	15.
Headspace in VOA vials (>6mm):	☐Yes ☒No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: HOLD/BOD Narrated

Project Manager Review: MS Date: 1/21/14

F-KS-C-003-Rev 7 04December2012

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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.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	BARR ENGINEERING	Report To:	ED GALBRAITH/BARR	Attention:	JANET ROLLEN
Address:		Copy To:	SCOTT FEDAK/FEEZOR	Company Name:	REPUBLIC SERVICES
			DANA BAKER/MARGARET TREANOR -BARR	Address:	BRIDGETON, MO 63044
Email To:		Purchase Order No.	PO 3727110	Pace Quote Reference:	130426_7588
Phone:	(816) 285-8410 Fax	Client Project ID:	BRIDGETON LF	Pace Project Manager:	Brown, Angie
Requested Due Date/TAT:	10 Day (Default)	Container Order Number:		Pace Profile #:	6787 LINE 2

Regulatory Agency	
State / Location	
	Missouri

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N): COD EPA 410	pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B	Residual Chlorine (Y/N)	L0016549
1	316-197R5	OT	G	1/18/14	0830	—	—		14	10	4	1	0					X	X	X	X	X	X	X	X	X	X	X		001
2	TRIP BLANK								2	2															X					2DG9U 002
3																														
4																														
5																														
6																														METALS LIST total & LF Dis:
7																														Al,Sb,As,Be,Cd,Cr,
8																														Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn
9																														and Mercury
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SITE CONTACT: BILL ABERNATHY 314-502-1299	Paul Lusch/PEI	01-20-14	0845	Bill Stone 412	01-20-14	0845	1.8	Y	Y	Y
SITE ADDRESS: BRIDGETON LF				mjWells/Pace	1/20/14	14:15	I	I	I	I
13570 ST. CHARLES ROCK RD										
BRIDGETON MO 63044										

2A644 1BP3N 4.0
1BP3U
31633S (1A633 = 3.0 for NH3)
2BZ1U
5DG9U
001

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: John Powell

SIGNATURE of SAMPLER: [signature] DATE Signed: 01-18-14

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Lenexa, KS 66219
(913)599-5665

January 27, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: Bridgeton LF 316-198R4
Pace Project No.: 60161548

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 20, 2014. 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,

Mary Jane Walls for
Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project:	Bridgeton LF 316-198R4
Pace Project No.:	60161548

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: Bridgeton LF 316-198R4
Pace Project No.: 60161548

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60161548001	**316-198R4**	Water	01/19/14 10:30	01/20/14 14:15
60161548002	**TRIP BLANK**	Water	01/19/14 08:00	01/20/14 14:15

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SAMPLE ANALYTE COUNT

Project: Bridgeton LF 316-198R4
Pace Project No.: 60161548

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60161548001	**316-198R4**	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	16
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC	1
		SM 4500-H+B	AJM	1
		SM 5210B	JML	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
60161548002	**TRIP BLANK**	EPA 624 Low	EAK	28

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ANALYTICAL RESULTS

Project: Bridgeton LF 316-198R4
Pace Project No.: 60161548

Sample: 316-198R4 **Lab ID: 60161548001** Collected: 01/19/14 10:30 Received: 01/20/14 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	**1810**	ug/L	150	2	01/22/14 15:40	01/23/14 15:07	7429-90-5	
Antimony	**13.1**	ug/L	10.0	1	01/22/14 15:40	01/23/14 15:04	7440-36-0	
Arsenic	**218**	ug/L	10.0	1	01/22/14 15:40	01/23/14 15:04	7440-38-2	
Beryllium	ND	ug/L	1.0	1	01/22/14 15:40	01/23/14 15:04	7440-41-7	
Cadmium	ND	ug/L	5.0	1	01/22/14 15:40	01/23/14 15:04	7440-43-9	
Chromium	**51.9**	ug/L	5.0	1	01/22/14 15:40	01/23/14 15:04	7440-47-3	
Cobalt	**9.5**	ug/L	5.0	1	01/22/14 15:40	01/23/14 15:04	7440-48-4	
Copper	ND	ug/L	10.0	1	01/22/14 15:40	01/23/14 15:04	7440-50-8	
Iron	**168000**	ug/L	50.0	1	01/22/14 15:40	01/23/14 15:04	7439-89-6	
Lead	**23.8**	ug/L	5.0	1	01/22/14 15:40	01/23/14 15:04	7439-92-1	
Nickel	**24.6**	ug/L	5.0	1	01/22/14 15:40	01/23/14 15:04	7440-02-0	
Selenium	ND	ug/L	15.0	1	01/22/14 15:40	01/23/14 15:04	7782-49-2	
Silver	ND	ug/L	7.0	1	01/22/14 15:40	01/23/14 15:04	7440-22-4	
Thallium	ND	ug/L	20.0	1	01/22/14 15:40	01/23/14 15:04	7440-28-0	
Zinc	**1560**	ug/L	100	2	01/22/14 15:40	01/23/14 15:07	7440-66-6	
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	**480**	ug/L	150	2	01/23/14 17:00	01/24/14 13:46	7429-90-5	
Antimony, Dissolved	ND	ug/L	10.0	1	01/23/14 17:00	01/24/14 13:44	7440-36-0	
Arsenic, Dissolved	**174**	ug/L	10.0	1	01/23/14 17:00	01/24/14 13:44	7440-38-2	
Beryllium, Dissolved	ND	ug/L	1.0	1	01/23/14 17:00	01/24/14 13:44	7440-41-7	
Cadmium, Dissolved	ND	ug/L	5.0	1	01/23/14 17:00	01/24/14 13:44	7440-43-9	
Chromium, Dissolved	**46.0**	ug/L	5.0	1	01/23/14 17:00	01/24/14 13:44	7440-47-3	
Cobalt, Dissolved	**6.1**	ug/L	5.0	1	01/23/14 17:00	01/24/14 13:44	7440-48-4	
Copper, Dissolved	ND	ug/L	10.0	1	01/23/14 17:00	01/24/14 13:44	7440-50-8	
Iron, Dissolved	**128000**	ug/L	50.0	1	01/23/14 17:00	01/24/14 13:44	7439-89-6	M1
Lead, Dissolved	**14.4**	ug/L	5.0	1	01/23/14 17:00	01/24/14 13:44	7439-92-1	
Nickel, Dissolved	**19.4**	ug/L	5.0	1	01/23/14 17:00	01/24/14 13:44	7440-02-0	
Selenium, Dissolved	ND	ug/L	15.0	1	01/23/14 17:00	01/24/14 13:44	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	01/23/14 17:00	01/24/14 13:44	7440-22-4	
Thallium, Dissolved	ND	ug/L	20.0	1	01/23/14 17:00	01/24/14 13:44	7440-28-0	
Zinc, Dissolved	**1300**	ug/L	100	2	01/23/14 17:00	01/24/14 13:46	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	6.0	1	01/27/14 10:00	01/27/14 13:08	7439-97-6	
245.1 Mercury, Dissolved (LF)	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	6.0	1	01/27/14 10:00	01/27/14 13:21	7439-97-6	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	01/21/14 00:00	01/22/14 09:52	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	01/21/14 00:00	01/22/14 09:52	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	01/21/14 00:00	01/22/14 09:52	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	01/21/14 00:00	01/22/14 09:52	67-72-1	
Naphthalene	**1850**	ug/L	1000	2	01/21/14 00:00	01/22/14 09:52	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	01/21/14 00:00	01/22/14 09:52	98-95-3	

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ANALYTICAL RESULTS

Project: Bridgeton LF 316-198R4
Pace Project No.: 60161548

Sample: 316-198R4 **Lab ID: 60161548001** Collected: 01/19/14 10:30 Received: 01/20/14 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Pentachlorophenol	ND	ug/L	1000	2	01/21/14 00:00	01/22/14 09:52	87-86-5	
Phenol	**13100**	ug/L	1000	2	01/21/14 00:00	01/22/14 09:52	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	1000	2	01/21/14 00:00	01/22/14 09:52	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	1000	2	01/21/14 00:00	01/22/14 09:52	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	156	%	33-120	2	01/21/14 00:00	01/22/14 09:52	4165-60-0	S0
2-Fluorobiphenyl (S)	88	%	39-120	2	01/21/14 00:00	01/22/14 09:52	321-60-8	
Terphenyl-d14 (S)	79	%	45-120	2	01/21/14 00:00	01/22/14 09:52	1718-51-0	
Phenol-d6 (S)	23	%	11-120	2	01/21/14 00:00	01/22/14 09:52	13127-88-3	
2-Fluorophenol (S)	40	%	17-120	2	01/21/14 00:00	01/22/14 09:52	367-12-4	
2,4,6-Tribromophenol (S)	100	%	39-120	2	01/21/14 00:00	01/22/14 09:52	118-79-6	
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	**142000**	ug/L	2000	200		01/21/14 16:14	67-64-1	N2
Benzene	ND	ug/L	200	200		01/21/14 16:14	71-43-2	
Bromodichloromethane	ND	ug/L	200	200		01/21/14 16:14	75-27-4	
Bromoform	ND	ug/L	200	200		01/21/14 16:14	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/21/14 16:14	74-83-9	
2-Butanone (MEK)	**63000**	ug/L	2000	200		01/21/14 16:14	78-93-3	N2
Carbon tetrachloride	ND	ug/L	200	200		01/21/14 16:14	56-23-5	
Chloroethane	ND	ug/L	200	200		01/21/14 16:14	75-00-3	
Chloroform	ND	ug/L	200	200		01/21/14 16:14	67-66-3	
1,4-Dichlorobenzene	**1640**	ug/L	200	200		01/21/14 16:14	106-46-7	
1,2-Dichloroethane	ND	ug/L	200	200		01/21/14 16:14	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/21/14 16:14	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/21/14 16:14	156-60-5	
Ethylbenzene	**204**	ug/L	200	200		01/21/14 16:14	100-41-4	
Methylene chloride	ND	ug/L	200	200		01/21/14 16:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2830**	ug/L	2000	200		01/21/14 16:14	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		01/21/14 16:14	79-34-5	N2
Tetrachloroethene	ND	ug/L	200	200		01/21/14 16:14	127-18-4	
Toluene	ND	ug/L	200	200		01/21/14 16:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/21/14 16:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		01/21/14 16:14	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/21/14 16:14	79-01-6	
Vinyl chloride	ND	ug/L	200	200		01/21/14 16:14	75-01-4	
Xylene (Total)	**917**	ug/L	600	200		01/21/14 16:14	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	200		01/21/14 16:14	460-00-4	
Toluene-d8 (S)	103	%	80-120	200		01/21/14 16:14	2037-26-5	
1,2-Dichloroethane-d4 (S)	97	%	80-120	200		01/21/14 16:14	17060-07-0	
Preservation pH	**6.0**		1.0	200		01/21/14 16:14		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	**1410**	mg/L	5.0	1		01/27/14 09:47		

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ANALYTICAL RESULTS

Project: Bridgeton LF 316-198R4
Pace Project No.: 60161548

Sample: 316-198R4 **Lab ID: 60161548001** Collected: 01/19/14 10:30 Received: 01/20/14 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	**9.2**	mg/L	5.0	1		01/27/14 09:50		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**1140**	mg/L	5.0	1		01/23/14 14:45		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**5.7**	Std. Units	0.10	1		01/20/14 15:30		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**32800**	mg/L	2.0	1	01/20/14 15:48	01/25/14 09:11		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**613**	mg/L	20.0	200		01/22/14 15:00	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**55600**	mg/L	5000	500		01/27/14 09:56		

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ANALYTICAL RESULTS

Project: Bridgeton LF 316-198R4
Pace Project No.: 60161548

Sample: TRIP BLANK **Lab ID: 60161548002** Collected: 01/19/14 08:00 Received: 01/20/14 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	ND	ug/L	10.0	1		01/21/14 16:29	67-64-1	N2
Benzene	ND	ug/L	1.0	1		01/21/14 16:29	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		01/21/14 16:29	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/21/14 16:29	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/21/14 16:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/21/14 16:29	78-93-3	N2
Carbon tetrachloride	ND	ug/L	1.0	1		01/21/14 16:29	56-23-5	
Chloroethane	ND	ug/L	1.0	1		01/21/14 16:29	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/21/14 16:29	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/21/14 16:29	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/21/14 16:29	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/21/14 16:29	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/21/14 16:29	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/21/14 16:29	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		01/21/14 16:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/21/14 16:29	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/21/14 16:29	79-34-5	N2
Tetrachloroethene	ND	ug/L	1.0	1		01/21/14 16:29	127-18-4	
Toluene	ND	ug/L	1.0	1		01/21/14 16:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/21/14 16:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/21/14 16:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/21/14 16:29	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/21/14 16:29	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/21/14 16:29	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	105	%	80-120	1		01/21/14 16:29	460-00-4	
Toluene-d8 (S)	106	%	80-120	1		01/21/14 16:29	2037-26-5	
1,2-Dichloroethane-d4 (S)	98	%	80-120	1		01/21/14 16:29	17060-07-0	
Preservation pH	**6.0**		1.0	1		01/21/14 16:29		

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QUALITY CONTROL DATA

Project: Bridgeton LF 316-198R4
Pace Project No.: 60161548

QC Batch: MERP/8089
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury
Associated Lab Samples: 60161548001

METHOD BLANK: 1322623
Matrix: Water
Associated Lab Samples: 60161548001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/27/14 13:03	

LABORATORY CONTROL SAMPLE: 1322624

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.1	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322625 1322626

Parameter	Units	60161548001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	150	150	140	120	92	79	70-130	15	20	

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QUALITY CONTROL DATA

Project: Bridgeton LF 316-198R4
Pace Project No.: 60161548

QC Batch: MERP/8090
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60161548001

METHOD BLANK: 1322631
Matrix: Water
Associated Lab Samples: 60161548001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	01/27/14 13:16	

LABORATORY CONTROL SAMPLE: 1322632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.6	91	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322633 1322634

Parameter	Units	60161548001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	138	140	91	93	70-130	2	20	

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QUALITY CONTROL DATA

Project: Bridgeton LF 316-198R4
Pace Project No.: 60161548

QC Batch: MPRP/25967
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60161548001

METHOD BLANK: 1320598
Matrix: Water
Associated Lab Samples: 60161548001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	01/23/14 15:00	
Antimony	ug/L	ND	10.0	01/23/14 15:00	
Arsenic	ug/L	ND	10.0	01/23/14 15:00	
Beryllium	ug/L	ND	1.0	01/23/14 15:00	
Cadmium	ug/L	ND	5.0	01/23/14 15:00	
Chromium	ug/L	ND	5.0	01/23/14 15:00	
Cobalt	ug/L	ND	5.0	01/23/14 15:00	
Copper	ug/L	ND	10.0	01/23/14 15:00	
Iron	ug/L	ND	50.0	01/23/14 15:00	
Lead	ug/L	ND	5.0	01/23/14 15:00	
Nickel	ug/L	ND	5.0	01/23/14 15:00	
Selenium	ug/L	ND	15.0	01/23/14 15:00	
Silver	ug/L	ND	7.0	01/23/14 15:00	
Thallium	ug/L	ND	20.0	01/23/14 15:00	
Zinc	ug/L	ND	50.0	01/23/14 15:00	

LABORATORY CONTROL SAMPLE: 1320599

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9480	95	85-115	
Antimony	ug/L	1000	1020	102	85-115	
Arsenic	ug/L	1000	978	98	85-115	
Beryllium	ug/L	1000	958	96	85-115	
Cadmium	ug/L	1000	1010	101	85-115	
Chromium	ug/L	1000	942	94	85-115	
Cobalt	ug/L	1000	1030	103	85-115	
Copper	ug/L	1000	993	99	85-115	
Iron	ug/L	10000	9390	94	85-115	
Lead	ug/L	1000	1010	101	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	968	97	85-115	
Silver	ug/L	500	483	97	85-115	
Thallium	ug/L	1000	1040	104	85-115	
Zinc	ug/L	1000	982	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1320600 1320601

Parameter	Units	60161578001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	1410	10000	10000	11900	11900	105	105	70-130	1	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bridgeton LF 316-198R4
Pace Project No.: 60161548

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1320600 1320601

Parameter	Units	60161578001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L		1000	1000	1050	1050	105	105	70-130	0	7	
Arsenic	ug/L	ND	1000	1000	1020	1010	102	101	70-130	1	10	
Beryllium	ug/L		1000	1000	985	995	99	99	70-130	1	7	
Cadmium	ug/L	ND	1000	1000	1020	1010	102	101	70-130	1	10	
Chromium	ug/L	ND	1000	1000	955	950	95	95	70-130	1	10	
Cobalt	ug/L		1000	1000	1020	1000	101	100	70-130	1	6	
Copper	ug/L	147	1000	1000	1160	1160	102	102	70-130	0	11	
Iron	ug/L		10000	10000	10100	10000	91	90	70-130	1	10	
Lead	ug/L	13.4	1000	1000	1010	1010	100	100	70-130	0	10	
Nickel	ug/L	10.6	1000	1000	1020	1020	101	100	70-130	0	10	
Selenium	ug/L		1000	1000	980	982	98	98	70-130	0	10	
Silver	ug/L	ND	500	500	496	494	99	99	70-130	0	10	
Thallium	ug/L		1000	1000	1000	998	100	100	70-130	1	6	
Zinc	ug/L	ND	1000	1000	1010	1000	98	97	70-130	1	11	

SAMPLE DUPLICATE: 1321790

Parameter	Units	60161577001 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum	ug/L	4350	4330	0	20	
Antimony	ug/L		17.4	8	20	
Arsenic	ug/L		ND		20	
Beryllium	ug/L		ND		20	
Cadmium	ug/L		ND		20	
Chromium	ug/L		ND		20	
Cobalt	ug/L		ND		20	
Copper	ug/L	14.8	15.1	2	20	
Iron	ug/L		408	1	20	
Lead	ug/L	24.0	26.0	8	20	
Nickel	ug/L		ND		20	
Selenium	ug/L		ND		20	
Silver	ug/L		ND		20	
Thallium	ug/L		ND		20	
Zinc	ug/L	359	359	0	20	

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QUALITY CONTROL DATA

Project: Bridgeton LF 316-198R4
Pace Project No.: 60161548

QC Batch: MPRP/25987
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60161548001

METHOD BLANK: 1321534
Matrix: Water
Associated Lab Samples: 60161548001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	01/24/14 13:41	
Antimony, Dissolved	ug/L	ND	10.0	01/24/14 13:41	
Arsenic, Dissolved	ug/L	ND	10.0	01/24/14 13:41	
Beryllium, Dissolved	ug/L	ND	1.0	01/24/14 13:41	
Cadmium, Dissolved	ug/L	ND	5.0	01/24/14 13:41	
Chromium, Dissolved	ug/L	ND	5.0	01/24/14 13:41	
Cobalt, Dissolved	ug/L	ND	5.0	01/24/14 13:41	
Copper, Dissolved	ug/L	ND	10.0	01/24/14 13:41	
Iron, Dissolved	ug/L	ND	50.0	01/24/14 13:41	
Lead, Dissolved	ug/L	ND	5.0	01/24/14 13:41	
Nickel, Dissolved	ug/L	ND	5.0	01/24/14 13:41	
Selenium, Dissolved	ug/L	ND	15.0	01/24/14 13:41	
Silver, Dissolved	ug/L	ND	7.0	01/24/14 13:41	
Thallium, Dissolved	ug/L	ND	20.0	01/24/14 13:41	
Zinc, Dissolved	ug/L	ND	50.0	01/24/14 13:41	

LABORATORY CONTROL SAMPLE: 1321535

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9980	100	85-115	
Antimony, Dissolved	ug/L	1000	1020	102	85-115	
Arsenic, Dissolved	ug/L	1000	983	98	85-115	
Beryllium, Dissolved	ug/L	1000	1020	102	85-115	
Cadmium, Dissolved	ug/L	1000	1000	100	85-115	
Chromium, Dissolved	ug/L	1000	1010	101	85-115	
Cobalt, Dissolved	ug/L	1000	1020	102	85-115	
Copper, Dissolved	ug/L	1000	994	99	85-115	
Iron, Dissolved	ug/L	10000	10000	100	85-115	
Lead, Dissolved	ug/L	1000	1030	103	85-115	
Nickel, Dissolved	ug/L	1000	1030	103	85-115	
Selenium, Dissolved	ug/L	1000	1000	100	85-115	
Silver, Dissolved	ug/L	500	500	100	85-115	
Thallium, Dissolved	ug/L	1000	1060	106	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1321536 1321537

Parameter	Units	60161548001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	480	10000	10000	10500	10600	101	101	70-130	0	8	

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QUALITY CONTROL DATA

Project: Bridgeton LF 316-198R4
Pace Project No.: 60161548

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1321536 1321537

Parameter	Units	60161548001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	1000	1000	1040	1040	104	103	70-130	0	7	
Arsenic, Dissolved	ug/L	174	1000	1000	1250	1240	108	107	70-130	1	10	
Beryllium, Dissolved	ug/L	ND	1000	1000	983	987	98	99	70-130	0	7	
Cadmium, Dissolved	ug/L	ND	1000	1000	1050	1050	104	104	70-130	0	10	
Chromium, Dissolved	ug/L	46.0	1000	1000	1040	1040	99	100	70-130	1	10	
Cobalt, Dissolved	ug/L	6.1	1000	1000	963	966	96	96	70-130	0	6	
Copper, Dissolved	ug/L	ND	1000	1000	1010	1030	101	102	70-130	1	11	
Iron, Dissolved	ug/L	128000	10000	10000	135000	132000	70	38	70-130	2	10	M1
Lead, Dissolved	ug/L	14.4	1000	1000	912	909	90	89	70-130	0	10	
Nickel, Dissolved	ug/L	19.4	1000	1000	956	958	94	94	70-130	0	10	
Selenium, Dissolved	ug/L	ND	1000	1000	1160	1160	115	115	70-130	0	10	
Silver, Dissolved	ug/L	ND	500	500	519	519	103	103	70-130	0	10	
Thallium, Dissolved	ug/L	ND	1000	1000	858	865	86	86	70-130	1	6	
Zinc, Dissolved	ug/L	1300	1000	1000	2220	2160	92	87	70-130	2	11	

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QUALITY CONTROL DATA

Project: Bridgeton LF 316-198R4
Pace Project No.: 60161548

QC Batch: MSV/58942 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60161548001, 60161548002

METHOD BLANK: 1320255 | Matrix: Water
Associated Lab Samples: 60161548001, 60161548002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/21/14 14:44	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/21/14 14:44	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/21/14 14:44	
1,2-Dichloroethane	ug/L	ND	1.0	01/21/14 14:44	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/21/14 14:44	
2-Butanone (MEK)	ug/L	ND	10.0	01/21/14 14:44	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/21/14 14:44	N2
Acetone	ug/L	ND	10.0	01/21/14 14:44	N2
Benzene	ug/L	ND	1.0	01/21/14 14:44	
Bromodichloromethane	ug/L	ND	1.0	01/21/14 14:44	
Bromoform	ug/L	ND	1.0	01/21/14 14:44	
Bromomethane	ug/L	ND	5.0	01/21/14 14:44	
Carbon tetrachloride	ug/L	ND	1.0	01/21/14 14:44	
Chloroethane	ug/L	ND	1.0	01/21/14 14:44	
Chloroform	ug/L	ND	1.0	01/21/14 14:44	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/21/14 14:44	N2
Ethylbenzene	ug/L	ND	1.0	01/21/14 14:44	
Methylene chloride	ug/L	ND	1.0	01/21/14 14:44	
Tetrachloroethene	ug/L	ND	1.0	01/21/14 14:44	
Toluene	ug/L	ND	1.0	01/21/14 14:44	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/21/14 14:44	
Trichloroethene	ug/L	ND	1.0	01/21/14 14:44	
Vinyl chloride	ug/L	ND	1.0	01/21/14 14:44	
Xylene (Total)	ug/L	ND	3.0	01/21/14 14:44	N2
1,2-Dichloroethane-d4 (S)	%	92	80-120	01/21/14 14:44	
4-Bromofluorobenzene (S)	%	102	80-120	01/21/14 14:44	
Toluene-d8 (S)	%	103	80-120	01/21/14 14:44	

LABORATORY CONTROL SAMPLE: 1320256

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.5	102	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	59-138	N2
1,1,2-Trichloroethane	ug/L	20	19.8	99	69-127	
1,2-Dichloroethane	ug/L	20	20.1	101	71-129	
1,4-Dichlorobenzene	ug/L	20	19.1	96	68-124	
2-Butanone (MEK)	ug/L	100	82.8	83	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.6	93	61-120	N2
Acetone	ug/L	100	76.4	76	40-160	N2
Benzene	ug/L	20	20.0	100	73-129	
Bromodichloromethane	ug/L	20	20.5	102	63-129	

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QUALITY CONTROL DATA

Project: Bridgeton LF 316-198R4
Pace Project No.: 60161548

LABORATORY CONTROL SAMPLE: 1320256

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.9	99	52-123	
Bromomethane	ug/L	20	18.4	92	10-160	
Carbon tetrachloride	ug/L	20	21.4	107	70-140	
Chloroethane	ug/L	20	21.3	107	42-160	
Chloroform	ug/L	20	22.2	111	60-120	
cis-1,2-Dichloroethene	ug/L	20	21.1	105	70-125	N2
Ethylbenzene	ug/L	20	19.3	97	66-133	
Methylene chloride	ug/L	20	21.1	105	56-135	
Tetrachloroethene	ug/L	20	18.4	92	64-143	
Toluene	ug/L	20	19.8	99	70-130	
trans-1,2-Dichloroethene	ug/L	20	21.1	105	67-149	
Trichloroethene	ug/L	20	20.6	103	71-130	
Vinyl chloride	ug/L	20	21.6	108	41-160	
Xylene (Total)	ug/L	60	58.4	97	67-130	N2
1,2-Dichloroethane-d4 (S)	%			103	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Toluene-d8 (S)	%			101	80-120	

MATRIX SPIKE SAMPLE: 1320257

Parameter	Units	60161305001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4190	105	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3820	95	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4070	102	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3780	95	49-155	
1,4-Dichlorobenzene	ug/L	788	4000	4600	95	18-147	
2-Butanone (MEK)	ug/L	57700	20000	79800	111	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	2600	20000	21400	94	40-160	N2
Acetone	ug/L	127000	20000	151000	117	40-160	N2
Benzene	ug/L	ND	4000	4000	99	37-151	
Bromodichloromethane	ug/L	ND	4000	4040	101	35-155	
Bromoform	ug/L	ND	4000	3680	92	45-133	
Bromomethane	ug/L	ND	4000	3550	89	10-160	
Carbon tetrachloride	ug/L	ND	4000	4500	112	70-140	
Chloroethane	ug/L	ND	4000	4170	104	14-160	
Chloroform	ug/L	ND	4000	4460	111	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	4090	102	19-160	N2
Ethylbenzene	ug/L	ND	4000	3830	93	37-154	
Methylene chloride	ug/L	ND	4000	4110	100	15-156	
Tetrachloroethene	ug/L	ND	4000	3900	98	64-148	
Toluene	ug/L	ND	4000	3950	97	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4290	107	54-156	
Trichloroethene	ug/L	ND	4000	4320	108	71-157	
Vinyl chloride	ug/L	ND	4000	4540	113	10-160	
Xylene (Total)	ug/L	ND	12000	11800	99	12-153	N2
1,2-Dichloroethane-d4 (S)	%				99	80-120	
4-Bromofluorobenzene (S)	%				100	80-120	

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QUALITY CONTROL DATA

Project: Bridgeton LF 316-198R4
Pace Project No.: 60161548

MATRIX SPIKE SAMPLE: 1320257

Parameter	Units	60161305001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				102	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: Bridgeton LF 316-198R4
Pace Project No.: 60161548

QC Batch: OEXT/42315 | Analysis Method: EPA 625
QC Batch Method: EPA 625 | Analysis Description: 625 MSS
Associated Lab Samples: 60161548001

METHOD BLANK: 1319889 | Matrix: Water
Associated Lab Samples: 60161548001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/22/14 08:07	
2,4,6-Trichlorophenol	ug/L	ND	5.0	01/22/14 08:07	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	01/22/14 08:07	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/22/14 08:07	
Hexachlorocyclopentadiene	ug/L	ND	5.0	01/22/14 08:07	
Hexachloroethane	ug/L	ND	5.0	01/22/14 08:07	
Naphthalene	ug/L	ND	5.0	01/22/14 08:07	
Nitrobenzene	ug/L	ND	5.0	01/22/14 08:07	
Pentachlorophenol	ug/L	ND	5.0	01/22/14 08:07	
Phenol	ug/L	ND	5.0	01/22/14 08:07	
2,4,6-Tribromophenol (S)	%	86	39-120	01/22/14 08:07	
2-Fluorobiphenyl (S)	%	84	39-120	01/22/14 08:07	
2-Fluorophenol (S)	%	44	17-120	01/22/14 08:07	
Nitrobenzene-d5 (S)	%	81	33-120	01/22/14 08:07	
Phenol-d6 (S)	%	28	11-120	01/22/14 08:07	
Terphenyl-d14 (S)	%	85	45-120	01/22/14 08:07	

LABORATORY CONTROL SAMPLE: 1319890

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	38.8	78	46-120	
2,4,6-Trichlorophenol	ug/L	50	41.5	83	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	44.9	90	40-133	
Hexachloro-1,3-butadiene	ug/L	50	36.4	73	44-116	
Hexachlorocyclopentadiene	ug/L	100	57.8	58	24-120	
Hexachloroethane	ug/L	50	34.4	69	43-113	
Naphthalene	ug/L	50	39.4	79	48-120	
Nitrobenzene	ug/L	50	38.5	77	48-120	
Pentachlorophenol	ug/L	50	37.4	75	47-120	
Phenol	ug/L	50	14.0	28	16-112	
2,4,6-Tribromophenol (S)	%			88	39-120	
2-Fluorobiphenyl (S)	%			81	39-120	
2-Fluorophenol (S)	%			40	17-120	
Nitrobenzene-d5 (S)	%			82	33-120	
Phenol-d6 (S)	%			25	11-120	
Terphenyl-d14 (S)	%			84	45-120	

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QUALITY CONTROL DATA

Project: Bridgeton LF 316-198R4
Pace Project No.: 60161548

MATRIX SPIKE SAMPLE: 1319891

Parameter	Units	60161305001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	4050	81	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4260	85	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4250J	85	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3850	77	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	7590	76	11-120	
Hexachloroethane	ug/L	ND	5000	3860	77	40-113	
Naphthalene	ug/L	1270	5000	5200	79	45-120	
Nitrobenzene	ug/L	ND	5000	4940	99	38-120	
Pentachlorophenol	ug/L	ND	5000	4550	91	43-135	
Phenol	ug/L	13100	5000	14700	31	13-112	
2,4,6-Tribromophenol (S)	%				91	39-120	
2-Fluorobiphenyl (S)	%				82	39-120	
2-Fluorophenol (S)	%				57	17-120	
Nitrobenzene-d5 (S)	%				142	33-120	S0
Phenol-d6 (S)	%				50	11-120	
Terphenyl-d14 (S)	%				77	45-120	

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QUALITY CONTROL DATA

Project: Bridgeton LF 316-198R4
Pace Project No.: 60161548

QC Batch: WET/45810 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60161548001

METHOD BLANK: 1322645 | Matrix: Water
Associated Lab Samples: 60161548001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/27/14 09:46	

LABORATORY CONTROL SAMPLE: 1322646

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.8	100	78-114	

MATRIX SPIKE SAMPLE: 1322647

Parameter	Units	60161847001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	42.1	42.6	98	78-114	

SAMPLE DUPLICATE: 1322648

Parameter	Units	60161548001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1410	1570	11	18	

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QUALITY CONTROL DATA

Project: Bridgeton LF 316-198R4
Pace Project No.: 60161548

QC Batch: WET/45812
QC Batch Method: EPA 1664A
Analysis Method: EPA 1664A
Analysis Description: 1664 SGT-HEM, TPH
Associated Lab Samples: 60161548001

METHOD BLANK: 1322663
Matrix: Water
Associated Lab Samples: 60161548001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	01/27/14 09:49	

LABORATORY CONTROL SAMPLE: 1322664

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	17.6	88	64-132	

MATRIX SPIKE SAMPLE: 1322665

Parameter	Units	60161235001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	15.6	22.7	33.0	76	64-132	

SAMPLE DUPLICATE: 1322666

Parameter	Units	60161548001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	9.2	8.4	9	34	

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QUALITY CONTROL DATA

Project: Bridgeton LF 316-198R4
Pace Project No.: 60161548

QC Batch: WET/45751 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60161548001

METHOD BLANK: 1320930 | Matrix: Water
Associated Lab Samples: 60161548001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	01/23/14 14:43	

SAMPLE DUPLICATE: 1320931

Parameter	Units	60161488001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	56.0	60.0	7	25	

SAMPLE DUPLICATE: 1320932

Parameter	Units	60161549001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2980	2980	0	25	

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QUALITY CONTROL DATA

Project: Bridgeton LF 316-198R4
Pace Project No.: 60161548

QC Batch: WET/45696
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 60161548001

SAMPLE DUPLICATE: 1319836

Parameter	Units	60161543001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	0	5	H6

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QUALITY CONTROL DATA

Project: Bridgeton LF 316-198R4
Pace Project No.: 60161548

QC Batch: WET/45697
QC Batch Method: SM 5210B
Analysis Method: SM 5210B
Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 60161548001

METHOD BLANK: 1319837
Matrix: Water
Associated Lab Samples: 60161548001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	01/25/14 08:45	

LABORATORY CONTROL SAMPLE: 1319838

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	204	103	85-115	

SAMPLE DUPLICATE: 1319839

Parameter	Units	60161543001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	1150	1160	1	17	

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QUALITY CONTROL DATA

Project: Bridgeton LF 316-198R4
Pace Project No.: 60161548

QC Batch: WETA/27885 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60161548001

METHOD BLANK: 1320493 | Matrix: Water
Associated Lab Samples: 60161548001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	01/22/14 14:29	

LABORATORY CONTROL SAMPLE: 1320494

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	100	90-110	

MATRIX SPIKE SAMPLE: 1320495

Parameter	Units	60161208001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.8	92	90-110	

MATRIX SPIKE SAMPLE: 1320496

Parameter	Units	60161209001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.7	87	90-110	M1

SAMPLE DUPLICATE: 1320497

Parameter	Units	60161212001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: Bridgeton LF 316-198R4
Pace Project No.: 60161548

QC Batch: WETA/27927 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 60161548001

METHOD BLANK: 1322530 | Matrix: Water
Associated Lab Samples: 60161548001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	01/27/14 09:47	

LABORATORY CONTROL SAMPLE: 1322531

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	53.6	107	90-110	

MATRIX SPIKE SAMPLE: 1322532

Parameter	Units	60161035001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50	55.4	99	90-110	

SAMPLE DUPLICATE: 1322533

Parameter	Units	60161070001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	17.6	16.8	5	25	

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QUALIFIERS

Project: Bridgeton LF 316-198R4
Pace Project No.: 60161548

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

ANALYTE QUALIFIERS

H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton LF 316-198R4
Pace Project No.: 60161548

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60161548001	**316-198R4**	EPA 200.7	MPRP/25967	EPA 200.7	ICP/19878
60161548001	**316-198R4**	EPA 200.7	MPRP/25987	EPA 200.7	ICP/19884
60161548001	**316-198R4**	EPA 245.1	MERP/8089	EPA 245.1	MERC/8045
60161548001	**316-198R4**	EPA 245.1	MERP/8090	EPA 245.1	MERC/8046
60161548001	**316-198R4**	EPA 625	OEXT/42315	EPA 625	MSSV/13469
60161548001	**316-198R4**	EPA 624 Low	MSV/58942		
60161548002	**TRIP BLANK**	EPA 624 Low	MSV/58942		
60161548001	**316-198R4**	EPA 1664A	WET/45810		
60161548001	**316-198R4**	EPA 1664A	WET/45812		
60161548001	**316-198R4**	SM 2540D	WET/45751		
60161548001	**316-198R4**	SM 4500-H+B	WET/45696		
60161548001	**316-198R4**	SM 5210B	WET/45697	SM 5210B	WET/45819
60161548001	**316-198R4**	EPA 350.1	WETA/27885		
60161548001	**316-198R4**	EPA 410.4	WETA/27927		

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Sample Condition Upon Receipt

WO#: 60161548

60161548

Client Name: Republic_Barr

Optional
Proj Due Date:
Proj Name:

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

Tracking #: _____ Pace Shipping Label Used? Yes ☒ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☐ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Other ☐

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 1.0

Date and initials of person examining contents: MJW

Temperature should be above freezing to 6°C

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 & signature on COC:	☒Yes	☐No	☐N/A	4.
Samples arrived within holding time:	☒Yes	☐No	☐N/A	5.
Short Hold Time analyses (<72hr):	☒Yes	☐No	☐N/A	6. BOD
Rush Turn Around Time requested:	☐Yes	☒No	☐N/A	7.
Sufficient volume:	☒Yes	☐No	☐N/A	8.
Correct containers used:	☒Yes	☐No	☐N/A	
Pace containers used:	☒Yes	☐No	☐N/A	9.
Containers intact:	☒Yes	☐No	☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes	☐No	☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes	☐No	☒N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix:	☐Yes	☐No	☐N/A	13.
All containers needing preservation have been checked.	☒Yes	☐No	☐N/A	added 2.5ml HNO3 to BP3N 6/4.0 added 2 ml of H2SO4 to BP3S 6/4.0
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☒No	☐N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☒Yes	☐No		Initial when completed / Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased): Dec 23 2013	☒Yes	☐No	☐N/A	15.
Headspace in VOA vials (>6mm):	☐Yes	☒No	☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes	☐No	☒N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 1/2/14

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A — Required Client Information:

Company:	BARR ENGINEERING
Address:	
Email To:	
Phone:	(816) 285-8410 Fax
Requested Due Date/TAT:	10 Day (Default)

Section B — Required Project Information:

Report To:	ED GALBRAITH/BARR
Copy To:	SCOTT FEDAK/FEEZOR
	DANA BAKER/MARGARET TREANOR -BARR
Purchase Order No.	PO 3727110
Client Project ID:	BRIDGETON LF
Container Order Number:	

Section C — Invoice Information:

Attention:	JANET ROLLEN
Company Name:	REPUBLIC SERVICES
Address:	BRIDGETON, MO 63044
Pace Quote Reference:	130426_7588
Pace Project Manager:	Brown, Angie
Pace Profile #:	6787 LINE 2

Regulatory Agency
State / Location
Missouri

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

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N): COD EPA 410	pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B	Residual Chlorine (Y/N)	60161548
1	316-198R4	OT	G	1/14/14	10:30	—	—		14	10	4	1	0					X	X	X	X	X	X	X	X	X	X	X		001
2	TRIP BLANK								2	2														X						2DG9U 002
3																														
4																														
5																														
6																														METALS LIST total & LF Dis:
7																														Al,Sb,As,Be,Cd,Cr,
8																														Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn
9																														and Mercury
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	Paul Livsoth / FEI	01-20-14	0845	Bill Stein 412	01-20-14	0845		Y		
SITE ADDRESS: BRIDGETON LF				Mike Collo / Pace	1/20/14	14:15	1.0	Y	Y	Y
13570 ST. CHARLES ROCK RD										
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Kyle Kramer					
SIGNATURE of SAMPLER:	Kyle Kramer	DATE Signed: 1-19-14				

2AG4U 3PP 2U
4P3U 5DG9U
1AG3S
3P3N 4.0
3P3S 4.0
001

Barr Engineering Company
Routine Level Quality Control Report

Project #	25/87-1014.00 EBG5 002	**Project Name**	Bridgeton Landfill
Laboratory	Pace Kansas	**COC(s)/Event**	60161613; 316-199R2
Lab Report #	60161613	**Matrix**	Water-'Other'
Report Date	1/29/2014	**Review Date**	1/30/2014
Holding Times Met	Yes	**Reviewed By**	JET (2nd review DLB)
If no, comments	pH < 7 days	**Posted to QC Track?**	O
		Revised Report?	O **Rev #**
Temps on Receipt (°C)	3.2°C	**Data Report Request #**	

Method Blanks

Total Metals:	MB 1322036/1322778; All ND
Dissolved Metals:	MB 1321534/1322631; All ND
VOCs:	MB 1321838; All ND
SVOCs:	MB 1320964; All ND
O&G:	MB 1322846; ND
TPH:	MB 1323525; ND
GPs:	All ND

Field Blanks

Not included.

Trip Blanks (VOCs Only)

Trip Blank (1/20/2014); All ND

Field Duplicates (if applicable)

Not included.

LCS/LCSD

	%Rec	RPD
Total Metals:	All acceptable (85%-115%)	--
Dissolved Metals:	All acceptable (85%-115%)	--
VOCs:	All acceptable	--
SVOCs:	All acceptable	--
O&G:	Acceptable	--
TPH:	Acceptable	--
GPs:	All acceptable	--

MS/MSD

	%Rec	RPD
Total Metals:	Metals-Batch QC; all ok(70%-130%)	%R, RPD ok
	Hg- Project QC;spike low (50%)	Hg-MSD
	MS only; **flag data (*)**	batch
Diss. Metals:	Batch QC; all ok except Fe, No data flag (4X rule)	%R, RPD ok
VOCs:	Project QC (316-199R2); All ok	n/a
SVOC:	Project QC; All ok except Phenol low (2%); **flag data (*)**	n/a
O&G:	Project QC; acceptable	n/a
TPH:	Project QC; acceptable	n/a
GPs:	Batch QC; COD ok, NH3 low (87%)	n/a

Surrogates (if applicable)

GPs: (Con't):	no data flag.
SVOC-	All acceptable except Nitrobenzene-d5 (S) failed high 2X; no data flag.
VOC-	All acceptable

Lab Duplicates (if applicable)

O&G:	ok (batch)	BOD:	ok (batch)
O&G-SG:	ok (batch)	NH3, COD:	NH3-Batch; ok
pH:	ok (batch)		COD-Project; ok
TSS:	Batch QC 2X; both failed (RPD>10%); no data flag.		

Master Worksheet located at:
W:\Business Units\AR\Subunit Admin\Practices-Processes\QCTRACK\MASTER SOP File\Data Val Wrksht Rev 2011 locked.xlsx

Additional Notes (include historical comparison, if appropriate)
All data is acceptable after qualification adjustment.

Qualifier Summary		Qualifier Changes		
Sample Name	Parameter	Added	Removed	Retained
316-199R2	Total Mercury	*	M1	
316-199R2	Phenol	*	M1	
316-199R2	Nitrobenzene-d5 (S)		SO	
316-199R2	VOC-where present		N2	
316-199R2	pH		H6	
Trip Blank	VOC-where present		N2	

Additional Notes to DM

For DM Use Only	
Equis Y / N	Data Tech Init:
Facility ID:	Date entered into Equis:

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January 29, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-200
Pace Project No.: 60161614

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 22, 2014. 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,

Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

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CERTIFICATIONS

Project: BRIDGETON LF 316-200
Pace Project No.: 60161614

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-200
Pace Project No.: 60161614

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60161614001	**316-200**	Water	01/21/14 09:30	01/22/14 02:05
60161614002	**TRIP BLANK**	Water	01/21/14 09:30	01/22/14 02:05

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-200
Pace Project No.: 60161614

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60161614001	**316-200**	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	16
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC	1
		SM 4500-H+B	JML	1
		SM 5210B	JML	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC	1
60161614002	**TRIP BLANK**	EPA 624 Low	EAK	28

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-200
Pace Project No.: 60161614

Sample: 316-200 **Lab ID: 60161614001** Collected: 01/21/14 09:30 Received: 01/22/14 02:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	**7960**	ug/L	750	2	01/27/14 09:55	01/27/14 16:24	7429-90-5	
Antimony	**55.6**	ug/L	50.0	1	01/27/14 09:55	01/27/14 16:22	7440-36-0	
Arsenic	**877**	ug/L	50.0	1	01/27/14 09:55	01/27/14 16:22	7440-38-2	
Beryllium	ND	ug/L	5.0	1	01/27/14 09:55	01/27/14 16:22	7440-41-7	
Cadmium	ND	ug/L	25.0	1	01/27/14 09:55	01/27/14 16:22	7440-43-9	
Chromium	**224**	ug/L	25.0	1	01/27/14 09:55	01/27/14 16:22	7440-47-3	
Cobalt	**38.9**	ug/L	25.0	1	01/27/14 09:55	01/27/14 16:22	7440-48-4	
Copper	ND	ug/L	50.0	1	01/27/14 09:55	01/27/14 16:22	7440-50-8	
Iron	**548000**	ug/L	250	1	01/27/14 09:55	01/27/14 16:22	7439-89-6	
Lead	**95.6**	ug/L	25.0	1	01/27/14 09:55	01/27/14 16:22	7439-92-1	
Nickel	**100**	ug/L	25.0	1	01/27/14 09:55	01/27/14 16:22	7440-02-0	
Selenium	ND	ug/L	75.0	1	01/27/14 09:55	01/27/14 16:22	7782-49-2	
Silver	ND	ug/L	35.0	1	01/27/14 09:55	01/27/14 16:22	7440-22-4	
Thallium	ND	ug/L	100	1	01/27/14 09:55	01/27/14 16:22	7440-28-0	
Zinc	**6080**	ug/L	500	2	01/27/14 09:55	01/27/14 16:24	7440-66-6	
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	**426**	ug/L	150	2	01/23/14 17:00	01/24/14 14:14	7429-90-5	
Antimony, Dissolved	ND	ug/L	10.0	1	01/23/14 17:00	01/24/14 14:12	7440-36-0	
Arsenic, Dissolved	**142**	ug/L	10.0	1	01/23/14 17:00	01/24/14 14:12	7440-38-2	
Beryllium, Dissolved	ND	ug/L	1.0	1	01/23/14 17:00	01/24/14 14:12	7440-41-7	
Cadmium, Dissolved	ND	ug/L	5.0	1	01/23/14 17:00	01/24/14 14:12	7440-43-9	
Chromium, Dissolved	**42.8**	ug/L	5.0	1	01/23/14 17:00	01/24/14 14:12	7440-47-3	
Cobalt, Dissolved	**5.9**	ug/L	5.0	1	01/23/14 17:00	01/24/14 14:12	7440-48-4	
Copper, Dissolved	ND	ug/L	10.0	1	01/23/14 17:00	01/24/14 14:12	7440-50-8	
Iron, Dissolved	**111000**	ug/L	50.0	1	01/23/14 17:00	01/24/14 14:12	7439-89-6	
Lead, Dissolved	**14.4**	ug/L	10.0	2	01/23/14 17:00	01/24/14 14:14	7439-92-1	
Nickel, Dissolved	**16.9**	ug/L	5.0	1	01/23/14 17:00	01/24/14 14:12	7440-02-0	
Selenium, Dissolved	ND	ug/L	15.0	1	01/23/14 17:00	01/24/14 14:12	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	01/23/14 17:00	01/24/14 14:12	7440-22-4	
Thallium, Dissolved	ND	ug/L	20.0	1	01/23/14 17:00	01/24/14 14:12	7440-28-0	
Zinc, Dissolved	**960**	ug/L	100	2	01/23/14 17:00	01/24/14 14:14	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	6.0	1	01/27/14 16:30	01/28/14 10:42	7439-97-6	
245.1 Mercury, Dissolved (LF)	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	6.0	1	01/27/14 10:00	01/27/14 13:36	7439-97-6	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	01/23/14 00:00	01/28/14 14:13	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	01/23/14 00:00	01/28/14 14:13	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	01/23/14 00:00	01/28/14 14:13	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	01/23/14 00:00	01/28/14 14:13	67-72-1	
Naphthalene	ND	ug/L	1000	2	01/23/14 00:00	01/28/14 14:13	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	01/23/14 00:00	01/28/14 14:13	98-95-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-200
Pace Project No.: 60161614

Sample: 316-200 **Lab ID: 60161614001** Collected: 01/21/14 09:30 Received: 01/22/14 02:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Pentachlorophenol	ND	ug/L	1000	2	01/23/14 00:00	01/28/14 14:13	87-86-5	
Phenol	**11500**	ug/L	1000	2	01/23/14 00:00	01/28/14 14:13	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	1000	2	01/23/14 00:00	01/28/14 14:13	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	1000	2	01/23/14 00:00	01/28/14 14:13	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	136	%	33-120	2	01/23/14 00:00	01/28/14 14:13	4165-60-0	S0
2-Fluorobiphenyl (S)	77	%	39-120	2	01/23/14 00:00	01/28/14 14:13	321-60-8	
Terphenyl-d14 (S)	76	%	45-120	2	01/23/14 00:00	01/28/14 14:13	1718-51-0	
Phenol-d6 (S)	39	%	11-120	2	01/23/14 00:00	01/28/14 14:13	13127-88-3	
2-Fluorophenol (S)	49	%	17-120	2	01/23/14 00:00	01/28/14 14:13	367-12-4	
2,4,6-Tribromophenol (S)	87	%	39-120	2	01/23/14 00:00	01/28/14 14:13	118-79-6	
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	**95400**	ug/L	2000	200		01/24/14 11:38	67-64-1	N2
Benzene	ND	ug/L	200	200		01/24/14 11:38	71-43-2	
Bromodichloromethane	ND	ug/L	200	200		01/24/14 11:38	75-27-4	
Bromoform	ND	ug/L	200	200		01/24/14 11:38	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/24/14 11:38	74-83-9	
2-Butanone (MEK)	**45700**	ug/L	2000	200		01/24/14 11:38	78-93-3	N2
Carbon tetrachloride	ND	ug/L	200	200		01/24/14 11:38	56-23-5	
Chloroethane	ND	ug/L	200	200		01/24/14 11:38	75-00-3	
Chloroform	ND	ug/L	200	200		01/24/14 11:38	67-66-3	
1,4-Dichlorobenzene	**603**	ug/L	200	200		01/24/14 11:38	106-46-7	
1,2-Dichloroethane	ND	ug/L	200	200		01/24/14 11:38	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/24/14 11:38	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/24/14 11:38	156-60-5	
Ethylbenzene	ND	ug/L	200	200		01/24/14 11:38	100-41-4	
Methylene chloride	ND	ug/L	200	200		01/24/14 11:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2050**	ug/L	2000	200		01/24/14 11:38	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		01/24/14 11:38	79-34-5	N2
Tetrachloroethene	ND	ug/L	200	200		01/24/14 11:38	127-18-4	
Toluene	ND	ug/L	200	200		01/24/14 11:38	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/24/14 11:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		01/24/14 11:38	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/24/14 11:38	79-01-6	
Vinyl chloride	ND	ug/L	200	200		01/24/14 11:38	75-01-4	
Xylene (Total)	ND	ug/L	600	200		01/24/14 11:38	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	103	%	80-120	200		01/24/14 11:38	460-00-4	
Toluene-d8 (S)	94	%	80-120	200		01/24/14 11:38	2037-26-5	
1,2-Dichloroethane-d4 (S)	83	%	80-120	200		01/24/14 11:38	17060-07-0	
Preservation pH	**6.0**		1.0	200		01/24/14 11:38		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	**281**	mg/L	5.0	1		01/28/14 08:23		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-200
Pace Project No.: 60161614

Sample: 316-200 **Lab ID: 60161614001** Collected: 01/21/14 09:30 Received: 01/22/14 02:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	**9.2**	mg/L	5.0	1		01/29/14 07:59		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**4480**	mg/L	5.0	1		01/24/14 13:33		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**5.6**	Std. Units	0.10	1		01/22/14 14:29		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**28100**	mg/L	2.0	1	01/22/14 11:45	01/27/14 09:41		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**577**	mg/L	20.0	200		01/22/14 15:04	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**49100**	mg/L	5000	500		01/29/14 10:01		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-200
Pace Project No.: 60161614

Sample: TRIP BLANK **Lab ID: 60161614002** Collected: 01/21/14 09:30 Received: 01/22/14 02:05 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	ND	ug/L	10.0	1		01/24/14 11:53	67-64-1	N2
Benzene	ND	ug/L	1.0	1		01/24/14 11:53	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		01/24/14 11:53	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/24/14 11:53	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/24/14 11:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/24/14 11:53	78-93-3	N2
Carbon tetrachloride	ND	ug/L	1.0	1		01/24/14 11:53	56-23-5	
Chloroethane	ND	ug/L	1.0	1		01/24/14 11:53	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/24/14 11:53	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/24/14 11:53	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/24/14 11:53	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/24/14 11:53	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/24/14 11:53	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/24/14 11:53	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		01/24/14 11:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/24/14 11:53	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/24/14 11:53	79-34-5	N2
Tetrachloroethene	ND	ug/L	1.0	1		01/24/14 11:53	127-18-4	
Toluene	ND	ug/L	1.0	1		01/24/14 11:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/24/14 11:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/24/14 11:53	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/24/14 11:53	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/24/14 11:53	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/24/14 11:53	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	1		01/24/14 11:53	460-00-4	
Toluene-d8 (S)	96	%	80-120	1		01/24/14 11:53	2037-26-5	
1,2-Dichloroethane-d4 (S)	85	%	80-120	1		01/24/14 11:53	17060-07-0	
Preservation pH	**6.0**		1.0	1		01/24/14 11:53		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-200
Pace Project No.: 60161614

QC Batch: MERP/8092 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury
Associated Lab Samples: 60161614001

METHOD BLANK: 1322778 | Matrix: Water
Associated Lab Samples: 60161614001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/28/14 10:27	

LABORATORY CONTROL SAMPLE: 1322779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322780 1322781

Parameter	Units	60161543001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	3.6	3.7	71	73	70-130	3	20	

MATRIX SPIKE SAMPLE: 1322782

Parameter	Units	60161613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	150	76.5	50	70-130	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-200
Pace Project No.: 60161614

QC Batch: MERP/8090
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60161614001

METHOD BLANK: 1322631
Matrix: Water
Associated Lab Samples: 60161614001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	01/27/14 13:16	

LABORATORY CONTROL SAMPLE: 1322632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.6	91	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322633 1322634

Parameter	Units	60161548001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	138	140	91	93	70-130	2	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-200
Pace Project No.: 60161614

QC Batch: MPRP/25997
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60161614001

METHOD BLANK: 1322036
Matrix: Water
Associated Lab Samples: 60161614001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	01/27/14 16:12	
Antimony	ug/L	ND	10.0	01/27/14 16:12	
Arsenic	ug/L	ND	10.0	01/27/14 16:12	
Beryllium	ug/L	ND	1.0	01/27/14 16:12	
Cadmium	ug/L	ND	5.0	01/27/14 16:12	
Chromium	ug/L	ND	5.0	01/27/14 16:12	
Cobalt	ug/L	ND	5.0	01/27/14 16:12	
Copper	ug/L	ND	10.0	01/27/14 16:12	
Iron	ug/L	ND	50.0	01/27/14 16:12	
Lead	ug/L	ND	5.0	01/27/14 16:12	
Nickel	ug/L	ND	5.0	01/27/14 16:12	
Selenium	ug/L	ND	15.0	01/27/14 16:12	
Silver	ug/L	ND	7.0	01/27/14 16:12	
Thallium	ug/L	ND	20.0	01/27/14 16:12	
Zinc	ug/L	ND	50.0	01/27/14 16:12	

LABORATORY CONTROL SAMPLE: 1322037

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9720	97	85-115	
Antimony	ug/L	1000	1030	103	85-115	
Arsenic	ug/L	1000	975	98	85-115	
Beryllium	ug/L	1000	978	98	85-115	
Cadmium	ug/L	1000	1000	100	85-115	
Chromium	ug/L	1000	961	96	85-115	
Cobalt	ug/L	1000	1010	101	85-115	
Copper	ug/L	1000	1000	100	85-115	
Iron	ug/L	10000	9600	96	85-115	
Lead	ug/L	1000	1020	102	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	1000	100	85-115	
Silver	ug/L	500	493	99	85-115	
Thallium	ug/L	1000	1050	105	85-115	
Zinc	ug/L	1000	980	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322038 1322039

Parameter	Units	60161622007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	146	10000	10000	10300	10300	102	101	70-130	0	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-200
Pace Project No.: 60161614

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322038 1322039

Parameter	Units	60161622007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	1000	1000	1090	1080	109	108	70-130	1	7	
Arsenic	ug/L	ND	1000	1000	1040	1040	104	104	70-130	0	10	
Beryllium	ug/L	ND	1000	1000	1010	1000	101	100	70-130	1	7	
Cadmium	ug/L	ND	1000	1000	1040	1040	104	104	70-130	0	10	
Chromium	ug/L	ND	1000	1000	972	967	97	97	70-130	1	10	
Cobalt	ug/L	ND	1000	1000	1010	1000	101	100	70-130	1	6	
Copper	ug/L	51.0	1000	1000	1100	1100	105	105	70-130	0	11	
Iron	ug/L	226	10000	10000	9870	9850	96	96	70-130	0	10	
Lead	ug/L	ND	1000	1000	1000	995	100	99	70-130	1	10	
Nickel	ug/L	ND	1000	1000	1010	1010	101	101	70-130	0	10	
Selenium	ug/L	ND	1000	1000	1060	1060	106	105	70-130	1	10	
Silver	ug/L	ND	500	500	511	512	102	102	70-130	0	10	
Thallium	ug/L	ND	1000	1000	997	998	100	100	70-130	0	6	
Zinc	ug/L	61.6	1000	1000	1020	1020	96	96	70-130	0	11	

MATRIX SPIKE SAMPLE: 1322040

Parameter	Units	60161735007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	ND	10000	10200	102	70-130	
Antimony	ug/L	ND	1000	1080	108	70-130	
Arsenic	ug/L	ND	1000	1040	104	70-130	
Beryllium	ug/L	ND	1000	1010	101	70-130	
Cadmium	ug/L	ND	1000	1040	104	70-130	
Chromium	ug/L	ND	1000	977	98	70-130	
Cobalt	ug/L	ND	1000	1000	100	70-130	
Copper	ug/L	11.7	1000	1060	104	70-130	
Iron	ug/L	ND	10000	9680	96	70-130	
Lead	ug/L	ND	1000	1010	101	70-130	
Nickel	ug/L	ND	1000	1010	101	70-130	
Selenium	ug/L	ND	1000	1050	105	70-130	
Silver	ug/L	ND	500	513	102	70-130	
Thallium	ug/L	ND	1000	993	99	70-130	
Zinc	ug/L	63.9	1000	1030	97	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-200
Pace Project No.: 60161614

QC Batch: MPRP/25987
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60161614001

METHOD BLANK: 1321534
Matrix: Water
Associated Lab Samples: 60161614001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	01/24/14 13:41	
Antimony, Dissolved	ug/L	ND	10.0	01/24/14 13:41	
Arsenic, Dissolved	ug/L	ND	10.0	01/24/14 13:41	
Beryllium, Dissolved	ug/L	ND	1.0	01/24/14 13:41	
Cadmium, Dissolved	ug/L	ND	5.0	01/24/14 13:41	
Chromium, Dissolved	ug/L	ND	5.0	01/24/14 13:41	
Cobalt, Dissolved	ug/L	ND	5.0	01/24/14 13:41	
Copper, Dissolved	ug/L	ND	10.0	01/24/14 13:41	
Iron, Dissolved	ug/L	ND	50.0	01/24/14 13:41	
Lead, Dissolved	ug/L	ND	5.0	01/24/14 13:41	
Nickel, Dissolved	ug/L	ND	5.0	01/24/14 13:41	
Selenium, Dissolved	ug/L	ND	15.0	01/24/14 13:41	
Silver, Dissolved	ug/L	ND	7.0	01/24/14 13:41	
Thallium, Dissolved	ug/L	ND	20.0	01/24/14 13:41	
Zinc, Dissolved	ug/L	ND	50.0	01/24/14 13:41	

LABORATORY CONTROL SAMPLE: 1321535

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9980	100	85-115	
Antimony, Dissolved	ug/L	1000	1020	102	85-115	
Arsenic, Dissolved	ug/L	1000	983	98	85-115	
Beryllium, Dissolved	ug/L	1000	1020	102	85-115	
Cadmium, Dissolved	ug/L	1000	1000	100	85-115	
Chromium, Dissolved	ug/L	1000	1010	101	85-115	
Cobalt, Dissolved	ug/L	1000	1020	102	85-115	
Copper, Dissolved	ug/L	1000	994	99	85-115	
Iron, Dissolved	ug/L	10000	10000	100	85-115	
Lead, Dissolved	ug/L	1000	1030	103	85-115	
Nickel, Dissolved	ug/L	1000	1030	103	85-115	
Selenium, Dissolved	ug/L	1000	1000	100	85-115	
Silver, Dissolved	ug/L	500	500	100	85-115	
Thallium, Dissolved	ug/L	1000	1060	106	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1321536 1321537

Parameter	Units	60161548001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	480	10000	10000	10500	10600	101	101	70-130	0	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-200
Pace Project No.: 60161614

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1321536 1321537

Parameter	Units	60161548001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	1000	1000	1040	1040	104	103	70-130	0	7	
Arsenic, Dissolved	ug/L	174	1000	1000	1250	1240	108	107	70-130	1	10	
Beryllium, Dissolved	ug/L	ND	1000	1000	983	987	98	99	70-130	0	7	
Cadmium, Dissolved	ug/L	ND	1000	1000	1050	1050	104	104	70-130	0	10	
Chromium, Dissolved	ug/L	46.0	1000	1000	1040	1040	99	100	70-130	1	10	
Cobalt, Dissolved	ug/L	6.1	1000	1000	963	966	96	96	70-130	0	6	
Copper, Dissolved	ug/L	ND	1000	1000	1010	1030	101	102	70-130	1	11	
Iron, Dissolved	ug/L	128000	10000	10000	135000	132000	70	38	70-130	2	10	M1
Lead, Dissolved	ug/L	14.4	1000	1000	912	909	90	89	70-130	0	10	
Nickel, Dissolved	ug/L	19.4	1000	1000	956	958	94	94	70-130	0	10	
Selenium, Dissolved	ug/L	ND	1000	1000	1160	1160	115	115	70-130	0	10	
Silver, Dissolved	ug/L	ND	500	500	519	519	103	103	70-130	0	10	
Thallium, Dissolved	ug/L	ND	1000	1000	858	865	86	86	70-130	1	6	
Zinc, Dissolved	ug/L	1300	1000	1000	2220	2160	92	87	70-130	2	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-200
Pace Project No.: 60161614

QC Batch: MSV/59025 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60161614001, 60161614002

METHOD BLANK: 1321838 | Matrix: Water
Associated Lab Samples: 60161614001, 60161614002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/24/14 10:23	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/24/14 10:23	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/24/14 10:23	
1,2-Dichloroethane	ug/L	ND	1.0	01/24/14 10:23	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/24/14 10:23	
2-Butanone (MEK)	ug/L	ND	10.0	01/24/14 10:23	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/24/14 10:23	N2
Acetone	ug/L	ND	10.0	01/24/14 10:23	N2
Benzene	ug/L	ND	1.0	01/24/14 10:23	
Bromodichloromethane	ug/L	ND	1.0	01/24/14 10:23	
Bromoform	ug/L	ND	1.0	01/24/14 10:23	
Bromomethane	ug/L	ND	5.0	01/24/14 10:23	
Carbon tetrachloride	ug/L	ND	1.0	01/24/14 10:23	
Chloroethane	ug/L	ND	1.0	01/24/14 10:23	
Chloroform	ug/L	ND	1.0	01/24/14 10:23	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/24/14 10:23	N2
Ethylbenzene	ug/L	ND	1.0	01/24/14 10:23	
Methylene chloride	ug/L	ND	1.0	01/24/14 10:23	
Tetrachloroethene	ug/L	ND	1.0	01/24/14 10:23	
Toluene	ug/L	ND	1.0	01/24/14 10:23	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/24/14 10:23	
Trichloroethene	ug/L	ND	1.0	01/24/14 10:23	
Vinyl chloride	ug/L	ND	1.0	01/24/14 10:23	
Xylene (Total)	ug/L	ND	3.0	01/24/14 10:23	N2
1,2-Dichloroethane-d4 (S)	%	84	80-120	01/24/14 10:23	
4-Bromofluorobenzene (S)	%	101	80-120	01/24/14 10:23	
Toluene-d8 (S)	%	99	80-120	01/24/14 10:23	

LABORATORY CONTROL SAMPLE: 1321839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	16.6	83	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	59-138	N2
1,1,2-Trichloroethane	ug/L	20	19.5	98	69-127	
1,2-Dichloroethane	ug/L	20	16.3	82	71-129	
1,4-Dichlorobenzene	ug/L	20	20.6	103	68-124	
2-Butanone (MEK)	ug/L	100	66.6	67	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	75.1	75	61-120	N2
Acetone	ug/L	100	70.6	71	40-160	N2
Benzene	ug/L	20	17.8	89	73-129	
Bromodichloromethane	ug/L	20	18.2	91	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-200
Pace Project No.: 60161614

LABORATORY CONTROL SAMPLE: 1321839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.7	103	52-123	
Bromomethane	ug/L	20	12.8	64	10-160	
Carbon tetrachloride	ug/L	20	18.2	91	70-140	
Chloroethane	ug/L	20	16.9	85	42-160	
Chloroform	ug/L	20	15.7	78	60-120	
cis-1,2-Dichloroethene	ug/L	20	17.7	88	70-125	N2
Ethylbenzene	ug/L	20	18.7	94	66-133	
Methylene chloride	ug/L	20	18.1	91	56-135	
Tetrachloroethene	ug/L	20	21.3	106	64-143	
Toluene	ug/L	20	18.5	92	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.1	90	67-149	
Trichloroethene	ug/L	20	18.3	92	71-130	
Vinyl chloride	ug/L	20	16.0	80	41-160	
Xylene (Total)	ug/L	60	58.0	97	67-130	N2
1,2-Dichloroethane-d4 (S)	%			80	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			95	80-120	

MATRIX SPIKE SAMPLE: 1321840

Parameter	Units	60161613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3440	86	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3750	94	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	3730	93	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3270	82	49-155	
1,4-Dichlorobenzene	ug/L	911	4000	4780	97	18-147	
2-Butanone (MEK)	ug/L	68700	20000	82200	68	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	2770	20000	19400	83	40-160	N2
Acetone	ug/L	134000	20000	145000	58	40-160	N2
Benzene	ug/L	ND	4000	3540	87	37-151	
Bromodichloromethane	ug/L	ND	4000	3580	89	35-155	
Bromoform	ug/L	ND	4000	3760	94	45-133	
Bromomethane	ug/L	ND	4000	2850	71	10-160	
Carbon tetrachloride	ug/L	ND	4000	3830	96	70-140	
Chloroethane	ug/L	ND	4000	3140	78	14-160	
Chloroform	ug/L	ND	4000	3080	77	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3530	88	19-160	N2
Ethylbenzene	ug/L	ND	4000	3740	91	37-154	
Methylene chloride	ug/L	ND	4000	3630	91	15-156	
Tetrachloroethene	ug/L	ND	4000	4340	109	64-148	
Toluene	ug/L	ND	4000	3610	89	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	3550	89	54-156	
Trichloroethene	ug/L	ND	4000	3720	93	71-157	
Vinyl chloride	ug/L	ND	4000	3650	91	10-160	
Xylene (Total)	ug/L	ND	12000	11500	95	12-153	N2
1,2-Dichloroethane-d4 (S)	%				85	80-120	
4-Bromofluorobenzene (S)	%				103	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-200
Pace Project No.: 60161614

MATRIX SPIKE SAMPLE: 1321840

Parameter	Units	60161613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				97	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-200
Pace Project No.: 60161614

QC Batch: OEXT/42356 | Analysis Method: EPA 625
QC Batch Method: EPA 625 | Analysis Description: 625 MSS
Associated Lab Samples: 60161614001

METHOD BLANK: 1320964 | Matrix: Water
Associated Lab Samples: 60161614001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/27/14 21:29	
2,4,6-Trichlorophenol	ug/L	ND	5.0	01/27/14 21:29	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	01/27/14 21:29	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/27/14 21:29	
Hexachlorocyclopentadiene	ug/L	ND	5.0	01/27/14 21:29	
Hexachloroethane	ug/L	ND	5.0	01/27/14 21:29	
Naphthalene	ug/L	ND	5.0	01/27/14 21:29	
Nitrobenzene	ug/L	ND	5.0	01/27/14 21:29	
Pentachlorophenol	ug/L	ND	5.0	01/27/14 21:29	
Phenol	ug/L	ND	5.0	01/27/14 21:29	
2,4,6-Tribromophenol (S)	%	79	39-120	01/27/14 21:29	
2-Fluorobiphenyl (S)	%	73	39-120	01/27/14 21:29	
2-Fluorophenol (S)	%	38	17-120	01/27/14 21:29	
Nitrobenzene-d5 (S)	%	69	33-120	01/27/14 21:29	
Phenol-d6 (S)	%	24	11-120	01/27/14 21:29	
Terphenyl-d14 (S)	%	76	45-120	01/27/14 21:29	

LABORATORY CONTROL SAMPLE: 1320965

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	38.7	77	46-120	
2,4,6-Trichlorophenol	ug/L	50	41.4	83	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	39.9	80	40-133	
Hexachloro-1,3-butadiene	ug/L	50	42.5	85	44-116	
Hexachlorocyclopentadiene	ug/L	100	39.8	40	24-120	
Hexachloroethane	ug/L	50	34.6	69	43-113	
Naphthalene	ug/L	50	36.5	73	48-120	
Nitrobenzene	ug/L	50	34.4	69	48-120	
Pentachlorophenol	ug/L	50	41.0	82	47-120	
Phenol	ug/L	50	12.8	26	16-112	
2,4,6-Tribromophenol (S)	%			94	39-120	
2-Fluorobiphenyl (S)	%			82	39-120	
2-Fluorophenol (S)	%			40	17-120	
Nitrobenzene-d5 (S)	%			74	33-120	
Phenol-d6 (S)	%			24	11-120	
Terphenyl-d14 (S)	%			82	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-200
Pace Project No.: 60161614

MATRIX SPIKE SAMPLE: 1320966

Parameter	Units	60161613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3940	79	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4490	90	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4310J	86	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4100	82	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	7250	73	11-120	
Hexachloroethane	ug/L	ND	5000	4080	82	40-113	
Naphthalene	ug/L	1710	5000	5700	80	45-120	
Nitrobenzene	ug/L	ND	5000	4110	82	38-120	
Pentachlorophenol	ug/L	ND	5000	4850	97	43-135	
Phenol	ug/L	17700	5000	17700	2	13-112	M1
2,4,6-Tribromophenol (S)	%				90	39-120	
2-Fluorobiphenyl (S)	%				85	39-120	
2-Fluorophenol (S)	%				55	17-120	
Nitrobenzene-d5 (S)	%				168	33-120	S0
Phenol-d6 (S)	%				51	11-120	
Terphenyl-d14 (S)	%				81	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-200
Pace Project No.: 60161614

QC Batch: WET/45823
QC Batch Method: EPA 1664A
Analysis Method: EPA 1664A
Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60161614001

METHOD BLANK: 1322846
Matrix: Water
Associated Lab Samples: 60161614001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/28/14 08:22	

LABORATORY CONTROL SAMPLE: 1322847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	42.1	105	78-114	

MATRIX SPIKE SAMPLE: 1322848

Parameter	Units	60161613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	462	160	625	102	78-114	

SAMPLE DUPLICATE: 1322849

Parameter	Units	60161614001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	281	284	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-200
Pace Project No.: 60161614

QC Batch: WET/45841 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 SGT-HEM, TPH
Associated Lab Samples: 60161614001

METHOD BLANK: 1323525 | Matrix: Water
Associated Lab Samples: 60161614001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	01/29/14 07:58	

LABORATORY CONTROL SAMPLE: 1323526

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	21.0	105	64-132	

MATRIX SPIKE SAMPLE: 1323527

Parameter	Units	60161613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	11.2	80	90.4	99	64-132	

SAMPLE DUPLICATE: 1323528

Parameter	Units	60161614001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	9.2	8.8	4	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-200
Pace Project No.: 60161614

QC Batch: WET/45778 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60161614001

METHOD BLANK: 1321651 | Matrix: Water
Associated Lab Samples: 60161614001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	01/24/14 13:30	

SAMPLE DUPLICATE: 1321653

Parameter	Units	60161567002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	7.0	8.0	13	10	D6

SAMPLE DUPLICATE: 1321654

Parameter	Units	60161509001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	49.0	68.0	32	10	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-200
Pace Project No.: 60161614

QC Batch: WET/45737
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 60161614001

SAMPLE DUPLICATE: 1320807

Parameter	Units	60161571003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.5	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-200
Pace Project No.: 60161614

QC Batch: WET/45729 | Analysis Method: SM 5210B
QC Batch Method: SM 5210B | Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 60161614001

METHOD BLANK: 1320500 | Matrix: Water
Associated Lab Samples: 60161614001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	01/27/14 08:32	

LABORATORY CONTROL SAMPLE: 1320501

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	195	99	85-115	

SAMPLE DUPLICATE: 1320502

Parameter	Units	60161554001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	6.5	7.5	15	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-200
Pace Project No.: 60161614

QC Batch: WETA/27885 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60161614001

METHOD BLANK: 1320493 | Matrix: Water
Associated Lab Samples: 60161614001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	01/22/14 14:29	

LABORATORY CONTROL SAMPLE: 1320494

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	100	90-110	

MATRIX SPIKE SAMPLE: 1320495

Parameter	Units	60161208001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.8	92	90-110	

MATRIX SPIKE SAMPLE: 1320496

Parameter	Units	60161209001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.7	87	90-110	M1

SAMPLE DUPLICATE: 1320497

Parameter	Units	60161212001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-200
Pace Project No.: 60161614

QC Batch: WETA/27974 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 60161614001

METHOD BLANK: 1323328 | Matrix: Water
Associated Lab Samples: 60161614001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	01/29/14 09:55	

LABORATORY CONTROL SAMPLE: 1323329

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	45.3	91	90-110	

MATRIX SPIKE SAMPLE: 1323330

Parameter	Units	60161163001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50	49.2	83	90-110	

MATRIX SPIKE SAMPLE: 1323332

Parameter	Units	60161473002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	1640	2500	3560	77	90-110	

SAMPLE DUPLICATE: 1323331

Parameter	Units	60161613001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	59200	59500	0	25	

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QUALIFIERS

Project: BRIDGETON LF 316-200
Pace Project No.: 60161614

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

ANALYTE QUALIFIERS

D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-200
Pace Project No.: 60161614

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60161614001	**316-200**	EPA 200.7	MPRP/25997	EPA 200.7	ICP/19894
60161614001	**316-200**	EPA 200.7	MPRP/25987	EPA 200.7	ICP/19884
60161614001	**316-200**	EPA 245.1	MERP/8092	EPA 245.1	MERC/8047
60161614001	**316-200**	EPA 245.1	MERP/8090	EPA 245.1	MERC/8046
60161614001	**316-200**	EPA 625	OEXT/42356	EPA 625	MSSV/13487
60161614001	**316-200**	EPA 624 Low	MSV/59025		
60161614002	**TRIP BLANK**	EPA 624 Low	MSV/59025		
60161614001	**316-200**	EPA 1664A	WET/45823		
60161614001	**316-200**	EPA 1664A	WET/45841		
60161614001	**316-200**	SM 2540D	WET/45778		
60161614001	**316-200**	SM 4500-H+B	WET/45737		
60161614001	**316-200**	SM 5210B	WET/45729	SM 5210B	WET/45848
60161614001	**316-200**	EPA 350.1	WETA/27885		
60161614001	**316-200**	EPA 410.4	WETA/27974		

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WO#: 60161614

60161614

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Sample Condition Upon Receipt

Optional
Proj Due Date:
Proj Name:

Client Name: Barr

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

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☒

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☐ Other ☒ zplg

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2-4

Temperature should be above freezing to 6°C

Date and initials of person examining contents: PV 1/22/14

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 & signature on COC:	☒Yes ☐No ☐N/A	4.	
Samples arrived within holding time:	☒Yes ☐No ☐N/A	5.	
Short Hold Time analyses (<72hr):	☒Yes ☐No ☐N/A	6.	BOD PH
Rush Turn Around Time requested:	☐Yes ☒No ☐N/A	7.	
Sufficient volume:	☒Yes ☐No ☐N/A	8.	
Correct containers used:	☒Yes ☐No ☐N/A		
Pace containers used:	☒Yes ☐No ☐N/A	9.	
Containers intact:	☒Yes ☐No ☐N/A	10.	
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.	
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.	
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☒Yes ☐No ☐N/A	13.	
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A		Added 2.5 ml of HNO3 to RPJN. pH 6.0/4.0 added 2.0 ml of H2SO4 to BP3S. pH 6.0/2.5
All containers needing preservation are found to be in compliance with EPA recommendation.	~~☐Yes~~ ☒No ☐N/A PV 1/22/14	14.	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☒Yes ☐No	Initial when completed PV	Lot # of added preservative 12513 12518
Trip Blank present: Pace Trip Blank lot # (if purchased): 11113-3	☒Yes ☐No ☐N/A	15.	
Headspace in VOA vials (>6mm):	☐Yes ☒No ☐N/A	16.	
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State: MN	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 1/24/14

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	BARR ENGINEERING	Report To:	ED GALBRAITH/BARR	Attention:	JANET ROLLEN
Address:		Copy To:	SCOTT FEDAK/FEEZOR	Company Name:	REPUBLIC SERVICES
			DANA BAKER/MARGARET TREANOR -BARR	Address:	BRIDGETON, MO 63044
Email To:		Purchase Order No.	PO 3727110	Pace Quote Reference:	130426_7588
Phone:	(816) 285-8410 Fax	Client Project ID:	BRIDGETON LF	Pace Project Manager:	Brown, Angie
Requested Due Date/TAT:	10 Day (Default)	Container Order Number:		Pace Profile #:	6787 LINE 2

Regulatory Agency	
State / Location	
Missouri	

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N): COD EPA 410	pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B		Residual Chlorine (Y/N)	60161614
1	3IG-200 2AG4U 1BP3U 3AG5S 1BP3U	OT	G	1/21/14	9:30AM				14	10	4	1	0		1BP3S		2-9	X	X	X	X	X	X	X	X	X	X	X	2B	PU	5DG4U
2	TRIP BLANK								2	2															X						2DG4U
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

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

METALS LIST total & LF Dis: Al,Sb,As,Be,Cd,Cr, Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn and Mercury

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	Kyle Kramer	1/21/14	15:00	Marquetta Martin	1/21/14	1500				
SITE ADDRESS: BRIDGETON LF				[illegible]	1/22/14	0205	2-4	Y	Y	Y
13570 ST. CHARLES ROCK RD										
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Kyle Kramer		
SIGNATURE of SAMPLER:	Kyle Kramer	DATE Signed:	1-21-14

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

Pace Analytical Services, Inc.
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January 30, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 313-MSD
Pace Project No.: 60161736

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 23, 2014. 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,

Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 313-MSD
Pace Project No.: 60161736

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 313-MSD
Pace Project No.: 60161736

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60161736001	**313-MSD**	Water	01/22/14 10:00	01/23/14 01:30
60161736002	**TRIPBLANK**	Water	01/22/14 10:00	01/23/14 01:30

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 313-MSD
Pace Project No.: 60161736

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60161736001	**313-MSD**	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	16
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC	1
		SM 4500-H+B	JML	1
		SM 5210B	JML	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC	1
60161736002	**TRIPBLANK**	EPA 624 Low	EAK	28

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ANALYTICAL RESULTS

Project: BRIDGETON LF 313-MSD
Pace Project No.: 60161736

Sample: 313-MSD **Lab ID: 60161736001** Collected: 01/22/14 10:00 Received: 01/23/14 01:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	**4980**	ug/L	750	2	01/27/14 09:55	01/27/14 16:31	7429-90-5	
Antimony	**59.0**	ug/L	50.0	1	01/27/14 09:55	01/27/14 16:29	7440-36-0	
Arsenic	**883**	ug/L	50.0	1	01/27/14 09:55	01/27/14 16:29	7440-38-2	
Beryllium	ND	ug/L	5.0	1	01/27/14 09:55	01/27/14 16:29	7440-41-7	
Cadmium	ND	ug/L	25.0	1	01/27/14 09:55	01/27/14 16:29	7440-43-9	
Chromium	**258**	ug/L	25.0	1	01/27/14 09:55	01/27/14 16:29	7440-47-3	
Cobalt	**38.4**	ug/L	25.0	1	01/27/14 09:55	01/27/14 16:29	7440-48-4	
Copper	**58.0**	ug/L	50.0	1	01/27/14 09:55	01/27/14 16:29	7440-50-8	
Iron	**831000**	ug/L	250	1	01/27/14 09:55	01/27/14 16:29	7439-89-6	
Lead	**138**	ug/L	25.0	1	01/27/14 09:55	01/27/14 16:29	7439-92-1	
Nickel	**115**	ug/L	25.0	1	01/27/14 09:55	01/27/14 16:29	7440-02-0	
Selenium	ND	ug/L	75.0	1	01/27/14 09:55	01/27/14 16:29	7782-49-2	
Silver	ND	ug/L	35.0	1	01/27/14 09:55	01/27/14 16:29	7440-22-4	
Thallium	ND	ug/L	100	1	01/27/14 09:55	01/27/14 16:29	7440-28-0	
Zinc	**8670**	ug/L	500	2	01/27/14 09:55	01/27/14 16:31	7440-66-6	
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	**448**	ug/L	150	2	01/23/14 17:00	01/24/14 14:19	7429-90-5	
Antimony, Dissolved	ND	ug/L	10.0	1	01/23/14 17:00	01/24/14 14:17	7440-36-0	
Arsenic, Dissolved	**151**	ug/L	10.0	1	01/23/14 17:00	01/24/14 14:17	7440-38-2	
Beryllium, Dissolved	ND	ug/L	1.0	1	01/23/14 17:00	01/24/14 14:17	7440-41-7	
Cadmium, Dissolved	ND	ug/L	5.0	1	01/23/14 17:00	01/24/14 14:17	7440-43-9	
Chromium, Dissolved	**44.2**	ug/L	5.0	1	01/23/14 17:00	01/24/14 14:17	7440-47-3	
Cobalt, Dissolved	**6.1**	ug/L	5.0	1	01/23/14 17:00	01/24/14 14:17	7440-48-4	
Copper, Dissolved	ND	ug/L	10.0	1	01/23/14 17:00	01/24/14 14:17	7440-50-8	
Iron, Dissolved	**123000**	ug/L	50.0	1	01/23/14 17:00	01/24/14 14:17	7439-89-6	
Lead, Dissolved	**12.9**	ug/L	5.0	1	01/23/14 17:00	01/24/14 14:17	7439-92-1	
Nickel, Dissolved	**18.0**	ug/L	5.0	1	01/23/14 17:00	01/24/14 14:17	7440-02-0	
Selenium, Dissolved	ND	ug/L	15.0	1	01/23/14 17:00	01/24/14 14:17	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	01/23/14 17:00	01/24/14 14:17	7440-22-4	
Thallium, Dissolved	ND	ug/L	20.0	1	01/23/14 17:00	01/24/14 14:17	7440-28-0	
Zinc, Dissolved	**1430**	ug/L	100	2	01/23/14 17:00	01/24/14 14:19	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	6.0	1	01/27/14 16:30	01/28/14 10:56	7439-97-6	
245.1 Mercury, Dissolved (LF)	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	6.0	1	01/27/14 10:00	01/27/14 13:41	7439-97-6	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	01/23/14 00:00	01/28/14 14:34	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	01/23/14 00:00	01/28/14 14:34	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	01/23/14 00:00	01/28/14 14:34	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	01/23/14 00:00	01/28/14 14:34	67-72-1	
Naphthalene	**1060**	ug/L	1000	2	01/23/14 00:00	01/28/14 14:34	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	01/23/14 00:00	01/28/14 14:34	98-95-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 313-MSD
Pace Project No.: 60161736

Sample: 313-MSD **Lab ID: 60161736001** Collected: 01/22/14 10:00 Received: 01/23/14 01:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Pentachlorophenol	ND	ug/L	1000	2	01/23/14 00:00	01/28/14 14:34	87-86-5	
Phenol	**12000**	ug/L	1000	2	01/23/14 00:00	01/28/14 14:34	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	1000	2	01/23/14 00:00	01/28/14 14:34	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	1000	2	01/23/14 00:00	01/28/14 14:34	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	143	%	33-120	2	01/23/14 00:00	01/28/14 14:34	4165-60-0	S0
2-Fluorobiphenyl (S)	76	%	39-120	2	01/23/14 00:00	01/28/14 14:34	321-60-8	
Terphenyl-d14 (S)	73	%	45-120	2	01/23/14 00:00	01/28/14 14:34	1718-51-0	
Phenol-d6 (S)	47	%	11-120	2	01/23/14 00:00	01/28/14 14:34	13127-88-3	
2-Fluorophenol (S)	52	%	17-120	2	01/23/14 00:00	01/28/14 14:34	367-12-4	
2,4,6-Tribromophenol (S)	87	%	39-120	2	01/23/14 00:00	01/28/14 14:34	118-79-6	
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	**141000**	ug/L	2000	200		01/24/14 14:07	67-64-1	N2
Benzene	ND	ug/L	200	200		01/24/14 14:07	71-43-2	
Bromodichloromethane	ND	ug/L	200	200		01/24/14 14:07	75-27-4	
Bromoform	ND	ug/L	200	200		01/24/14 14:07	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/24/14 14:07	74-83-9	
2-Butanone (MEK)	**64800**	ug/L	2000	200		01/24/14 14:07	78-93-3	N2
Carbon tetrachloride	ND	ug/L	200	200		01/24/14 14:07	56-23-5	
Chloroethane	ND	ug/L	200	200		01/24/14 14:07	75-00-3	
Chloroform	ND	ug/L	200	200		01/24/14 14:07	67-66-3	
1,4-Dichlorobenzene	**814**	ug/L	200	200		01/24/14 14:07	106-46-7	
1,2-Dichloroethane	ND	ug/L	200	200		01/24/14 14:07	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/24/14 14:07	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/24/14 14:07	156-60-5	
Ethylbenzene	ND	ug/L	200	200		01/24/14 14:07	100-41-4	
Methylene chloride	ND	ug/L	200	200		01/24/14 14:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	**3030**	ug/L	2000	200		01/24/14 14:07	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		01/24/14 14:07	79-34-5	N2
Tetrachloroethene	ND	ug/L	200	200		01/24/14 14:07	127-18-4	
Toluene	ND	ug/L	200	200		01/24/14 14:07	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/24/14 14:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		01/24/14 14:07	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/24/14 14:07	79-01-6	
Vinyl chloride	ND	ug/L	200	200		01/24/14 14:07	75-01-4	
Xylene (Total)	ND	ug/L	600	200		01/24/14 14:07	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	200		01/24/14 14:07	460-00-4	
Toluene-d8 (S)	96	%	80-120	200		01/24/14 14:07	2037-26-5	
1,2-Dichloroethane-d4 (S)	85	%	80-120	200		01/24/14 14:07	17060-07-0	
Preservation pH	**6.0**		1.0	200		01/24/14 14:07		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	**1180**	mg/L	5.0	1		01/28/14 08:24		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 313-MSD
Pace Project No.: 60161736

Sample: 313-MSD **Lab ID: 60161736001** Collected: 01/22/14 10:00 Received: 01/23/14 01:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	**17.2**	mg/L	5.0	1		01/29/14 08:00		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**1000**	mg/L	5.0	1		01/28/14 10:06		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**5.5**	Std. Units	0.10	1		01/27/14 12:49		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**28800**	mg/L	2.0	1	01/24/14 09:52	01/29/14 09:57		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**654**	mg/L	20.0	200		01/28/14 15:47	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**53000**	mg/L	5000	500		01/29/14 10:06		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 313-MSD
Pace Project No.: 60161736

Sample: TRIPBLANK **Lab ID: 60161736002** Collected: 01/22/14 10:00 Received: 01/23/14 01:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	ND	ug/L	10.0	1		01/24/14 14:22	67-64-1	N2
Benzene	ND	ug/L	1.0	1		01/24/14 14:22	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		01/24/14 14:22	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/24/14 14:22	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/24/14 14:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/24/14 14:22	78-93-3	N2
Carbon tetrachloride	ND	ug/L	1.0	1		01/24/14 14:22	56-23-5	
Chloroethane	ND	ug/L	1.0	1		01/24/14 14:22	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/24/14 14:22	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/24/14 14:22	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/24/14 14:22	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/24/14 14:22	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/24/14 14:22	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/24/14 14:22	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		01/24/14 14:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/24/14 14:22	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/24/14 14:22	79-34-5	N2
Tetrachloroethene	ND	ug/L	1.0	1		01/24/14 14:22	127-18-4	
Toluene	ND	ug/L	1.0	1		01/24/14 14:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/24/14 14:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/24/14 14:22	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/24/14 14:22	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/24/14 14:22	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/24/14 14:22	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	1		01/24/14 14:22	460-00-4	
Toluene-d8 (S)	94	%	80-120	1		01/24/14 14:22	2037-26-5	
1,2-Dichloroethane-d4 (S)	85	%	80-120	1		01/24/14 14:22	17060-07-0	
Preservation pH	**6.0**		1.0	1		01/24/14 14:22		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 313-MSD
Pace Project No.: 60161736

QC Batch: MERP/8092 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury
Associated Lab Samples: 60161736001

METHOD BLANK: 1322778 | Matrix: Water
Associated Lab Samples: 60161736001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/28/14 10:27	

LABORATORY CONTROL SAMPLE: 1322779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322780 1322781

Parameter	Units	60161543001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	3.6	3.7	71	73	70-130	3	20	

MATRIX SPIKE SAMPLE: 1322782

Parameter	Units	60161613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	150	76.5	50	70-130	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 313-MSD
Pace Project No.: 60161736

QC Batch: MERP/8090
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60161736001

METHOD BLANK: 1322631
Matrix: Water
Associated Lab Samples: 60161736001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	01/27/14 13:16	

LABORATORY CONTROL SAMPLE: 1322632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.6	91	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322633 1322634

Parameter	Units	60161548001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	138	140	91	93	70-130	2	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 313-MSD
Pace Project No.: 60161736

QC Batch: MPRP/25997
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60161736001

METHOD BLANK: 1322036
Matrix: Water
Associated Lab Samples: 60161736001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	01/27/14 16:12	
Antimony	ug/L	ND	10.0	01/27/14 16:12	
Arsenic	ug/L	ND	10.0	01/27/14 16:12	
Beryllium	ug/L	ND	1.0	01/27/14 16:12	
Cadmium	ug/L	ND	5.0	01/27/14 16:12	
Chromium	ug/L	ND	5.0	01/27/14 16:12	
Cobalt	ug/L	ND	5.0	01/27/14 16:12	
Copper	ug/L	ND	10.0	01/27/14 16:12	
Iron	ug/L	ND	50.0	01/27/14 16:12	
Lead	ug/L	ND	5.0	01/27/14 16:12	
Nickel	ug/L	ND	5.0	01/27/14 16:12	
Selenium	ug/L	ND	15.0	01/27/14 16:12	
Silver	ug/L	ND	7.0	01/27/14 16:12	
Thallium	ug/L	ND	20.0	01/27/14 16:12	
Zinc	ug/L	ND	50.0	01/27/14 16:12	

LABORATORY CONTROL SAMPLE: 1322037

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9720	97	85-115	
Antimony	ug/L	1000	1030	103	85-115	
Arsenic	ug/L	1000	975	98	85-115	
Beryllium	ug/L	1000	978	98	85-115	
Cadmium	ug/L	1000	1000	100	85-115	
Chromium	ug/L	1000	961	96	85-115	
Cobalt	ug/L	1000	1010	101	85-115	
Copper	ug/L	1000	1000	100	85-115	
Iron	ug/L	10000	9600	96	85-115	
Lead	ug/L	1000	1020	102	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	1000	100	85-115	
Silver	ug/L	500	493	99	85-115	
Thallium	ug/L	1000	1050	105	85-115	
Zinc	ug/L	1000	980	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322038 1322039

Parameter	Units	60161622007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	146	10000	10000	10300	10300	102	101	70-130	0	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 313-MSD
Pace Project No.: 60161736

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322038 1322039

Parameter	Units	60161622007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	1000	1000	1090	1080	109	108	70-130	1	7	
Arsenic	ug/L	ND	1000	1000	1040	1040	104	104	70-130	0	10	
Beryllium	ug/L	ND	1000	1000	1010	1000	101	100	70-130	1	7	
Cadmium	ug/L	ND	1000	1000	1040	1040	104	104	70-130	0	10	
Chromium	ug/L	ND	1000	1000	972	967	97	97	70-130	1	10	
Cobalt	ug/L	ND	1000	1000	1010	1000	101	100	70-130	1	6	
Copper	ug/L	51.0	1000	1000	1100	1100	105	105	70-130	0	11	
Iron	ug/L	226	10000	10000	9870	9850	96	96	70-130	0	10	
Lead	ug/L	ND	1000	1000	1000	995	100	99	70-130	1	10	
Nickel	ug/L	ND	1000	1000	1010	1010	101	101	70-130	0	10	
Selenium	ug/L	ND	1000	1000	1060	1060	106	105	70-130	1	10	
Silver	ug/L	ND	500	500	511	512	102	102	70-130	0	10	
Thallium	ug/L	ND	1000	1000	997	998	100	100	70-130	0	6	
Zinc	ug/L	61.6	1000	1000	1020	1020	96	96	70-130	0	11	

MATRIX SPIKE SAMPLE: 1322040

Parameter	Units	60161735007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	ND	10000	10200	102	70-130	
Antimony	ug/L	ND	1000	1080	108	70-130	
Arsenic	ug/L	ND	1000	1040	104	70-130	
Beryllium	ug/L	ND	1000	1010	101	70-130	
Cadmium	ug/L	ND	1000	1040	104	70-130	
Chromium	ug/L	ND	1000	977	98	70-130	
Cobalt	ug/L	ND	1000	1000	100	70-130	
Copper	ug/L	11.7	1000	1060	104	70-130	
Iron	ug/L	ND	10000	9680	96	70-130	
Lead	ug/L	ND	1000	1010	101	70-130	
Nickel	ug/L	ND	1000	1010	101	70-130	
Selenium	ug/L	ND	1000	1050	105	70-130	
Silver	ug/L	ND	500	513	102	70-130	
Thallium	ug/L	ND	1000	993	99	70-130	
Zinc	ug/L	63.9	1000	1030	97	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 313-MSD
Pace Project No.: 60161736

QC Batch: MPRP/25987
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60161736001

METHOD BLANK: 1321534
Matrix: Water
Associated Lab Samples: 60161736001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	01/24/14 13:41	
Antimony, Dissolved	ug/L	ND	10.0	01/24/14 13:41	
Arsenic, Dissolved	ug/L	ND	10.0	01/24/14 13:41	
Beryllium, Dissolved	ug/L	ND	1.0	01/24/14 13:41	
Cadmium, Dissolved	ug/L	ND	5.0	01/24/14 13:41	
Chromium, Dissolved	ug/L	ND	5.0	01/24/14 13:41	
Cobalt, Dissolved	ug/L	ND	5.0	01/24/14 13:41	
Copper, Dissolved	ug/L	ND	10.0	01/24/14 13:41	
Iron, Dissolved	ug/L	ND	50.0	01/24/14 13:41	
Lead, Dissolved	ug/L	ND	5.0	01/24/14 13:41	
Nickel, Dissolved	ug/L	ND	5.0	01/24/14 13:41	
Selenium, Dissolved	ug/L	ND	15.0	01/24/14 13:41	
Silver, Dissolved	ug/L	ND	7.0	01/24/14 13:41	
Thallium, Dissolved	ug/L	ND	20.0	01/24/14 13:41	
Zinc, Dissolved	ug/L	ND	50.0	01/24/14 13:41	

LABORATORY CONTROL SAMPLE: 1321535

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9980	100	85-115	
Antimony, Dissolved	ug/L	1000	1020	102	85-115	
Arsenic, Dissolved	ug/L	1000	983	98	85-115	
Beryllium, Dissolved	ug/L	1000	1020	102	85-115	
Cadmium, Dissolved	ug/L	1000	1000	100	85-115	
Chromium, Dissolved	ug/L	1000	1010	101	85-115	
Cobalt, Dissolved	ug/L	1000	1020	102	85-115	
Copper, Dissolved	ug/L	1000	994	99	85-115	
Iron, Dissolved	ug/L	10000	10000	100	85-115	
Lead, Dissolved	ug/L	1000	1030	103	85-115	
Nickel, Dissolved	ug/L	1000	1030	103	85-115	
Selenium, Dissolved	ug/L	1000	1000	100	85-115	
Silver, Dissolved	ug/L	500	500	100	85-115	
Thallium, Dissolved	ug/L	1000	1060	106	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1321536 1321537

Parameter	Units	60161548001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	480	10000	10000	10500	10600	101	101	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 313-MSD
Pace Project No.: 60161736

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1321536 1321537

Parameter	Units	60161548001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	1000	1000	1040	1040	104	103	70-130	0	7	
Arsenic, Dissolved	ug/L	174	1000	1000	1250	1240	108	107	70-130	1	10	
Beryllium, Dissolved	ug/L	ND	1000	1000	983	987	98	99	70-130	0	7	
Cadmium, Dissolved	ug/L	ND	1000	1000	1050	1050	104	104	70-130	0	10	
Chromium, Dissolved	ug/L	46.0	1000	1000	1040	1040	99	100	70-130	1	10	
Cobalt, Dissolved	ug/L	6.1	1000	1000	963	966	96	96	70-130	0	6	
Copper, Dissolved	ug/L	ND	1000	1000	1010	1030	101	102	70-130	1	11	
Iron, Dissolved	ug/L	128000	10000	10000	135000	132000	70	38	70-130	2	10	M1
Lead, Dissolved	ug/L	14.4	1000	1000	912	909	90	89	70-130	0	10	
Nickel, Dissolved	ug/L	19.4	1000	1000	956	958	94	94	70-130	0	10	
Selenium, Dissolved	ug/L	ND	1000	1000	1160	1160	115	115	70-130	0	10	
Silver, Dissolved	ug/L	ND	500	500	519	519	103	103	70-130	0	10	
Thallium, Dissolved	ug/L	ND	1000	1000	858	865	86	86	70-130	1	6	
Zinc, Dissolved	ug/L	1300	1000	1000	2220	2160	92	87	70-130	2	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 313-MSD
Pace Project No.: 60161736

QC Batch: MSV/59025 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60161736001, 60161736002

METHOD BLANK: 1321838 | Matrix: Water
Associated Lab Samples: 60161736001, 60161736002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/24/14 10:23	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/24/14 10:23	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/24/14 10:23	
1,2-Dichloroethane	ug/L	ND	1.0	01/24/14 10:23	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/24/14 10:23	
2-Butanone (MEK)	ug/L	ND	10.0	01/24/14 10:23	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/24/14 10:23	N2
Acetone	ug/L	ND	10.0	01/24/14 10:23	N2
Benzene	ug/L	ND	1.0	01/24/14 10:23	
Bromodichloromethane	ug/L	ND	1.0	01/24/14 10:23	
Bromoform	ug/L	ND	1.0	01/24/14 10:23	
Bromomethane	ug/L	ND	5.0	01/24/14 10:23	
Carbon tetrachloride	ug/L	ND	1.0	01/24/14 10:23	
Chloroethane	ug/L	ND	1.0	01/24/14 10:23	
Chloroform	ug/L	ND	1.0	01/24/14 10:23	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/24/14 10:23	N2
Ethylbenzene	ug/L	ND	1.0	01/24/14 10:23	
Methylene chloride	ug/L	ND	1.0	01/24/14 10:23	
Tetrachloroethene	ug/L	ND	1.0	01/24/14 10:23	
Toluene	ug/L	ND	1.0	01/24/14 10:23	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/24/14 10:23	
Trichloroethene	ug/L	ND	1.0	01/24/14 10:23	
Vinyl chloride	ug/L	ND	1.0	01/24/14 10:23	
Xylene (Total)	ug/L	ND	3.0	01/24/14 10:23	N2
1,2-Dichloroethane-d4 (S)	%	84	80-120	01/24/14 10:23	
4-Bromofluorobenzene (S)	%	101	80-120	01/24/14 10:23	
Toluene-d8 (S)	%	99	80-120	01/24/14 10:23	

LABORATORY CONTROL SAMPLE: 1321839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	16.6	83	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	59-138	N2
1,1,2-Trichloroethane	ug/L	20	19.5	98	69-127	
1,2-Dichloroethane	ug/L	20	16.3	82	71-129	
1,4-Dichlorobenzene	ug/L	20	20.6	103	68-124	
2-Butanone (MEK)	ug/L	100	66.6	67	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	75.1	75	61-120	N2
Acetone	ug/L	100	70.6	71	40-160	N2
Benzene	ug/L	20	17.8	89	73-129	
Bromodichloromethane	ug/L	20	18.2	91	63-129	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 313-MSD
Pace Project No.: 60161736

LABORATORY CONTROL SAMPLE: 1321839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.7	103	52-123	
Bromomethane	ug/L	20	12.8	64	10-160	
Carbon tetrachloride	ug/L	20	18.2	91	70-140	
Chloroethane	ug/L	20	16.9	85	42-160	
Chloroform	ug/L	20	15.7	78	60-120	
cis-1,2-Dichloroethene	ug/L	20	17.7	88	70-125	N2
Ethylbenzene	ug/L	20	18.7	94	66-133	
Methylene chloride	ug/L	20	18.1	91	56-135	
Tetrachloroethene	ug/L	20	21.3	106	64-143	
Toluene	ug/L	20	18.5	92	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.1	90	67-149	
Trichloroethene	ug/L	20	18.3	92	71-130	
Vinyl chloride	ug/L	20	16.0	80	41-160	
Xylene (Total)	ug/L	60	58.0	97	67-130	N2
1,2-Dichloroethane-d4 (S)	%			80	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			95	80-120	

MATRIX SPIKE SAMPLE: 1321840

Parameter	Units	60161613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3440	86	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3750	94	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	3730	93	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3270	82	49-155	
1,4-Dichlorobenzene	ug/L	911	4000	4780	97	18-147	
2-Butanone (MEK)	ug/L	68700	20000	82200	68	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	2770	20000	19400	83	40-160	N2
Acetone	ug/L	134000	20000	145000	58	40-160	N2
Benzene	ug/L	ND	4000	3540	87	37-151	
Bromodichloromethane	ug/L	ND	4000	3580	89	35-155	
Bromoform	ug/L	ND	4000	3760	94	45-133	
Bromomethane	ug/L	ND	4000	2850	71	10-160	
Carbon tetrachloride	ug/L	ND	4000	3830	96	70-140	
Chloroethane	ug/L	ND	4000	3140	78	14-160	
Chloroform	ug/L	ND	4000	3080	77	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3530	88	19-160	N2
Ethylbenzene	ug/L	ND	4000	3740	91	37-154	
Methylene chloride	ug/L	ND	4000	3630	91	15-156	
Tetrachloroethene	ug/L	ND	4000	4340	109	64-148	
Toluene	ug/L	ND	4000	3610	89	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	3550	89	54-156	
Trichloroethene	ug/L	ND	4000	3720	93	71-157	
Vinyl chloride	ug/L	ND	4000	3650	91	10-160	
Xylene (Total)	ug/L	ND	12000	11500	95	12-153	N2
1,2-Dichloroethane-d4 (S)	%				85	80-120	
4-Bromofluorobenzene (S)	%				103	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 313-MSD
Pace Project No.: 60161736

MATRIX SPIKE SAMPLE: 1321840

Parameter	Units	60161613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				97	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 313-MSD
Pace Project No.: 60161736

QC Batch: OEXT/42356
QC Batch Method: EPA 625
Analysis Method: EPA 625
Analysis Description: 625 MSS
Associated Lab Samples: 60161736001

METHOD BLANK: 1320964
Matrix: Water
Associated Lab Samples: 60161736001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/27/14 21:29	
2,4,6-Trichlorophenol	ug/L	ND	5.0	01/27/14 21:29	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	01/27/14 21:29	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/27/14 21:29	
Hexachlorocyclopentadiene	ug/L	ND	5.0	01/27/14 21:29	
Hexachloroethane	ug/L	ND	5.0	01/27/14 21:29	
Naphthalene	ug/L	ND	5.0	01/27/14 21:29	
Nitrobenzene	ug/L	ND	5.0	01/27/14 21:29	
Pentachlorophenol	ug/L	ND	5.0	01/27/14 21:29	
Phenol	ug/L	ND	5.0	01/27/14 21:29	
2,4,6-Tribromophenol (S)	%	79	39-120	01/27/14 21:29	
2-Fluorobiphenyl (S)	%	73	39-120	01/27/14 21:29	
2-Fluorophenol (S)	%	38	17-120	01/27/14 21:29	
Nitrobenzene-d5 (S)	%	69	33-120	01/27/14 21:29	
Phenol-d6 (S)	%	24	11-120	01/27/14 21:29	
Terphenyl-d14 (S)	%	76	45-120	01/27/14 21:29	

LABORATORY CONTROL SAMPLE: 1320965

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	38.7	77	46-120	
2,4,6-Trichlorophenol	ug/L	50	41.4	83	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	39.9	80	40-133	
Hexachloro-1,3-butadiene	ug/L	50	42.5	85	44-116	
Hexachlorocyclopentadiene	ug/L	100	39.8	40	24-120	
Hexachloroethane	ug/L	50	34.6	69	43-113	
Naphthalene	ug/L	50	36.5	73	48-120	
Nitrobenzene	ug/L	50	34.4	69	48-120	
Pentachlorophenol	ug/L	50	41.0	82	47-120	
Phenol	ug/L	50	12.8	26	16-112	
2,4,6-Tribromophenol (S)	%			94	39-120	
2-Fluorobiphenyl (S)	%			82	39-120	
2-Fluorophenol (S)	%			40	17-120	
Nitrobenzene-d5 (S)	%			74	33-120	
Phenol-d6 (S)	%			24	11-120	
Terphenyl-d14 (S)	%			82	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 313-MSD
Pace Project No.: 60161736

MATRIX SPIKE SAMPLE: 1320966

Parameter	Units	60161613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3940	79	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4490	90	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4310J	86	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4100	82	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	7250	73	11-120	
Hexachloroethane	ug/L	ND	5000	4080	82	40-113	
Naphthalene	ug/L	1710	5000	5700	80	45-120	
Nitrobenzene	ug/L	ND	5000	4110	82	38-120	
Pentachlorophenol	ug/L	ND	5000	4850	97	43-135	
Phenol	ug/L	17700	5000	17700	2	13-112	M1
2,4,6-Tribromophenol (S)	%				90	39-120	
2-Fluorobiphenyl (S)	%				85	39-120	
2-Fluorophenol (S)	%				55	17-120	
Nitrobenzene-d5 (S)	%				168	33-120	S0
Phenol-d6 (S)	%				51	11-120	
Terphenyl-d14 (S)	%				81	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 313-MSD
Pace Project No.: 60161736

QC Batch: WET/45823
QC Batch Method: EPA 1664A
Analysis Method: EPA 1664A
Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60161736001

METHOD BLANK: 1322846
Matrix: Water
Associated Lab Samples: 60161736001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/28/14 08:22	

LABORATORY CONTROL SAMPLE: 1322847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	42.1	105	78-114	

MATRIX SPIKE SAMPLE: 1322848

Parameter	Units	60161613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	462	160	625	102	78-114	

SAMPLE DUPLICATE: 1322849

Parameter	Units	60161614001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	281	284	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 313-MSD
Pace Project No.: 60161736

QC Batch: WET/45841
QC Batch Method: EPA 1664A
Analysis Method: EPA 1664A
Analysis Description: 1664 SGT-HEM, TPH
Associated Lab Samples: 60161736001

METHOD BLANK: 1323525
Matrix: Water
Associated Lab Samples: 60161736001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	01/29/14 07:58	

LABORATORY CONTROL SAMPLE: 1323526

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	21.0	105	64-132	

MATRIX SPIKE SAMPLE: 1323527

Parameter	Units	60161613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	11.2	80	90.4	99	64-132	

SAMPLE DUPLICATE: 1323528

Parameter	Units	60161614001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	9.2	8.8	4	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 313-MSD
Pace Project No.: 60161736

QC Batch: WET/45826
QC Batch Method: SM 2540D
Analysis Method: SM 2540D
Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60161736001

METHOD BLANK: 1322948
Matrix: Water
Associated Lab Samples: 60161736001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	01/28/14 10:06	

SAMPLE DUPLICATE: 1322949

Parameter	Units	60161736001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	1000	1000	0	10	

SAMPLE DUPLICATE: 1322950

Parameter	Units	60161717001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	10.0	9.0	11	10	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 313-MSD
Pace Project No.: 60161736

QC Batch: WET/45811
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 60161736001

SAMPLE DUPLICATE: 1322654

Parameter	Units	60161611002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 313-MSD
Pace Project No.: 60161736

QC Batch: WET/45792
QC Batch Method: SM 5210B
Analysis Method: SM 5210B
Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 60161736001

METHOD BLANK: 1321799
Matrix: Water
Associated Lab Samples: 60161736001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	01/29/14 09:52	

LABORATORY CONTROL SAMPLE: 1321800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	208	105	85-115	

SAMPLE DUPLICATE: 1321801

Parameter	Units	60161736001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	28800	32400	12	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 313-MSD
Pace Project No.: 60161736

QC Batch: WETA/27938
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60161736001

METHOD BLANK: 1323097
Matrix: Water
Associated Lab Samples: 60161736001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	01/28/14 14:43	

LABORATORY CONTROL SAMPLE: 1323098

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	107	90-110	

MATRIX SPIKE SAMPLE: 1323099

Parameter	Units	60161384002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1323100

Parameter	Units	60161385005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.3	111	90-110	M1

SAMPLE DUPLICATE: 1323101

Parameter	Units	60161465011 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	6.9	6.7	2	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 313-MSD
Pace Project No.: 60161736

QC Batch: WETA/27974
QC Batch Method: EPA 410.4
Analysis Method: EPA 410.4
Analysis Description: 410.4 COD
Associated Lab Samples: 60161736001

METHOD BLANK: 1323328
Matrix: Water
Associated Lab Samples: 60161736001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	01/29/14 09:55	

LABORATORY CONTROL SAMPLE: 1323329

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	45.3	91	90-110	

MATRIX SPIKE SAMPLE: 1323330

Parameter	Units	60161163001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50	49.2	83	90-110	

MATRIX SPIKE SAMPLE: 1323332

Parameter	Units	60161473002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	1640	2500	3560	77	90-110	

SAMPLE DUPLICATE: 1323331

Parameter	Units	60161613001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	59200	59500	0	25	

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QUALIFIERS

Project: BRIDGETON LF 313-MSD
Pace Project No.: 60161736

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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

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TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 313-MSD
Pace Project No.: 60161736

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60161736001	**313-MSD**	EPA 200.7	MPRP/25997	EPA 200.7	ICP/19894
60161736001	**313-MSD**	EPA 200.7	MPRP/25987	EPA 200.7	ICP/19884
60161736001	**313-MSD**	EPA 245.1	MERP/8092	EPA 245.1	MERC/8047
60161736001	**313-MSD**	EPA 245.1	MERP/8090	EPA 245.1	MERC/8046
60161736001	**313-MSD**	EPA 625	OEXT/42356	EPA 625	MSSV/13487
60161736001	**313-MSD**	EPA 624 Low	MSV/59025		
60161736002	**TRIPBLANK**	EPA 624 Low	MSV/59025		
60161736001	**313-MSD**	EPA 1664A	WET/45823		
60161736001	**313-MSD**	EPA 1664A	WET/45841		
60161736001	**313-MSD**	SM 2540D	WET/45826		
60161736001	**313-MSD**	SM 4500-H+B	WET/45811		
60161736001	**313-MSD**	SM 5210B	WET/45792	SM 5210B	WET/45881
60161736001	**313-MSD**	EPA 350.1	WETA/27938		
60161736001	**313-MSD**	EPA 410.4	WETA/27974		

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Sample Condition Upon Receipt

WO#: 60161736

60161736

Client Name: Barr Engineering

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☑ X-loads

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☑ None ☐ Other ☑ 2pk

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 3.0

Date and initials of person examining contents: 1/23/14

Temperature should be above freezing to 6°C

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 & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6. BOD, pH
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☑Yes ☐No ☐N/A	13.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	BP3N initial pH 4.5, added 2.5 mL HNO3 - final 4.0 BP3S initial pH 4.5, added 2.0 mL H2SO4 - final 2.0
All containers needing preservation are found to be in compliance with EPA recommendation. Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No ☑Yes ☐No	14. Initial when completed ⊛ Lot # of added preservative 12510-9-10-HNO3 12518-1-6-H2SO4
Trip Blank present: Pace Trip Blank lot # (if purchased): 111113-3BEZ	☑Yes ☐No ☐N/A	15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 1/23/14

F-KS-C-003-Rev 7 04December2012

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: BARR ENGINEERING	Report To: ED GALBRAITH/BARR	Attention: AMY HARGROVE/BRIAN POWER
Address:	Copy To: SCOTT FEDAK/FEEZOR	Company Name: REPUBLIC SERVICES
	DANA BAKER/MARGARET TREANOR -BARR	Address: BRIDGETON, MO 63044
Email To:	Purchase Order No. PO 3727110	Pace Quote Reference: 130426_7588
Phone: (816) 285-8410 Fax	Client Project ID: BRIDGETON LF	Pace Project Manager: Brown, Angie
Requested Due Date/TAT: 10 Day (Default)	Container Order Number:	Pace Profile #: 6787 LINE 2

Regulatory Agency
State / Location
Missouri

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

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N: COD EPA 410	pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B		Residual Chlorine (Y/N)	60161736
1	BP3u 313-MSD 20694, 20P2u	OT	G	1/23/14	1000AM	—			14	10	4	1	0	3	6	3S			X	X	X	X	X	X	X	X	X	X	BP3N	N	4-BP3S, 2-20694 01 02
2	TRIP BLANK 20694 (TB)								2	2															X						
3																															
4																															
5																															
6																															METALS LIST total & LF Dis:
7																															Al,Sb,As,Be,Cd,Cr,
8																															Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn
9																															and Mercury
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	Kyle Kramer	1/22/14	1427	Jennetta Martin	1/22/14	1427				
SITE ADDRESS: BRIDGETON LF				E Brock Pace	1/23/14	0130	+1.3 3.0	Y	Y	Y
13570 ST. CHARLES ROCK RD										
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Kyle Kramer					
SIGNATURE of SAMPLER: Kyle Kramer	DATE Signed: 1-22-14				

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

January 31, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-201
Pace Project No.: 60161829

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 24, 2014. 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,

Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

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CERTIFICATIONS

Project: BRIDGETON LF 316-201
Pace Project No.: 60161829

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-201
Pace Project No.: 60161829

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60161829001	**316-201**	Water	01/23/14 09:30	01/24/14 01:15
60161829002	**TRIP BLANK**	Water	01/23/14 09:30	01/24/14 01:15

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-201
Pace Project No.: 60161829

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60161829001	**316-201**	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TJT	1
		EPA 625	JMT	16
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC	1
		SM 4500-H+B	JML	1
		SM 5210B	JML	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC	1
60161829002	**TRIP BLANK**	EPA 624 Low	EAK	28

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-201
Pace Project No.: 60161829

Sample: 316-201 **Lab ID: 60161829001** Collected: 01/23/14 09:30 Received: 01/24/14 01:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	**13200**	ug/L	750	2	01/27/14 09:55	01/27/14 16:54	7429-90-5	
Antimony	**58.9**	ug/L	50.0	1	01/27/14 09:55	01/27/14 16:52	7440-36-0	
Arsenic	**966**	ug/L	50.0	1	01/27/14 09:55	01/27/14 16:52	7440-38-2	
Beryllium	ND	ug/L	5.0	1	01/27/14 09:55	01/27/14 16:52	7440-41-7	
Cadmium	ND	ug/L	25.0	1	01/27/14 09:55	01/27/14 16:52	7440-43-9	
Chromium	**287**	ug/L	25.0	1	01/27/14 09:55	01/27/14 16:52	7440-47-3	
Cobalt	**40.4**	ug/L	25.0	1	01/27/14 09:55	01/27/14 16:52	7440-48-4	
Copper	ND	ug/L	50.0	1	01/27/14 09:55	01/27/14 16:52	7440-50-8	
Iron	**862000**	ug/L	250	1	01/27/14 09:55	01/27/14 16:52	7439-89-6	
Lead	**124**	ug/L	25.0	1	01/27/14 09:55	01/27/14 16:52	7439-92-1	
Nickel	**117**	ug/L	25.0	1	01/27/14 09:55	01/27/14 16:52	7440-02-0	
Selenium	ND	ug/L	75.0	1	01/27/14 09:55	01/27/14 16:52	7782-49-2	
Silver	ND	ug/L	35.0	1	01/27/14 09:55	01/27/14 16:52	7440-22-4	
Thallium	ND	ug/L	100	1	01/27/14 09:55	01/27/14 16:52	7440-28-0	
Zinc	**6700**	ug/L	500	2	01/27/14 09:55	01/27/14 16:54	7440-66-6	
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	**2650**	ug/L	750	2	01/28/14 17:00	01/29/14 13:19	7429-90-5	
Antimony, Dissolved	**59.0**	ug/L	50.0	1	01/28/14 17:00	01/29/14 13:16	7440-36-0	D9
Arsenic, Dissolved	**800**	ug/L	50.0	1	01/28/14 17:00	01/29/14 13:16	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	01/28/14 17:00	01/29/14 13:16	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	01/28/14 17:00	01/29/14 13:16	7440-43-9	
Chromium, Dissolved	**246**	ug/L	25.0	1	01/28/14 17:00	01/29/14 13:16	7440-47-3	
Cobalt, Dissolved	**28.9**	ug/L	25.0	1	01/28/14 17:00	01/29/14 13:16	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	01/28/14 17:00	01/29/14 13:16	7440-50-8	
Iron, Dissolved	**643000**	ug/L	250	1	01/28/14 17:00	01/29/14 13:16	7439-89-6	
Lead, Dissolved	**63.0**	ug/L	25.0	1	01/28/14 17:00	01/29/14 13:16	7439-92-1	
Nickel, Dissolved	**78.8**	ug/L	25.0	1	01/28/14 17:00	01/29/14 13:16	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	01/28/14 17:00	01/29/14 13:16	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	01/28/14 17:00	01/29/14 13:16	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	01/28/14 17:00	01/29/14 13:16	7440-28-0	
Zinc, Dissolved	**5720**	ug/L	500	2	01/28/14 17:00	01/29/14 13:19	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	ND	ug/L	6.0	1	01/27/14 16:30	01/28/14 11:00	7439-97-6	
245.1 Mercury, Dissolved (LF)	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	6.0	1	01/31/14 10:45	01/31/14 13:56	7439-97-6	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	01/28/14 00:00	01/29/14 12:31	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	01/28/14 00:00	01/29/14 12:31	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	01/28/14 00:00	01/29/14 12:31	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	01/28/14 00:00	01/29/14 12:31	67-72-1	
Naphthalene	ND	ug/L	1000	2	01/28/14 00:00	01/29/14 12:31	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	01/28/14 00:00	01/29/14 12:31	98-95-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-201
Pace Project No.: 60161829

Sample: 316-201 **Lab ID: 60161829001** Collected: 01/23/14 09:30 Received: 01/24/14 01:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Pentachlorophenol	ND	ug/L	1000	2	01/28/14 00:00	01/29/14 12:31	87-86-5	
Phenol	**10100**	ug/L	1000	2	01/28/14 00:00	01/29/14 12:31	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	1000	2	01/28/14 00:00	01/29/14 12:31	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	1000	2	01/28/14 00:00	01/29/14 12:31	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	133	%	33-120	2	01/28/14 00:00	01/29/14 12:31	4165-60-0	S0
2-Fluorobiphenyl (S)	86	%	39-120	2	01/28/14 00:00	01/29/14 12:31	321-60-8	
Terphenyl-d14 (S)	91	%	45-120	2	01/28/14 00:00	01/29/14 12:31	1718-51-0	
Phenol-d6 (S)	44	%	11-120	2	01/28/14 00:00	01/29/14 12:31	13127-88-3	
2-Fluorophenol (S)	59	%	17-120	2	01/28/14 00:00	01/29/14 12:31	367-12-4	
2,4,6-Tribromophenol (S)	96	%	39-120	2	01/28/14 00:00	01/29/14 12:31	118-79-6	
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	**113000**	ug/L	2000	200		01/24/14 14:53	67-64-1	N2
Benzene	ND	ug/L	200	200		01/24/14 14:53	71-43-2	
Bromodichloromethane	ND	ug/L	200	200		01/24/14 14:53	75-27-4	
Bromoform	ND	ug/L	200	200		01/24/14 14:53	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/24/14 14:53	74-83-9	
2-Butanone (MEK)	**55900**	ug/L	2000	200		01/24/14 14:53	78-93-3	N2
Carbon tetrachloride	ND	ug/L	200	200		01/24/14 14:53	56-23-5	
Chloroethane	ND	ug/L	200	200		01/24/14 14:53	75-00-3	
Chloroform	ND	ug/L	200	200		01/24/14 14:53	67-66-3	
1,4-Dichlorobenzene	**1830**	ug/L	200	200		01/24/14 14:53	106-46-7	
1,2-Dichloroethane	ND	ug/L	200	200		01/24/14 14:53	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/24/14 14:53	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/24/14 14:53	156-60-5	
Ethylbenzene	ND	ug/L	200	200		01/24/14 14:53	100-41-4	
Methylene chloride	ND	ug/L	200	200		01/24/14 14:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2890**	ug/L	2000	200		01/24/14 14:53	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		01/24/14 14:53	79-34-5	N2
Tetrachloroethene	ND	ug/L	200	200		01/24/14 14:53	127-18-4	
Toluene	ND	ug/L	200	200		01/24/14 14:53	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/24/14 14:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		01/24/14 14:53	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/24/14 14:53	79-01-6	
Vinyl chloride	ND	ug/L	200	200		01/24/14 14:53	75-01-4	
Xylene (Total)	ND	ug/L	600	200		01/24/14 14:53	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	102	%	80-120	200		01/24/14 14:53	460-00-4	
Toluene-d8 (S)	95	%	80-120	200		01/24/14 14:53	2037-26-5	
1,2-Dichloroethane-d4 (S)	85	%	80-120	200		01/24/14 14:53	17060-07-0	
Preservation pH	**6.0**		1.0	200		01/24/14 14:53		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	**1060**	mg/L	5.0	1		01/30/14 15:10		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-201
Pace Project No.: 60161829

Sample: 316-201 **Lab ID: 60161829001** Collected: 01/23/14 09:30 Received: 01/24/14 01:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	**8.0**	mg/L	5.0	1		01/30/14 15:13		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**1020**	mg/L	5.0	1		01/28/14 16:09		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**5.6**	Std. Units	0.10	1		01/27/14 12:49		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**33900**	mg/L	2.0	1	01/24/14 15:56	01/29/14 16:44		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**683**	mg/L	20.0	200		01/28/14 17:42	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**52600**	mg/L	5000	500		01/29/14 10:09		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-201
Pace Project No.: 60161829

Sample: TRIP BLANK **Lab ID: 60161829002** Collected: 01/23/14 09:30 Received: 01/24/14 01:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	ND	ug/L	10.0	1		01/24/14 15:07	67-64-1	N2
Benzene	ND	ug/L	1.0	1		01/24/14 15:07	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		01/24/14 15:07	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/24/14 15:07	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/24/14 15:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/24/14 15:07	78-93-3	N2
Carbon tetrachloride	ND	ug/L	1.0	1		01/24/14 15:07	56-23-5	
Chloroethane	ND	ug/L	1.0	1		01/24/14 15:07	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/24/14 15:07	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/24/14 15:07	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/24/14 15:07	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/24/14 15:07	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/24/14 15:07	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/24/14 15:07	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		01/24/14 15:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/24/14 15:07	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/24/14 15:07	79-34-5	N2
Tetrachloroethene	ND	ug/L	1.0	1		01/24/14 15:07	127-18-4	
Toluene	ND	ug/L	1.0	1		01/24/14 15:07	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/24/14 15:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/24/14 15:07	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/24/14 15:07	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/24/14 15:07	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/24/14 15:07	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	1		01/24/14 15:07	460-00-4	
Toluene-d8 (S)	99	%	80-120	1		01/24/14 15:07	2037-26-5	
1,2-Dichloroethane-d4 (S)	84	%	80-120	1		01/24/14 15:07	17060-07-0	
Preservation pH	**6.0**		1.0	1		01/24/14 15:07		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-201
Pace Project No.: 60161829

QC Batch: MERP/8092 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury
Associated Lab Samples: 60161829001

METHOD BLANK: 1322778 | Matrix: Water
Associated Lab Samples: 60161829001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/28/14 10:27	

LABORATORY CONTROL SAMPLE: 1322779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322780 1322781

Parameter	Units	60161543001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	3.6	3.7	71	73	70-130	3	20	

MATRIX SPIKE SAMPLE: 1322782

Parameter	Units	60161613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	150	76.5	50	70-130	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-201
Pace Project No.: 60161829

QC Batch: MERP/8103
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60161829001

METHOD BLANK: 1324879
Matrix: Water
Associated Lab Samples: 60161829001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	01/31/14 13:52	

LABORATORY CONTROL SAMPLE: 1324880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.5	89	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1324881 1324882

Parameter	Units	60161956001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	98.7	110	66	73	70-130	11	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-201
Pace Project No.: 60161829

QC Batch: MPRP/25997
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60161829001

METHOD BLANK: 1322036
Matrix: Water
Associated Lab Samples: 60161829001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	01/27/14 16:12	
Antimony	ug/L	ND	10.0	01/27/14 16:12	
Arsenic	ug/L	ND	10.0	01/27/14 16:12	
Beryllium	ug/L	ND	1.0	01/27/14 16:12	
Cadmium	ug/L	ND	5.0	01/27/14 16:12	
Chromium	ug/L	ND	5.0	01/27/14 16:12	
Cobalt	ug/L	ND	5.0	01/27/14 16:12	
Copper	ug/L	ND	10.0	01/27/14 16:12	
Iron	ug/L	ND	50.0	01/27/14 16:12	
Lead	ug/L	ND	5.0	01/27/14 16:12	
Nickel	ug/L	ND	5.0	01/27/14 16:12	
Selenium	ug/L	ND	15.0	01/27/14 16:12	
Silver	ug/L	ND	7.0	01/27/14 16:12	
Thallium	ug/L	ND	20.0	01/27/14 16:12	
Zinc	ug/L	ND	50.0	01/27/14 16:12	

LABORATORY CONTROL SAMPLE: 1322037

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9720	97	85-115	
Antimony	ug/L	1000	1030	103	85-115	
Arsenic	ug/L	1000	975	98	85-115	
Beryllium	ug/L	1000	978	98	85-115	
Cadmium	ug/L	1000	1000	100	85-115	
Chromium	ug/L	1000	961	96	85-115	
Cobalt	ug/L	1000	1010	101	85-115	
Copper	ug/L	1000	1000	100	85-115	
Iron	ug/L	10000	9600	96	85-115	
Lead	ug/L	1000	1020	102	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	1000	100	85-115	
Silver	ug/L	500	493	99	85-115	
Thallium	ug/L	1000	1050	105	85-115	
Zinc	ug/L	1000	980	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322038 1322039

Parameter	Units	60161622007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	146	10000	10000	10300	10300	102	101	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-201
Pace Project No.: 60161829

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322038 1322039

Parameter	Units	60161622007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	1000	1000	1090	1080	109	108	70-130	1	7	
Arsenic	ug/L	ND	1000	1000	1040	1040	104	104	70-130	0	10	
Beryllium	ug/L	ND	1000	1000	1010	1000	101	100	70-130	1	7	
Cadmium	ug/L	ND	1000	1000	1040	1040	104	104	70-130	0	10	
Chromium	ug/L	ND	1000	1000	972	967	97	97	70-130	1	10	
Cobalt	ug/L	ND	1000	1000	1010	1000	101	100	70-130	1	6	
Copper	ug/L	51.0	1000	1000	1100	1100	105	105	70-130	0	11	
Iron	ug/L	226	10000	10000	9870	9850	96	96	70-130	0	10	
Lead	ug/L	ND	1000	1000	1000	995	100	99	70-130	1	10	
Nickel	ug/L	ND	1000	1000	1010	1010	101	101	70-130	0	10	
Selenium	ug/L	ND	1000	1000	1060	1060	106	105	70-130	1	10	
Silver	ug/L	ND	500	500	511	512	102	102	70-130	0	10	
Thallium	ug/L	ND	1000	1000	997	998	100	100	70-130	0	6	
Zinc	ug/L	61.6	1000	1000	1020	1020	96	96	70-130	0	11	

MATRIX SPIKE SAMPLE: 1322040

Parameter	Units	60161735007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	ND	10000	10200	102	70-130	
Antimony	ug/L	ND	1000	1080	108	70-130	
Arsenic	ug/L	ND	1000	1040	104	70-130	
Beryllium	ug/L	ND	1000	1010	101	70-130	
Cadmium	ug/L	ND	1000	1040	104	70-130	
Chromium	ug/L	ND	1000	977	98	70-130	
Cobalt	ug/L	ND	1000	1000	100	70-130	
Copper	ug/L	11.7	1000	1060	104	70-130	
Iron	ug/L	ND	10000	9680	96	70-130	
Lead	ug/L	ND	1000	1010	101	70-130	
Nickel	ug/L	ND	1000	1010	101	70-130	
Selenium	ug/L	ND	1000	1050	105	70-130	
Silver	ug/L	ND	500	513	102	70-130	
Thallium	ug/L	ND	1000	993	99	70-130	
Zinc	ug/L	63.9	1000	1030	97	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-201
Pace Project No.: 60161829

QC Batch: MPRP/26023
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60161829001

METHOD BLANK: 1323393
Matrix: Water
Associated Lab Samples: 60161829001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	01/29/14 13:14	
Antimony, Dissolved	ug/L	ND	10.0	01/29/14 13:14	
Arsenic, Dissolved	ug/L	ND	10.0	01/29/14 13:14	
Beryllium, Dissolved	ug/L	ND	1.0	01/29/14 13:14	
Cadmium, Dissolved	ug/L	ND	5.0	01/29/14 13:14	
Chromium, Dissolved	ug/L	ND	5.0	01/29/14 13:14	
Cobalt, Dissolved	ug/L	ND	5.0	01/29/14 13:14	
Copper, Dissolved	ug/L	ND	10.0	01/29/14 13:14	
Iron, Dissolved	ug/L	ND	50.0	01/29/14 13:14	
Lead, Dissolved	ug/L	ND	5.0	01/29/14 13:14	
Nickel, Dissolved	ug/L	ND	5.0	01/29/14 13:14	
Selenium, Dissolved	ug/L	ND	15.0	01/29/14 13:14	
Silver, Dissolved	ug/L	ND	7.0	01/29/14 13:14	
Thallium, Dissolved	ug/L	ND	20.0	01/29/14 13:14	
Zinc, Dissolved	ug/L	ND	50.0	01/29/14 13:14	

LABORATORY CONTROL SAMPLE: 1323394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10000	100	85-115	
Antimony, Dissolved	ug/L	1000	1050	105	85-115	
Arsenic, Dissolved	ug/L	1000	1020	102	85-115	
Beryllium, Dissolved	ug/L	1000	1010	101	85-115	
Cadmium, Dissolved	ug/L	1000	1040	104	85-115	
Chromium, Dissolved	ug/L	1000	1010	101	85-115	
Cobalt, Dissolved	ug/L	1000	1050	105	85-115	
Copper, Dissolved	ug/L	1000	998	100	85-115	
Iron, Dissolved	ug/L	10000	9980	100	85-115	
Lead, Dissolved	ug/L	1000	1050	105	85-115	
Nickel, Dissolved	ug/L	1000	1050	105	85-115	
Selenium, Dissolved	ug/L	1000	1040	104	85-115	
Silver, Dissolved	ug/L	500	492	98	85-115	
Thallium, Dissolved	ug/L	1000	1090	109	85-115	
Zinc, Dissolved	ug/L	1000	1020	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1323395 1323396

Parameter	Units	60161839001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	ND	10000	10000	10100	10200	101	102	70-130	1	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-201
Pace Project No.: 60161829

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1323395 1323396

Parameter	Units	60161839001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	1000	1000	1060	1070	106	106	70-130	1	7	
Arsenic, Dissolved	ug/L	ND	1000	1000	1040	1050	104	105	70-130	1	10	
Beryllium, Dissolved	ug/L	ND	1000	1000	1010	1020	101	102	70-130	1	7	
Cadmium, Dissolved	ug/L	ND	1000	1000	1040	1050	104	105	70-130	1	10	
Chromium, Dissolved	ug/L	ND	1000	1000	994	1000	99	100	70-130	1	10	
Cobalt, Dissolved	ug/L	3.7J	1000	1000	1020	1030	102	103	70-130	1	6	
Copper, Dissolved	ug/L	ND	1000	1000	1010	1020	101	102	70-130	1	11	
Iron, Dissolved	ug/L	12.8J	10000	10000	9820	9910	98	99	70-130	1	10	
Lead, Dissolved	ug/L	4.1J	1000	1000	1030	1030	102	102	70-130	0	10	
Nickel, Dissolved	ug/L	45.6	1000	1000	1060	1070	102	103	70-130	1	10	
Selenium, Dissolved	ug/L	ND	1000	1000	1050	1050	105	105	70-130	0	10	
Silver, Dissolved	ug/L	ND	500	500	499	498	100	99	70-130	0	10	
Thallium, Dissolved	ug/L	ND	1000	1000	1030	1030	103	103	70-130	0	6	
Zinc, Dissolved	ug/L	131	1000	1000	1130	1140	100	100	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-201
Pace Project No.: 60161829

QC Batch: MSV/59025 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60161829001, 60161829002

METHOD BLANK: 1321838 | Matrix: Water
Associated Lab Samples: 60161829001, 60161829002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/24/14 10:23	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/24/14 10:23	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/24/14 10:23	
1,2-Dichloroethane	ug/L	ND	1.0	01/24/14 10:23	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/24/14 10:23	
2-Butanone (MEK)	ug/L	ND	10.0	01/24/14 10:23	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/24/14 10:23	N2
Acetone	ug/L	ND	10.0	01/24/14 10:23	N2
Benzene	ug/L	ND	1.0	01/24/14 10:23	
Bromodichloromethane	ug/L	ND	1.0	01/24/14 10:23	
Bromoform	ug/L	ND	1.0	01/24/14 10:23	
Bromomethane	ug/L	ND	5.0	01/24/14 10:23	
Carbon tetrachloride	ug/L	ND	1.0	01/24/14 10:23	
Chloroethane	ug/L	ND	1.0	01/24/14 10:23	
Chloroform	ug/L	ND	1.0	01/24/14 10:23	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/24/14 10:23	N2
Ethylbenzene	ug/L	ND	1.0	01/24/14 10:23	
Methylene chloride	ug/L	ND	1.0	01/24/14 10:23	
Tetrachloroethene	ug/L	ND	1.0	01/24/14 10:23	
Toluene	ug/L	ND	1.0	01/24/14 10:23	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/24/14 10:23	
Trichloroethene	ug/L	ND	1.0	01/24/14 10:23	
Vinyl chloride	ug/L	ND	1.0	01/24/14 10:23	
Xylene (Total)	ug/L	ND	3.0	01/24/14 10:23	N2
1,2-Dichloroethane-d4 (S)	%	84	80-120	01/24/14 10:23	
4-Bromofluorobenzene (S)	%	101	80-120	01/24/14 10:23	
Toluene-d8 (S)	%	99	80-120	01/24/14 10:23	

LABORATORY CONTROL SAMPLE: 1321839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	16.6	83	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	59-138	N2
1,1,2-Trichloroethane	ug/L	20	19.5	98	69-127	
1,2-Dichloroethane	ug/L	20	16.3	82	71-129	
1,4-Dichlorobenzene	ug/L	20	20.6	103	68-124	
2-Butanone (MEK)	ug/L	100	66.6	67	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	75.1	75	61-120	N2
Acetone	ug/L	100	70.6	71	40-160	N2
Benzene	ug/L	20	17.8	89	73-129	
Bromodichloromethane	ug/L	20	18.2	91	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-201
Pace Project No.: 60161829

LABORATORY CONTROL SAMPLE: 1321839

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.7	103	52-123	
Bromomethane	ug/L	20	12.8	64	10-160	
Carbon tetrachloride	ug/L	20	18.2	91	70-140	
Chloroethane	ug/L	20	16.9	85	42-160	
Chloroform	ug/L	20	15.7	78	60-120	
cis-1,2-Dichloroethene	ug/L	20	17.7	88	70-125	N2
Ethylbenzene	ug/L	20	18.7	94	66-133	
Methylene chloride	ug/L	20	18.1	91	56-135	
Tetrachloroethene	ug/L	20	21.3	106	64-143	
Toluene	ug/L	20	18.5	92	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.1	90	67-149	
Trichloroethene	ug/L	20	18.3	92	71-130	
Vinyl chloride	ug/L	20	16.0	80	41-160	
Xylene (Total)	ug/L	60	58.0	97	67-130	N2
1,2-Dichloroethane-d4 (S)	%			80	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			95	80-120	

MATRIX SPIKE SAMPLE: 1321840

Parameter	Units	60161613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3440	86	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3750	94	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	3730	93	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3270	82	49-155	
1,4-Dichlorobenzene	ug/L	911	4000	4780	97	18-147	
2-Butanone (MEK)	ug/L	68700	20000	82200	68	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	2770	20000	19400	83	40-160	N2
Acetone	ug/L	134000	20000	145000	58	40-160	N2
Benzene	ug/L	ND	4000	3540	87	37-151	
Bromodichloromethane	ug/L	ND	4000	3580	89	35-155	
Bromoform	ug/L	ND	4000	3760	94	45-133	
Bromomethane	ug/L	ND	4000	2850	71	10-160	
Carbon tetrachloride	ug/L	ND	4000	3830	96	70-140	
Chloroethane	ug/L	ND	4000	3140	78	14-160	
Chloroform	ug/L	ND	4000	3080	77	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3530	88	19-160	N2
Ethylbenzene	ug/L	ND	4000	3740	91	37-154	
Methylene chloride	ug/L	ND	4000	3630	91	15-156	
Tetrachloroethene	ug/L	ND	4000	4340	109	64-148	
Toluene	ug/L	ND	4000	3610	89	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	3550	89	54-156	
Trichloroethene	ug/L	ND	4000	3720	93	71-157	
Vinyl chloride	ug/L	ND	4000	3650	91	10-160	
Xylene (Total)	ug/L	ND	12000	11500	95	12-153	N2
1,2-Dichloroethane-d4 (S)	%				85	80-120	
4-Bromofluorobenzene (S)	%				103	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-201
Pace Project No.: 60161829

MATRIX SPIKE SAMPLE: 1321840

Parameter	Units	60161613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				97	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-201
Pace Project No.: 60161829

QC Batch: OEXT/42420
QC Batch Method: EPA 625
Analysis Method: EPA 625
Analysis Description: 625 MSS
Associated Lab Samples: 60161829001

METHOD BLANK: 1322972
Matrix: Water
Associated Lab Samples: 60161829001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/29/14 11:49	
2,4,6-Trichlorophenol	ug/L	ND	5.0	01/29/14 11:49	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	01/29/14 11:49	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/29/14 11:49	
Hexachlorocyclopentadiene	ug/L	ND	5.0	01/29/14 11:49	
Hexachloroethane	ug/L	ND	5.0	01/29/14 11:49	
Naphthalene	ug/L	ND	5.0	01/29/14 11:49	
Nitrobenzene	ug/L	ND	5.0	01/29/14 11:49	
Pentachlorophenol	ug/L	ND	5.0	01/29/14 11:49	
Phenol	ug/L	ND	5.0	01/29/14 11:49	
2,4,6-Tribromophenol (S)	%	80	39-120	01/29/14 11:49	
2-Fluorobiphenyl (S)	%	83	39-120	01/29/14 11:49	
2-Fluorophenol (S)	%	45	17-120	01/29/14 11:49	
Nitrobenzene-d5 (S)	%	74	33-120	01/29/14 11:49	
Phenol-d6 (S)	%	27	11-120	01/29/14 11:49	
Terphenyl-d14 (S)	%	92	45-120	01/29/14 11:49	

LABORATORY CONTROL SAMPLE: 1322973

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	42.7	85	46-120	
2,4,6-Trichlorophenol	ug/L	50	45.3	91	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	50.1	100	40-133	
Hexachloro-1,3-butadiene	ug/L	50	42.0	84	44-116	
Hexachlorocyclopentadiene	ug/L	100	48.3	48	24-120	
Hexachloroethane	ug/L	50	36.7	73	43-113	
Naphthalene	ug/L	50	42.7	85	48-120	
Nitrobenzene	ug/L	50	39.3	79	48-120	
Pentachlorophenol	ug/L	50	43.9	88	47-120	
Phenol	ug/L	50	15.1	30	16-112	
2,4,6-Tribromophenol (S)	%			96	39-120	
2-Fluorobiphenyl (S)	%			89	39-120	
2-Fluorophenol (S)	%			49	17-120	
Nitrobenzene-d5 (S)	%			82	33-120	
Phenol-d6 (S)	%			30	11-120	
Terphenyl-d14 (S)	%			92	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-201
Pace Project No.: 60161829

MATRIX SPIKE SAMPLE: 1322974

Parameter	Units	60161735009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	35.0	70	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	40.6	81	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	50	23.9J	48	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	33.1	66	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	19.3	19	11-120	
Hexachloroethane	ug/L	ND	50	28.0	56	40-113	
Naphthalene	ug/L	ND	50	35.2	70	45-120	
Nitrobenzene	ug/L	ND	50	46.1	92	38-120	
Pentachlorophenol	ug/L	ND	50	39.7	79	43-135	
Phenol	ug/L	ND	50	12.3	25	13-112	
2,4,6-Tribromophenol (S)	%				75	39-120	
2-Fluorobiphenyl (S)	%				75	39-120	
2-Fluorophenol (S)	%				33	17-120	
Nitrobenzene-d5 (S)	%				65	33-120	
Phenol-d6 (S)	%				22	11-120	
Terphenyl-d14 (S)	%				83	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-201
Pace Project No.: 60161829

QC Batch: WET/45885
QC Batch Method: EPA 1664A
Analysis Method: EPA 1664A
Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60161829001

METHOD BLANK: 1324418
Matrix: Water
Associated Lab Samples: 60161829001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/30/14 15:08	

LABORATORY CONTROL SAMPLE: 1324419

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	38.9	97	78-114	

MATRIX SPIKE SAMPLE: 1324420

Parameter	Units	60161476002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	6.0	43.5	44.0	87	78-114	

SAMPLE DUPLICATE: 1324421

Parameter	Units	60161829001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1060	1120	5	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-201
Pace Project No.: 60161829

QC Batch: WET/45886 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 SGT-HEM, TPH
Associated Lab Samples: 60161829001

METHOD BLANK: 1324423 | Matrix: Water
Associated Lab Samples: 60161829001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	01/30/14 15:13	

LABORATORY CONTROL SAMPLE: 1324424

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	16.7	84	64-132	

MATRIX SPIKE SAMPLE: 1324425

Parameter	Units	60161476002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	21.7	17.3	67	64-132	

SAMPLE DUPLICATE: 1324426

Parameter	Units	60161829001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	8.0	10.4	26	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-201
Pace Project No.: 60161829

QC Batch: WET/45839 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60161829001

METHOD BLANK: 1323386 | Matrix: Water
Associated Lab Samples: 60161829001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	01/28/14 16:08	

SAMPLE DUPLICATE: 1323387

Parameter	Units	60161715002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	5.0	5.0	0	10	

SAMPLE DUPLICATE: 1323388

Parameter	Units	60161861002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-201
Pace Project No.: 60161829

QC Batch: WET/45811
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 60161829001

SAMPLE DUPLICATE: 1322654

Parameter	Units	60161611002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-201
Pace Project No.: 60161829

QC Batch: WET/45796 | Analysis Method: SM 5210B
QC Batch Method: SM 5210B | Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 60161829001

METHOD BLANK: 1322029 | Matrix: Water
Associated Lab Samples: 60161829001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	01/29/14 16:05	

LABORATORY CONTROL SAMPLE: 1322030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	221	112	85-115	

SAMPLE DUPLICATE: 1322031

Parameter	Units	60161850001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	908	948	4	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-201
Pace Project No.: 60161829

QC Batch: WETA/27945
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60161829001

METHOD BLANK: 1323113
Matrix: Water
Associated Lab Samples: 60161829001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	01/28/14 17:15	

LABORATORY CONTROL SAMPLE: 1323114

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1323115

Parameter	Units	60161638003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.27	2	2.3	101	90-110	

MATRIX SPIKE SAMPLE: 1323116

Parameter	Units	60161643002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.69	2	2.7	99	90-110	

SAMPLE DUPLICATE: 1323117

Parameter	Units	60161659001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.15	0.14	5	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-201
Pace Project No.: 60161829

QC Batch: WETA/27974 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 60161829001

METHOD BLANK: 1323328 | Matrix: Water
Associated Lab Samples: 60161829001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	01/29/14 09:55	

LABORATORY CONTROL SAMPLE: 1323329

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	45.3	91	90-110	

MATRIX SPIKE SAMPLE: 1323330

Parameter	Units	60161163001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	3560		49.2			

MATRIX SPIKE SAMPLE: 1323332

Parameter	Units	60161473002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	1640	2500	3560	77	90-110	

SAMPLE DUPLICATE: 1323331

Parameter	Units	60161613001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	59200	59500	0	25	

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QUALIFIERS

Project: BRIDGETON LF 316-201
Pace Project No.: 60161829

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

ANALYTE QUALIFIERS

D9	Dissolved result is greater than the total. Data is within laboratory control limits.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-201
Pace Project No.: 60161829

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60161829001	**316-201**	EPA 200.7	MPRP/25997	EPA 200.7	ICP/19894
60161829001	**316-201**	EPA 200.7	MPRP/26023	EPA 200.7	ICP/19907
60161829001	**316-201**	EPA 245.1	MERP/8092	EPA 245.1	MERC/8047
60161829001	**316-201**	EPA 245.1	MERP/8103	EPA 245.1	MERC/8057
60161829001	**316-201**	EPA 625	OEXT/42420	EPA 625	MSSV/13502
60161829001	**316-201**	EPA 624 Low	MSV/59025		
60161829002	**TRIP BLANK**	EPA 624 Low	MSV/59025		
60161829001	**316-201**	EPA 1664A	WET/45885		
60161829001	**316-201**	EPA 1664A	WET/45886		
60161829001	**316-201**	SM 2540D	WET/45839		
60161829001	**316-201**	SM 4500-H+B	WET/45811		
60161829001	**316-201**	SM 5210B	WET/45796	SM 5210B	WET/45918
60161829001	**316-201**	EPA 350.1	WETA/27945		
60161829001	**316-201**	EPA 410.4	WETA/27974		

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Sample Condition Upon Receipt

WO#: 60161829

60161829

Client Name: BARR

Optional
Proj Due Date:
Proj Name:

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

Tracking #: _____ Pace Shipping Label Used? Yes ☒ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☐ Other ☒ ZIPL

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 1.8

Temperature should be above freezing to 6°C

Date and initials of person examining contents: 8 1/21/14

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 & signature on COC:	☒Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☒Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☒Yes ☐No ☐N/A	6. BOD, pH
Rush Turn Around Time requested:	☐Yes ☒No ☐N/A	7.
Sufficient volume:	☒Yes ☐No ☐N/A	8.
Correct containers used:	☒Yes ☐No ☐N/A	
Pace containers used:	☒Yes ☐No ☐N/A	9.
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☒Yes ☐No ☐N/A	13.
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	Added H2SO4 to 316-201 BP3S 5.5/2.0
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☒No ☐N/A	Added HNO3 to 316-201 BP3N 5.5/4.0 14.
Exceptions: VOA coliform, TOC, O&G, WI-DRO (water), Phenolics	☒Yes ☐No	Initial when completed 8 — Lot # of added preservative 12518 12513
Trip Blank present: Pace Trip Blank lot # (if purchased): Jan 13	☒Yes ☐No ☐N/A	15.
Headspace in VOA vials (>6mm):	☒Yes ☐No ☐N/A	3 of 5 VOA 16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State: MO

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 1/24/14

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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.

Page : 1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: BARR ENGINEERING	Report To: ED GALBRAITH/BARR	Attention: AMY HARGROVE/BRIAN POWER
Address:	Copy To: SCOTT FEDAK/FEEZOR	Company Name: REPUBLIC SERVICES
	DANA BAKER/MARGARET TREANOR -BARR	Address: BRIDGETON, MO 63044
Email To:	Purchase Order No. PO 3727110	Pace Quote Reference: 130426_7588
Phone: (216) 285-8410 Fax	Client Project ID: BRIDGETON LF	Pace Project Manager: Brown, Angie
Requested Due Date/TAT: 10 Day (Default)	Container Order Number:	Pace Profile #: 6787 LINE 2

Regulatory Agency
State / Location
Missouri

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N): COD EPA 410	pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B		Residual Chlorine (Y/N)	60161829
1	316-201 3(AG3S), 5(DG9U)	OT	G	1/23/14	9:34AM	—	—		14	10	4	1	0					X	X	X	X	X	X	X	X	X	X	X	2(BP2U), BP2U, BP3S, BP3N, 2(AG4U)		5.5 5.5 (U)
2	TRIP BLANK								2	2															X				2(DG9U) TB		
3																															
4																															
5																															
6																															METALS LIST total & LF Dis:
7																															Al,Sb,As,Be,Cd,Cr,
8																															Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn
9																															and Mercury
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	Kyle Kramer	1-23-14	2:00PM	Jennifer Horth	1/23/14	2:00pm				
SITE ADDRESS: BRIDGETON LF				Shelli McCall/PASI	1/24/14	0115	1.8	Y	Y	Y
13570 ST. CHARLES ROCK RD										
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Kyle Kramer						
SIGNATURE of SAMPLER: Kyle Kramer	DATE Signed: 1-23-14					

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February 03, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LANDFILL 316-202r3
Pace Project No.: 60161912

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 25, 2014. 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,

Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

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CERTIFICATIONS

Project: BRIDGETON LANDFILL 316-202r3
Pace Project No.: 60161912

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LANDFILL 316-202r3
Pace Project No.: 60161912

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60161912001	**316-202R3**	Water	01/24/14 15:00	01/25/14 01:15
60161912002	**TRIP BLANK**	Water	01/24/14 15:00	01/25/14 01:15

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LANDFILL 316-202r3
Pace Project No.: 60161912

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60161912001	**316-202R3**	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TJT	1
		EPA 625	JMT	16
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC	1
		SM 4500-H+B	JML	1
		SM 5210B	RAH	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC	1
60161912002	**TRIP BLANK**	EPA 624 Low	EAK	28

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ANALYTICAL RESULTS

Project: BRIDGETON LANDFILL 316-202r3
Pace Project No.: 60161912

Sample: 316-202R3 **Lab ID: 60161912001** Collected: 01/24/14 15:00 Received: 01/25/14 01:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	**11100**	ug/L	750	2	01/28/14 17:00	01/29/14 12:42	7429-90-5	
Antimony	**82.2**	ug/L	50.0	1	01/28/14 17:00	01/29/14 12:35	7440-36-0	
Arsenic	**1030**	ug/L	50.0	1	01/28/14 17:00	01/29/14 12:35	7440-38-2	
Beryllium	ND	ug/L	5.0	1	01/28/14 17:00	01/29/14 12:35	7440-41-7	
Cadmium	ND	ug/L	25.0	1	01/28/14 17:00	01/29/14 12:35	7440-43-9	
Chromium	**315**	ug/L	25.0	1	01/28/14 17:00	01/29/14 12:35	7440-47-3	
Cobalt	**39.6**	ug/L	25.0	1	01/28/14 17:00	01/29/14 12:35	7440-48-4	
Copper	ND	ug/L	50.0	1	01/28/14 17:00	01/29/14 12:35	7440-50-8	
Iron	**889000**	ug/L	250	1	01/28/14 17:00	01/29/14 12:35	7439-89-6	
Lead	**92.2**	ug/L	25.0	1	01/28/14 17:00	01/29/14 12:35	7439-92-1	
Nickel	**105**	ug/L	25.0	1	01/28/14 17:00	01/29/14 12:35	7440-02-0	
Selenium	ND	ug/L	75.0	1	01/28/14 17:00	01/29/14 12:35	7782-49-2	
Silver	ND	ug/L	35.0	1	01/28/14 17:00	01/29/14 12:35	7440-22-4	
Thallium	ND	ug/L	100	1	01/28/14 17:00	01/29/14 12:35	7440-28-0	
Zinc	**6850**	ug/L	500	2	01/28/14 17:00	01/29/14 12:42	7440-66-6	
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	**2520**	ug/L	750	2	01/28/14 17:00	01/29/14 13:44	7429-90-5	
Antimony, Dissolved	**84.4**	ug/L	50.0	1	01/28/14 17:00	01/29/14 13:41	7440-36-0	D9
Arsenic, Dissolved	**907**	ug/L	50.0	1	01/28/14 17:00	01/29/14 13:41	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	01/28/14 17:00	01/29/14 13:41	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	01/28/14 17:00	01/29/14 13:41	7440-43-9	
Chromium, Dissolved	**271**	ug/L	25.0	1	01/28/14 17:00	01/29/14 13:41	7440-47-3	
Cobalt, Dissolved	**29.6**	ug/L	25.0	1	01/28/14 17:00	01/29/14 13:41	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	01/28/14 17:00	01/29/14 13:41	7440-50-8	
Iron, Dissolved	**734000**	ug/L	250	1	01/28/14 17:00	01/29/14 13:41	7439-89-6	
Lead, Dissolved	**62.4**	ug/L	25.0	1	01/28/14 17:00	01/29/14 13:41	7439-92-1	
Nickel, Dissolved	**86.4**	ug/L	25.0	1	01/28/14 17:00	01/29/14 13:41	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	01/28/14 17:00	01/29/14 13:41	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	01/28/14 17:00	01/29/14 13:41	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	01/28/14 17:00	01/29/14 13:41	7440-28-0	
Zinc, Dissolved	**6090**	ug/L	500	2	01/28/14 17:00	01/29/14 13:44	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**13.3**	ug/L	6.0	1	01/27/14 16:30	01/28/14 11:13	7439-97-6	
245.1 Mercury, Dissolved (LF)	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	6.0	1	01/31/14 10:45	01/31/14 13:59	7439-97-6	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	01/28/14 00:00	01/29/14 12:52	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	01/28/14 00:00	01/29/14 12:52	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	01/28/14 00:00	01/29/14 12:52	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	01/28/14 00:00	01/29/14 12:52	67-72-1	
Naphthalene	ND	ug/L	1000	2	01/28/14 00:00	01/29/14 12:52	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	01/28/14 00:00	01/29/14 12:52	98-95-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LANDFILL 316-202r3
Pace Project No.: 60161912

Sample: 316-202R3 **Lab ID: 60161912001** Collected: 01/24/14 15:00 Received: 01/25/14 01:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Pentachlorophenol	ND	ug/L	1000	2	01/28/14 00:00	01/29/14 12:52	87-86-5	
Phenol	**10900**	ug/L	1000	2	01/28/14 00:00	01/29/14 12:52	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	1000	2	01/28/14 00:00	01/29/14 12:52	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	1000	2	01/28/14 00:00	01/29/14 12:52	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	146	%	33-120	2	01/28/14 00:00	01/29/14 12:52	4165-60-0	S0
2-Fluorobiphenyl (S)	87	%	39-120	2	01/28/14 00:00	01/29/14 12:52	321-60-8	
Terphenyl-d14 (S)	94	%	45-120	2	01/28/14 00:00	01/29/14 12:52	1718-51-0	
Phenol-d6 (S)	39	%	11-120	2	01/28/14 00:00	01/29/14 12:52	13127-88-3	
2-Fluorophenol (S)	39	%	17-120	2	01/28/14 00:00	01/29/14 12:52	367-12-4	
2,4,6-Tribromophenol (S)	93	%	39-120	2	01/28/14 00:00	01/29/14 12:52	118-79-6	
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	**157000**	ug/L	2000	200		01/30/14 20:40	67-64-1	M1,N2
Benzene	ND	ug/L	200	200		01/30/14 20:40	71-43-2	
Bromodichloromethane	ND	ug/L	200	200		01/30/14 20:40	75-27-4	
Bromoform	ND	ug/L	200	200		01/30/14 20:40	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/30/14 20:40	74-83-9	
2-Butanone (MEK)	**102000**	ug/L	2000	200		01/30/14 20:40	78-93-3	N2
Carbon tetrachloride	ND	ug/L	200	200		01/30/14 20:40	56-23-5	
Chloroethane	ND	ug/L	200	200		01/30/14 20:40	75-00-3	
Chloroform	ND	ug/L	200	200		01/30/14 20:40	67-66-3	
1,4-Dichlorobenzene	**683**	ug/L	200	200		01/30/14 20:40	106-46-7	
1,2-Dichloroethane	ND	ug/L	200	200		01/30/14 20:40	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/30/14 20:40	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/30/14 20:40	156-60-5	
Ethylbenzene	ND	ug/L	200	200		01/30/14 20:40	100-41-4	
Methylene chloride	ND	ug/L	200	200		01/30/14 20:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2940**	ug/L	2000	200		01/30/14 20:40	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		01/30/14 20:40	79-34-5	N2
Tetrachloroethene	ND	ug/L	200	200		01/30/14 20:40	127-18-4	
Toluene	ND	ug/L	200	200		01/30/14 20:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/30/14 20:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		01/30/14 20:40	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/30/14 20:40	79-01-6	
Vinyl chloride	ND	ug/L	200	200		01/30/14 20:40	75-01-4	
Xylene (Total)	ND	ug/L	600	200		01/30/14 20:40	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	97	%	80-120	200		01/30/14 20:40	460-00-4	
Toluene-d8 (S)	100	%	80-120	200		01/30/14 20:40	2037-26-5	
1,2-Dichloroethane-d4 (S)	110	%	80-120	200		01/30/14 20:40	17060-07-0	
Preservation pH	**6.0**		1.0	200		01/30/14 20:40		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	**932**	mg/L	5.0	1		01/30/14 15:17		

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ANALYTICAL RESULTS

Project: BRIDGETON LANDFILL 316-202r3
Pace Project No.: 60161912

Sample: 316-202R3 **Lab ID: 60161912001** Collected: 01/24/14 15:00 Received: 01/25/14 01:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	**15.0**	mg/L	5.0	1		02/03/14 10:23		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**2580**	mg/L	5.0	1		01/31/14 10:05		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**5.5**	Std. Units	0.10	1		01/27/14 12:49		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**33700**	mg/L	2.0	1	01/25/14 11:23	01/30/14 14:24		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**667**	mg/L	20.0	200		01/28/14 17:43	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**59400**	mg/L	5000	500		02/03/14 07:52		

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ANALYTICAL RESULTS

Project: BRIDGETON LANDFILL 316-202r3
Pace Project No.: 60161912

Sample: TRIP BLANK **Lab ID: 60161912002** Collected: 01/24/14 15:00 Received: 01/25/14 01:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	ND	ug/L	10.0	1		01/30/14 21:09	67-64-1	N2
Benzene	ND	ug/L	1.0	1		01/30/14 21:09	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		01/30/14 21:09	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/30/14 21:09	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/30/14 21:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/30/14 21:09	78-93-3	N2
Carbon tetrachloride	ND	ug/L	1.0	1		01/30/14 21:09	56-23-5	
Chloroethane	ND	ug/L	1.0	1		01/30/14 21:09	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/30/14 21:09	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/30/14 21:09	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/30/14 21:09	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/30/14 21:09	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/30/14 21:09	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/30/14 21:09	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		01/30/14 21:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/30/14 21:09	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/30/14 21:09	79-34-5	N2
Tetrachloroethene	ND	ug/L	1.0	1		01/30/14 21:09	127-18-4	
Toluene	ND	ug/L	1.0	1		01/30/14 21:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/30/14 21:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/30/14 21:09	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/30/14 21:09	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/30/14 21:09	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/30/14 21:09	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	1		01/30/14 21:09	460-00-4	
Toluene-d8 (S)	98	%	80-120	1		01/30/14 21:09	2037-26-5	
1,2-Dichloroethane-d4 (S)	92	%	80-120	1		01/30/14 21:09	17060-07-0	
Preservation pH	**6.0**		1.0	1		01/30/14 21:09		

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-202r3
Pace Project No.: 60161912

QC Batch: MERP/8092 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury
Associated Lab Samples: 60161912001

METHOD BLANK: 1322778 | Matrix: Water
Associated Lab Samples: 60161912001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/28/14 10:27	

LABORATORY CONTROL SAMPLE: 1322779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322780 1322781

Parameter	Units	60161543001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	3.6	3.7	71	73	70-130	3	20	

MATRIX SPIKE SAMPLE: 1322782

Parameter	Units	60161613001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	150	76.5	50	70-130	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-202r3
Pace Project No.: 60161912

QC Batch: MERP/8103
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60161912001

METHOD BLANK: 1324879
Matrix: Water
Associated Lab Samples: 60161912001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	01/31/14 13:52	

LABORATORY CONTROL SAMPLE: 1324880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.5	89	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1324881 1324882

Parameter	Units	60161956001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	98.7	110	66	73	70-130	11	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-202r3
Pace Project No.: 60161912

QC Batch: MPRP/26007
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60161912001

METHOD BLANK: 1322792
Matrix: Water
Associated Lab Samples: 60161912001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	01/29/14 12:01	
Antimony	ug/L	ND	10.0	01/29/14 12:01	
Arsenic	ug/L	ND	10.0	01/29/14 12:01	
Beryllium	ug/L	ND	1.0	01/29/14 12:01	
Cadmium	ug/L	ND	5.0	01/29/14 12:01	
Chromium	ug/L	ND	5.0	01/29/14 12:01	
Cobalt	ug/L	ND	5.0	01/29/14 12:01	
Copper	ug/L	ND	10.0	01/29/14 12:01	
Iron	ug/L	ND	50.0	01/29/14 12:01	
Lead	ug/L	ND	5.0	01/29/14 12:01	
Nickel	ug/L	ND	5.0	01/29/14 12:01	
Selenium	ug/L	ND	15.0	01/29/14 12:01	
Silver	ug/L	ND	7.0	01/29/14 12:01	
Thallium	ug/L	ND	20.0	01/29/14 12:01	
Zinc	ug/L	ND	50.0	01/29/14 12:01	

LABORATORY CONTROL SAMPLE: 1322793

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9920	99	85-115	
Antimony	ug/L	1000	1010	101	85-115	
Arsenic	ug/L	1000	967	97	85-115	
Beryllium	ug/L	1000	1010	101	85-115	
Cadmium	ug/L	1000	992	99	85-115	
Chromium	ug/L	1000	1000	100	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	997	100	85-115	
Iron	ug/L	10000	10000	100	85-115	
Lead	ug/L	1000	1020	102	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1010	101	85-115	
Silver	ug/L	500	494	99	85-115	
Thallium	ug/L	1000	1040	104	85-115	
Zinc	ug/L	1000	996	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322794 1322795

Parameter	Units	60161839001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	25.4J	10000	10000	10000	9920	100	99	70-130	1	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-202r3
Pace Project No.: 60161912

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322794 1322795

Parameter	Units	60161839001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	1000	1000	1020	1020	102	102	70-130	0	7	
Arsenic	ug/L	ND	1000	1000	1010	1000	101	100	70-130	1	10	
Beryllium	ug/L	ND	1000	1000	1030	1030	103	103	70-130	0	7	
Cadmium	ug/L	ND	1000	1000	1010	1010	101	101	70-130	0	10	
Chromium	ug/L	0.86J	1000	1000	982	982	98	98	70-130	0	10	
Cobalt	ug/L	4.2J	1000	1000	1000	1000	100	100	70-130	0	6	
Copper	ug/L	4.1J	1000	1000	1020	1010	101	101	70-130	1	11	
Iron	ug/L	30.5J	10000	10000	9880	9790	98	98	70-130	1	10	
Lead	ug/L	7.3	1000	1000	991	989	98	98	70-130	0	10	
Nickel	ug/L	48.5	1000	1000	1050	1050	100	100	70-130	0	10	
Selenium	ug/L	ND	1000	1000	1110	1120	111	112	70-130	1	10	
Silver	ug/L	1.2J	500	500	494	492	99	98	70-130	0	10	
Thallium	ug/L	ND	1000	1000	970	970	97	97	70-130	0	6	
Zinc	ug/L	159	1000	1000	1140	1130	98	97	70-130	1	11	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322796 1322797

Parameter	Units	60161892001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	0.018J mg/L	10000	10000	10200	10200	101	102	70-130	0	8	
Antimony	ug/L	ND	1000	1000	1080	1080	107	108	70-130	0	7	
Arsenic	ug/L	0.0067J mg/L	1000	1000	1070	1080	107	107	70-130	0	10	
Beryllium	ug/L	ND	1000	1000	1010	1010	101	101	70-130	0	7	
Cadmium	ug/L	ND	1000	1000	1060	1060	106	106	70-130	0	10	
Chromium	ug/L	0.0011J mg/L	1000	1000	991	988	99	99	70-130	0	10	
Cobalt	ug/L	ND	1000	1000	986	983	99	98	70-130	0	6	
Copper	ug/L	0.031 mg/L	1000	1000	1060	1050	103	102	70-130	0	11	
Iron	ug/L	0.17 mg/L	10000	10000	9890	9960	97	98	70-130	1	10	
Lead	ug/L	ND	1000	1000	950	951	95	95	70-130	0	10	
Nickel	ug/L	0.0098 mg/L	1000	1000	984	981	97	97	70-130	0	10	
Selenium	ug/L	ND	1000	1000	1120	1110	112	111	70-130	1	10	
Silver	ug/L	0.0012J mg/L	500	500	522	521	104	104	70-130	0	10	
Thallium	ug/L	ND	1000	1000	904	904	90	90	70-130	0	6	
Zinc	ug/L	ND	1000	1000	979	976	98	98	70-130	0	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-202r3
Pace Project No.: 60161912

QC Batch: MPRP/26023
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60161912001

METHOD BLANK: 1323393
Matrix: Water
Associated Lab Samples: 60161912001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	01/29/14 13:14	
Antimony, Dissolved	ug/L	ND	10.0	01/29/14 13:14	
Arsenic, Dissolved	ug/L	ND	10.0	01/29/14 13:14	
Beryllium, Dissolved	ug/L	ND	1.0	01/29/14 13:14	
Cadmium, Dissolved	ug/L	ND	5.0	01/29/14 13:14	
Chromium, Dissolved	ug/L	ND	5.0	01/29/14 13:14	
Cobalt, Dissolved	ug/L	ND	5.0	01/29/14 13:14	
Copper, Dissolved	ug/L	ND	10.0	01/29/14 13:14	
Iron, Dissolved	ug/L	ND	50.0	01/29/14 13:14	
Lead, Dissolved	ug/L	ND	5.0	01/29/14 13:14	
Nickel, Dissolved	ug/L	ND	5.0	01/29/14 13:14	
Selenium, Dissolved	ug/L	ND	15.0	01/29/14 13:14	
Silver, Dissolved	ug/L	ND	7.0	01/29/14 13:14	
Thallium, Dissolved	ug/L	ND	20.0	01/29/14 13:14	
Zinc, Dissolved	ug/L	ND	50.0	01/29/14 13:14	

LABORATORY CONTROL SAMPLE: 1323394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10000	100	85-115	
Antimony, Dissolved	ug/L	1000	1050	105	85-115	
Arsenic, Dissolved	ug/L	1000	1020	102	85-115	
Beryllium, Dissolved	ug/L	1000	1010	101	85-115	
Cadmium, Dissolved	ug/L	1000	1040	104	85-115	
Chromium, Dissolved	ug/L	1000	1010	101	85-115	
Cobalt, Dissolved	ug/L	1000	1050	105	85-115	
Copper, Dissolved	ug/L	1000	998	100	85-115	
Iron, Dissolved	ug/L	10000	9980	100	85-115	
Lead, Dissolved	ug/L	1000	1050	105	85-115	
Nickel, Dissolved	ug/L	1000	1050	105	85-115	
Selenium, Dissolved	ug/L	1000	1040	104	85-115	
Silver, Dissolved	ug/L	500	492	98	85-115	
Thallium, Dissolved	ug/L	1000	1090	109	85-115	
Zinc, Dissolved	ug/L	1000	1020	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1323395 1323396

Parameter	Units	60161839001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	ND	10000	10000	10100	10200	101	102	70-130	1	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-202r3
Pace Project No.: 60161912

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1323395 1323396

Parameter	Units	60161839001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	1000	1000	1060	1070	106	106	70-130	1	7	
Arsenic, Dissolved	ug/L	ND	1000	1000	1040	1050	104	105	70-130	1	10	
Beryllium, Dissolved	ug/L	ND	1000	1000	1010	1020	101	102	70-130	1	7	
Cadmium, Dissolved	ug/L	ND	1000	1000	1040	1050	104	105	70-130	1	10	
Chromium, Dissolved	ug/L	ND	1000	1000	994	1000	99	100	70-130	1	10	
Cobalt, Dissolved	ug/L	3.7J	1000	1000	1020	1030	102	103	70-130	1	6	
Copper, Dissolved	ug/L	ND	1000	1000	1010	1020	101	102	70-130	1	11	
Iron, Dissolved	ug/L	12.8J	10000	10000	9820	9910	98	99	70-130	1	10	
Lead, Dissolved	ug/L	4.1J	1000	1000	1030	1030	102	102	70-130	0	10	
Nickel, Dissolved	ug/L	45.6	1000	1000	1060	1070	102	103	70-130	1	10	
Selenium, Dissolved	ug/L	ND	1000	1000	1050	1050	105	105	70-130	0	10	
Silver, Dissolved	ug/L	ND	500	500	499	498	100	99	70-130	0	10	
Thallium, Dissolved	ug/L	ND	1000	1000	1030	1030	103	103	70-130	0	6	
Zinc, Dissolved	ug/L	131	1000	1000	1130	1140	100	100	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-202r3
Pace Project No.: 60161912

QC Batch: MSV/59176 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60161912001, 60161912002

METHOD BLANK: 1324659 | Matrix: Water
Associated Lab Samples: 60161912001, 60161912002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/30/14 20:25	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/30/14 20:25	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/30/14 20:25	
1,2-Dichloroethane	ug/L	ND	1.0	01/30/14 20:25	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/30/14 20:25	
2-Butanone (MEK)	ug/L	ND	10.0	01/30/14 20:25	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/30/14 20:25	N2
Acetone	ug/L	ND	10.0	01/30/14 20:25	N2
Benzene	ug/L	ND	1.0	01/30/14 20:25	
Bromodichloromethane	ug/L	ND	1.0	01/30/14 20:25	
Bromoform	ug/L	ND	1.0	01/30/14 20:25	
Bromomethane	ug/L	ND	5.0	01/30/14 20:25	
Carbon tetrachloride	ug/L	ND	1.0	01/30/14 20:25	
Chloroethane	ug/L	ND	1.0	01/30/14 20:25	
Chloroform	ug/L	ND	1.0	01/30/14 20:25	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/30/14 20:25	N2
Ethylbenzene	ug/L	ND	1.0	01/30/14 20:25	
Methylene chloride	ug/L	ND	1.0	01/30/14 20:25	
Tetrachloroethene	ug/L	ND	1.0	01/30/14 20:25	
Toluene	ug/L	ND	1.0	01/30/14 20:25	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/30/14 20:25	
Trichloroethene	ug/L	ND	1.0	01/30/14 20:25	
Vinyl chloride	ug/L	ND	1.0	01/30/14 20:25	
Xylene (Total)	ug/L	ND	3.0	01/30/14 20:25	N2
1,2-Dichloroethane-d4 (S)	%	104	80-120	01/30/14 20:25	
4-Bromofluorobenzene (S)	%	101	80-120	01/30/14 20:25	
Toluene-d8 (S)	%	101	80-120	01/30/14 20:25	

LABORATORY CONTROL SAMPLE: 1324660

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.6	93	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	59-138	N2
1,1,2-Trichloroethane	ug/L	20	20.1	101	69-127	
1,2-Dichloroethane	ug/L	20	18.8	94	71-129	
1,4-Dichlorobenzene	ug/L	20	19.7	98	68-124	
2-Butanone (MEK)	ug/L	100	113	113	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	91.3	91	61-120	N2
Acetone	ug/L	100	118	118	40-160	N2
Benzene	ug/L	20	18.9	94	73-129	
Bromodichloromethane	ug/L	20	19.5	97	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-202r3
Pace Project No.: 60161912

LABORATORY CONTROL SAMPLE: 1324660

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	21.1	105	52-123	
Bromomethane	ug/L	20	18.1	91	10-160	
Carbon tetrachloride	ug/L	20	19.0	95	70-140	
Chloroethane	ug/L	20	18.7	94	42-160	
Chloroform	ug/L	20	19.4	97	60-120	
cis-1,2-Dichloroethene	ug/L	20	18.6	93	70-125	N2
Ethylbenzene	ug/L	20	19.1	96	66-133	
Methylene chloride	ug/L	20	18.7	93	56-135	
Tetrachloroethene	ug/L	20	18.9	94	64-143	
Toluene	ug/L	20	18.4	92	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.7	94	67-149	
Trichloroethene	ug/L	20	18.8	94	71-130	
Vinyl chloride	ug/L	20	17.6	88	41-160	
Xylene (Total)	ug/L	60	57.7	96	67-130	N2
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			98	80-120	

MATRIX SPIKE SAMPLE: 1324661

Parameter	Units	60161912001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4510	113	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4070	102	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4520	113	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3900	98	49-155	
1,4-Dichlorobenzene	ug/L	683	4000	4860	105	18-147	
2-Butanone (MEK)	ug/L	102000	20000	127000	128	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	2940	20000	23900	105	40-160	N2
Acetone	ug/L	157000	20000	241000	418	40-160	M1,N2
Benzene	ug/L	ND	4000	4340	107	37-151	
Bromodichloromethane	ug/L	ND	4000	4310	108	35-155	
Bromoform	ug/L	ND	4000	4170	104	45-133	
Bromomethane	ug/L	ND	4000	4080	101	10-160	
Carbon tetrachloride	ug/L	ND	4000	4860	122	70-140	
Chloroethane	ug/L	ND	4000	4680	117	14-160	
Chloroform	ug/L	ND	4000	4350	109	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	4250	106	19-160	N2
Ethylbenzene	ug/L	ND	4000	4320	106	37-154	
Methylene chloride	ug/L	ND	4000	3950	99	15-156	
Tetrachloroethene	ug/L	ND	4000	4480	111	64-148	
Toluene	ug/L	ND	4000	4190	104	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4280	107	54-156	
Trichloroethene	ug/L	ND	4000	4250	106	71-157	
Vinyl chloride	ug/L	ND	4000	4320	108	10-160	
Xylene (Total)	ug/L	ND	12000	13100	109	12-153	N2
1,2-Dichloroethane-d4 (S)	%				102	80-120	
4-Bromofluorobenzene (S)	%				100	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-202r3
Pace Project No.: 60161912

MATRIX SPIKE SAMPLE: 1324661

Parameter	Units	60161912001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				99	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-202r3
Pace Project No.: 60161912

QC Batch: OEXT/42420 | Analysis Method: EPA 625
QC Batch Method: EPA 625 | Analysis Description: 625 MSS
Associated Lab Samples: 60161912001

METHOD BLANK: 1322972 | Matrix: Water
Associated Lab Samples: 60161912001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/29/14 11:49	
2,4,6-Trichlorophenol	ug/L	ND	5.0	01/29/14 11:49	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	01/29/14 11:49	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/29/14 11:49	
Hexachlorocyclopentadiene	ug/L	ND	5.0	01/29/14 11:49	
Hexachloroethane	ug/L	ND	5.0	01/29/14 11:49	
Naphthalene	ug/L	ND	5.0	01/29/14 11:49	
Nitrobenzene	ug/L	ND	5.0	01/29/14 11:49	
Pentachlorophenol	ug/L	ND	5.0	01/29/14 11:49	
Phenol	ug/L	ND	5.0	01/29/14 11:49	
2,4,6-Tribromophenol (S)	%	80	39-120	01/29/14 11:49	
2-Fluorobiphenyl (S)	%	83	39-120	01/29/14 11:49	
2-Fluorophenol (S)	%	45	17-120	01/29/14 11:49	
Nitrobenzene-d5 (S)	%	74	33-120	01/29/14 11:49	
Phenol-d6 (S)	%	27	11-120	01/29/14 11:49	
Terphenyl-d14 (S)	%	92	45-120	01/29/14 11:49	

LABORATORY CONTROL SAMPLE: 1322973

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	42.7	85	46-120	
2,4,6-Trichlorophenol	ug/L	50	45.3	91	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	50.1	100	40-133	
Hexachloro-1,3-butadiene	ug/L	50	42.0	84	44-116	
Hexachlorocyclopentadiene	ug/L	100	48.3	48	24-120	
Hexachloroethane	ug/L	50	36.7	73	43-113	
Naphthalene	ug/L	50	42.7	85	48-120	
Nitrobenzene	ug/L	50	39.3	79	48-120	
Pentachlorophenol	ug/L	50	43.9	88	47-120	
Phenol	ug/L	50	15.1	30	16-112	
2,4,6-Tribromophenol (S)	%			96	39-120	
2-Fluorobiphenyl (S)	%			89	39-120	
2-Fluorophenol (S)	%			49	17-120	
Nitrobenzene-d5 (S)	%			82	33-120	
Phenol-d6 (S)	%			30	11-120	
Terphenyl-d14 (S)	%			92	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-202r3
Pace Project No.: 60161912

MATRIX SPIKE SAMPLE: 1322974

Parameter	Units	60161735009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	35.0	70	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	40.6	81	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	50	23.9J	48	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	33.1	66	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	19.3	19	11-120	
Hexachloroethane	ug/L	ND	50	28.0	56	40-113	
Naphthalene	ug/L	ND	50	35.2	70	45-120	
Nitrobenzene	ug/L	ND	50	46.1	92	38-120	
Pentachlorophenol	ug/L	ND	50	39.7	79	43-135	
Phenol	ug/L	ND	50	12.3	25	13-112	
2,4,6-Tribromophenol (S)	%				75	39-120	
2-Fluorobiphenyl (S)	%				75	39-120	
2-Fluorophenol (S)	%				33	17-120	
Nitrobenzene-d5 (S)	%				65	33-120	
Phenol-d6 (S)	%				22	11-120	
Terphenyl-d14 (S)	%				83	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-202r3
Pace Project No.: 60161912

QC Batch: WET/45887 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60161912001

METHOD BLANK: 1324431 | Matrix: Water
Associated Lab Samples: 60161912001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/30/14 15:15	

LABORATORY CONTROL SAMPLE: 1324432

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	33.5	84	78-114	

MATRIX SPIKE SAMPLE: 1324433

Parameter	Units	60161067001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40.4	41.1	95	78-114	

SAMPLE DUPLICATE: 1324434

Parameter	Units	60161912001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	932	1100	16	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-202r3
Pace Project No.: 60161912

QC Batch: WET/45934 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 SGT-HEM, TPH
Associated Lab Samples: 60161912001

METHOD BLANK: 1325928 | Matrix: Water
Associated Lab Samples: 60161912001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	02/03/14 10:22	

LABORATORY CONTROL SAMPLE: 1325929

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	16.3	82	64-132	

MATRIX SPIKE SAMPLE: 1325930

Parameter	Units	60161930001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	21.3	17.4	77	64-132	

SAMPLE DUPLICATE: 1325931

Parameter	Units	60161893001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	ND		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-202r3
Pace Project No.: 60161912

QC Batch: WET/45844 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60161912001

METHOD BLANK: 1323619 | Matrix: Water
Associated Lab Samples: 60161912001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	01/31/14 10:03	

SAMPLE DUPLICATE: 1323620

Parameter	Units	60161843002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	14.0	14.0	0	10	H1

SAMPLE DUPLICATE: 1323621

Parameter	Units	60161912001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2580	2340	10	10	

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(913)599-5665

QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-202r3
Pace Project No.: 60161912

QC Batch: WET/45811
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 60161912001

SAMPLE DUPLICATE: 1322654

Parameter	Units	60161611002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-202r3
Pace Project No.: 60161912

QC Batch: WET/45804 | Analysis Method: SM 5210B
QC Batch Method: SM 5210B | Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 60161912001

METHOD BLANK: 1322368 | Matrix: Water
Associated Lab Samples: 60161912001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	01/30/14 13:08	

LABORATORY CONTROL SAMPLE: 1322369

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	217	110	85-115	

SAMPLE DUPLICATE: 1322370

Parameter	Units	60161832002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	ND	ND		17	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-202r3
Pace Project No.: 60161912

QC Batch: WETA/27945 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60161912001

METHOD BLANK: 1323113 | Matrix: Water
Associated Lab Samples: 60161912001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	01/28/14 17:15	

LABORATORY CONTROL SAMPLE: 1323114

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1323115

Parameter	Units	60161638003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.27	2	2.3	101	90-110	

MATRIX SPIKE SAMPLE: 1323116

Parameter	Units	60161643002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.69	2	2.7	99	90-110	

SAMPLE DUPLICATE: 1323117

Parameter	Units	60161659001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.15	0.14	5	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-202r3
Pace Project No.: 60161912

QC Batch: WETA/28006 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 60161912001

METHOD BLANK: 1324702 | Matrix: Water
Associated Lab Samples: 60161912001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/03/14 07:50	

LABORATORY CONTROL SAMPLE: 1324703

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	50.1	100	90-110	

MATRIX SPIKE SAMPLE: 1324704

Parameter	Units	60161731001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	72.9	50	119	92	90-110	

MATRIX SPIKE SAMPLE: 1324706

Parameter	Units	60161729001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	5000	2500	7300	92	90-110	

SAMPLE DUPLICATE: 1324705

Parameter	Units	60161955001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	56600	56300	1	25	

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QUALIFIERS

Project: BRIDGETON LANDFILL 316-202r3
Pace Project No.: 60161912

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

ANALYTE QUALIFIERS

D9	Dissolved result is greater than the total. Data is within laboratory control limits.
H1	Analysis conducted outside the EPA method holding time.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LANDFILL 316-202r3
Pace Project No.: 60161912

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60161912001	**316-202R3**	EPA 200.7	MPRP/26007	EPA 200.7	ICP/19908
60161912001	**316-202R3**	EPA 200.7	MPRP/26023	EPA 200.7	ICP/19907
60161912001	**316-202R3**	EPA 245.1	MERP/8092	EPA 245.1	MERC/8047
60161912001	**316-202R3**	EPA 245.1	MERP/8103	EPA 245.1	MERC/8057
60161912001	**316-202R3**	EPA 625	OEXT/42420	EPA 625	MSSV/13502
60161912001	**316-202R3**	EPA 624 Low	MSV/59176		
60161912002	**TRIP BLANK**	EPA 624 Low	MSV/59176		
60161912001	**316-202R3**	EPA 1664A	WET/45887		
60161912001	**316-202R3**	EPA 1664A	WET/45934		
60161912001	**316-202R3**	SM 2540D	WET/45844		
60161912001	**316-202R3**	SM 4500-H+B	WET/45811		
60161912001	**316-202R3**	SM 5210B	WET/45804	SM 5210B	WET/45914
60161912001	**316-202R3**	EPA 350.1	WETA/27945		
60161912001	**316-202R3**	EPA 410.4	WETA/28006		

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Sample Condition Upon Receipt

WO#: 60161912

60161912

Client Name: BARR

Optional
Proj Due Date:
Proj Name:

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

Tracking #: _____ Pace Shipping Label Used? Yes ☒ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Other ☒ Zipl

Thermometer Used: (T-239) / T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.2

Temperature should be above freezing to 6°C

Date and initials of person examining contents: S 1/25/14

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 & signature on COC:	☒Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☒Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☒Yes ☐No ☐N/A	6. BOD, pH
Rush Turn Around Time requested:	☐Yes ☒No ☐N/A	7.
Sufficient volume:	☒Yes ☐No ☐N/A	8.
Correct containers used:	☒Yes ☐No ☐N/A	
Pace containers used:	☒Yes ☐No ☐N/A	9.
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☒Yes ☐No ☐N/A	13.
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	Added hno3 to 316-202 L3 BP3N 6.0/4.0
All containers needing preservation are found to be in compliance with EPA recommendation.	1/25 ~~☐Yes~~ ☒No ☐N/A	added h2so4 to 316-202 L3 BP3S 6.0/2.0
Exceptions: (VOA), coliform, TOC, O&G, WI-DRO (water), Phenolics	☒Yes ☐No	14. Initial when completed S Lot # of added preservative 12513 12518
Trip Blank present: Pace Trip Blank lot # (if purchased): Covered	☒Yes ☐No ☐N/A	15.
Headspace in VOA vials (>6mm):	☒Yes ☐No ☐N/A	16. 1 of 5 VOAs
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: MW for (ALB) Date 1/27/14

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A — Required Client Information:

Company:	BARR ENGINEERING
Address:	
Email To:	
Phone:	(816) 285-8410 Fax
Requested Due Date/TAT:	10 Day (Default)

Section B — Required Project Information:

Report To:	ED GALBRAITH/BARR
Copy To:	SCOTT FEDAK/FEEZOR
	DANA BAKER/MARGARET TREANOR -BARR
Purchase Order No.	PO 3727110
Client Project ID:	BRIDGETON LF
Container Order Number:	

Section C — Invoice Information:

Attention:	AMY HARGROVE/BRIAN POWER
Company Name:	REPUBLIC SERVICES
Address:	BRIDGETON, MO 63044
Pace Quote Reference:	130426_7588
Pace Project Manager:	Brown, Angie
Pace Profile #:	6787 LINE 2

Regulatory Agency
State / Location
Missouri

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N): COD EPA 410	pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B		Residual Chlorine (Y/N)	60161912 6.0 6.0
1	316-202R3 2(AG4U) 3(AG3S)	OT	G			1/24/14	1200		14	10	4	1	0					X	X	X	X	X	X	X	X	X	X	X	DF 3U		2(BP2U) BP3N, BP3U, 5(DG4U)
2	TRIP BLANK								2	2															X						2(DG4U) TB
3																															
4																															
5																															
6																															METALS LIST total & LF Dis:
7																															Al,Sb,As,Be,Cd,Cr,
8																															Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn
9																															and Mercury
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	Julie Creek/Treanor Engin.	1/24/14	16:29	Jennifer Hatch	1/24/14	16:29				
SITE ADDRESS: BRIDGETON LF				Gabriel McKee/PASI	1/25/14	0115	2.2	Y	Y	Y
13570 ST. CHARLES ROCK RD										
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Hunter King		
SIGNATURE of SAMPLER:	Hunter King	DATE Signed:	1/24/14

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

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February 05, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON UNTREATED COMINGLED
Pace Project No.: 60161916

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 25, 2014. 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,

Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

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CERTIFICATIONS

Project: BRIDGETON UNTREATED COMINGLED
Pace Project No.: 60161916

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

Dallas Certification IDs

400 West Bethany Dr Suite 190 75013 Allen TX 75013
Texas Certification #: T104704232-13-5
Kansas Certification #: E-10388
Arkansas Certification #: 88-0647
Oklahoma Certification #: 2012-080
Louisiana Certification #: 02007

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SAMPLE SUMMARY

Project: BRIDGETON UNTREATED COMINGLED
Pace Project No.: 60161916

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60161916001	**TCLP JAN 14**	Water	01/23/14 14:00	01/25/14 01:15
60161916002	**TRIP BLANK**	Water	01/23/14 14:00	01/25/14 01:15

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SAMPLE ANALYTE COUNT

Project: BRIDGETON UNTREATED COMINGLED
Pace Project No.: 60161916

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60161916001	**TCLP JAN 14**	EPA 8081	TA	9	PASI-D
		EPA 8151	PMS	3	PASI-D
		EPA 6010	NDJ	7	PASI-K
		EPA 7470	TJT	1	PASI-K
		EPA 8270	JMT	18	PASI-K
		EPA 8260	JKL	13	PASI-K
		EPA 5030B/8260	SDR	28	PASI-K
		EPA 1664A	DJR	1	PASI-K
		SM 2540B	JMC	1	PASI-K

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMINGLED
Pace Project No.: 60161916

Sample: TCLP JAN 14 **Lab ID: 60161916001** Collected: 01/23/14 14:00 Received: 01/25/14 01:15 Matrix: Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides, TCLP	Analytical Method: EPA 8081 Preparation Method: EPA 3510								
gamma-BHC (Lindane)	ND	mg/L	0.00020	.4	1	01/31/14 10:10	02/03/14 18:48	58-89-9	
Chlordane (Technical)	ND	mg/L	0.0050	.03	1	01/31/14 10:10	02/03/14 18:48	57-74-9	
Endrin	ND	mg/L	0.00020	.02	1	01/31/14 10:10	02/03/14 18:48	72-20-8	
Heptachlor	ND	mg/L	0.00020	.008	1	01/31/14 10:10	02/03/14 18:48	76-44-8	
Heptachlor epoxide	ND	mg/L	0.00050	.008	1	01/31/14 10:10	02/03/14 18:48	1024-57-3	
Methoxychlor	ND	mg/L	0.00050	10	1	01/31/14 10:10	02/03/14 18:48	72-43-5	
Toxaphene	ND	mg/L	0.010	.5	1	01/31/14 10:10	02/03/14 18:48	8001-35-2	
Surrogates									
Decachlorobiphenyl (S)	45	%.	40-140		1	01/31/14 10:10	02/03/14 18:48	2051-24-3	
Tetrachloro-m-xylene (S)	98	%.	40-140		1	01/31/14 10:10	02/03/14 18:48	877-09-8	
8151 Chlorinate Herbicide TCLP	Analytical Method: EPA 8151 Preparation Method: EPA 8151								
2,4-D	ND	mg/L	0.0050	10	10	01/31/14 08:51	02/03/14 11:32	94-75-7	M6,R1
2,4,5-TP (Silvex)	ND	mg/L	0.0050	1	10	01/31/14 08:51	02/03/14 11:32	93-72-1	
Surrogates									
2,4-DCAA (S)	232	%.	40-140		10	01/31/14 08:51	02/03/14 11:32	19719-28-9	S4
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
	Leachate Method/Date: EPA 1311; 01/29/14 00:00								
Arsenic	**0.94**	mg/L	0.50	5	1	01/29/14 15:00	01/30/14 09:46	7440-38-2	
Barium	**4.3**	mg/L	2.5	100	1	01/29/14 15:00	01/30/14 09:46	7440-39-3	
Cadmium	ND	mg/L	0.050	1	1	01/29/14 15:00	01/30/14 09:46	7440-43-9	
Chromium	**0.30**	mg/L	0.10	5	1	01/29/14 15:00	01/30/14 09:46	7440-47-3	
Lead	ND	mg/L	0.50	5	1	01/29/14 15:00	01/30/14 09:46	7439-92-1	
Selenium	ND	mg/L	0.50	1	1	01/29/14 15:00	01/30/14 09:46	7782-49-2	
Silver	ND	mg/L	0.10	5	1	01/29/14 15:00	01/30/14 09:46	7440-22-4	
7470 Mercury, TCLP	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
	Leachate Method/Date: EPA 1311; 01/29/14 00:00								
Mercury	ND	mg/L	0.0020	.2	1	01/31/14 10:45	01/31/14 14:48	7439-97-6	
8270 MSSV TCLP Sep Funnel	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
	Leachate Method/Date: EPA 1311; 01/29/14 00:00								
1,4-Dichlorobenzene	ND	ug/L	1000	7500	1	01/30/14 00:00	01/31/14 12:32	106-46-7	
2,4-Dinitrotoluene	ND	ug/L	1000	130	1	01/30/14 00:00	01/31/14 12:32	121-14-2	
Hexachloro-1,3-butadiene	ND	ug/L	1000	500	1	01/30/14 00:00	01/31/14 12:32	87-68-3	
Hexachlorobenzene	ND	ug/L	1000	130	1	01/30/14 00:00	01/31/14 12:32	118-74-1	
Hexachloroethane	ND	ug/L	1000	3000	1	01/30/14 00:00	01/31/14 12:32	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	1000	200000	1	01/30/14 00:00	01/31/14 12:32	95-48-7	
3&4-Methylphenol(m&p Cresol)	**10300**	ug/L	4000	200000	2	01/30/14 00:00	01/31/14 13:15		
Nitrobenzene	ND	ug/L	1000	2000	1	01/30/14 00:00	01/31/14 12:32	98-95-3	
Pentachlorophenol	ND	ug/L	5000	100000	1	01/30/14 00:00	01/31/14 12:32	87-86-5	
Pyridine	ND	ug/L	1000	5000	1	01/30/14 00:00	01/31/14 12:32	110-86-1	
2,4,5-Trichlorophenol	ND	ug/L	5000	400000	1	01/30/14 00:00	01/31/14 12:32	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1000	2000	1	01/30/14 00:00	01/31/14 12:32	88-06-2	

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMINGLED
Pace Project No.: 60161916

Sample: TCLP JAN 14 **Lab ID: 60161916001** Collected: 01/23/14 14:00 Received: 01/25/14 01:15 Matrix: Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV TCLP Sep Funnel	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
	Leachate Method/Date: EPA 1311; 01/29/14 00:00								
Surrogates									
Nitrobenzene-d5 (S)	123	%	44-120		1	01/30/14 00:00	01/31/14 12:32	4165-60-0	S0
2-Fluorobiphenyl (S)	78	%	49-120		1	01/30/14 00:00	01/31/14 12:32	321-60-8	
Terphenyl-d14 (S)	78	%	52-122		1	01/30/14 00:00	01/31/14 12:32	1718-51-0	
Phenol-d6 (S)	73	%	36-120		1	01/30/14 00:00	01/31/14 12:32	13127-88-3	
2-Fluorophenol (S)	82	%	37-120		1	01/30/14 00:00	01/31/14 12:32	367-12-4	
2,4,6-Tribromophenol (S)	86	%	36-128		1	01/30/14 00:00	01/31/14 12:32	118-79-6	
8260 MSV TCLP	Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 01/29/14 00:00								
Benzene	**1010**	ug/L	250	500	5		01/29/14 18:23	71-43-2	
2-Butanone (MEK)	**85100**	ug/L	10000	200000	10		01/29/14 18:53	78-93-3	
Carbon tetrachloride	ND	ug/L	250	500	5		01/29/14 18:23	56-23-5	
Chlorobenzene	ND	ug/L	250	100000	5		01/29/14 18:23	108-90-7	
Chloroform	ND	ug/L	1000	6000	5		01/29/14 18:23	67-66-3	
1,2-Dichloroethane	ND	ug/L	250	500	5		01/29/14 18:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	250	700	5		01/29/14 18:23	75-35-4	
Tetrachloroethene	ND	ug/L	250	700	5		01/29/14 18:23	127-18-4	
Trichloroethene	ND	ug/L	250	500	5		01/29/14 18:23	79-01-6	
Vinyl chloride	ND	ug/L	100	200	5		01/29/14 18:23	75-01-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%	80-120		5		01/29/14 18:23	17060-07-0	
Toluene-d8 (S)	99	%	80-120		5		01/29/14 18:23	2037-26-5	
4-Bromofluorobenzene (S)	105	%	80-120		5		01/29/14 18:23	460-00-4	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**165000**	ug/L	2000		200		01/29/14 12:52	67-64-1	
Benzene	**2520**	ug/L	200		200		01/29/14 12:52	71-43-2	
Bromodichloromethane	ND	ug/L	200		200		01/29/14 12:52	75-27-4	
Bromoform	ND	ug/L	200		200		01/29/14 12:52	75-25-2	
Bromomethane	ND	ug/L	1000		200		01/29/14 12:52	74-83-9	
2-Butanone (MEK)	**116000**	ug/L	2000		200		01/29/14 12:52	78-93-3	
Carbon tetrachloride	ND	ug/L	200		200		01/29/14 12:52	56-23-5	
Chloroethane	ND	ug/L	200		200		01/29/14 12:52	75-00-3	
Chloroform	ND	ug/L	200		200		01/29/14 12:52	67-66-3	
1,4-Dichlorobenzene	**4560**	ug/L	200		200		01/29/14 12:52	106-46-7	
1,2-Dichloroethane	ND	ug/L	200		200		01/29/14 12:52	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200		200		01/29/14 12:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	200		200		01/29/14 12:52	156-60-5	
Ethylbenzene	**1260**	ug/L	200		200		01/29/14 12:52	100-41-4	
Methylene chloride	ND	ug/L	200		200		01/29/14 12:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	**4700**	ug/L	2000		200		01/29/14 12:52	108-10-1	
1,1,2,2-Tetrachloroethane	ND	ug/L	200		200		01/29/14 12:52	79-34-5	
Tetrachloroethene	ND	ug/L	200		200		01/29/14 12:52	127-18-4	
Toluene	**930**	ug/L	200		200		01/29/14 12:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200		200		01/29/14 12:52	71-55-6	

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMINGLED
Pace Project No.: 60161916

Sample: TCLP JAN 14 **Lab ID: 60161916001** Collected: 01/23/14 14:00 Received: 01/25/14 01:15 Matrix: Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
1,1,2-Trichloroethane	ND	ug/L	200		200		01/29/14 12:52	79-00-5	
Trichloroethene	ND	ug/L	200		200		01/29/14 12:52	79-01-6	
Vinyl chloride	ND	ug/L	200		200		01/29/14 12:52	75-01-4	
Xylene (Total)	**4120**	ug/L	600		200		01/29/14 12:52	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		200		01/29/14 12:52	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	80-120		200		01/29/14 12:52	17060-07-0	
Toluene-d8 (S)	101	%	80-120		200		01/29/14 12:52	2037-26-5	
Preservation pH	**5.0**		0.10		200		01/29/14 12:52		pH
HEM, Oil and Grease	Analytical Method: EPA 1664A								
Oil and Grease	**913**	mg/L	5.0		1		01/30/14 15:17		
2540B Total Solids	Analytical Method: SM 2540B								
Total Solids	**56600**	mg/L	5.0		1		02/03/14 07:56		H1

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMINGLED
Pace Project No.: 60161916

QC Batch: MERP/8101
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury TCLP
Associated Lab Samples: 60161916001

METHOD BLANK: 1324871
Matrix: Water
Associated Lab Samples: 60161916001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	ND	0.0020	01/31/14 14:39	

LABORATORY CONTROL SAMPLE: 1324872

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.005	0.0045	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1324873 1324874

Parameter	Units	60161771001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	.015	.015	0.015	0.016	102	106	75-125	4	20	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMINGLED
Pace Project No.: 60161916

QC Batch: MPRP/26034 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET TCLP
Associated Lab Samples: 60161916001

METHOD BLANK: 1323876 | Matrix: Water
Associated Lab Samples: 60161916001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.50	01/30/14 09:41	
Barium	mg/L	ND	2.5	01/30/14 09:41	
Cadmium	mg/L	ND	0.050	01/30/14 09:41	
Chromium	mg/L	ND	0.10	01/30/14 09:41	
Lead	mg/L	ND	0.50	01/30/14 09:41	
Selenium	mg/L	ND	0.50	01/30/14 09:41	
Silver	mg/L	ND	0.10	01/30/14 09:41	

LABORATORY CONTROL SAMPLE: 1323877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	1	0.94	94	80-120	
Barium	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	1	0.96	96	80-120	
Chromium	mg/L	1	0.96	96	80-120	
Lead	mg/L	1	1.1	105	80-120	
Selenium	mg/L	1	0.97	97	80-120	
Silver	mg/L	.5	0.46	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1323878 1323879

Parameter	Units	60161916001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.94	10	10	11.0	11.0	101	101	75-125	0	20	
Barium	mg/L	4.3	10	10	14.3	14.3	99	100	75-125	0	20	
Cadmium	mg/L	ND	10	10	10.1	10.1	101	100	75-125	0	20	
Chromium	mg/L	0.30	10	10	9.7	9.6	94	93	75-125	1	20	
Lead	mg/L	ND	10	10	9.8	9.8	97	97	75-125	0	20	
Selenium	mg/L	ND	10	10	11.1	11.0	110	109	75-125	1	20	
Silver	mg/L	ND	5	5	4.9	4.8	97	96	75-125	1	20	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMINGLED
Pace Project No.: 60161916

QC Batch: MSV/59129 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 60161916001

METHOD BLANK: 1323804 | Matrix: Water
Associated Lab Samples: 60161916001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	01/29/14 18:07	
1,2-Dichloroethane	ug/L	ND	50.0	01/29/14 18:07	
2-Butanone (MEK)	ug/L	ND	1000	01/29/14 18:07	
Benzene	ug/L	ND	50.0	01/29/14 18:07	
Carbon tetrachloride	ug/L	ND	50.0	01/29/14 18:07	
Chlorobenzene	ug/L	ND	50.0	01/29/14 18:07	
Chloroform	ug/L	ND	200	01/29/14 18:07	
Tetrachloroethene	ug/L	ND	50.0	01/29/14 18:07	
Trichloroethene	ug/L	ND	50.0	01/29/14 18:07	
Vinyl chloride	ug/L	ND	20.0	01/29/14 18:07	
1,2-Dichloroethane-d4 (S)	%	102	80-120	01/29/14 18:07	
4-Bromofluorobenzene (S)	%	105	80-120	01/29/14 18:07	
Toluene-d8 (S)	%	99	80-120	01/29/14 18:07	

LABORATORY CONTROL SAMPLE: 1323805

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	1000	1130	113	70-127	
1,2-Dichloroethane	ug/L	1000	1030	103	72-122	
2-Butanone (MEK)	ug/L	5000	4940	99	69-124	
Benzene	ug/L	1000	1080	108	73-122	
Carbon tetrachloride	ug/L	1000	1190	119	73-125	
Chlorobenzene	ug/L	1000	1100	110	80-120	
Chloroform	ug/L	1000	1140	114	76-120	
Tetrachloroethene	ug/L	1000	1110	111	79-122	
Trichloroethene	ug/L	1000	1130	113	76-120	
Vinyl chloride	ug/L	1000	1080	108	57-140	
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			102	80-120	

MATRIX SPIKE SAMPLE: 1323806

Parameter	Units	60161916001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	5000	4360	87	66-142	
1,2-Dichloroethane	ug/L	ND	5000	4500	90	53-144	
2-Butanone (MEK)	ug/L	85100	50000	124000	79	54-127	
Benzene	ug/L	1010	5000	5420	88	48-150	
Carbon tetrachloride	ug/L	ND	5000	4080	82	68-145	
Chlorobenzene	ug/L	ND	5000	4460	89	68-131	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMINGLED
Pace Project No.: 60161916

MATRIX SPIKE SAMPLE: 1323806

Parameter	Units	60161916001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloroform	ug/L	ND	5000	4570	91	69-126	
Tetrachloroethene	ug/L	ND	5000	4110	82	66-139	
Trichloroethene	ug/L	ND	5000	4480	90	67-130	
Vinyl chloride	ug/L	ND	5000	4350	87	47-159	
1,2-Dichloroethane-d4 (S)	%				101	80-120	
4-Bromofluorobenzene (S)	%				105	80-120	
Toluene-d8 (S)	%				101	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMINGLED
Pace Project No.: 60161916

QC Batch: MSV/59115 | Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 | Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60161916001

METHOD BLANK: 1323697 | Matrix: Water
Associated Lab Samples: 60161916001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/29/14 11:33	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/29/14 11:33	
1,1,2-Trichloroethane	ug/L	ND	1.0	01/29/14 11:33	
1,2-Dichloroethane	ug/L	ND	1.0	01/29/14 11:33	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/29/14 11:33	
2-Butanone (MEK)	ug/L	ND	10.0	01/29/14 11:33	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/29/14 11:33	
Acetone	ug/L	ND	10.0	01/29/14 11:33	
Benzene	ug/L	ND	1.0	01/29/14 11:33	
Bromodichloromethane	ug/L	ND	1.0	01/29/14 11:33	
Bromoform	ug/L	ND	1.0	01/29/14 11:33	
Bromomethane	ug/L	ND	5.0	01/29/14 11:33	
Carbon tetrachloride	ug/L	ND	1.0	01/29/14 11:33	
Chloroethane	ug/L	ND	1.0	01/29/14 11:33	
Chloroform	ug/L	ND	1.0	01/29/14 11:33	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/29/14 11:33	
Ethylbenzene	ug/L	ND	1.0	01/29/14 11:33	
Methylene chloride	ug/L	ND	1.0	01/29/14 11:33	
Tetrachloroethene	ug/L	ND	1.0	01/29/14 11:33	
Toluene	ug/L	ND	1.0	01/29/14 11:33	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/29/14 11:33	
Trichloroethene	ug/L	ND	1.0	01/29/14 11:33	
Vinyl chloride	ug/L	ND	1.0	01/29/14 11:33	
Xylene (Total)	ug/L	ND	3.0	01/29/14 11:33	
1,2-Dichloroethane-d4 (S)	%	108	80-120	01/29/14 11:33	
4-Bromofluorobenzene (S)	%	103	80-120	01/29/14 11:33	
Toluene-d8 (S)	%	99	80-120	01/29/14 11:33	

LABORATORY CONTROL SAMPLE: 1323698

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	22.2	111	75-124	
1,1,2,2-Tetrachloroethane	ug/L	20	19.5	97	73-120	
1,1,2-Trichloroethane	ug/L	20	20.5	102	76-120	
1,2-Dichloroethane	ug/L	20	21.5	108	72-122	
1,4-Dichlorobenzene	ug/L	20	21.5	107	80-120	
2-Butanone (MEK)	ug/L	100	114	114	69-124	
4-Methyl-2-pentanone (MIBK)	ug/L	100	107	107	72-123	
Acetone	ug/L	100	109	109	60-126	
Benzene	ug/L	20	21.6	108	73-122	
Bromodichloromethane	ug/L	20	21.8	109	73-120	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMINGLED
Pace Project No.: 60161916

LABORATORY CONTROL SAMPLE: 1323698

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.1	100	74-120	
Bromomethane	ug/L	20	14.5	73	40-146	
Carbon tetrachloride	ug/L	20	24.1	121	73-125	
Chloroethane	ug/L	20	24.2	121	56-159	
Chloroform	ug/L	20	22.3	111	76-120	
cis-1,2-Dichloroethene	ug/L	20	20.8	104	69-120	
Ethylbenzene	ug/L	20	21.0	105	76-123	
Methylene chloride	ug/L	20	22.4	112	71-123	
Tetrachloroethene	ug/L	20	20.8	104	79-122	
Toluene	ug/L	20	20.5	102	76-122	
trans-1,2-Dichloroethene	ug/L	20	21.4	107	78-126	
Trichloroethene	ug/L	20	19.7	99	76-120	
Vinyl chloride	ug/L	20	21.2	106	57-140	
Xylene (Total)	ug/L	60	64.8	108	76-122	
1,2-Dichloroethane-d4 (S)	%			108	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			99	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMINGLED
Pace Project No.: 60161916

QC Batch: OEXT/3311 | Analysis Method: EPA 8081
QC Batch Method: EPA 3510 | Analysis Description: 8081 GCS TCLP Pesticides
Associated Lab Samples: 60161916001

METHOD BLANK: 60327 | Matrix: Water
Associated Lab Samples: 60161916001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chlordane (Technical)	mg/L	ND	0.00050	02/03/14 11:39	
Endrin	mg/L	ND	0.000020	02/03/14 11:39	
gamma-BHC (Lindane)	mg/L	ND	0.000020	02/03/14 11:39	
Heptachlor	mg/L	ND	0.000020	02/03/14 11:39	
Heptachlor epoxide	mg/L	ND	0.000050	02/03/14 11:39	
Methoxychlor	mg/L	ND	0.000050	02/03/14 11:39	
Toxaphene	mg/L	ND	0.0010	02/03/14 11:39	
Decachlorobiphenyl (S)	%.	86	40-140	02/03/14 11:39	
Tetrachloro-m-xylene (S)	%.	81	40-140	02/03/14 11:39	

LABORATORY CONTROL SAMPLE: 60328

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlordane (Technical)	mg/L		ND			
Endrin	mg/L	.001	0.00071	71	40-140	
gamma-BHC (Lindane)	mg/L	.001	0.00088	88	40-140	
Heptachlor	mg/L	.001	0.00084	84	40-140	
Heptachlor epoxide	mg/L	.001	0.0011	109	40-140	
Methoxychlor	mg/L	.001	0.00062	62	40-140	
Toxaphene	mg/L		ND			
Decachlorobiphenyl (S)	%.			96	40-140	
Tetrachloro-m-xylene (S)	%.			87	40-140	

MATRIX SPIKE SAMPLE: 60329

Parameter	Units	60161916001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chlordane (Technical)	mg/L	ND		ND			
Endrin	mg/L	ND	.01	0.014	138	40-140	
gamma-BHC (Lindane)	mg/L	ND	.01	0.014	138	40-140	
Heptachlor	mg/L	ND	.01	0.014	136	40-140	
Heptachlor epoxide	mg/L	ND	.01	0.012	120	40-140	
Methoxychlor	mg/L	ND	.01	0.0092	92	40-140	
Toxaphene	mg/L	ND		ND			
Decachlorobiphenyl (S)	%.				36	40-140	S0
Tetrachloro-m-xylene (S)	%.				89	40-140	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMINGLED
Pace Project No.: 60161916

QC Batch: OEXT/3310 | Analysis Method: EPA 8151
QC Batch Method: EPA 8151 | Analysis Description: 8151 GCS TCLP Herbicides
Associated Lab Samples: 60161916001

METHOD BLANK: 60323 | Matrix: Water
Associated Lab Samples: 60161916001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	mg/L	ND	0.000050	02/03/14 09:22	
2,4-D	mg/L	ND	0.000050	02/03/14 09:22	
2,4-DCAA (S)	%.	135	40-140	02/03/14 09:22	

LABORATORY CONTROL SAMPLE: 60324

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	mg/L	.002	0.0025	123	10-140	
2,4-D	mg/L	.002	0.0022	109	40-140	
2,4-DCAA (S)	%.			139	40-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 60325 60326

Parameter	Units	60161916001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4,5-TP (Silvex)	mg/L	ND	.02	.02	0.027	0.022	134	112	10-140	18	40	
2,4-D	mg/L	ND	.02	.02	0.16	0.029	783	144	40-140	138	40	M6,R1
2,4-DCAA (S)	%.						829	693	40-140			S4

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Lenexa, KS 66219
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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMINGLED
Pace Project No.: 60161916

QC Batch: OEXT/42491 | Analysis Method: EPA 8270
QC Batch Method: EPA 3510 | Analysis Description: 8270 TCLP MSSV
Associated Lab Samples: 60161916001

METHOD BLANK: 1324260 | Matrix: Water
Associated Lab Samples: 60161916001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	100	01/31/14 09:44	
2,4,5-Trichlorophenol	ug/L	ND	500	01/31/14 09:44	
2,4,6-Trichlorophenol	ug/L	ND	100	01/31/14 09:44	
2,4-Dinitrotoluene	ug/L	ND	100	01/31/14 09:44	
2-Methylphenol(o-Cresol)	ug/L	ND	100	01/31/14 09:44	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	200	01/31/14 09:44	
Hexachloro-1,3-butadiene	ug/L	ND	100	01/31/14 09:44	
Hexachlorobenzene	ug/L	ND	100	01/31/14 09:44	
Hexachloroethane	ug/L	ND	100	01/31/14 09:44	
Nitrobenzene	ug/L	ND	100	01/31/14 09:44	
Pentachlorophenol	ug/L	ND	500	01/31/14 09:44	
Pyridine	ug/L	ND	100	01/31/14 09:44	
2,4,6-Tribromophenol (S)	%	109	36-128	01/31/14 09:44	
2-Fluorobiphenyl (S)	%	99	49-120	01/31/14 09:44	
2-Fluorophenol (S)	%	75	37-120	01/31/14 09:44	
Nitrobenzene-d5 (S)	%	87	44-120	01/31/14 09:44	
Phenol-d6 (S)	%	80	36-120	01/31/14 09:44	
Terphenyl-d14 (S)	%	102	52-122	01/31/14 09:44	

METHOD BLANK: 1324263 | Matrix: Water
Associated Lab Samples: 60161916001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	100	01/31/14 10:05	
2,4,5-Trichlorophenol	ug/L	ND	500	01/31/14 10:05	
2,4,6-Trichlorophenol	ug/L	ND	100	01/31/14 10:05	
2,4-Dinitrotoluene	ug/L	ND	100	01/31/14 10:05	
2-Methylphenol(o-Cresol)	ug/L	ND	100	01/31/14 10:05	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	200	01/31/14 10:05	
Hexachloro-1,3-butadiene	ug/L	ND	100	01/31/14 10:05	
Hexachlorobenzene	ug/L	ND	100	01/31/14 10:05	
Hexachloroethane	ug/L	ND	100	01/31/14 10:05	
Nitrobenzene	ug/L	ND	100	01/31/14 10:05	
Pentachlorophenol	ug/L	ND	500	01/31/14 10:05	
Pyridine	ug/L	ND	100	01/31/14 10:05	
2,4,6-Tribromophenol (S)	%	99	36-128	01/31/14 10:05	
2-Fluorobiphenyl (S)	%	85	49-120	01/31/14 10:05	
2-Fluorophenol (S)	%	75	37-120	01/31/14 10:05	
Nitrobenzene-d5 (S)	%	78	44-120	01/31/14 10:05	
Phenol-d6 (S)	%	75	36-120	01/31/14 10:05	
Terphenyl-d14 (S)	%	95	52-122	01/31/14 10:05	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMINGLED
Pace Project No.: 60161916

LABORATORY CONTROL SAMPLE: 1324261

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	500	408	82	47-120	
2,4,5-Trichlorophenol	ug/L	500	475J	95	51-124	
2,4,6-Trichlorophenol	ug/L	500	461	92	46-120	
2,4-Dinitrotoluene	ug/L	500	402	80	38-120	
2-Methylphenol(o-Cresol)	ug/L	500	380	76	46-120	
3&4-Methylphenol(m&p Cresol)	ug/L	1000	763	76	41-120	
Hexachloro-1,3-butadiene	ug/L	500	434	87	49-120	
Hexachlorobenzene	ug/L	500	460	92	50-120	
Hexachloroethane	ug/L	500	338	68	38-120	
Nitrobenzene	ug/L	500	382	76	49-120	
Pentachlorophenol	ug/L	500	507	101	35-125	
Pyridine	ug/L	500	235	47	10-120	
2,4,6-Tribromophenol (S)	%			97	36-128	
2-Fluorobiphenyl (S)	%			85	49-120	
2-Fluorophenol (S)	%			71	37-120	
Nitrobenzene-d5 (S)	%			77	44-120	
Phenol-d6 (S)	%			71	36-120	
Terphenyl-d14 (S)	%			91	52-122	

MATRIX SPIKE SAMPLE: 1324262

Parameter	Units	60161608001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	500	474	95	48-120	
2,4,5-Trichlorophenol	ug/L	ND	500	549	110	57-120	
2,4,6-Trichlorophenol	ug/L	ND	500	530	106	48-120	
2,4-Dinitrotoluene	ug/L	ND	500	459	92	38-120	
2-Methylphenol(o-Cresol)	ug/L	ND	500	444	89	48-120	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	1000	907	91	47-120	
Hexachloro-1,3-butadiene	ug/L	ND	500	468	94	49-120	
Hexachlorobenzene	ug/L	ND	500	488	98	53-120	
Hexachloroethane	ug/L	ND	500	449	90	38-120	
Nitrobenzene	ug/L	ND	500	421	84	51-120	
Pentachlorophenol	ug/L	ND	500	571	114	34-131	
Pyridine	ug/L	ND	500	329	66	10-120	
2,4,6-Tribromophenol (S)	%				107	36-128	
2-Fluorobiphenyl (S)	%				93	49-120	
2-Fluorophenol (S)	%				78	37-120	
Nitrobenzene-d5 (S)	%				82	44-120	
Phenol-d6 (S)	%				79	36-120	
Terphenyl-d14 (S)	%				89	52-122	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMINGLED
Pace Project No.: 60161916

QC Batch: WET/45887 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60161916001

METHOD BLANK: 1324431 | Matrix: Water
Associated Lab Samples: 60161916001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/30/14 15:15	

LABORATORY CONTROL SAMPLE: 1324432

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	33.5	84	78-114	

MATRIX SPIKE SAMPLE: 1324433

Parameter	Units	60161067001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40.4	41.1	95	78-114	

SAMPLE DUPLICATE: 1324434

Parameter	Units	60161912001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	932	1100	16	18	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMINGLED
Pace Project No.: 60161916

QC Batch: WET/45802 | Analysis Method: SM 2540B
QC Batch Method: SM 2540B | Analysis Description: 2540B Total Solids
Associated Lab Samples: 60161916001

METHOD BLANK: 1322360 | Matrix: Water
Associated Lab Samples: 60161916001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	5.0	02/03/14 07:56	

LABORATORY CONTROL SAMPLE: 1326181

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	1000	1030	103	80-120	

SAMPLE DUPLICATE: 1322362

Parameter	Units	60161916001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	56600	56000	1	10	H1

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QUALIFIERS

Project: BRIDGETON UNTREATED COMINGLED
Pace Project No.: 60161916

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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-D	Pace Analytical Services - Dallas
PASI-K	Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: MSV/59115

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

H1	Analysis conducted outside the EPA method holding time.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
pH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON UNTREATED COMINGLED
Pace Project No.: 60161916

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60161916001	**TCLP JAN 14**	EPA 3510	OEXT/3311	EPA 8081	GCSV/2240
60161916001	**TCLP JAN 14**	EPA 8151	OEXT/3310	EPA 8151	GCSV/2236
60161916001	**TCLP JAN 14**	EPA 3010	MPRP/26034	EPA 6010	ICP/19917
60161916001	**TCLP JAN 14**	EPA 7470	MERP/8101	EPA 7470	MERC/8059
60161916001	**TCLP JAN 14**	EPA 3510	OEXT/42491	EPA 8270	MSSV/13518
60161916001	**TCLP JAN 14**	EPA 8260	MSV/59129		
60161916001	**TCLP JAN 14**	EPA 5030B/8260	MSV/59115		
60161916001	**TCLP JAN 14**	EPA 1664A	WET/45887		
60161916001	**TCLP JAN 14**	SM 2540B	WET/45802		

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TCLP/SPLP Determination of Percent Solids

(Only if sample is liquid or semi-liquid. Skip if sample is obviously 100% solid.)

Date: 1/29/14 Batch: 6109

Analyst: CEM Balance ID: 6002XT3 Reviewed by: _____

Sample Number	A Weight of Beaker (g)	B Weight of Sample & Beaker (g)	C Weight of Filtrate Container (g)	D Weight of 142-mm TCLP Filter (g)	E Weight of Waste Beaker After Filtration (g)	F Weight of Filtrate & Container (g)	G Weight of Filter and Solid Phase After Filtration (g)	H Weight of Filtrate (g) (F - C)	I Weight of Waste Filtered (g) (E - B)	J Percent WET Solids $\left(\frac{(I - H)}{I \times 0.01}\right)$	K DRY Weight #1 of Solid Phase plus Filter (g)	L DRY Weight #2 of Solid Phase plus Filter (g) (1)	M Percent DRY Solids $\left(\frac{(L - D)}{I \times 0.01}\right)$	If Multiphase, Are Phases Compatible (2)
60161916-1	122.1	267.7	282.4	1.3	123.0	424.0	3.9	141.6	144.7	2.1%	1.5	1.4	0.07%	Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA

CEM 1/29/14

NOTE: If Wet Solids are ≥0.5 and <5% and a small amount of liquid is entrapped in the filter, then determine Percent Dry Solids. If the entrapped liquid is oily (non-aqueous) do not determine Percent Dry Solids. If Solids are <0.5%, tumbling is not required because the filtrate is considered to be the TCLP/SPLP extract.

(1) Dry Weight #1 and Dry Weight #2 must be within 1% of each other. If the weights are within 1% of each other, use Dry Weight #2 in further calculations. If not within 1%, continue drying and weighing until two successive weighings are within 1%.

(2) If compatible, combine the filtered liquid resulting from extraction with the initial liquid phase of sample. If the initial liquid phase is not compatible with the filtered liquid resulting from extraction, do not combine. Analyze liquids separately and combine the results mathematically.

If solids are ≥5.0 and <100%	Weight of waste to charge the ZHE = $\frac{25}{\text{Percent solids}} \times 100$ Weight of waste to filter = $\frac{\text{mL of leachate required}}{20 \times \text{Percent solids}} \times 100$

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Sample Condition Upon Receipt

WO#: 60161916

60161916

Client Name: Barr Engineering

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☑ 1-Road 5

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☑ None ☐ Other ☐

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 0.4

Temperature should be above freezing to 6°C

Date and initials of person examining contents: 1/25/14

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 & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐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	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☑Yes ☐No ☐N/A	13.
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased): Cavar 9	☑Yes ☐No ☐N/A	15.
Headspace in VOA vials (>6mm):	☑Yes ☐No ☐N/A	1 of 3 16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: MW for AKB Date 1/27/14

F-KS-C-003-Rev 7 04December2012

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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.

Page: 1 of 1

Section A Required Client Information:

Company:	BARR ENGINEERING
Address:	
Email To:	
Phone:	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	ED GALBRAITH/BARR
Copy To:	SCOTT FEDAK/FEEZOR DANA BAKER/MARGARET TREANOR-BARR
Purchase Order No.:	PO 3727110
Project Name:	UNTREATED COMMINGLED
Project Number:	

Section C Invoice Information:

Attention:	JANET ROLLEN
Company Name:	REPUBLIC SERVICES
Address:	BRIDGETON, MO 63044
Pace Quote Reference:	
Pace Project Manager:	Angie Brown 913-563-1402
Pace Profile #:	PROFILE 6787-LINE 6

REGULATORY AGENCY

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

Site Location STATE: MO

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 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)	8260 Volatiles **	TCLP Volatiles *	% Solids	Oil and Grease	TCLP Herbicides	TCLP Pesticides	TCLP Metals				Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	TCLP Jan 14 4AGIU		G	1/23/14	1400	2AGBS			11	Y	2		5						X	X	X	X	X	X	X	3DA9		H		** total VOCs Bridgeton List
2																										2DA9		H	(CT3)	* footnote %dry solids TCLP
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

60161916

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Julie Creek/Barr Engineering	1/24/14	16:29	Jennifer L. Martin	1/24/14	16:29				
				E Brockett / Pace	1/25	0115	0.4	Y	Y	Y

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Hunter King					
SIGNATURE of SAMPLER:	Hunter KS	DATE Signed (MM/DD/YY): 01/23/14				

*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.

Chain of Custody

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Workorder: 60161916 **Workorder Name:** UNTREATED COMI NGLED **Owner Received Date:** 1/25/2014 **Results Requested By:** 2/3/2014

Report To	Subcontract To
Angie Brown Pace Analytical Services, Inc. 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665 Fax (913)599-1759	Pace Analytical Dallas 400 West Bethany Drive Suite 190 Allen, TX 75013 Phone (972)727-1123

WO#: 7511861

7511861

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: none	Requested Analysis: TCLP PEST	TCLP HERB	LAB USE ONLY
1	TCLP JAN 14	PS	1/23/2014 14:00	60161916001	Water	1	X	X	001
2									
3									
4									
5									

Transfers	Released By	Date/Time	Received By	Date/Time
1			Kathy Williams / Pace	1/30/14 0850 AM
2				
3	IR01			

Comments

Send 500ml Leachate and 500ml TCLP blank plus paperwork to Dallas.

Cooler Temperature on Receipt 0.6 °C **Custody Seal** Y or N **Received on Ice** Y or N **Samples Intact** Y or N

Pace Analytical

Sample Condition Upon Receipt

Client Name: Pace-Kansas **Pace WO#:** 7511261

Courier: ☒FedEx ☐UPS ☐USPS ☐Client ☐Courier ☐LSO ☐Pace ☐Other:_____ Tracking #: 5689128006 8

Custody Seal on Cooler/Box Present: ☒Yes ☐No Seal Intact: ☒Yes ☐No ☐NA

Packing Material: ☐Bubble Wrap ☒Bubble Bags ☐None ☐Other:_____

Thermometer Used: IR-01/IR-02 Type of Ice: Wet Blue None ☒Sample on Ice, cooling process has begun

Cooler Temperature: 0.6C Ice Visible in Sample Containers: ☐Yes ☒No
(corrected, if applicable)
Temp should be above freezing to 6°C

Comments:_____

Initials/Date of person examining contents: SM 1/30/14

Sample Receiving	Y	N	NA	Notes/Comments
Chain of Custody Present	✓			1.
Chain of Custody Filled out	✓			2.
Chain of Custody Relinquished	✓			3.
Sampler Name & Signature on COC		✓		4.
Short Hold Time Analysis (<72hr)		✓		5.
Rush Turn Around Time Requested	✓			6.
Containers Intact	✓			7.
Sample Labels match COC Includes date/time/ID/analysis			✓	8.
a. Samples received with preservation, if yes, what is the preservative			✓	9a. Circle HNO3, H2SO4, HCL, NaOH
b. All container needing acid/base preservation have been checked **Exceptions: VOA, Coliform, O&G**			✓	9b.If applicable see below pH strip lot#_____ Potassium Iodide strip lot#_____ Lead Acetate strip lot #_____
c. All containers needing preservation are found to be in compliance with EPA recommendation			✓	
Do samples need pH adjustment, if Yes, what preservative is used ? List analyses:_____			✓	10. Circle HNO3, Lot#_____ H2SO4, Lot#_____ HCL, Lot#_____ NaOH, Lot#_____ Adjusted pH:_____ Comments:_____
Headspace in VOA vials (>6mm)			✓	11.
Trip Blank Present			✓	12.
Trip Blank Custody Seals Present			✓	
Samples arrived within Hold Time	✓			13.
Sufficient Volume	✓			14.
Correct containers Used	✓			15.

Client Nofication/Resolution
Person contacted:_____ Date/Time_____
Comments/Resolution:_____

Project Manager Review: [signature] **Date:** 1/30/14

Sample Container Count

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COC PAGE 2 of 1
COC ID#

Pace Project # 7511861

Sample Line Item	BP2N	AG1U	VG9U	VG9H	BP2S	BP1U	BP2U	BG1H	AG1S	BP20	SP5T	WGFU	WGKU	A4oZU		Comments
1														1		
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

Container Codes

DG9H	40mL HCL amber voa vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved **amber** vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	I	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	BP3A	250mL NaOh, Asc Acid plastic	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved **clear** vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag
WGKU	8oz wide jar upreserved	SP5T	120mL Coliform Na Thiosulfate	SP5U	120mL Coliform unpreserved	GN	General unpreserved
Other	Other						

F-DAL-C-003 rev.00 11-5-2012

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(913)599-5665

February 03, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LANDFILL 316-203
Pace Project No.: 60161955

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 27, 2014. 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,

Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

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CERTIFICATIONS

Project: BRIDGETON LANDFILL 316-203
Pace Project No.: 60161955

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LANDFILL 316-203
Pace Project No.: 60161955

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60161955001	**316-203**	Water	01/26/14 10:00	01/27/14 12:50
60161955002	**TRIP BLANK**	Water	01/26/14 10:00	01/27/14 12:50

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LANDFILL 316-203
Pace Project No.: 60161955

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60161955001	**316-203**	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TJT	1
		EPA 245.1	TJT	1
		EPA 625	JMT	16
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC	1
		SM 4500-H+B	RAH	1
		SM 5210B	RAH	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC	1
60161955002	**TRIP BLANK**	EPA 624 Low	EAK	28

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ANALYTICAL RESULTS

Project: BRIDGETON LANDFILL 316-203
Pace Project No.: 60161955

Sample: 316-203 **Lab ID: 60161955001** Collected: 01/26/14 10:00 Received: 01/27/14 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	**7800**	ug/L	750	2	01/28/14 17:00	01/29/14 12:49	7429-90-5	
Antimony	**85.6**	ug/L	50.0	1	01/28/14 17:00	01/29/14 12:46	7440-36-0	
Arsenic	**1060**	ug/L	50.0	1	01/28/14 17:00	01/29/14 12:46	7440-38-2	
Beryllium	ND	ug/L	5.0	1	01/28/14 17:00	01/29/14 12:46	7440-41-7	
Cadmium	ND	ug/L	25.0	1	01/28/14 17:00	01/29/14 12:46	7440-43-9	
Chromium	**276**	ug/L	25.0	1	01/28/14 17:00	01/29/14 12:46	7440-47-3	
Cobalt	**35.9**	ug/L	25.0	1	01/28/14 17:00	01/29/14 12:46	7440-48-4	
Copper	ND	ug/L	50.0	1	01/28/14 17:00	01/29/14 12:46	7440-50-8	
Iron	**642000**	ug/L	250	1	01/28/14 17:00	01/29/14 12:46	7439-89-6	
Lead	**90.2**	ug/L	25.0	1	01/28/14 17:00	01/29/14 12:46	7439-92-1	
Nickel	**97.8**	ug/L	25.0	1	01/28/14 17:00	01/29/14 12:46	7440-02-0	
Selenium	ND	ug/L	75.0	1	01/28/14 17:00	01/29/14 12:46	7782-49-2	
Silver	ND	ug/L	35.0	1	01/28/14 17:00	01/29/14 12:46	7440-22-4	
Thallium	ND	ug/L	100	1	01/28/14 17:00	01/29/14 12:46	7440-28-0	
Zinc	**7190**	ug/L	500	2	01/28/14 17:00	01/29/14 12:49	7440-66-6	
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	**2580**	ug/L	750	2	01/28/14 17:00	01/29/14 13:48	7429-90-5	
Antimony, Dissolved	**79.4**	ug/L	50.0	1	01/28/14 17:00	01/29/14 13:46	7440-36-0	
Arsenic, Dissolved	**938**	ug/L	50.0	1	01/28/14 17:00	01/29/14 13:46	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	01/28/14 17:00	01/29/14 13:46	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	01/28/14 17:00	01/29/14 13:46	7440-43-9	
Chromium, Dissolved	**239**	ug/L	25.0	1	01/28/14 17:00	01/29/14 13:46	7440-47-3	
Cobalt, Dissolved	**35.1**	ug/L	25.0	1	01/28/14 17:00	01/29/14 13:46	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	01/28/14 17:00	01/29/14 13:46	7440-50-8	
Iron, Dissolved	**642000**	ug/L	250	1	01/28/14 17:00	01/29/14 13:46	7439-89-6	
Lead, Dissolved	**67.5**	ug/L	25.0	1	01/28/14 17:00	01/29/14 13:46	7439-92-1	
Nickel, Dissolved	**90.6**	ug/L	25.0	1	01/28/14 17:00	01/29/14 13:46	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	01/28/14 17:00	01/29/14 13:46	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	01/28/14 17:00	01/29/14 13:46	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	01/28/14 17:00	01/29/14 13:46	7440-28-0	
Zinc, Dissolved	**6050**	ug/L	500	2	01/28/14 17:00	01/29/14 13:48	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**12.7**	ug/L	6.0	1	01/31/14 10:45	01/31/14 14:19	7439-97-6	
245.1 Mercury, Dissolved (LF)	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	6.0	1	01/31/14 10:45	01/31/14 14:01	7439-97-6	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	01/29/14 00:00	01/30/14 10:32	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	01/29/14 00:00	01/30/14 10:32	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	01/29/14 00:00	01/30/14 10:32	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	01/29/14 00:00	01/30/14 10:32	67-72-1	
Naphthalene	**1250**	ug/L	1000	2	01/29/14 00:00	01/30/14 10:32	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	01/29/14 00:00	01/30/14 10:32	98-95-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LANDFILL 316-203
Pace Project No.: 60161955

Sample: 316-203 **Lab ID: 60161955001** Collected: 01/26/14 10:00 Received: 01/27/14 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Pentachlorophenol	ND	ug/L	1000	2	01/29/14 00:00	01/30/14 10:32	87-86-5	
Phenol	**13400**	ug/L	1000	2	01/29/14 00:00	01/30/14 10:32	108-95-2	M1
1,2,4-Trichlorobenzene	ND	ug/L	1000	2	01/29/14 00:00	01/30/14 10:32	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	1000	2	01/29/14 00:00	01/30/14 10:32	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	169	%	33-120	2	01/29/14 00:00	01/30/14 10:32	4165-60-0	S0
2-Fluorobiphenyl (S)	86	%	39-120	2	01/29/14 00:00	01/30/14 10:32	321-60-8	
Terphenyl-d14 (S)	83	%	45-120	2	01/29/14 00:00	01/30/14 10:32	1718-51-0	
Phenol-d6 (S)	40	%	11-120	2	01/29/14 00:00	01/30/14 10:32	13127-88-3	
2-Fluorophenol (S)	52	%	17-120	2	01/29/14 00:00	01/30/14 10:32	367-12-4	
2,4,6-Tribromophenol (S)	109	%	39-120	2	01/29/14 00:00	01/30/14 10:32	118-79-6	
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	**176000**	ug/L	2000	200		01/30/14 21:24	67-64-1	N2
Benzene	ND	ug/L	200	200		01/30/14 21:24	71-43-2	
Bromodichloromethane	ND	ug/L	200	200		01/30/14 21:24	75-27-4	
Bromoform	ND	ug/L	200	200		01/30/14 21:24	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/30/14 21:24	74-83-9	
2-Butanone (MEK)	**112000**	ug/L	2000	200		01/30/14 21:24	78-93-3	N2
Carbon tetrachloride	ND	ug/L	200	200		01/30/14 21:24	56-23-5	
Chloroethane	ND	ug/L	200	200		01/30/14 21:24	75-00-3	
Chloroform	ND	ug/L	200	200		01/30/14 21:24	67-66-3	
1,4-Dichlorobenzene	**602**	ug/L	200	200		01/30/14 21:24	106-46-7	
1,2-Dichloroethane	ND	ug/L	200	200		01/30/14 21:24	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/30/14 21:24	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/30/14 21:24	156-60-5	
Ethylbenzene	ND	ug/L	200	200		01/30/14 21:24	100-41-4	
Methylene chloride	ND	ug/L	200	200		01/30/14 21:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2740**	ug/L	2000	200		01/30/14 21:24	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		01/30/14 21:24	79-34-5	N2
Tetrachloroethene	ND	ug/L	200	200		01/30/14 21:24	127-18-4	
Toluene	ND	ug/L	200	200		01/30/14 21:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/30/14 21:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		01/30/14 21:24	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/30/14 21:24	79-01-6	
Vinyl chloride	ND	ug/L	200	200		01/30/14 21:24	75-01-4	
Xylene (Total)	ND	ug/L	600	200		01/30/14 21:24	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	97	%	80-120	200		01/30/14 21:24	460-00-4	
Toluene-d8 (S)	100	%	80-120	200		01/30/14 21:24	2037-26-5	
1,2-Dichloroethane-d4 (S)	113	%	80-120	200		01/30/14 21:24	17060-07-0	
Preservation pH	**6.0**		1.0	200		01/30/14 21:24		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	**775**	mg/L	5.0	1		01/30/14 15:18		

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ANALYTICAL RESULTS

Project: BRIDGETON LANDFILL 316-203
Pace Project No.: 60161955

Sample: 316-203 **Lab ID: 60161955001** Collected: 01/26/14 10:00 Received: 01/27/14 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	**10.8**	mg/L	5.0	1		02/03/14 10:23		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**3840**	mg/L	5.0	1		01/31/14 10:06		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**5.4**	Std. Units	0.10	1		02/01/14 10:52		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**32700**	mg/L	2.0	1	01/27/14 15:46	02/01/14 11:36		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**672**	mg/L	20.0	200		01/28/14 17:44	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**56600**	mg/L	5000	500		02/03/14 07:52		

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ANALYTICAL RESULTS

Project: BRIDGETON LANDFILL 316-203
Pace Project No.: 60161955

Sample: TRIP BLANK **Lab ID: 60161955002** Collected: 01/26/14 10:00 Received: 01/27/14 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	ND	ug/L	10.0	1		01/30/14 21:39	67-64-1	N2
Benzene	ND	ug/L	1.0	1		01/30/14 21:39	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		01/30/14 21:39	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/30/14 21:39	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/30/14 21:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/30/14 21:39	78-93-3	N2
Carbon tetrachloride	ND	ug/L	1.0	1		01/30/14 21:39	56-23-5	
Chloroethane	ND	ug/L	1.0	1		01/30/14 21:39	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/30/14 21:39	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/30/14 21:39	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/30/14 21:39	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/30/14 21:39	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/30/14 21:39	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/30/14 21:39	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		01/30/14 21:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/30/14 21:39	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/30/14 21:39	79-34-5	N2
Tetrachloroethene	ND	ug/L	1.0	1		01/30/14 21:39	127-18-4	
Toluene	ND	ug/L	1.0	1		01/30/14 21:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/30/14 21:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/30/14 21:39	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/30/14 21:39	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/30/14 21:39	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/30/14 21:39	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	103	%	80-120	1		01/30/14 21:39	460-00-4	
Toluene-d8 (S)	100	%	80-120	1		01/30/14 21:39	2037-26-5	
1,2-Dichloroethane-d4 (S)	99	%	80-120	1		01/30/14 21:39	17060-07-0	
Preservation pH	**6.0**		1.0	1		01/30/14 21:39		

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-203
Pace Project No.: 60161955

QC Batch: MERP/8104 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury
Associated Lab Samples: 60161955001

METHOD BLANK: 1324896 | Matrix: Water
Associated Lab Samples: 60161955001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/31/14 14:10	

LABORATORY CONTROL SAMPLE: 1324897

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	91	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1324898 1324899

Parameter	Units	60161960002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.4	4.4	88	88	70-130	0	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-203
Pace Project No.: 60161955

QC Batch: MERP/8103
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60161955001

METHOD BLANK: 1324879
Matrix: Water
Associated Lab Samples: 60161955001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	01/31/14 13:52	

LABORATORY CONTROL SAMPLE: 1324880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.5	89	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1324881 1324882

Parameter	Units	60161956001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	98.7	110	66	73	70-130	11	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-203
Pace Project No.: 60161955

QC Batch: MPRP/26007
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60161955001

METHOD BLANK: 1322792
Matrix: Water
Associated Lab Samples: 60161955001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	01/29/14 12:01	
Antimony	ug/L	ND	10.0	01/29/14 12:01	
Arsenic	ug/L	ND	10.0	01/29/14 12:01	
Beryllium	ug/L	ND	1.0	01/29/14 12:01	
Cadmium	ug/L	ND	5.0	01/29/14 12:01	
Chromium	ug/L	ND	5.0	01/29/14 12:01	
Cobalt	ug/L	ND	5.0	01/29/14 12:01	
Copper	ug/L	ND	10.0	01/29/14 12:01	
Iron	ug/L	ND	50.0	01/29/14 12:01	
Lead	ug/L	ND	5.0	01/29/14 12:01	
Nickel	ug/L	ND	5.0	01/29/14 12:01	
Selenium	ug/L	ND	15.0	01/29/14 12:01	
Silver	ug/L	ND	7.0	01/29/14 12:01	
Thallium	ug/L	ND	20.0	01/29/14 12:01	
Zinc	ug/L	ND	50.0	01/29/14 12:01	

LABORATORY CONTROL SAMPLE: 1322793

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9920	99	85-115	
Antimony	ug/L	1000	1010	101	85-115	
Arsenic	ug/L	1000	967	97	85-115	
Beryllium	ug/L	1000	1010	101	85-115	
Cadmium	ug/L	1000	992	99	85-115	
Chromium	ug/L	1000	1000	100	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	997	100	85-115	
Iron	ug/L	10000	10000	100	85-115	
Lead	ug/L	1000	1020	102	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1010	101	85-115	
Silver	ug/L	500	494	99	85-115	
Thallium	ug/L	1000	1040	104	85-115	
Zinc	ug/L	1000	996	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322794 1322795

Parameter	Units	60161839001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	25.4J	10000	10000	10000	9920	100	99	70-130	1	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-203
Pace Project No.: 60161955

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322794 1322795

Parameter	Units	60161839001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	1000	1000	1020	1020	102	102	70-130	0	7	
Arsenic	ug/L	ND	1000	1000	1010	1000	101	100	70-130	1	10	
Beryllium	ug/L	ND	1000	1000	1030	1030	103	103	70-130	0	7	
Cadmium	ug/L	ND	1000	1000	1010	1010	101	101	70-130	0	10	
Chromium	ug/L	0.86J	1000	1000	982	982	98	98	70-130	0	10	
Cobalt	ug/L	4.2J	1000	1000	1000	1000	100	100	70-130	0	6	
Copper	ug/L	4.1J	1000	1000	1020	1010	101	101	70-130	1	11	
Iron	ug/L	30.5J	10000	10000	9880	9790	98	98	70-130	1	10	
Lead	ug/L	7.3	1000	1000	991	989	98	98	70-130	0	10	
Nickel	ug/L	48.5	1000	1000	1050	1050	100	100	70-130	0	10	
Selenium	ug/L	ND	1000	1000	1110	1120	111	112	70-130	1	10	
Silver	ug/L	1.2J	500	500	494	492	99	98	70-130	0	10	
Thallium	ug/L	ND	1000	1000	970	970	97	97	70-130	0	6	
Zinc	ug/L	159	1000	1000	1140	1130	98	97	70-130	1	11	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322796 1322797

Parameter	Units	60161892001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	0.018J mg/L	10000	10000	10200	10200	101	102	70-130	0	8	
Antimony	ug/L	ND	1000	1000	1080	1080	107	108	70-130	0	7	
Arsenic	ug/L	0.0067J mg/L	1000	1000	1070	1080	107	107	70-130	0	10	
Beryllium	ug/L	ND	1000	1000	1010	1010	101	101	70-130	0	7	
Cadmium	ug/L	ND	1000	1000	1060	1060	106	106	70-130	0	10	
Chromium	ug/L	0.0011J mg/L	1000	1000	991	988	99	99	70-130	0	10	
Cobalt	ug/L	ND	1000	1000	986	983	99	98	70-130	0	6	
Copper	ug/L	0.031 mg/L	1000	1000	1060	1050	103	102	70-130	0	11	
Iron	ug/L	0.17 mg/L	10000	10000	9890	9960	97	98	70-130	1	10	
Lead	ug/L	ND	1000	1000	950	951	95	95	70-130	0	10	
Nickel	ug/L	0.0098 mg/L	1000	1000	984	981	97	97	70-130	0	10	
Selenium	ug/L	ND	1000	1000	1120	1110	112	111	70-130	1	10	
Silver	ug/L	0.0012J mg/L	500	500	522	521	104	104	70-130	0	10	
Thallium	ug/L	ND	1000	1000	904	904	90	90	70-130	0	6	
Zinc	ug/L	ND	1000	1000	979	976	98	98	70-130	0	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-203
Pace Project No.: 60161955

QC Batch: MPRP/26023
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60161955001

METHOD BLANK: 1323393
Matrix: Water
Associated Lab Samples: 60161955001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	01/29/14 13:14	
Antimony, Dissolved	ug/L	ND	10.0	01/29/14 13:14	
Arsenic, Dissolved	ug/L	ND	10.0	01/29/14 13:14	
Beryllium, Dissolved	ug/L	ND	1.0	01/29/14 13:14	
Cadmium, Dissolved	ug/L	ND	5.0	01/29/14 13:14	
Chromium, Dissolved	ug/L	ND	5.0	01/29/14 13:14	
Cobalt, Dissolved	ug/L	ND	5.0	01/29/14 13:14	
Copper, Dissolved	ug/L	ND	10.0	01/29/14 13:14	
Iron, Dissolved	ug/L	ND	50.0	01/29/14 13:14	
Lead, Dissolved	ug/L	ND	5.0	01/29/14 13:14	
Nickel, Dissolved	ug/L	ND	5.0	01/29/14 13:14	
Selenium, Dissolved	ug/L	ND	15.0	01/29/14 13:14	
Silver, Dissolved	ug/L	ND	7.0	01/29/14 13:14	
Thallium, Dissolved	ug/L	ND	20.0	01/29/14 13:14	
Zinc, Dissolved	ug/L	ND	50.0	01/29/14 13:14	

LABORATORY CONTROL SAMPLE: 1323394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10000	100	85-115	
Antimony, Dissolved	ug/L	1000	1050	105	85-115	
Arsenic, Dissolved	ug/L	1000	1020	102	85-115	
Beryllium, Dissolved	ug/L	1000	1010	101	85-115	
Cadmium, Dissolved	ug/L	1000	1040	104	85-115	
Chromium, Dissolved	ug/L	1000	1010	101	85-115	
Cobalt, Dissolved	ug/L	1000	1050	105	85-115	
Copper, Dissolved	ug/L	1000	998	100	85-115	
Iron, Dissolved	ug/L	10000	9980	100	85-115	
Lead, Dissolved	ug/L	1000	1050	105	85-115	
Nickel, Dissolved	ug/L	1000	1050	105	85-115	
Selenium, Dissolved	ug/L	1000	1040	104	85-115	
Silver, Dissolved	ug/L	500	492	98	85-115	
Thallium, Dissolved	ug/L	1000	1090	109	85-115	
Zinc, Dissolved	ug/L	1000	1020	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1323395 1323396

Parameter	Units	60161839001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	ND	10000	10000	10100	10200	101	102	70-130	1	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-203
Pace Project No.: 60161955

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1323395 1323396

Parameter	Units	60161839001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	1000	1000	1060	1070	106	106	70-130	1	7	
Arsenic, Dissolved	ug/L	ND	1000	1000	1040	1050	104	105	70-130	1	10	
Beryllium, Dissolved	ug/L	ND	1000	1000	1010	1020	101	102	70-130	1	7	
Cadmium, Dissolved	ug/L	ND	1000	1000	1040	1050	104	105	70-130	1	10	
Chromium, Dissolved	ug/L	ND	1000	1000	994	1000	99	100	70-130	1	10	
Cobalt, Dissolved	ug/L	3.7J	1000	1000	1020	1030	102	103	70-130	1	6	
Copper, Dissolved	ug/L	ND	1000	1000	1010	1020	101	102	70-130	1	11	
Iron, Dissolved	ug/L	12.8J	10000	10000	9820	9910	98	99	70-130	1	10	
Lead, Dissolved	ug/L	4.1J	1000	1000	1030	1030	102	102	70-130	0	10	
Nickel, Dissolved	ug/L	45.6	1000	1000	1060	1070	102	103	70-130	1	10	
Selenium, Dissolved	ug/L	ND	1000	1000	1050	1050	105	105	70-130	0	10	
Silver, Dissolved	ug/L	ND	500	500	499	498	100	99	70-130	0	10	
Thallium, Dissolved	ug/L	ND	1000	1000	1030	1030	103	103	70-130	0	6	
Zinc, Dissolved	ug/L	131	1000	1000	1130	1140	100	100	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-203
Pace Project No.: 60161955

QC Batch: MSV/59176 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60161955001, 60161955002

METHOD BLANK: 1324659 | Matrix: Water
Associated Lab Samples: 60161955001, 60161955002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/30/14 20:25	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/30/14 20:25	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/30/14 20:25	
1,2-Dichloroethane	ug/L	ND	1.0	01/30/14 20:25	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/30/14 20:25	
2-Butanone (MEK)	ug/L	ND	10.0	01/30/14 20:25	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/30/14 20:25	N2
Acetone	ug/L	ND	10.0	01/30/14 20:25	N2
Benzene	ug/L	ND	1.0	01/30/14 20:25	
Bromodichloromethane	ug/L	ND	1.0	01/30/14 20:25	
Bromoform	ug/L	ND	1.0	01/30/14 20:25	
Bromomethane	ug/L	ND	5.0	01/30/14 20:25	
Carbon tetrachloride	ug/L	ND	1.0	01/30/14 20:25	
Chloroethane	ug/L	ND	1.0	01/30/14 20:25	
Chloroform	ug/L	ND	1.0	01/30/14 20:25	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/30/14 20:25	N2
Ethylbenzene	ug/L	ND	1.0	01/30/14 20:25	
Methylene chloride	ug/L	ND	1.0	01/30/14 20:25	
Tetrachloroethene	ug/L	ND	1.0	01/30/14 20:25	
Toluene	ug/L	ND	1.0	01/30/14 20:25	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/30/14 20:25	
Trichloroethene	ug/L	ND	1.0	01/30/14 20:25	
Vinyl chloride	ug/L	ND	1.0	01/30/14 20:25	
Xylene (Total)	ug/L	ND	3.0	01/30/14 20:25	N2
1,2-Dichloroethane-d4 (S)	%	104	80-120	01/30/14 20:25	
4-Bromofluorobenzene (S)	%	101	80-120	01/30/14 20:25	
Toluene-d8 (S)	%	101	80-120	01/30/14 20:25	

LABORATORY CONTROL SAMPLE: 1324660

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.6	93	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	59-138	N2
1,1,2-Trichloroethane	ug/L	20	20.1	101	69-127	
1,2-Dichloroethane	ug/L	20	18.8	94	71-129	
1,4-Dichlorobenzene	ug/L	20	19.7	98	68-124	
2-Butanone (MEK)	ug/L	100	113	113	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	91.3	91	61-120	N2
Acetone	ug/L	100	118	118	40-160	N2
Benzene	ug/L	20	18.9	94	73-129	
Bromodichloromethane	ug/L	20	19.5	97	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-203
Pace Project No.: 60161955

LABORATORY CONTROL SAMPLE: 1324660

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	21.1	105	52-123	
Bromomethane	ug/L	20	18.1	91	10-160	
Carbon tetrachloride	ug/L	20	19.0	95	70-140	
Chloroethane	ug/L	20	18.7	94	42-160	
Chloroform	ug/L	20	19.4	97	60-120	
cis-1,2-Dichloroethene	ug/L	20	18.6	93	70-125	N2
Ethylbenzene	ug/L	20	19.1	96	66-133	
Methylene chloride	ug/L	20	18.7	93	56-135	
Tetrachloroethene	ug/L	20	18.9	94	64-143	
Toluene	ug/L	20	18.4	92	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.7	94	67-149	
Trichloroethene	ug/L	20	18.8	94	71-130	
Vinyl chloride	ug/L	20	17.6	88	41-160	
Xylene (Total)	ug/L	60	57.7	96	67-130	N2
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			98	80-120	

MATRIX SPIKE SAMPLE: 1324661

Parameter	Units	60161912001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4510	113	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4070	102	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4520	113	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3900	98	49-155	
1,4-Dichlorobenzene	ug/L	683	4000	4860	105	18-147	
2-Butanone (MEK)	ug/L	102000	20000	127000	128	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	2940	20000	23900	105	40-160	N2
Acetone	ug/L	157000	20000	241000	418	40-160	M1,N2
Benzene	ug/L	ND	4000	4340	107	37-151	
Bromodichloromethane	ug/L	ND	4000	4310	108	35-155	
Bromoform	ug/L	ND	4000	4170	104	45-133	
Bromomethane	ug/L	ND	4000	4080	101	10-160	
Carbon tetrachloride	ug/L	ND	4000	4860	122	70-140	
Chloroethane	ug/L	ND	4000	4680	117	14-160	
Chloroform	ug/L	ND	4000	4350	109	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	4250	106	19-160	N2
Ethylbenzene	ug/L	ND	4000	4320	106	37-154	
Methylene chloride	ug/L	ND	4000	3950	99	15-156	
Tetrachloroethene	ug/L	ND	4000	4480	111	64-148	
Toluene	ug/L	ND	4000	4190	104	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4280	107	54-156	
Trichloroethene	ug/L	ND	4000	4250	106	71-157	
Vinyl chloride	ug/L	ND	4000	4320	108	10-160	
Xylene (Total)	ug/L	ND	12000	13100	109	12-153	N2
1,2-Dichloroethane-d4 (S)	%				102	80-120	
4-Bromofluorobenzene (S)	%				100	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-203
Pace Project No.: 60161955

MATRIX SPIKE SAMPLE: 1324661

Parameter	Units	60161912001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				99	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-203
Pace Project No.: 60161955

QC Batch: OEXT/42457 | Analysis Method: EPA 625
QC Batch Method: EPA 625 | Analysis Description: 625 MSS
Associated Lab Samples: 60161955001

METHOD BLANK: 1323522 | Matrix: Water
Associated Lab Samples: 60161955001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/30/14 09:28	
2,4,6-Trichlorophenol	ug/L	ND	5.0	01/30/14 09:28	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	01/30/14 09:28	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/30/14 09:28	
Hexachlorocyclopentadiene	ug/L	ND	5.0	01/30/14 09:28	
Hexachloroethane	ug/L	ND	5.0	01/30/14 09:28	
Naphthalene	ug/L	ND	5.0	01/30/14 09:28	
Nitrobenzene	ug/L	ND	5.0	01/30/14 09:28	
Pentachlorophenol	ug/L	ND	5.0	01/30/14 09:28	
Phenol	ug/L	ND	5.0	01/30/14 09:28	
2,4,6-Tribromophenol (S)	%	89	39-120	01/30/14 09:28	
2-Fluorobiphenyl (S)	%	83	39-120	01/30/14 09:28	
2-Fluorophenol (S)	%	39	17-120	01/30/14 09:28	
Nitrobenzene-d5 (S)	%	78	33-120	01/30/14 09:28	
Phenol-d6 (S)	%	23	11-120	01/30/14 09:28	
Terphenyl-d14 (S)	%	83	45-120	01/30/14 09:28	

LABORATORY CONTROL SAMPLE: 1323523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	40.7	81	46-120	
2,4,6-Trichlorophenol	ug/L	50	44.6	89	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	49.1	98	40-133	
Hexachloro-1,3-butadiene	ug/L	50	40.7	81	44-116	
Hexachlorocyclopentadiene	ug/L	100	55.6	56	24-120	
Hexachloroethane	ug/L	50	39.3	79	43-113	
Naphthalene	ug/L	50	41.4	83	48-120	
Nitrobenzene	ug/L	50	39.4	79	48-120	
Pentachlorophenol	ug/L	50	40.1	80	47-120	
Phenol	ug/L	50	13.2	26	16-112	
2,4,6-Tribromophenol (S)	%			95	39-120	
2-Fluorobiphenyl (S)	%			89	39-120	
2-Fluorophenol (S)	%			41	17-120	
Nitrobenzene-d5 (S)	%			79	33-120	
Phenol-d6 (S)	%			24	11-120	
Terphenyl-d14 (S)	%			93	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-203
Pace Project No.: 60161955

MATRIX SPIKE SAMPLE: 1323524

Parameter	Units	60161955001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	4400	88	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4850	97	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	5440	109	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4630	93	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	7310	73	11-120	
Hexachloroethane	ug/L	ND	5000	4040	81	40-113	
Naphthalene	ug/L	1250	5000	5190	79	45-120	
Nitrobenzene	ug/L	ND	5000	4600	92	38-120	
Pentachlorophenol	ug/L	ND	5000	5810	116	43-135	
Phenol	ug/L	13400	5000	12100	-26	13-112	M1
2,4,6-Tribromophenol (S)	%				109	39-120	
2-Fluorobiphenyl (S)	%				92	39-120	
2-Fluorophenol (S)	%				49	17-120	
Nitrobenzene-d5 (S)	%				156	33-120	S0
Phenol-d6 (S)	%				40	11-120	
Terphenyl-d14 (S)	%				90	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-203
Pace Project No.: 60161955

QC Batch: WET/45887 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60161955001

METHOD BLANK: 1324431 | Matrix: Water
Associated Lab Samples: 60161955001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/30/14 15:15	

LABORATORY CONTROL SAMPLE: 1324432

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	33.5	84	78-114	

MATRIX SPIKE SAMPLE: 1324433

Parameter	Units	60161067001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40.4	41.1	95	78-114	

SAMPLE DUPLICATE: 1324434

Parameter	Units	60161912001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	932	1100	16	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-203
Pace Project No.: 60161955

QC Batch: WET/45934 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 SGT-HEM, TPH
Associated Lab Samples: 60161955001

METHOD BLANK: 1325928 | Matrix: Water
Associated Lab Samples: 60161955001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	02/03/14 10:22	

LABORATORY CONTROL SAMPLE: 1325929

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	16.3	82	64-132	

MATRIX SPIKE SAMPLE: 1325930

Parameter	Units	60161930001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	21.3	17.4	77	64-132	

SAMPLE DUPLICATE: 1325931

Parameter	Units	60161893001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	ND		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-203
Pace Project No.: 60161955

QC Batch: WET/45844 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60161955001

METHOD BLANK: 1323619 | Matrix: Water
Associated Lab Samples: 60161955001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	01/31/14 10:03	

SAMPLE DUPLICATE: 1323620

Parameter	Units	60161843002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	14.0	14.0	0	10	H1

SAMPLE DUPLICATE: 1323621

Parameter	Units	60161912001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2580	2340	10	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-203
Pace Project No.: 60161955

QC Batch: WET/45922
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 60161955001

SAMPLE DUPLICATE: 1325419

Parameter	Units	60161989001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.4	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-203
Pace Project No.: 60161955

QC Batch: WET/45818 | Analysis Method: SM 5210B
QC Batch Method: SM 5210B | Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 60161955001

METHOD BLANK: 1322737 | Matrix: Water
Associated Lab Samples: 60161955001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	02/01/14 11:27	

LABORATORY CONTROL SAMPLE: 1322738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	205	103	85-115	

SAMPLE DUPLICATE: 1322739

Parameter	Units	60161955001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	32700	35200	7	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-203
Pace Project No.: 60161955

QC Batch: WETA/27945 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60161955001

METHOD BLANK: 1323113 | Matrix: Water
Associated Lab Samples: 60161955001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	01/28/14 17:15	

LABORATORY CONTROL SAMPLE: 1323114

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1323115

Parameter	Units	60161638003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.27	2	2.3	101	90-110	

MATRIX SPIKE SAMPLE: 1323116

Parameter	Units	60161643002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.69	2	2.7	99	90-110	

SAMPLE DUPLICATE: 1323117

Parameter	Units	60161659001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.15	0.14	5	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-203
Pace Project No.: 60161955

QC Batch: WETA/28006 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 60161955001

METHOD BLANK: 1324702 | Matrix: Water
Associated Lab Samples: 60161955001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/03/14 07:50	

LABORATORY CONTROL SAMPLE: 1324703

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	50.1	100	90-110	

MATRIX SPIKE SAMPLE: 1324704

Parameter	Units	60161731001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	72.9	50	119	92	90-110	

MATRIX SPIKE SAMPLE: 1324706

Parameter	Units	60161729001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	5000	2500	7300	92	90-110	

SAMPLE DUPLICATE: 1324705

Parameter	Units	60161955001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	56600	56300	1	25	

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QUALIFIERS

Project: BRIDGETON LANDFILL 316-203
Pace Project No.: 60161955

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

ANALYTE QUALIFIERS

H1	Analysis conducted outside the EPA method holding time.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LANDFILL 316-203
Pace Project No.: 60161955

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60161955001	**316-203**	EPA 200.7	MPRP/26007	EPA 200.7	ICP/19908
60161955001	**316-203**	EPA 200.7	MPRP/26023	EPA 200.7	ICP/19907
60161955001	**316-203**	EPA 245.1	MERP/8104	EPA 245.1	MERC/8058
60161955001	**316-203**	EPA 245.1	MERP/8103	EPA 245.1	MERC/8057
60161955001	**316-203**	EPA 625	OEXT/42457	EPA 625	MSSV/13509
60161955001	**316-203**	EPA 624 Low	MSV/59176		
60161955002	**TRIP BLANK**	EPA 624 Low	MSV/59176		
60161955001	**316-203**	EPA 1664A	WET/45887		
60161955001	**316-203**	EPA 1664A	WET/45934		
60161955001	**316-203**	SM 2540D	WET/45844		
60161955001	**316-203**	SM 4500-H+B	WET/45922		
60161955001	**316-203**	SM 5210B	WET/45818	SM 5210B	WET/45937
60161955001	**316-203**	EPA 350.1	WETA/27945		
60161955001	**316-203**	EPA 410.4	WETA/28006		

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Sample Condition Upon Receipt

WO#: 60161955

60161955

Optional
Proj Due Date:
Proj Name:

Client Name: BAK

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

Tracking #: _____ Pace Shipping Label Used? Yes ☒ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Other ☒ 2 XL

Thermometer Used: T-239 / T-194 Type of Ice: Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 2.8

Date and initials of person examining contents: S 1/27/14

Temperature should be above freezing to 6°C

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 & signature on COC:	☒Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☒Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☒Yes ☐No ☐N/A	6. BOD pH
Rush Turn Around Time requested:	☐Yes ☒No ☐N/A	7.
Sufficient volume:	☒Yes ☐No ☐N/A	8.
Correct containers used:	☒Yes ☐No ☐N/A	
Pace containers used:	☒Yes ☐No ☐N/A	9.
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☒Yes ☐No ☐N/A	13.
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	14. Added HNO3 to 316-203 BP3N 5.0/4.0 (2.5)
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☒No ☐N/A	Added H2SO4 (2.0) to 316-203 BP3S 5.0/2.0
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☒Yes ☐No	Initial when completed: S Lot # of added preservative: 12513 12518
Trip Blank present: Pace Trip Blank lot # (if purchased): covered	☒Yes ☐No ☐N/A	15.
Headspace in VOA vials (>6mm):	☒Yes ☐No ☐N/A	3 of 5 VOA 16.
Project sampled in USDA Regulated Area:	☐Yes ☒No ☐N/A	17. List State

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: MW for AKB Date: 1/27/14

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A
Required Client Information:

Company:	BARR ENGINEERING
Address:	
Email To:	
Phone:	(816) 285-8410 Fax:
Requested Due Date/TAT:	10 Day (Default)

Section B
Required Project Information:

Report To:	ED GALBRAITH/BARR
Copy To:	SCOTT FEDAK/FEEZOR
	DANA BAKER/MARGARET TREANOR -BARR
Purchase Order No.	PO 3727110
Client Project ID:	BRIDGETON LF
Container Order Number:	

Section C
Invoice Information:

Attention:	AMY HARGROVE/BRIAN POWER
Company Name:	REPUBLIC SERVICES
Address:	BRIDGETON, MO 63044
Pace Quote Reference:	130426_7588
Pace Project Manager:	Brown, Angie
Pace Profile #:	6787 LINE 2

Regulatory Agency

State / Location
Missouri

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N): COD EPA 410	pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B		Residual Chlorine (Y/N)	
1	316-203 3(AG3S) 5(DG9U)	OT	G	1/26/14	1000				14	10	4	1	0					X	X	X	X	X	X	X	X	X	X	X	2(BP2U), BP3U, BP3N 5-0, BP3S 5-0, 2(AG4U)		60161955
2	TRIP BLANK								2	2														X					2(DG9U) TB		
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

Matrix codes: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

METALS LIST total & LF Dis: Al,Sb,As,Be,Cd,Cr, Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn and Mercury

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	Sam Bircher / FEEZOR	1/26/14	1000	Bill Stone 412	1-27-14	8:50				
SITE ADDRESS: BRIDGETON LF				[illegible] / PASC	1/27/14	1250	2.8	Y	Y	Y
13570 ST. CHARLES ROCK RD										
BRIDGETON MO 63044										

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Sam Bircher

SIGNATURE of SAMPLER: [signature] DATE Signed: 1-26-14

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February 03, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 27, 2014. 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,

Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

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CERTIFICATIONS

Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60161956001	**316-204**	Water	01/27/14 07:35	01/27/14 12:50
60161956002	**TRIP BLANK**	Water	01/27/14 07:35	01/27/14 12:50

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60161956001	**316-204**	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TJT	1
		EPA 245.1	TJT	1
		EPA 625	JMT	16
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC	1
		SM 4500-H+B	RAH	1
		SM 5210B	RAH	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC	1
60161956002	**TRIP BLANK**	EPA 624 Low	EAK	28

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ANALYTICAL RESULTS

Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

Sample: 316-204 **Lab ID: 60161956001** Collected: 01/27/14 07:35 Received: 01/27/14 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	**13400**	ug/L	750	2	01/28/14 17:00	01/29/14 12:54	7429-90-5	
Antimony	**84.4**	ug/L	50.0	1	01/28/14 17:00	01/29/14 12:51	7440-36-0	
Arsenic	**1090**	ug/L	50.0	1	01/28/14 17:00	01/29/14 12:51	7440-38-2	
Beryllium	ND	ug/L	5.0	1	01/28/14 17:00	01/29/14 12:51	7440-41-7	
Cadmium	ND	ug/L	25.0	1	01/28/14 17:00	01/29/14 12:51	7440-43-9	
Chromium	**304**	ug/L	25.0	1	01/28/14 17:00	01/29/14 12:51	7440-47-3	
Cobalt	**45.9**	ug/L	25.0	1	01/28/14 17:00	01/29/14 12:51	7440-48-4	
Copper	ND	ug/L	50.0	1	01/28/14 17:00	01/29/14 12:51	7440-50-8	
Iron	**800000**	ug/L	250	1	01/28/14 17:00	01/29/14 12:51	7439-89-6	
Lead	**113**	ug/L	25.0	1	01/28/14 17:00	01/29/14 12:51	7439-92-1	
Nickel	**123**	ug/L	25.0	1	01/28/14 17:00	01/29/14 12:51	7440-02-0	
Selenium	ND	ug/L	75.0	1	01/28/14 17:00	01/29/14 12:51	7782-49-2	
Silver	ND	ug/L	35.0	1	01/28/14 17:00	01/29/14 12:51	7440-22-4	
Thallium	ND	ug/L	100	1	01/28/14 17:00	01/29/14 12:51	7440-28-0	
Zinc	**7350**	ug/L	500	2	01/28/14 17:00	01/29/14 12:54	7440-66-6	
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	**2500**	ug/L	750	2	01/28/14 17:00	01/29/14 13:53	7429-90-5	
Antimony, Dissolved	**89.4**	ug/L	50.0	1	01/28/14 17:00	01/29/14 13:51	7440-36-0	D9
Arsenic, Dissolved	**915**	ug/L	50.0	1	01/28/14 17:00	01/29/14 13:51	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	01/28/14 17:00	01/29/14 13:51	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	01/28/14 17:00	01/29/14 13:51	7440-43-9	
Chromium, Dissolved	**237**	ug/L	25.0	1	01/28/14 17:00	01/29/14 13:51	7440-47-3	
Cobalt, Dissolved	**31.4**	ug/L	25.0	1	01/28/14 17:00	01/29/14 13:51	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	01/28/14 17:00	01/29/14 13:51	7440-50-8	
Iron, Dissolved	**634000**	ug/L	250	1	01/28/14 17:00	01/29/14 13:51	7439-89-6	
Lead, Dissolved	**67.5**	ug/L	25.0	1	01/28/14 17:00	01/29/14 13:51	7439-92-1	
Nickel, Dissolved	**93.1**	ug/L	25.0	1	01/28/14 17:00	01/29/14 13:51	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	01/28/14 17:00	01/29/14 13:51	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	01/28/14 17:00	01/29/14 13:51	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	01/28/14 17:00	01/29/14 13:51	7440-28-0	
Zinc, Dissolved	**6070**	ug/L	500	2	01/28/14 17:00	01/29/14 13:53	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**16.0**	ug/L	6.0	1	01/31/14 10:45	01/31/14 14:21	7439-97-6	
245.1 Mercury, Dissolved (LF)	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	6.0	1	01/31/14 10:45	01/31/14 14:03	7439-97-6	M1
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	01/29/14 00:00	01/30/14 10:53	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	01/29/14 00:00	01/30/14 10:53	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	01/29/14 00:00	01/30/14 10:53	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	01/29/14 00:00	01/30/14 10:53	67-72-1	
Naphthalene	ND	ug/L	1000	2	01/29/14 00:00	01/30/14 10:53	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	01/29/14 00:00	01/30/14 10:53	98-95-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

Sample: 316-204 **Lab ID: 60161956001** Collected: 01/27/14 07:35 Received: 01/27/14 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Pentachlorophenol	ND	ug/L	1000	2	01/29/14 00:00	01/30/14 10:53	87-86-5	
Phenol	**9670**	ug/L	1000	2	01/29/14 00:00	01/30/14 10:53	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	1000	2	01/29/14 00:00	01/30/14 10:53	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	1000	2	01/29/14 00:00	01/30/14 10:53	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	138	%	33-120	2	01/29/14 00:00	01/30/14 10:53	4165-60-0	S0
2-Fluorobiphenyl (S)	85	%	39-120	2	01/29/14 00:00	01/30/14 10:53	321-60-8	
Terphenyl-d14 (S)	84	%	45-120	2	01/29/14 00:00	01/30/14 10:53	1718-51-0	
Phenol-d6 (S)	40	%	11-120	2	01/29/14 00:00	01/30/14 10:53	13127-88-3	
2-Fluorophenol (S)	55	%	17-120	2	01/29/14 00:00	01/30/14 10:53	367-12-4	
2,4,6-Tribromophenol (S)	101	%	39-120	2	01/29/14 00:00	01/30/14 10:53	118-79-6	
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	**214000**	ug/L	2500	250		01/31/14 11:16	67-64-1	N2
Benzene	ND	ug/L	200	200		01/30/14 21:54	71-43-2	
Bromodichloromethane	ND	ug/L	200	200		01/30/14 21:54	75-27-4	
Bromoform	ND	ug/L	200	200		01/30/14 21:54	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/30/14 21:54	74-83-9	
2-Butanone (MEK)	**110000**	ug/L	2000	200		01/30/14 21:54	78-93-3	N2
Carbon tetrachloride	ND	ug/L	200	200		01/30/14 21:54	56-23-5	
Chloroethane	ND	ug/L	200	200		01/30/14 21:54	75-00-3	
Chloroform	ND	ug/L	200	200		01/30/14 21:54	67-66-3	
1,4-Dichlorobenzene	**655**	ug/L	200	200		01/30/14 21:54	106-46-7	
1,2-Dichloroethane	ND	ug/L	200	200		01/30/14 21:54	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/30/14 21:54	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/30/14 21:54	156-60-5	
Ethylbenzene	ND	ug/L	200	200		01/30/14 21:54	100-41-4	
Methylene chloride	ND	ug/L	200	200		01/30/14 21:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2650**	ug/L	2000	200		01/30/14 21:54	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		01/30/14 21:54	79-34-5	N2
Tetrachloroethene	ND	ug/L	200	200		01/30/14 21:54	127-18-4	
Toluene	ND	ug/L	200	200		01/30/14 21:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/30/14 21:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		01/30/14 21:54	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/30/14 21:54	79-01-6	
Vinyl chloride	ND	ug/L	200	200		01/30/14 21:54	75-01-4	
Xylene (Total)	ND	ug/L	600	200		01/30/14 21:54	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	102	%	80-120	200		01/30/14 21:54	460-00-4	
Toluene-d8 (S)	100	%	80-120	200		01/30/14 21:54	2037-26-5	
1,2-Dichloroethane-d4 (S)	103	%	80-120	200		01/30/14 21:54	17060-07-0	
Preservation pH	**6.0**		1.0	200		01/30/14 21:54		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	**788**	mg/L	5.0	1		01/30/14 15:18		

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ANALYTICAL RESULTS

Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

Sample: 316-204 **Lab ID: 60161956001** Collected: 01/27/14 07:35 Received: 01/27/14 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	**17.6**	mg/L	5.0	1		02/03/14 10:24		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**1380**	mg/L	5.0	1		01/31/14 10:06		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**5.4**	Std. Units	0.10	1		02/01/14 10:52		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**30900**	mg/L	2.0	1	01/27/14 16:09	02/01/14 11:42		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**661**	mg/L	20.0	200		01/28/14 17:45	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**57500**	mg/L	5000	500		02/03/14 07:54		

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ANALYTICAL RESULTS

Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

Sample: TRIP BLANK **Lab ID: 60161956002** Collected: 01/27/14 07:35 Received: 01/27/14 12:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	ND	ug/L	10.0	1		01/30/14 22:09	67-64-1	N2
Benzene	ND	ug/L	1.0	1		01/30/14 22:09	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		01/30/14 22:09	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/30/14 22:09	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/30/14 22:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/30/14 22:09	78-93-3	N2
Carbon tetrachloride	ND	ug/L	1.0	1		01/30/14 22:09	56-23-5	
Chloroethane	ND	ug/L	1.0	1		01/30/14 22:09	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/30/14 22:09	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/30/14 22:09	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/30/14 22:09	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/30/14 22:09	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/30/14 22:09	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/30/14 22:09	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		01/30/14 22:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/30/14 22:09	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/30/14 22:09	79-34-5	N2
Tetrachloroethene	ND	ug/L	1.0	1		01/30/14 22:09	127-18-4	
Toluene	ND	ug/L	1.0	1		01/30/14 22:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/30/14 22:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/30/14 22:09	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/30/14 22:09	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/30/14 22:09	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/30/14 22:09	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	103	%	80-120	1		01/30/14 22:09	460-00-4	
Toluene-d8 (S)	102	%	80-120	1		01/30/14 22:09	2037-26-5	
1,2-Dichloroethane-d4 (S)	106	%	80-120	1		01/30/14 22:09	17060-07-0	
Preservation pH	**6.0**		1.0	1		01/30/14 22:09		

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

QC Batch: MERP/8104 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury
Associated Lab Samples: 60161956001

METHOD BLANK: 1324896 | Matrix: Water
Associated Lab Samples: 60161956001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/31/14 14:10	

LABORATORY CONTROL SAMPLE: 1324897

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	91	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1324898 1324899

Parameter	Units	60161960002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.4	4.4	88	88	70-130	0	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

QC Batch: MERP/8103
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60161956001

METHOD BLANK: 1324879
Matrix: Water
Associated Lab Samples: 60161956001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	01/31/14 13:52	

LABORATORY CONTROL SAMPLE: 1324880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.5	89	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1324881 1324882

Parameter	Units	60161956001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	98.7	110	66	73	70-130	11	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

QC Batch: MPRP/26007
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60161956001

METHOD BLANK: 1322792
Matrix: Water
Associated Lab Samples: 60161956001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	01/29/14 12:01	
Antimony	ug/L	ND	10.0	01/29/14 12:01	
Arsenic	ug/L	ND	10.0	01/29/14 12:01	
Beryllium	ug/L	ND	1.0	01/29/14 12:01	
Cadmium	ug/L	ND	5.0	01/29/14 12:01	
Chromium	ug/L	ND	5.0	01/29/14 12:01	
Cobalt	ug/L	ND	5.0	01/29/14 12:01	
Copper	ug/L	ND	10.0	01/29/14 12:01	
Iron	ug/L	ND	50.0	01/29/14 12:01	
Lead	ug/L	ND	5.0	01/29/14 12:01	
Nickel	ug/L	ND	5.0	01/29/14 12:01	
Selenium	ug/L	ND	15.0	01/29/14 12:01	
Silver	ug/L	ND	7.0	01/29/14 12:01	
Thallium	ug/L	ND	20.0	01/29/14 12:01	
Zinc	ug/L	ND	50.0	01/29/14 12:01	

LABORATORY CONTROL SAMPLE: 1322793

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9920	99	85-115	
Antimony	ug/L	1000	1010	101	85-115	
Arsenic	ug/L	1000	967	97	85-115	
Beryllium	ug/L	1000	1010	101	85-115	
Cadmium	ug/L	1000	992	99	85-115	
Chromium	ug/L	1000	1000	100	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	997	100	85-115	
Iron	ug/L	10000	10000	100	85-115	
Lead	ug/L	1000	1020	102	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1010	101	85-115	
Silver	ug/L	500	494	99	85-115	
Thallium	ug/L	1000	1040	104	85-115	
Zinc	ug/L	1000	996	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322794 1322795

Parameter	Units	60161839001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	25.4J	10000	10000	10000	9920	100	99	70-130	1	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322794 1322795

Parameter	Units	60161839001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	1000	1000	1020	1020	102	102	70-130	0	7	
Arsenic	ug/L	ND	1000	1000	1010	1000	101	100	70-130	1	10	
Beryllium	ug/L	ND	1000	1000	1030	1030	103	103	70-130	0	7	
Cadmium	ug/L	ND	1000	1000	1010	1010	101	101	70-130	0	10	
Chromium	ug/L	0.86J	1000	1000	982	982	98	98	70-130	0	10	
Cobalt	ug/L	4.2J	1000	1000	1000	1000	100	100	70-130	0	6	
Copper	ug/L	4.1J	1000	1000	1020	1010	101	101	70-130	1	11	
Iron	ug/L	30.5J	10000	10000	9880	9790	98	98	70-130	1	10	
Lead	ug/L	7.3	1000	1000	991	989	98	98	70-130	0	10	
Nickel	ug/L	48.5	1000	1000	1050	1050	100	100	70-130	0	10	
Selenium	ug/L	ND	1000	1000	1110	1120	111	112	70-130	1	10	
Silver	ug/L	1.2J	500	500	494	492	99	98	70-130	0	10	
Thallium	ug/L	ND	1000	1000	970	970	97	97	70-130	0	6	
Zinc	ug/L	159	1000	1000	1140	1130	98	97	70-130	1	11	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1322796 1322797

Parameter	Units	60161892001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	0.018J mg/L	10000	10000	10200	10200	101	102	70-130	0	8	
Antimony	ug/L	ND	1000	1000	1080	1080	107	108	70-130	0	7	
Arsenic	ug/L	0.0067J mg/L	1000	1000	1070	1080	107	107	70-130	0	10	
Beryllium	ug/L	ND	1000	1000	1010	1010	101	101	70-130	0	7	
Cadmium	ug/L	ND	1000	1000	1060	1060	106	106	70-130	0	10	
Chromium	ug/L	0.0011J mg/L	1000	1000	991	988	99	99	70-130	0	10	
Cobalt	ug/L	ND	1000	1000	986	983	99	98	70-130	0	6	
Copper	ug/L	0.031 mg/L	1000	1000	1060	1050	103	102	70-130	0	11	
Iron	ug/L	0.17 mg/L	10000	10000	9890	9960	97	98	70-130	1	10	
Lead	ug/L	ND	1000	1000	950	951	95	95	70-130	0	10	
Nickel	ug/L	0.0098 mg/L	1000	1000	984	981	97	97	70-130	0	10	
Selenium	ug/L	ND	1000	1000	1120	1110	112	111	70-130	1	10	
Silver	ug/L	0.0012J mg/L	500	500	522	521	104	104	70-130	0	10	
Thallium	ug/L	ND	1000	1000	904	904	90	90	70-130	0	6	
Zinc	ug/L	ND	1000	1000	979	976	98	98	70-130	0	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

QC Batch: MPRP/26023
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60161956001

METHOD BLANK: 1323393
Matrix: Water
Associated Lab Samples: 60161956001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	01/29/14 13:14	
Antimony, Dissolved	ug/L	ND	10.0	01/29/14 13:14	
Arsenic, Dissolved	ug/L	ND	10.0	01/29/14 13:14	
Beryllium, Dissolved	ug/L	ND	1.0	01/29/14 13:14	
Cadmium, Dissolved	ug/L	ND	5.0	01/29/14 13:14	
Chromium, Dissolved	ug/L	ND	5.0	01/29/14 13:14	
Cobalt, Dissolved	ug/L	ND	5.0	01/29/14 13:14	
Copper, Dissolved	ug/L	ND	10.0	01/29/14 13:14	
Iron, Dissolved	ug/L	ND	50.0	01/29/14 13:14	
Lead, Dissolved	ug/L	ND	5.0	01/29/14 13:14	
Nickel, Dissolved	ug/L	ND	5.0	01/29/14 13:14	
Selenium, Dissolved	ug/L	ND	15.0	01/29/14 13:14	
Silver, Dissolved	ug/L	ND	7.0	01/29/14 13:14	
Thallium, Dissolved	ug/L	ND	20.0	01/29/14 13:14	
Zinc, Dissolved	ug/L	ND	50.0	01/29/14 13:14	

LABORATORY CONTROL SAMPLE: 1323394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10000	100	85-115	
Antimony, Dissolved	ug/L	1000	1050	105	85-115	
Arsenic, Dissolved	ug/L	1000	1020	102	85-115	
Beryllium, Dissolved	ug/L	1000	1010	101	85-115	
Cadmium, Dissolved	ug/L	1000	1040	104	85-115	
Chromium, Dissolved	ug/L	1000	1010	101	85-115	
Cobalt, Dissolved	ug/L	1000	1050	105	85-115	
Copper, Dissolved	ug/L	1000	998	100	85-115	
Iron, Dissolved	ug/L	10000	9980	100	85-115	
Lead, Dissolved	ug/L	1000	1050	105	85-115	
Nickel, Dissolved	ug/L	1000	1050	105	85-115	
Selenium, Dissolved	ug/L	1000	1040	104	85-115	
Silver, Dissolved	ug/L	500	492	98	85-115	
Thallium, Dissolved	ug/L	1000	1090	109	85-115	
Zinc, Dissolved	ug/L	1000	1020	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1323395 1323396

Parameter	Units	60161839001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	ND	10000	10000	10100	10200	101	102	70-130	1	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1323395 1323396

Parameter	Units	60161839001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	1000	1000	1060	1070	106	106	70-130	1	7	
Arsenic, Dissolved	ug/L	ND	1000	1000	1040	1050	104	105	70-130	1	10	
Beryllium, Dissolved	ug/L	ND	1000	1000	1010	1020	101	102	70-130	1	7	
Cadmium, Dissolved	ug/L	ND	1000	1000	1040	1050	104	105	70-130	1	10	
Chromium, Dissolved	ug/L	ND	1000	1000	994	1000	99	100	70-130	1	10	
Cobalt, Dissolved	ug/L	3.7J	1000	1000	1020	1030	102	103	70-130	1	6	
Copper, Dissolved	ug/L	ND	1000	1000	1010	1020	101	102	70-130	1	11	
Iron, Dissolved	ug/L	12.8J	10000	10000	9820	9910	98	99	70-130	1	10	
Lead, Dissolved	ug/L	4.1J	1000	1000	1030	1030	102	102	70-130	0	10	
Nickel, Dissolved	ug/L	45.6	1000	1000	1060	1070	102	103	70-130	1	10	
Selenium, Dissolved	ug/L	ND	1000	1000	1050	1050	105	105	70-130	0	10	
Silver, Dissolved	ug/L	ND	500	500	499	498	100	99	70-130	0	10	
Thallium, Dissolved	ug/L	ND	1000	1000	1030	1030	103	103	70-130	0	6	
Zinc, Dissolved	ug/L	131	1000	1000	1130	1140	100	100	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

QC Batch: MSV/59176 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60161956001, 60161956002

METHOD BLANK: 1324659 | Matrix: Water
Associated Lab Samples: 60161956001, 60161956002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/30/14 20:25	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/30/14 20:25	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/30/14 20:25	
1,2-Dichloroethane	ug/L	ND	1.0	01/30/14 20:25	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/30/14 20:25	
2-Butanone (MEK)	ug/L	ND	10.0	01/30/14 20:25	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/30/14 20:25	N2
Acetone	ug/L	ND	10.0	01/30/14 20:25	N2
Benzene	ug/L	ND	1.0	01/30/14 20:25	
Bromodichloromethane	ug/L	ND	1.0	01/30/14 20:25	
Bromoform	ug/L	ND	1.0	01/30/14 20:25	
Bromomethane	ug/L	ND	5.0	01/30/14 20:25	
Carbon tetrachloride	ug/L	ND	1.0	01/30/14 20:25	
Chloroethane	ug/L	ND	1.0	01/30/14 20:25	
Chloroform	ug/L	ND	1.0	01/30/14 20:25	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/30/14 20:25	N2
Ethylbenzene	ug/L	ND	1.0	01/30/14 20:25	
Methylene chloride	ug/L	ND	1.0	01/30/14 20:25	
Tetrachloroethene	ug/L	ND	1.0	01/30/14 20:25	
Toluene	ug/L	ND	1.0	01/30/14 20:25	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/30/14 20:25	
Trichloroethene	ug/L	ND	1.0	01/30/14 20:25	
Vinyl chloride	ug/L	ND	1.0	01/30/14 20:25	
Xylene (Total)	ug/L	ND	3.0	01/30/14 20:25	N2
1,2-Dichloroethane-d4 (S)	%	104	80-120	01/30/14 20:25	
4-Bromofluorobenzene (S)	%	101	80-120	01/30/14 20:25	
Toluene-d8 (S)	%	101	80-120	01/30/14 20:25	

LABORATORY CONTROL SAMPLE: 1324660

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.6	93	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	59-138	N2
1,1,2-Trichloroethane	ug/L	20	20.1	101	69-127	
1,2-Dichloroethane	ug/L	20	18.8	94	71-129	
1,4-Dichlorobenzene	ug/L	20	19.7	98	68-124	
2-Butanone (MEK)	ug/L	100	113	113	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	91.3	91	61-120	N2
Acetone	ug/L	100	118	118	40-160	N2
Benzene	ug/L	20	18.9	94	73-129	
Bromodichloromethane	ug/L	20	19.5	97	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

LABORATORY CONTROL SAMPLE: 1324660

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	21.1	105	52-123	
Bromomethane	ug/L	20	18.1	91	10-160	
Carbon tetrachloride	ug/L	20	19.0	95	70-140	
Chloroethane	ug/L	20	18.7	94	42-160	
Chloroform	ug/L	20	19.4	97	60-120	
cis-1,2-Dichloroethene	ug/L	20	18.6	93	70-125	N2
Ethylbenzene	ug/L	20	19.1	96	66-133	
Methylene chloride	ug/L	20	18.7	93	56-135	
Tetrachloroethene	ug/L	20	18.9	94	64-143	
Toluene	ug/L	20	18.4	92	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.7	94	67-149	
Trichloroethene	ug/L	20	18.8	94	71-130	
Vinyl chloride	ug/L	20	17.6	88	41-160	
Xylene (Total)	ug/L	60	57.7	96	67-130	N2
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			98	80-120	

MATRIX SPIKE SAMPLE: 1324661

Parameter	Units	60161912001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4510	113	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4070	102	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4520	113	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3900	98	49-155	
1,4-Dichlorobenzene	ug/L	683	4000	4860	105	18-147	
2-Butanone (MEK)	ug/L	102000	20000	127000	128	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	2940	20000	23900	105	40-160	N2
Acetone	ug/L	157000	20000	241000	418	40-160	M1,N2
Benzene	ug/L	ND	4000	4340	107	37-151	
Bromodichloromethane	ug/L	ND	4000	4310	108	35-155	
Bromoform	ug/L	ND	4000	4170	104	45-133	
Bromomethane	ug/L	ND	4000	4080	101	10-160	
Carbon tetrachloride	ug/L	ND	4000	4860	122	70-140	
Chloroethane	ug/L	ND	4000	4680	117	14-160	
Chloroform	ug/L	ND	4000	4350	109	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	4250	106	19-160	N2
Ethylbenzene	ug/L	ND	4000	4320	106	37-154	
Methylene chloride	ug/L	ND	4000	3950	99	15-156	
Tetrachloroethene	ug/L	ND	4000	4480	111	64-148	
Toluene	ug/L	ND	4000	4190	104	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4280	107	54-156	
Trichloroethene	ug/L	ND	4000	4250	106	71-157	
Vinyl chloride	ug/L	ND	4000	4320	108	10-160	
Xylene (Total)	ug/L	ND	12000	13100	109	12-153	N2
1,2-Dichloroethane-d4 (S)	%				102	80-120	
4-Bromofluorobenzene (S)	%				100	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

MATRIX SPIKE SAMPLE: 1324661

Parameter	Units	60161912001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				99	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

QC Batch: MSV/59192
QC Batch Method: EPA 624 Low
Analysis Method: EPA 624 Low
Analysis Description: 624 MSV
Associated Lab Samples: 60161956001

METHOD BLANK: 1324955
Matrix: Water
Associated Lab Samples: 60161956001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acetone	ug/L	ND	10.0	01/31/14 11:01	N2
1,2-Dichloroethane-d4 (S)	%	107	80-120	01/31/14 11:01	
4-Bromofluorobenzene (S)	%	96	80-120	01/31/14 11:01	
Toluene-d8 (S)	%	103	80-120	01/31/14 11:01	

LABORATORY CONTROL SAMPLE: 1324956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	100	110	110	40-160	N2
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1324957

Parameter	Units	60162136001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%				100	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	
Toluene-d8 (S)	%				98	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

QC Batch: OEXT/42457 | Analysis Method: EPA 625
QC Batch Method: EPA 625 | Analysis Description: 625 MSS
Associated Lab Samples: 60161956001

METHOD BLANK: 1323522 | Matrix: Water
Associated Lab Samples: 60161956001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	01/30/14 09:28	
2,4,6-Trichlorophenol	ug/L	ND	5.0	01/30/14 09:28	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	01/30/14 09:28	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	01/30/14 09:28	
Hexachlorocyclopentadiene	ug/L	ND	5.0	01/30/14 09:28	
Hexachloroethane	ug/L	ND	5.0	01/30/14 09:28	
Naphthalene	ug/L	ND	5.0	01/30/14 09:28	
Nitrobenzene	ug/L	ND	5.0	01/30/14 09:28	
Pentachlorophenol	ug/L	ND	5.0	01/30/14 09:28	
Phenol	ug/L	ND	5.0	01/30/14 09:28	
2,4,6-Tribromophenol (S)	%	89	39-120	01/30/14 09:28	
2-Fluorobiphenyl (S)	%	83	39-120	01/30/14 09:28	
2-Fluorophenol (S)	%	39	17-120	01/30/14 09:28	
Nitrobenzene-d5 (S)	%	78	33-120	01/30/14 09:28	
Phenol-d6 (S)	%	23	11-120	01/30/14 09:28	
Terphenyl-d14 (S)	%	83	45-120	01/30/14 09:28	

LABORATORY CONTROL SAMPLE: 1323523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	40.7	81	46-120	
2,4,6-Trichlorophenol	ug/L	50	44.6	89	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	49.1	98	40-133	
Hexachloro-1,3-butadiene	ug/L	50	40.7	81	44-116	
Hexachlorocyclopentadiene	ug/L	100	55.6	56	24-120	
Hexachloroethane	ug/L	50	39.3	79	43-113	
Naphthalene	ug/L	50	41.4	83	48-120	
Nitrobenzene	ug/L	50	39.4	79	48-120	
Pentachlorophenol	ug/L	50	40.1	80	47-120	
Phenol	ug/L	50	13.2	26	16-112	
2,4,6-Tribromophenol (S)	%			95	39-120	
2-Fluorobiphenyl (S)	%			89	39-120	
2-Fluorophenol (S)	%			41	17-120	
Nitrobenzene-d5 (S)	%			79	33-120	
Phenol-d6 (S)	%			24	11-120	
Terphenyl-d14 (S)	%			93	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

MATRIX SPIKE SAMPLE: 1323524

Parameter	Units	60161955001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	4400	88	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4850	97	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	5440	109	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4630	93	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	7310	73	11-120	
Hexachloroethane	ug/L	ND	5000	4040	81	40-113	
Naphthalene	ug/L	1250	5000	5190	79	45-120	
Nitrobenzene	ug/L	ND	5000	4600	92	38-120	
Pentachlorophenol	ug/L	ND	5000	5810	116	43-135	
Phenol	ug/L	13400	5000	12100	-26	13-112	M1
2,4,6-Tribromophenol (S)	%				109	39-120	
2-Fluorobiphenyl (S)	%				92	39-120	
2-Fluorophenol (S)	%				49	17-120	
Nitrobenzene-d5 (S)	%				156	33-120	S0
Phenol-d6 (S)	%				40	11-120	
Terphenyl-d14 (S)	%				90	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

QC Batch: WET/45887
QC Batch Method: EPA 1664A
Analysis Method: EPA 1664A
Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60161956001

METHOD BLANK: 1324431
Matrix: Water
Associated Lab Samples: 60161956001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/30/14 15:15	

LABORATORY CONTROL SAMPLE: 1324432

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	33.5	84	78-114	

MATRIX SPIKE SAMPLE: 1324433

Parameter	Units	60161067001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40.4	41.1	95	78-114	

SAMPLE DUPLICATE: 1324434

Parameter	Units	60161912001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	932	1100	16	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

QC Batch: WET/45934 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 SGT-HEM, TPH
Associated Lab Samples: 60161956001

METHOD BLANK: 1325928 | Matrix: Water
Associated Lab Samples: 60161956001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	02/03/14 10:22	

LABORATORY CONTROL SAMPLE: 1325929

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	16.3	82	64-132	

MATRIX SPIKE SAMPLE: 1325930

Parameter	Units	60161930001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	21.3	17.4	77	64-132	

SAMPLE DUPLICATE: 1325931

Parameter	Units	60161893001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	ND		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

QC Batch: WET/45844 | Analysis Method: SM 2540D
QC Batch Method: SM 2540D | Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60161956001

METHOD BLANK: 1323619 | Matrix: Water
Associated Lab Samples: 60161956001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	01/31/14 10:03	

SAMPLE DUPLICATE: 1323620

Parameter	Units	60161843002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	14.0	14.0	0	10	H1

SAMPLE DUPLICATE: 1323621

Parameter	Units	60161912001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2580	2340	10	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

QC Batch: WET/45922
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 60161956001

SAMPLE DUPLICATE: 1325419

Parameter	Units	60161989001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.4	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

QC Batch: WET/45818 | Analysis Method: SM 5210B
QC Batch Method: SM 5210B | Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 60161956001

METHOD BLANK: 1322737 | Matrix: Water
Associated Lab Samples: 60161956001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	02/01/14 11:27	

LABORATORY CONTROL SAMPLE: 1322738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	205	103	85-115	

SAMPLE DUPLICATE: 1322739

Parameter	Units	60161955001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	32700	35200	7	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

QC Batch: WETA/27945 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60161956001

METHOD BLANK: 1323113 | Matrix: Water
Associated Lab Samples: 60161956001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	01/28/14 17:15	

LABORATORY CONTROL SAMPLE: 1323114

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1323115

Parameter	Units	60161638003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.27	2	2.3	101	90-110	

MATRIX SPIKE SAMPLE: 1323116

Parameter	Units	60161643002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.69	2	2.7	99	90-110	

SAMPLE DUPLICATE: 1323117

Parameter	Units	60161659001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.15	0.14	5	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

QC Batch: WETA/28006 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 60161956001

METHOD BLANK: 1324702 | Matrix: Water
Associated Lab Samples: 60161956001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/03/14 07:50	

LABORATORY CONTROL SAMPLE: 1324703

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	50.1	100	90-110	

MATRIX SPIKE SAMPLE: 1324704

Parameter	Units	60161731001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	72.9	50	119	92	90-110	

MATRIX SPIKE SAMPLE: 1324706

Parameter	Units	60161729001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	5000	2500	7300	92	90-110	

SAMPLE DUPLICATE: 1324705

Parameter	Units	60161955001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	56600	56300	1	25	

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QUALIFIERS

Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

ANALYTE QUALIFIERS

D9	Dissolved result is greater than the total. Data is within laboratory control limits.
H1	Analysis conducted outside the EPA method holding time.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LANDFILL 316-204
Pace Project No.: 60161956

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60161956001	**316-204**	EPA 200.7	MPRP/26007	EPA 200.7	ICP/19908
60161956001	**316-204**	EPA 200.7	MPRP/26023	EPA 200.7	ICP/19907
60161956001	**316-204**	EPA 245.1	MERP/8104	EPA 245.1	MERC/8058
60161956001	**316-204**	EPA 245.1	MERP/8103	EPA 245.1	MERC/8057
60161956001	**316-204**	EPA 625	OEXT/42457	EPA 625	MSSV/13509
60161956001	**316-204**	EPA 624 Low	MSV/59176		
60161956001	**316-204**	EPA 624 Low	MSV/59192		
60161956002	**TRIP BLANK**	EPA 624 Low	MSV/59176		
60161956001	**316-204**	EPA 1664A	WET/45887		
60161956001	**316-204**	EPA 1664A	WET/45934		
60161956001	**316-204**	SM 2540D	WET/45844		
60161956001	**316-204**	SM 4500-H+B	WET/45922		
60161956001	**316-204**	SM 5210B	WET/45818	SM 5210B	WET/45937
60161956001	**316-204**	EPA 350.1	WETA/27945		
60161956001	**316-204**	EPA 410.4	WETA/28006		

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WO#: 60161956

60161956

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Sample Condition Upon Receipt

Optional
Proj Due Date:
Proj Name:

Client Name: BARR

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

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☒

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Other ☒ zip

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 1.2

Date and initials of person examining contents: 8/1/27/14

Temperature should be above freezing to 6°C

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 & signature on COC:	☒Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☒Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☒Yes ☐No ☐N/A	6. BOD, pH
Rush Turn Around Time requested:	☐Yes ☒No ☐N/A	7.
Sufficient volume:	☒Yes ☐No ☐N/A	8.
Correct containers used:	☒Yes ☐No ☐N/A	
Pace containers used:	☒Yes ☐No ☐N/A	9.
Containers intact:	☒Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☒N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☒N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: WW	☒Yes ☐No ☐N/A	13. (2.5)
All containers needing preservation have been checked.	☒Yes ☐No ☐N/A	Added hno3 to 316-204 BP3N 5.0/4.0
All containers needing preservation are found to be in compliance with EPA recommendation.	8/27 ~~☐Yes~~ ☐No ☐N/A	Added h2so4 to 316-204 BP3S 5.0/3.0 (2.0) 14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☐Yes ☐No	Initial when completed: S Lot # of added preservative: 12513 12518
Trip Blank present: Pace Trip Blank lot # (if purchased): Unused	☒Yes ☐No ☐N/A	15.
Headspace in VOA vials (>6mm):	☒Yes ☐No ☐N/A	16. 1 of 5 VOA
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: MW for (AKB) Date: 1/27/14

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A — Required Client Information:

Company:	BARR ENGINEERING
Address:	
Email To:	
Phone:	(816) 285-8410 Fax
Requested Due Date/TAT:	10 Day (Default)

Section B — Required Project Information:

Report To:	ED GALBRAITH/BARR
Copy To:	SCOTT FEDAK/FEEZOR
	DANA BAKER/MARGARET TREANOR -BARR
Purchase Order No.	PO 3727110
Client Project ID:	BRIDGETON LF
Container Order Number:	

Section C — Invoice Information:

Attention:	AMY HARGROVE/BRIAN POWER
Company Name:	REPUBLIC SERVICES
Address:	BRIDGETON, MO 63044
Pace Quote Reference:	130426_7588
Pace Project Manager:	Brown, Angie
Pace Profile #:	6787 LINE 2

Regulatory Agency	
State / Location	Missouri

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

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N): COD EPA 410	pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B	Residual Chlorine (Y/N)	60161956
1	316-204 3(AG3S) 5(DG9U)	OT	G			1/27/14	7:35		14	10	4	1	0					X	X	X	X	X	X	X	X	X	X	X	3(AG4U) 3(BP2U) BP3N, BP3S w/ BP3U,	
2	TRIP BLANK								2	2															X					
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

METALS LIST total & LF Dis: Al,Sb,As,Be,Cd,Cr, Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn and Mercury

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
SITE CONTACT: BILL ABERNATHY 314-502-1299	Hunter King	1/27/14		Bell Stone 4/12	1-27-14	8:50
SITE ADDRESS: BRIDGETON LF				Sudeh McKee / PASI	1/27/14	1250
13570 ST. CHARLES ROCK RD						
BRIDGETON MO 63044						

SAMPLE CONDITIONS	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	1.2	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Hunter King

SIGNATURE of SAMPLER: Hunter King

DATE Signed: 1/27/14

Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

February 07, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 30, 2014. 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,

Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

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CERTIFICATIONS

Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60162136001	**316-205R6**	Water	01/29/14 11:30	01/30/14 01:25
60162136002	**TRIP BLANK**	Water	01/29/14 11:30	01/30/14 01:25

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60162136001	**316-205R6**	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TJT	1
		EPA 245.1	TDS	1
		EPA 625	JMT	16
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC	1
		SM 4500-H+B	RAH	1
		SM 5210B	JML	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC	1
60162136002	**TRIP BLANK**	EPA 624 Low	EAK	28

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

Sample: 316-205R6 **Lab ID: 60162136001** Collected: 01/29/14 11:30 Received: 01/30/14 01:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	**3830**	ug/L	750	2	02/05/14 14:15	02/06/14 12:00	7429-90-5	
Antimony	**61.9**	ug/L	50.0	1	02/05/14 14:15	02/06/14 11:57	7440-36-0	
Arsenic	**816**	ug/L	50.0	1	02/05/14 14:15	02/06/14 11:57	7440-38-2	
Beryllium	ND	ug/L	5.0	1	02/05/14 14:15	02/06/14 11:57	7440-41-7	
Cadmium	ND	ug/L	25.0	1	02/05/14 14:15	02/06/14 11:57	7440-43-9	
Chromium	**193**	ug/L	25.0	1	02/05/14 14:15	02/06/14 11:57	7440-47-3	
Cobalt	**27.1**	ug/L	25.0	1	02/05/14 14:15	02/06/14 11:57	7440-48-4	
Copper	ND	ug/L	50.0	1	02/05/14 14:15	02/06/14 11:57	7440-50-8	
Iron	**455000**	ug/L	250	1	02/05/14 14:15	02/06/14 11:57	7439-89-6	
Lead	**77.0**	ug/L	25.0	1	02/05/14 14:15	02/06/14 11:57	7439-92-1	
Nickel	**72.4**	ug/L	25.0	1	02/05/14 14:15	02/06/14 11:57	7440-02-0	
Selenium	ND	ug/L	75.0	1	02/05/14 14:15	02/06/14 11:57	7782-49-2	
Silver	ND	ug/L	35.0	1	02/05/14 14:15	02/06/14 11:57	7440-22-4	
Thallium	ND	ug/L	100	1	02/05/14 14:15	02/06/14 11:57	7440-28-0	
Zinc	**6120**	ug/L	500	2	02/05/14 14:15	02/06/14 12:00	7440-66-6	
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	**1630**	ug/L	375	1	02/05/14 14:15	02/06/14 11:03	7429-90-5	
Antimony, Dissolved	ND	ug/L	50.0	1	02/05/14 14:15	02/06/14 11:03	7440-36-0	
Arsenic, Dissolved	**521**	ug/L	50.0	1	02/05/14 14:15	02/06/14 11:03	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	02/05/14 14:15	02/06/14 11:03	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	02/05/14 14:15	02/06/14 11:03	7440-43-9	
Chromium, Dissolved	**133**	ug/L	25.0	1	02/05/14 14:15	02/06/14 11:03	7440-47-3	
Cobalt, Dissolved	ND	ug/L	25.0	1	02/05/14 14:15	02/06/14 11:03	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	02/05/14 14:15	02/06/14 11:03	7440-50-8	
Iron, Dissolved	**399000**	ug/L	250	1	02/05/14 14:15	02/06/14 11:03	7439-89-6	
Lead, Dissolved	**42.3**	ug/L	25.0	1	02/05/14 14:15	02/06/14 11:03	7439-92-1	
Nickel, Dissolved	**53.8**	ug/L	25.0	1	02/05/14 14:15	02/06/14 11:03	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	02/05/14 14:15	02/06/14 11:03	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	02/05/14 14:15	02/06/14 11:03	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	02/05/14 14:15	02/06/14 11:03	7440-28-0	
Zinc, Dissolved	**3650**	ug/L	250	1	02/05/14 14:15	02/06/14 11:03	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**35.4**	ug/L	6.0	1	01/31/14 10:45	01/31/14 14:34	7439-97-6	
245.1 Mercury, Dissolved (LF)	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	6.0	1	02/05/14 12:00	02/06/14 10:44	7439-97-6	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	02/03/14 00:00	02/04/14 09:43	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	02/03/14 00:00	02/04/14 09:43	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	02/03/14 00:00	02/04/14 09:43	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	02/03/14 00:00	02/04/14 09:43	67-72-1	
Naphthalene	**3400**	ug/L	1000	2	02/03/14 00:00	02/04/14 09:43	91-20-3	M1
Nitrobenzene	ND	ug/L	1000	2	02/03/14 00:00	02/04/14 09:43	98-95-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

Sample: 316-205R6 **Lab ID: 60162136001** Collected: 01/29/14 11:30 Received: 01/30/14 01:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Pentachlorophenol	ND	ug/L	1000	2	02/03/14 00:00	02/04/14 09:43	87-86-5	
Phenol	**10300**	ug/L	1000	2	02/03/14 00:00	02/04/14 09:43	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	1000	2	02/03/14 00:00	02/04/14 09:43	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	1000	2	02/03/14 00:00	02/04/14 09:43	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	134	%	33-120	2	02/03/14 00:00	02/04/14 09:43	4165-60-0	S0
2-Fluorobiphenyl (S)	82	%	39-120	2	02/03/14 00:00	02/04/14 09:43	321-60-8	
Terphenyl-d14 (S)	76	%	45-120	2	02/03/14 00:00	02/04/14 09:43	1718-51-0	
Phenol-d6 (S)	60	%	11-120	2	02/03/14 00:00	02/04/14 09:43	13127-88-3	
2-Fluorophenol (S)	55	%	17-120	2	02/03/14 00:00	02/04/14 09:43	367-12-4	
2,4,6-Tribromophenol (S)	105	%	39-120	2	02/03/14 00:00	02/04/14 09:43	118-79-6	
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	**125000**	ug/L	2500	250		02/03/14 16:30	67-64-1	HS, M1, N2
Benzene	ND	ug/L	200	200		01/31/14 12:30	71-43-2	
Bromodichloromethane	ND	ug/L	200	200		01/31/14 12:30	75-27-4	
Bromoform	ND	ug/L	200	200		01/31/14 12:30	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/31/14 12:30	74-83-9	
2-Butanone (MEK)	**115000**	ug/L	2000	200		01/31/14 12:30	78-93-3	N2
Carbon tetrachloride	ND	ug/L	200	200		01/31/14 12:30	56-23-5	
Chloroethane	ND	ug/L	200	200		01/31/14 12:30	75-00-3	
Chloroform	ND	ug/L	200	200		01/31/14 12:30	67-66-3	
1,4-Dichlorobenzene	**2220**	ug/L	200	200		01/31/14 12:30	106-46-7	
1,2-Dichloroethane	ND	ug/L	200	200		01/31/14 12:30	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/31/14 12:30	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/31/14 12:30	156-60-5	
Ethylbenzene	**260**	ug/L	200	200		01/31/14 12:30	100-41-4	
Methylene chloride	ND	ug/L	200	200		01/31/14 12:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	**3810**	ug/L	2000	200		01/31/14 12:30	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		01/31/14 12:30	79-34-5	N2
Tetrachloroethene	ND	ug/L	200	200		01/31/14 12:30	127-18-4	
Toluene	ND	ug/L	200	200		01/31/14 12:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/31/14 12:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		01/31/14 12:30	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/31/14 12:30	79-01-6	
Vinyl chloride	ND	ug/L	200	200		01/31/14 12:30	75-01-4	
Xylene (Total)	**1210**	ug/L	600	200		01/31/14 12:30	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	99	%	80-120	200		01/31/14 12:30	460-00-4	
Toluene-d8 (S)	100	%	80-120	200		01/31/14 12:30	2037-26-5	
1,2-Dichloroethane-d4 (S)	104	%	80-120	200		01/31/14 12:30	17060-07-0	
Preservation pH	**6.0**		1.0	200		01/31/14 12:30		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	**2130**	mg/L	5.0	1		02/03/14 10:30		D6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

Sample: 316-205R6 **Lab ID: 60162136001** Collected: 01/29/14 11:30 Received: 01/30/14 01:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	**44.8**	mg/L	5.0	1		02/06/14 10:08		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**3920**	mg/L	5.0	1		02/03/14 10:54		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**5.3**	Std. Units	0.10	1		02/01/14 10:52		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**29900**	mg/L	2.0	1	01/31/14 09:24	02/05/14 13:58		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**699**	mg/L	20.0	200		02/03/14 14:09	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**60300**	mg/L	5000	500		02/05/14 08:03		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

Sample: TRIP BLANK **Lab ID: 60162136002** Collected: 01/29/14 11:30 Received: 01/30/14 01:25 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	ND	ug/L	10.0	1		01/31/14 13:00	67-64-1	N2
Benzene	ND	ug/L	1.0	1		01/31/14 13:00	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		01/31/14 13:00	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/31/14 13:00	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/31/14 13:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/31/14 13:00	78-93-3	N2
Carbon tetrachloride	ND	ug/L	1.0	1		01/31/14 13:00	56-23-5	
Chloroethane	ND	ug/L	1.0	1		01/31/14 13:00	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/31/14 13:00	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/31/14 13:00	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/31/14 13:00	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/31/14 13:00	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/31/14 13:00	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/31/14 13:00	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		01/31/14 13:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/31/14 13:00	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/31/14 13:00	79-34-5	N2
Tetrachloroethene	ND	ug/L	1.0	1		01/31/14 13:00	127-18-4	
Toluene	ND	ug/L	1.0	1		01/31/14 13:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/31/14 13:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/31/14 13:00	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/31/14 13:00	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/31/14 13:00	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/31/14 13:00	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	1		01/31/14 13:00	460-00-4	
Toluene-d8 (S)	105	%	80-120	1		01/31/14 13:00	2037-26-5	
1,2-Dichloroethane-d4 (S)	109	%	80-120	1		01/31/14 13:00	17060-07-0	
Preservation pH	**6.0**		1.0	1		01/31/14 13:00		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

QC Batch: MERP/8104 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury
Associated Lab Samples: 60162136001

METHOD BLANK: 1324896 | Matrix: Water
Associated Lab Samples: 60162136001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/31/14 14:10	

LABORATORY CONTROL SAMPLE: 1324897

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	91	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1324898 1324899

Parameter	Units	60161960002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.4	4.4	88	88	70-130	0	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

QC Batch: MERP/8111 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60162136001

METHOD BLANK: 1326614 | Matrix: Water
Associated Lab Samples: 60162136001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/06/14 10:37	

LABORATORY CONTROL SAMPLE: 1326615

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.1	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1326616 1326617

Parameter	Units	60162293001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	142	151	94	100	70-130	6	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

QC Batch: MPRP/26072
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60162136001

METHOD BLANK: 1326654
Matrix: Water
Associated Lab Samples: 60162136001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	02/06/14 11:55	
Antimony	ug/L	ND	10.0	02/06/14 11:55	
Arsenic	ug/L	ND	10.0	02/06/14 11:55	
Beryllium	ug/L	ND	1.0	02/06/14 11:55	
Cadmium	ug/L	ND	5.0	02/06/14 11:55	
Chromium	ug/L	ND	5.0	02/06/14 11:55	
Cobalt	ug/L	ND	5.0	02/06/14 11:55	
Copper	ug/L	ND	10.0	02/06/14 11:55	
Iron	ug/L	ND	50.0	02/06/14 11:55	
Lead	ug/L	ND	5.0	02/06/14 11:55	
Nickel	ug/L	ND	5.0	02/06/14 11:55	
Selenium	ug/L	ND	15.0	02/06/14 11:55	
Silver	ug/L	ND	7.0	02/06/14 11:55	
Thallium	ug/L	ND	20.0	02/06/14 11:55	
Zinc	ug/L	ND	50.0	02/06/14 11:55	

LABORATORY CONTROL SAMPLE: 1326655

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9500	95	85-115	
Antimony	ug/L	1000	992	99	85-115	
Arsenic	ug/L	1000	938	94	85-115	
Beryllium	ug/L	1000	970	97	85-115	
Cadmium	ug/L	1000	970	97	85-115	
Chromium	ug/L	1000	965	96	85-115	
Cobalt	ug/L	1000	1010	101	85-115	
Copper	ug/L	1000	961	96	85-115	
Iron	ug/L	10000	9680	97	85-115	
Lead	ug/L	1000	1010	101	85-115	
Nickel	ug/L	1000	1010	101	85-115	
Selenium	ug/L	1000	979	98	85-115	
Silver	ug/L	500	487	97	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	995	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1326656 1326657

Parameter	Units	60162293001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	2850	50000	50000	55100	69800	104	134	70-130	24	8	M1,R1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1326656 1326657

Parameter	Units	60162293001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	5000	5000	5240	5320	104	106	70-130	2	7	
Arsenic	ug/L	838	5000	5000	6040	6520	104	114	70-130	8	10	
Beryllium	ug/L	ND	5000	5000	4720	4680	94	94	70-130	1	7	
Cadmium	ug/L	ND	5000	5000	5060	5130	101	103	70-130	1	10	
Chromium	ug/L	196	5000	5000	4870	4890	94	94	70-130	0	10	
Cobalt	ug/L	29.5	5000	5000	4770	4730	95	94	70-130	1	6	
Copper	ug/L	ND	5000	5000	5080	5100	102	102	70-130	0	11	
Iron	ug/L	530000	50000	50000	644000	859000	227	657	70-130	29	10	M1,R1
Lead	ug/L	47.2	5000	5000	4530	4480	90	89	70-130	1	10	
Nickel	ug/L	76.8	5000	5000	4740	4720	93	93	70-130	0	10	
Selenium	ug/L	ND	5000	5000	5690	5920	114	118	70-130	4	10	
Silver	ug/L	ND	2500	2500	2560	2540	102	101	70-130	1	10	
Thallium	ug/L	ND	5000	5000	4070	3980	81	80	70-130	2	6	
Zinc	ug/L	4710	5000	5000	9120	14300	88	192	70-130	44	11	M1,R1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

QC Batch: MPRP/26071
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60162136001

METHOD BLANK: 1326650
Matrix: Water
Associated Lab Samples: 60162136001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	02/06/14 10:58	
Antimony, Dissolved	ug/L	ND	10.0	02/06/14 10:58	
Arsenic, Dissolved	ug/L	ND	10.0	02/06/14 10:58	
Beryllium, Dissolved	ug/L	ND	1.0	02/06/14 10:58	
Cadmium, Dissolved	ug/L	ND	5.0	02/06/14 10:58	
Chromium, Dissolved	ug/L	ND	5.0	02/06/14 10:58	
Cobalt, Dissolved	ug/L	ND	5.0	02/06/14 10:58	
Copper, Dissolved	ug/L	ND	10.0	02/06/14 10:58	
Iron, Dissolved	ug/L	ND	50.0	02/06/14 10:58	
Lead, Dissolved	ug/L	ND	5.0	02/06/14 10:58	
Nickel, Dissolved	ug/L	ND	5.0	02/06/14 10:58	
Selenium, Dissolved	ug/L	ND	15.0	02/06/14 10:58	
Silver, Dissolved	ug/L	ND	7.0	02/06/14 10:58	
Thallium, Dissolved	ug/L	ND	20.0	02/06/14 10:58	
Zinc, Dissolved	ug/L	ND	50.0	02/06/14 10:58	

LABORATORY CONTROL SAMPLE: 1326651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9460	95	85-115	
Antimony, Dissolved	ug/L	1000	986	99	85-115	
Arsenic, Dissolved	ug/L	1000	936	94	85-115	
Beryllium, Dissolved	ug/L	1000	970	97	85-115	
Cadmium, Dissolved	ug/L	1000	966	97	85-115	
Chromium, Dissolved	ug/L	1000	978	98	85-115	
Cobalt, Dissolved	ug/L	1000	1000	100	85-115	
Copper, Dissolved	ug/L	1000	963	96	85-115	
Iron, Dissolved	ug/L	10000	9800	98	85-115	
Lead, Dissolved	ug/L	1000	1010	101	85-115	
Nickel, Dissolved	ug/L	1000	1000	100	85-115	
Selenium, Dissolved	ug/L	1000	981	98	85-115	
Silver, Dissolved	ug/L	500	490	98	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	993	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1326652 1326653

Parameter	Units	60162293001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	1950	50000	50000	51300	51100	99	98	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1326652 1326653

Parameter	Units	60162293001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	58.1	5000	5000	5300	5280	105	104	70-130	1	7	
Arsenic, Dissolved	ug/L	748	5000	5000	6190	6140	109	108	70-130	1	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	4800	4750	96	95	70-130	1	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5120	5090	102	102	70-130	1	10	
Chromium, Dissolved	ug/L	171	5000	5000	4920	4880	95	94	70-130	1	10	
Cobalt, Dissolved	ug/L	26.1	5000	5000	4790	4760	95	95	70-130	1	6	
Copper, Dissolved	ug/L	ND	5000	5000	5130	5120	103	102	70-130	0	11	
Iron, Dissolved	ug/L	513000	50000	50000	622000	642000	219	258	70-130	3	10	M1
Lead, Dissolved	ug/L	50.8	5000	5000	4560	4520	90	89	70-130	1	10	
Nickel, Dissolved	ug/L	71.2	5000	5000	4800	4740	95	93	70-130	1	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5810	5760	116	115	70-130	1	10	
Silver, Dissolved	ug/L	ND	2500	2500	2620	2620	105	105	70-130	0	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4120	4090	82	82	70-130	1	6	
Zinc, Dissolved	ug/L	4010	5000	5000	9420	9340	108	107	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

QC Batch: MSV/59192 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60162136001, 60162136002

METHOD BLANK: 1324955 | Matrix: Water
Associated Lab Samples: 60162136001, 60162136002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/31/14 11:01	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/31/14 11:01	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/31/14 11:01	
1,2-Dichloroethane	ug/L	ND	1.0	01/31/14 11:01	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/31/14 11:01	
2-Butanone (MEK)	ug/L	ND	10.0	01/31/14 11:01	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/31/14 11:01	N2
Acetone	ug/L	ND	10.0	01/31/14 11:01	N2
Benzene	ug/L	ND	1.0	01/31/14 11:01	
Bromodichloromethane	ug/L	ND	1.0	01/31/14 11:01	
Bromoform	ug/L	ND	1.0	01/31/14 11:01	
Bromomethane	ug/L	ND	5.0	01/31/14 11:01	
Carbon tetrachloride	ug/L	ND	1.0	01/31/14 11:01	
Chloroethane	ug/L	ND	1.0	01/31/14 11:01	
Chloroform	ug/L	ND	1.0	01/31/14 11:01	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/31/14 11:01	N2
Ethylbenzene	ug/L	ND	1.0	01/31/14 11:01	
Methylene chloride	ug/L	ND	1.0	01/31/14 11:01	
Tetrachloroethene	ug/L	ND	1.0	01/31/14 11:01	
Toluene	ug/L	ND	1.0	01/31/14 11:01	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/31/14 11:01	
Trichloroethene	ug/L	ND	1.0	01/31/14 11:01	
Vinyl chloride	ug/L	ND	1.0	01/31/14 11:01	
Xylene (Total)	ug/L	ND	3.0	01/31/14 11:01	N2
1,2-Dichloroethane-d4 (S)	%	107	80-120	01/31/14 11:01	
4-Bromofluorobenzene (S)	%	96	80-120	01/31/14 11:01	
Toluene-d8 (S)	%	103	80-120	01/31/14 11:01	

LABORATORY CONTROL SAMPLE: 1324956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.5	93	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	59-138	N2
1,1,2-Trichloroethane	ug/L	20	19.4	97	69-127	
1,2-Dichloroethane	ug/L	20	18.3	91	71-129	
1,4-Dichlorobenzene	ug/L	20	19.9	100	68-124	
2-Butanone (MEK)	ug/L	100	105	105	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	88.6	89	61-120	N2
Acetone	ug/L	100	110	110	40-160	N2
Benzene	ug/L	20	18.9	94	73-129	
Bromodichloromethane	ug/L	20	19.3	96	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

LABORATORY CONTROL SAMPLE: 1324956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.8	99	52-123	
Bromomethane	ug/L	20	18.3	92	10-160	
Carbon tetrachloride	ug/L	20	19.3	96	70-140	
Chloroethane	ug/L	20	17.6	88	42-160	
Chloroform	ug/L	20	19.0	95	60-120	
cis-1,2-Dichloroethene	ug/L	20	18.5	93	70-125	N2
Ethylbenzene	ug/L	20	19.3	96	66-133	
Methylene chloride	ug/L	20	18.3	91	56-135	
Tetrachloroethene	ug/L	20	19.6	98	64-143	
Toluene	ug/L	20	18.6	93	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.9	90	67-149	
Trichloroethene	ug/L	20	18.7	93	71-130	
Vinyl chloride	ug/L	20	17.5	87	41-160	
Xylene (Total)	ug/L	60	58.3	97	67-130	N2
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1324957

Parameter	Units	60162136001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4100	103	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4220	106	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4110	103	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3600	90	49-155	
1,4-Dichlorobenzene	ug/L	2220	4000	6040	95	18-147	
2-Butanone (MEK)	ug/L	115000	20000	125000	49	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	3810	20000	20900	85	40-160	N2
Benzene	ug/L	ND	4000	3910	98	37-151	
Bromodichloromethane	ug/L	ND	4000	3910	98	35-155	
Bromoform	ug/L	ND	4000	3840	96	45-133	
Bromomethane	ug/L	ND	4000	3760	94	10-160	
Carbon tetrachloride	ug/L	ND	4000	4410	110	70-140	
Chloroethane	ug/L	ND	4000	4600	115	14-160	
Chloroform	ug/L	ND	4000	3920	98	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3740	94	19-160	N2
Ethylbenzene	ug/L	260	4000	4310	101	37-154	
Methylene chloride	ug/L	ND	4000	3750	94	15-156	
Tetrachloroethene	ug/L	ND	4000	4100	103	64-148	
Toluene	ug/L	ND	4000	3880	96	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4010	100	54-156	
Trichloroethene	ug/L	ND	4000	4000	100	71-157	
Vinyl chloride	ug/L	ND	4000	4000	100	10-160	
Xylene (Total)	ug/L	1210	12000	12900	97	12-153	N2
1,2-Dichloroethane-d4 (S)	%				100	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	
Toluene-d8 (S)	%				98	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

MATRIX SPIKE SAMPLE: 1324957

Parameter	Units	60162136001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

QC Batch: MSV/59247 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60162136001

METHOD BLANK: 1326142 | Matrix: Water
Associated Lab Samples: 60162136001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acetone	ug/L	ND	10.0	02/03/14 16:00	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	02/03/14 16:00	
4-Bromofluorobenzene (S)	%	104	80-120	02/03/14 16:00	
Toluene-d8 (S)	%	101	80-120	02/03/14 16:00	

LABORATORY CONTROL SAMPLE: 1326143

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	100	90.9	91	40-160	N2
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			101	80-120	

MATRIX SPIKE SAMPLE: 1324957

Parameter	Units	60162136001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	125000	25000	202000	308	40-160	HS,M1,N2

MATRIX SPIKE SAMPLE: 1326145

Parameter	Units	60162293001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	206000	25000	202000	-16	40-160	M1,N2
1,2-Dichloroethane-d4 (S)	%				98	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	HS
Toluene-d8 (S)	%				101	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

QC Batch: OEXT/42550 | Analysis Method: EPA 625
QC Batch Method: EPA 625 | Analysis Description: 625 MSS
Associated Lab Samples: 60162136001

METHOD BLANK: 1325806 | Matrix: Water
Associated Lab Samples: 60162136001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/04/14 07:57	
2,4,6-Trichlorophenol	ug/L	ND	5.0	02/04/14 07:57	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	02/04/14 07:57	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/04/14 07:57	
Hexachlorocyclopentadiene	ug/L	ND	5.0	02/04/14 07:57	
Hexachloroethane	ug/L	ND	5.0	02/04/14 07:57	
Naphthalene	ug/L	ND	5.0	02/04/14 07:57	
Nitrobenzene	ug/L	ND	5.0	02/04/14 07:57	
Pentachlorophenol	ug/L	ND	5.0	02/04/14 07:57	
Phenol	ug/L	ND	5.0	02/04/14 07:57	
2,4,6-Tribromophenol (S)	%	106	39-120	02/04/14 07:57	
2-Fluorobiphenyl (S)	%	93	39-120	02/04/14 07:57	
2-Fluorophenol (S)	%	47	17-120	02/04/14 07:57	
Nitrobenzene-d5 (S)	%	77	33-120	02/04/14 07:57	
Phenol-d6 (S)	%	29	11-120	02/04/14 07:57	
Terphenyl-d14 (S)	%	95	45-120	02/04/14 07:57	

LABORATORY CONTROL SAMPLE: 1325807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	45.5	91	46-120	
2,4,6-Trichlorophenol	ug/L	50	47.2	94	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	56.6	113	40-133	
Hexachloro-1,3-butadiene	ug/L	50	44.1	88	44-116	
Hexachlorocyclopentadiene	ug/L	100	45.3	45	24-120	
Hexachloroethane	ug/L	50	39.2	78	43-113	
Naphthalene	ug/L	50	45.5	91	48-120	
Nitrobenzene	ug/L	50	40.0	80	48-120	
Pentachlorophenol	ug/L	50	48.9	98	47-120	
Phenol	ug/L	50	14.8	30	16-112	
2,4,6-Tribromophenol (S)	%			108	39-120	
2-Fluorobiphenyl (S)	%			94	39-120	
2-Fluorophenol (S)	%			46	17-120	
Nitrobenzene-d5 (S)	%			86	33-120	
Phenol-d6 (S)	%			28	11-120	
Terphenyl-d14 (S)	%			102	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

MATRIX SPIKE SAMPLE: 1325808

Parameter	Units	60162136001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	4540	91	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	5030	101	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4920J	98	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4240	85	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	6130	61	11-120	
Hexachloroethane	ug/L	ND	5000	4440	89	40-113	
Naphthalene	ug/L	3400	5000	9630	125	45-120	M1
Nitrobenzene	ug/L	ND	5000	4430	89	38-120	
Pentachlorophenol	ug/L	ND	5000	5500	110	43-135	
Phenol	ug/L	10300	5000	14000	74	13-112	
2,4,6-Tribromophenol (S)	%				106	39-120	
2-Fluorobiphenyl (S)	%				89	39-120	
2-Fluorophenol (S)	%				59	17-120	
Nitrobenzene-d5 (S)	%				154	33-120	S0
Phenol-d6 (S)	%				76	11-120	
Terphenyl-d14 (S)	%				84	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

QC Batch: WET/45935 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60162136001

METHOD BLANK: 1325934 | Matrix: Water
Associated Lab Samples: 60162136001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/03/14 10:29	

LABORATORY CONTROL SAMPLE: 1325935

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	38.5	96	78-114	

MATRIX SPIKE SAMPLE: 1325936

Parameter	Units	60162214001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	27.9	43.5	60.7	75	78-114	M1

SAMPLE DUPLICATE: 1325937

Parameter	Units	60162136001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	2130	2960	33	18	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

QC Batch: WET/45997
QC Batch Method: EPA 1664A
Analysis Method: EPA 1664A
Analysis Description: 1664 SGT-HEM, TPH
Associated Lab Samples: 60162136001

METHOD BLANK: 1326946
Matrix: Water
Associated Lab Samples: 60162136001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	02/06/14 10:08	

LABORATORY CONTROL SAMPLE: 1326947

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	18.1	90	64-132	

MATRIX SPIKE SAMPLE: 1326949

Parameter	Units	60162401001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	21.1	25.3	109	64-132	

SAMPLE DUPLICATE: 1326948

Parameter	Units	60162211001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	21.2	28.4	29	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

QC Batch: WET/45930
QC Batch Method: SM 2540D
Analysis Method: SM 2540D
Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60162136001

METHOD BLANK: 1325793
Matrix: Water
Associated Lab Samples: 60162136001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	02/03/14 10:52	

SAMPLE DUPLICATE: 1325794

Parameter	Units	60162039003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	740	792	7	10	

SAMPLE DUPLICATE: 1325795

Parameter	Units	60162108001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	109	119	9	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

QC Batch: WET/45922
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 60162136001

SAMPLE DUPLICATE: 1325419

Parameter	Units	60161989001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.4	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

QC Batch: WET/45907
QC Batch Method: SM 5210B
Analysis Method: SM 5210B
Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 60162136001

METHOD BLANK: 1324778
Matrix: Water
Associated Lab Samples: 60162136001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	02/05/14 13:25	

LABORATORY CONTROL SAMPLE: 1324779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	202	102	85-115	

SAMPLE DUPLICATE: 1324780

Parameter	Units	60162125004 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	ND	ND		17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

QC Batch: WETA/28057 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60162136001

METHOD BLANK: 1325919 | Matrix: Water
Associated Lab Samples: 60162136001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/03/14 13:48	

LABORATORY CONTROL SAMPLE: 1325920

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	106	90-110	

MATRIX SPIKE SAMPLE: 1325921

Parameter	Units	60162037001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2.8	2	4.6	89	90-110	M1

MATRIX SPIKE SAMPLE: 1325922

Parameter	Units	60162141001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2.0	2	3.8	91	90-110	

SAMPLE DUPLICATE: 1325923

Parameter	Units	60162293001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	763	767	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

QC Batch: WETA/28067 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 60162136001

METHOD BLANK: 1326244 | Matrix: Water
Associated Lab Samples: 60162136001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/05/14 07:59	

LABORATORY CONTROL SAMPLE: 1326245

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	45.8	92	90-110	

MATRIX SPIKE SAMPLE: 1326246

Parameter	Units	60162018001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	2430	2500	5100	107	90-110	

SAMPLE DUPLICATE: 1326247

Parameter	Units	60162018003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	1770	1780	1	25	

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QUALIFIERS

Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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

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TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-205R6
Pace Project No.: 60162136

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60162136001	**316-205R6**	EPA 200.7	MPRP/26072	EPA 200.7	ICP/19941
60162136001	**316-205R6**	EPA 200.7	MPRP/26071	EPA 200.7	ICP/19940
60162136001	**316-205R6**	EPA 245.1	MERP/8104	EPA 245.1	MERC/8058
60162136001	**316-205R6**	EPA 245.1	MERP/8111	EPA 245.1	MERC/8067
60162136001	**316-205R6**	EPA 625	OEXT/42550	EPA 625	MSSV/13535
60162136001	**316-205R6**	EPA 624 Low	MSV/59192		
60162136001	**316-205R6**	EPA 624 Low	MSV/59247		
60162136002	**TRIP BLANK**	EPA 624 Low	MSV/59192		
60162136001	**316-205R6**	EPA 1664A	WET/45935		
60162136001	**316-205R6**	EPA 1664A	WET/45997		
60162136001	**316-205R6**	SM 2540D	WET/45930		
60162136001	**316-205R6**	SM 4500-H+B	WET/45922		
60162136001	**316-205R6**	SM 5210B	WET/45907	SM 5210B	WET/45998
60162136001	**316-205R6**	EPA 350.1	WETA/28057		
60162136001	**316-205R6**	EPA 410.4	WETA/28067		

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Sample Condition Upon Receipt

WO#: 60162136

60162136

Optional
Proj Due Date:
Proj Name:

Client Name: Barr

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

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☐ None ☐ Other ☐

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 0.2

Temperature should be above freezing to 6°C

Date and initials of person examining contents: M 1/30/14

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 & signature on COC:	☑Yes ☐No ☐N/A	4.	
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.	
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6.	BOD pH
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.	
Sufficient volume:	☑Yes ☐No ☐N/A	8.	
Correct containers used:	☑Yes ☐No ☐N/A		
Pace containers used:	☑Yes ☐No ☐N/A	9.	
Containers intact:	☑Yes ☐No ☐N/A	10.	
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.	
Filtered volume received for dissolved tests?	☐Yes ☑No ☐N/A	12.	
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☑Yes ☐No ☐N/A	13.	
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	14.	HNO_3 initial pH ~5.0; added 2.5 mL; final pH ~4.0
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☑No ☐N/A		H_2SO_4 initial pH ~5.0; added 2 mL; final pH ~1.5
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed: M	Lot # of added preservative: 12158 12156
Trip Blank present: Pace Trip Blank lot # (if purchased): _____	☑Yes ☐No ☐N/A	15.	
Headspace in VOA vials (>6mm):	☑Yes ☑No ☐N/A	16.	4 of 5 vials have H.S.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State: NV	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 1/31/14

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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.

Page : 1 Of 1

Section A — Required Client Information:

Company:	BARR ENGINEERING
Address:	
Email To:	
Phone:	(816) 285-8410 Fax
Requested Due Date/TAT:	10 Day (Default)

Section B — Required Project Information:

Report To:	ED GALBRAITH/BARR
Copy To:	SCOTT FEDAK/FEEZOR
	DANA BAKER/MARGARET TREANOR -BARR
Purchase Order No.	PO 3727110
Client Project ID	BRIDGETON LF
Container Order Number:	

Section C — Invoice Information:

Attention:	AMY HARGROVE/BRIAN POWER
Company Name:	REPUBLIC SERVICES
Address:	BRIDGETON, MO 63044
Pace Quote Reference:	130426_7588
Pace Project Manager:	Brown, Angie
Pace Profile #:	6787 LINE 2

Regulatory Agency
State / Location
Missouri

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 (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N): COD EPA 410	pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B	Residual Chlorine (Y/N)	60162136
																														3(AG3S) 2(AG4U) 2(AP2U) AP3U AP3N
1	316-205R6	OT	G	1/29/14	1130				14	10	4	1	0					X	X	X	X	X	X	X	X	X	X			AP3S 1.5 (AG4U) 001
2	TRIP BLANK								2	2															X					2(AG4U) 002
3																														
4																														
5																														
6																														METALS LIST total & LF Dis:
7																														Al,Sb,As,Be,Cd,Cr,
8																														Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn
9																														and Mercury
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	Sam Bircher/Feezor	1/29/14	1200							
SITE ADDRESS: BRIDGETON LF	PL Paul Liverscott/FEI	1/29/14	4:41 pm	Bonnetta Heath	01/29/14	4:41 pm				
13570 ST. CHARLES ROCK RD				PASI	1/30/14	0:25	6.2	Y	Y	Y
BRIDGETON MO 63044										
							TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Sam Bircher

SIGNATURE of SAMPLER: [signature] DATE Signed: 1-29-14

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February 10, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 31, 2014. 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,

Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

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CERTIFICATIONS

Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60162211001	**316-206R2**	Water	01/30/14 11:00	01/31/14 01:10
60162211002	**TRIP BLANK**	Water	01/30/14 11:00	01/31/14 01:10

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60162211001	**316-206R2**	EPA 200.7	NDJ	15
		EPA 200.7	NDJ, SMW	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	16
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC	1
		SM 4500-H+B	RAH	1
		SM 5210B	JML	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC	1
60162211002	**TRIP BLANK**	EPA 624 Low	EAK	28

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

Sample: 316-206R2 **Lab ID: 60162211001** Collected: 01/30/14 11:00 Received: 01/31/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	**3200**	ug/L	750	2	02/05/14 14:15	02/06/14 12:05	7429-90-5	
Antimony	**64.1**	ug/L	50.0	1	02/05/14 14:15	02/06/14 12:02	7440-36-0	
Arsenic	**1090**	ug/L	50.0	1	02/05/14 14:15	02/06/14 12:02	7440-38-2	
Beryllium	ND	ug/L	5.0	1	02/05/14 14:15	02/06/14 12:02	7440-41-7	
Cadmium	ND	ug/L	25.0	1	02/05/14 14:15	02/06/14 12:02	7440-43-9	
Chromium	**241**	ug/L	25.0	1	02/05/14 14:15	02/06/14 12:02	7440-47-3	
Cobalt	**30.8**	ug/L	25.0	1	02/05/14 14:15	02/06/14 12:02	7440-48-4	
Copper	ND	ug/L	50.0	1	02/05/14 14:15	02/06/14 12:02	7440-50-8	
Iron	**550000**	ug/L	250	1	02/05/14 14:15	02/06/14 12:02	7439-89-6	
Lead	**75.0**	ug/L	25.0	1	02/05/14 14:15	02/06/14 12:02	7439-92-1	
Nickel	**72.2**	ug/L	25.0	1	02/05/14 14:15	02/06/14 12:02	7440-02-0	
Selenium	ND	ug/L	75.0	1	02/05/14 14:15	02/06/14 12:02	7782-49-2	
Silver	ND	ug/L	35.0	1	02/05/14 14:15	02/06/14 12:02	7440-22-4	
Thallium	ND	ug/L	100	1	02/05/14 14:15	02/06/14 12:02	7440-28-0	
Zinc	**7070**	ug/L	500	2	02/05/14 14:15	02/06/14 12:05	7440-66-6	
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	**1870**	ug/L	750	2	02/05/14 14:15	02/07/14 14:19	7429-90-5	
Antimony, Dissolved	**53.2**	ug/L	50.0	1	02/05/14 14:15	02/06/14 11:14	7440-36-0	
Arsenic, Dissolved	**662**	ug/L	50.0	1	02/05/14 14:15	02/06/14 11:14	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	02/05/14 14:15	02/06/14 11:14	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	02/05/14 14:15	02/06/14 11:14	7440-43-9	
Chromium, Dissolved	**155**	ug/L	25.0	1	02/05/14 14:15	02/06/14 11:14	7440-47-3	
Cobalt, Dissolved	ND	ug/L	25.0	1	02/05/14 14:15	02/06/14 11:14	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	02/05/14 14:15	02/06/14 11:14	7440-50-8	
Iron, Dissolved	**461000**	ug/L	250	1	02/05/14 14:15	02/06/14 11:14	7439-89-6	
Lead, Dissolved	**46.7**	ug/L	25.0	1	02/05/14 14:15	02/06/14 11:14	7439-92-1	
Nickel, Dissolved	**56.2**	ug/L	25.0	1	02/05/14 14:15	02/06/14 11:14	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	02/05/14 14:15	02/06/14 11:14	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	02/05/14 14:15	02/06/14 11:14	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	02/05/14 14:15	02/06/14 11:14	7440-28-0	
Zinc, Dissolved	**5220**	ug/L	500	2	02/05/14 14:15	02/06/14 11:16	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**34.1**	ug/L	24.0	1	02/10/14 11:10	02/10/14 16:12	7439-97-6	
245.1 Mercury, Dissolved (LF)	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	6.0	1	02/05/14 12:00	02/06/14 10:46	7439-97-6	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	02/03/14 00:00	02/04/14 10:05	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	02/03/14 00:00	02/04/14 10:05	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	02/03/14 00:00	02/04/14 10:05	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	02/03/14 00:00	02/04/14 10:05	67-72-1	
Naphthalene	**2000**	ug/L	1000	2	02/03/14 00:00	02/04/14 10:05	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	02/03/14 00:00	02/04/14 10:05	98-95-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

Sample: 316-206R2 **Lab ID: 60162211001** Collected: 01/30/14 11:00 Received: 01/31/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Pentachlorophenol	ND	ug/L	1000	2	02/03/14 00:00	02/04/14 10:05	87-86-5	
Phenol	**13200**	ug/L	1000	2	02/03/14 00:00	02/04/14 10:05	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	1000	2	02/03/14 00:00	02/04/14 10:05	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	1000	2	02/03/14 00:00	02/04/14 10:05	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	169	%	33-120	2	02/03/14 00:00	02/04/14 10:05	4165-60-0	S0
2-Fluorobiphenyl (S)	102	%	39-120	2	02/03/14 00:00	02/04/14 10:05	321-60-8	
Terphenyl-d14 (S)	94	%	45-120	2	02/03/14 00:00	02/04/14 10:05	1718-51-0	
Phenol-d6 (S)	54	%	11-120	2	02/03/14 00:00	02/04/14 10:05	13127-88-3	
2-Fluorophenol (S)	59	%	17-120	2	02/03/14 00:00	02/04/14 10:05	367-12-4	
2,4,6-Tribromophenol (S)	127	%	39-120	2	02/03/14 00:00	02/04/14 10:05	118-79-6	S0
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	**197000**	ug/L	2500	250		02/03/14 16:59	67-64-1	HS,N2
Benzene	ND	ug/L	200	200		01/31/14 13:14	71-43-2	
Bromodichloromethane	ND	ug/L	200	200		01/31/14 13:14	75-27-4	
Bromoform	ND	ug/L	200	200		01/31/14 13:14	75-25-2	
Bromomethane	ND	ug/L	1000	200		01/31/14 13:14	74-83-9	
2-Butanone (MEK)	**144000**	ug/L	2000	200		01/31/14 13:14	78-93-3	N2
Carbon tetrachloride	ND	ug/L	200	200		01/31/14 13:14	56-23-5	
Chloroethane	ND	ug/L	200	200		01/31/14 13:14	75-00-3	
Chloroform	ND	ug/L	200	200		01/31/14 13:14	67-66-3	
1,4-Dichlorobenzene	**2790**	ug/L	200	200		01/31/14 13:14	106-46-7	
1,2-Dichloroethane	ND	ug/L	200	200		01/31/14 13:14	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200	200		01/31/14 13:14	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	200	200		01/31/14 13:14	156-60-5	
Ethylbenzene	**253**	ug/L	200	200		01/31/14 13:14	100-41-4	
Methylene chloride	ND	ug/L	200	200		01/31/14 13:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	**3840**	ug/L	2000	200		01/31/14 13:14	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		01/31/14 13:14	79-34-5	N2
Tetrachloroethene	ND	ug/L	200	200		01/31/14 13:14	127-18-4	
Toluene	ND	ug/L	200	200		01/31/14 13:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200	200		01/31/14 13:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		01/31/14 13:14	79-00-5	
Trichloroethene	ND	ug/L	200	200		01/31/14 13:14	79-01-6	
Vinyl chloride	ND	ug/L	200	200		01/31/14 13:14	75-01-4	
Xylene (Total)	**1150**	ug/L	600	200		01/31/14 13:14	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	99	%	80-120	200		01/31/14 13:14	460-00-4	HS
Toluene-d8 (S)	99	%	80-120	200		01/31/14 13:14	2037-26-5	
1,2-Dichloroethane-d4 (S)	102	%	80-120	200		01/31/14 13:14	17060-07-0	
Preservation pH	**6.0**		1.0	200		01/31/14 13:14		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	**1570**	mg/L	5.0	1		02/05/14 14:25		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

Sample: 316-206R2 **Lab ID: 60162211001** Collected: 01/30/14 11:00 Received: 01/31/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	**21.2**	mg/L	5.0	1		02/06/14 10:08		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**3180**	mg/L	5.0	1		02/05/14 13:22		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**5.4**	Std. Units	0.10	1		02/01/14 10:52		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**35500**	mg/L	2.0	1	01/31/14 14:17	02/05/14 16:12		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**750**	mg/L	20.0	200		02/03/14 14:17	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**59100**	mg/L	5000	500		02/07/14 09:18		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

Sample: TRIP BLANK **Lab ID: 60162211002** Collected: 01/30/14 11:00 Received: 01/31/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	ND	ug/L	10.0	1		01/31/14 13:29	67-64-1	N2
Benzene	ND	ug/L	1.0	1		01/31/14 13:29	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		01/31/14 13:29	75-27-4	
Bromoform	ND	ug/L	1.0	1		01/31/14 13:29	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/31/14 13:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/31/14 13:29	78-93-3	N2
Carbon tetrachloride	ND	ug/L	1.0	1		01/31/14 13:29	56-23-5	
Chloroethane	ND	ug/L	1.0	1		01/31/14 13:29	75-00-3	
Chloroform	ND	ug/L	1.0	1		01/31/14 13:29	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		01/31/14 13:29	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		01/31/14 13:29	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		01/31/14 13:29	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		01/31/14 13:29	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		01/31/14 13:29	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		01/31/14 13:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/31/14 13:29	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		01/31/14 13:29	79-34-5	N2
Tetrachloroethene	ND	ug/L	1.0	1		01/31/14 13:29	127-18-4	
Toluene	ND	ug/L	1.0	1		01/31/14 13:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		01/31/14 13:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		01/31/14 13:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		01/31/14 13:29	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		01/31/14 13:29	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		01/31/14 13:29	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	1		01/31/14 13:29	460-00-4	
Toluene-d8 (S)	101	%	80-120	1		01/31/14 13:29	2037-26-5	
1,2-Dichloroethane-d4 (S)	103	%	80-120	1		01/31/14 13:29	17060-07-0	
Preservation pH	**6.0**		1.0	1		01/31/14 13:29		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

QC Batch: MERP/8118 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury
Associated Lab Samples: 60162211001

METHOD BLANK: 1328060 | Matrix: Water
Associated Lab Samples: 60162211001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/10/14 16:07	

LABORATORY CONTROL SAMPLE: 1328061

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	91	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1328062 1328063

Parameter	Units	60162293001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	21.4	150	150	156	148	90	84	70-130	5	20	

MATRIX SPIKE SAMPLE: 1328147

Parameter	Units	60162211001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	34.1	600	468	72	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

QC Batch: MERP/8111
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60162211001

METHOD BLANK: 1326614
Matrix: Water
Associated Lab Samples: 60162211001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/06/14 10:37	

LABORATORY CONTROL SAMPLE: 1326615

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.1	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1326616 1326617

Parameter	Units	60162293001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	142	151	94	100	70-130	6	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

QC Batch: MPRP/26072
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60162211001

METHOD BLANK: 1326654
Matrix: Water
Associated Lab Samples: 60162211001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	02/06/14 11:55	
Antimony	ug/L	ND	10.0	02/06/14 11:55	
Arsenic	ug/L	ND	10.0	02/06/14 11:55	
Beryllium	ug/L	ND	1.0	02/06/14 11:55	
Cadmium	ug/L	ND	5.0	02/06/14 11:55	
Chromium	ug/L	ND	5.0	02/06/14 11:55	
Cobalt	ug/L	ND	5.0	02/06/14 11:55	
Copper	ug/L	ND	10.0	02/06/14 11:55	
Iron	ug/L	ND	50.0	02/06/14 11:55	
Lead	ug/L	ND	5.0	02/06/14 11:55	
Nickel	ug/L	ND	5.0	02/06/14 11:55	
Selenium	ug/L	ND	15.0	02/06/14 11:55	
Silver	ug/L	ND	7.0	02/06/14 11:55	
Thallium	ug/L	ND	20.0	02/06/14 11:55	
Zinc	ug/L	ND	50.0	02/06/14 11:55	

LABORATORY CONTROL SAMPLE: 1326655

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9500	95	85-115	
Antimony	ug/L	1000	992	99	85-115	
Arsenic	ug/L	1000	938	94	85-115	
Beryllium	ug/L	1000	970	97	85-115	
Cadmium	ug/L	1000	970	97	85-115	
Chromium	ug/L	1000	965	96	85-115	
Cobalt	ug/L	1000	1010	101	85-115	
Copper	ug/L	1000	961	96	85-115	
Iron	ug/L	10000	9680	97	85-115	
Lead	ug/L	1000	1010	101	85-115	
Nickel	ug/L	1000	1010	101	85-115	
Selenium	ug/L	1000	979	98	85-115	
Silver	ug/L	500	487	97	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	995	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1326656 1326657

Parameter	Units	60162293001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	2850	50000	50000	55100	69800	104	134	70-130	24	8	M1,R1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1326656 1326657

Parameter	Units	60162293001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	5000	5000	5240	5320	104	106	70-130	2	7	
Arsenic	ug/L	838	5000	5000	6040	6520	104	114	70-130	8	10	
Beryllium	ug/L	ND	5000	5000	4720	4680	94	94	70-130	1	7	
Cadmium	ug/L	ND	5000	5000	5060	5130	101	103	70-130	1	10	
Chromium	ug/L	196	5000	5000	4870	4890	94	94	70-130	0	10	
Cobalt	ug/L	29.5	5000	5000	4770	4730	95	94	70-130	1	6	
Copper	ug/L	ND	5000	5000	5080	5100	102	102	70-130	0	11	
Iron	ug/L	530000	50000	50000	644000	859000	227	657	70-130	29	10	M1,R1
Lead	ug/L	47.2	5000	5000	4530	4480	90	89	70-130	1	10	
Nickel	ug/L	76.8	5000	5000	4740	4720	93	93	70-130	0	10	
Selenium	ug/L	ND	5000	5000	5690	5920	114	118	70-130	4	10	
Silver	ug/L	ND	2500	2500	2560	2540	102	101	70-130	1	10	
Thallium	ug/L	ND	5000	5000	4070	3980	81	80	70-130	2	6	
Zinc	ug/L	4710	5000	5000	9120	14300	88	192	70-130	44	11	M1,R1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

QC Batch: MPRP/26071
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60162211001

METHOD BLANK: 1326650
Matrix: Water
Associated Lab Samples: 60162211001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	02/06/14 10:58	
Antimony, Dissolved	ug/L	ND	10.0	02/06/14 10:58	
Arsenic, Dissolved	ug/L	ND	10.0	02/06/14 10:58	
Beryllium, Dissolved	ug/L	ND	1.0	02/06/14 10:58	
Cadmium, Dissolved	ug/L	ND	5.0	02/06/14 10:58	
Chromium, Dissolved	ug/L	ND	5.0	02/06/14 10:58	
Cobalt, Dissolved	ug/L	ND	5.0	02/06/14 10:58	
Copper, Dissolved	ug/L	ND	10.0	02/06/14 10:58	
Iron, Dissolved	ug/L	ND	50.0	02/06/14 10:58	
Lead, Dissolved	ug/L	ND	5.0	02/06/14 10:58	
Nickel, Dissolved	ug/L	ND	5.0	02/06/14 10:58	
Selenium, Dissolved	ug/L	ND	15.0	02/06/14 10:58	
Silver, Dissolved	ug/L	ND	7.0	02/06/14 10:58	
Thallium, Dissolved	ug/L	ND	20.0	02/06/14 10:58	
Zinc, Dissolved	ug/L	ND	50.0	02/06/14 10:58	

LABORATORY CONTROL SAMPLE: 1326651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9460	95	85-115	
Antimony, Dissolved	ug/L	1000	986	99	85-115	
Arsenic, Dissolved	ug/L	1000	936	94	85-115	
Beryllium, Dissolved	ug/L	1000	970	97	85-115	
Cadmium, Dissolved	ug/L	1000	966	97	85-115	
Chromium, Dissolved	ug/L	1000	978	98	85-115	
Cobalt, Dissolved	ug/L	1000	1000	100	85-115	
Copper, Dissolved	ug/L	1000	963	96	85-115	
Iron, Dissolved	ug/L	10000	9800	98	85-115	
Lead, Dissolved	ug/L	1000	1010	101	85-115	
Nickel, Dissolved	ug/L	1000	1000	100	85-115	
Selenium, Dissolved	ug/L	1000	981	98	85-115	
Silver, Dissolved	ug/L	500	490	98	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	993	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1326652 1326653

Parameter	Units	60162293001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	1950	50000	50000	51300	51100	99	98	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1326652 1326653

Parameter	Units	60162293001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	58.1	5000	5000	5300	5280	105	104	70-130	1	7	
Arsenic, Dissolved	ug/L	748	5000	5000	6190	6140	109	108	70-130	1	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	4800	4750	96	95	70-130	1	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5120	5090	102	102	70-130	1	10	
Chromium, Dissolved	ug/L	171	5000	5000	4920	4880	95	94	70-130	1	10	
Cobalt, Dissolved	ug/L	26.1	5000	5000	4790	4760	95	95	70-130	1	6	
Copper, Dissolved	ug/L	ND	5000	5000	5130	5120	103	102	70-130	0	11	
Iron, Dissolved	ug/L	513000	50000	50000	622000	642000	219	258	70-130	3	10	M1
Lead, Dissolved	ug/L	50.8	5000	5000	4560	4520	90	89	70-130	1	10	
Nickel, Dissolved	ug/L	71.2	5000	5000	4800	4740	95	93	70-130	1	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5810	5760	116	115	70-130	1	10	
Silver, Dissolved	ug/L	ND	2500	2500	2620	2620	105	105	70-130	0	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4120	4090	82	82	70-130	1	6	
Zinc, Dissolved	ug/L	4010	5000	5000	9420	9340	108	107	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

QC Batch: MSV/59192 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60162211001, 60162211002

METHOD BLANK: 1324955 | Matrix: Water
Associated Lab Samples: 60162211001, 60162211002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/31/14 11:01	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/31/14 11:01	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	01/31/14 11:01	
1,2-Dichloroethane	ug/L	ND	1.0	01/31/14 11:01	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/31/14 11:01	
2-Butanone (MEK)	ug/L	ND	10.0	01/31/14 11:01	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/31/14 11:01	N2
Acetone	ug/L	ND	10.0	01/31/14 11:01	N2
Benzene	ug/L	ND	1.0	01/31/14 11:01	
Bromodichloromethane	ug/L	ND	1.0	01/31/14 11:01	
Bromoform	ug/L	ND	1.0	01/31/14 11:01	
Bromomethane	ug/L	ND	5.0	01/31/14 11:01	
Carbon tetrachloride	ug/L	ND	1.0	01/31/14 11:01	
Chloroethane	ug/L	ND	1.0	01/31/14 11:01	
Chloroform	ug/L	ND	1.0	01/31/14 11:01	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/31/14 11:01	N2
Ethylbenzene	ug/L	ND	1.0	01/31/14 11:01	
Methylene chloride	ug/L	ND	1.0	01/31/14 11:01	
Tetrachloroethene	ug/L	ND	1.0	01/31/14 11:01	
Toluene	ug/L	ND	1.0	01/31/14 11:01	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/31/14 11:01	
Trichloroethene	ug/L	ND	1.0	01/31/14 11:01	
Vinyl chloride	ug/L	ND	1.0	01/31/14 11:01	
Xylene (Total)	ug/L	ND	3.0	01/31/14 11:01	N2
1,2-Dichloroethane-d4 (S)	%	107	80-120	01/31/14 11:01	
4-Bromofluorobenzene (S)	%	96	80-120	01/31/14 11:01	
Toluene-d8 (S)	%	103	80-120	01/31/14 11:01	

LABORATORY CONTROL SAMPLE: 1324956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.5	93	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	59-138	N2
1,1,2-Trichloroethane	ug/L	20	19.4	97	69-127	
1,2-Dichloroethane	ug/L	20	18.3	91	71-129	
1,4-Dichlorobenzene	ug/L	20	19.9	100	68-124	
2-Butanone (MEK)	ug/L	100	105	105	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	88.6	89	61-120	N2
Acetone	ug/L	100	110	110	40-160	N2
Benzene	ug/L	20	18.9	94	73-129	
Bromodichloromethane	ug/L	20	19.3	96	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

LABORATORY CONTROL SAMPLE: 1324956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.8	99	52-123	
Bromomethane	ug/L	20	18.3	92	10-160	
Carbon tetrachloride	ug/L	20	19.3	96	70-140	
Chloroethane	ug/L	20	17.6	88	42-160	
Chloroform	ug/L	20	19.0	95	60-120	
cis-1,2-Dichloroethene	ug/L	20	18.5	93	70-125	N2
Ethylbenzene	ug/L	20	19.3	96	66-133	
Methylene chloride	ug/L	20	18.3	91	56-135	
Tetrachloroethene	ug/L	20	19.6	98	64-143	
Toluene	ug/L	20	18.6	93	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.9	90	67-149	
Trichloroethene	ug/L	20	18.7	93	71-130	
Vinyl chloride	ug/L	20	17.5	87	41-160	
Xylene (Total)	ug/L	60	58.3	97	67-130	N2
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1324957

Parameter	Units	60162136001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4100	103	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4220	106	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4110	103	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3600	90	49-155	
1,4-Dichlorobenzene	ug/L	2220	4000	6040	95	18-147	
2-Butanone (MEK)	ug/L	115000	20000	125000	49	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	3810	20000	20900	85	40-160	N2
Benzene	ug/L	ND	4000	3910	98	37-151	
Bromodichloromethane	ug/L	ND	4000	3910	98	35-155	
Bromoform	ug/L	ND	4000	3840	96	45-133	
Bromomethane	ug/L	ND	4000	3760	94	10-160	
Carbon tetrachloride	ug/L	ND	4000	4410	110	70-140	
Chloroethane	ug/L	ND	4000	4600	115	14-160	
Chloroform	ug/L	ND	4000	3920	98	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3740	94	19-160	N2
Ethylbenzene	ug/L	260	4000	4310	101	37-154	
Methylene chloride	ug/L	ND	4000	3750	94	15-156	
Tetrachloroethene	ug/L	ND	4000	4100	103	64-148	
Toluene	ug/L	ND	4000	3880	96	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4010	100	54-156	
Trichloroethene	ug/L	ND	4000	4000	100	71-157	
Vinyl chloride	ug/L	ND	4000	4000	100	10-160	
Xylene (Total)	ug/L	1210	12000	12900	97	12-153	N2
1,2-Dichloroethane-d4 (S)	%				100	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	
Toluene-d8 (S)	%				98	80-120	

REPORT OF LABORATORY ANALYSIS

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(913)599-5665

QUALITY CONTROL DATA

Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

MATRIX SPIKE SAMPLE: 1324957

Parameter	Units	60162136001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Preservation pH		6.0		6.0			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

QC Batch: MSV/59247 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60162211001

METHOD BLANK: 1326142 | Matrix: Water
Associated Lab Samples: 60162211001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acetone	ug/L	ND	10.0	02/03/14 16:00	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	02/03/14 16:00	
4-Bromofluorobenzene (S)	%	104	80-120	02/03/14 16:00	
Toluene-d8 (S)	%	101	80-120	02/03/14 16:00	

LABORATORY CONTROL SAMPLE: 1326143

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	100	90.9	91	40-160	N2
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			101	80-120	

MATRIX SPIKE SAMPLE: 1324957

Parameter	Units	60162136001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	125000	25000	202000	308	40-160	HS,M1,N2

MATRIX SPIKE SAMPLE: 1326145

Parameter	Units	60162293001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	206000	25000	202000	-16	40-160	M1,N2
1,2-Dichloroethane-d4 (S)	%				98	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	HS
Toluene-d8 (S)	%				101	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

QC Batch: OEXT/42550 | Analysis Method: EPA 625
QC Batch Method: EPA 625 | Analysis Description: 625 MSS
Associated Lab Samples: 60162211001

METHOD BLANK: 1325806 | Matrix: Water
Associated Lab Samples: 60162211001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/04/14 07:57	
2,4,6-Trichlorophenol	ug/L	ND	5.0	02/04/14 07:57	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	02/04/14 07:57	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/04/14 07:57	
Hexachlorocyclopentadiene	ug/L	ND	5.0	02/04/14 07:57	
Hexachloroethane	ug/L	ND	5.0	02/04/14 07:57	
Naphthalene	ug/L	ND	5.0	02/04/14 07:57	
Nitrobenzene	ug/L	ND	5.0	02/04/14 07:57	
Pentachlorophenol	ug/L	ND	5.0	02/04/14 07:57	
Phenol	ug/L	ND	5.0	02/04/14 07:57	
2,4,6-Tribromophenol (S)	%	106	39-120	02/04/14 07:57	
2-Fluorobiphenyl (S)	%	93	39-120	02/04/14 07:57	
2-Fluorophenol (S)	%	47	17-120	02/04/14 07:57	
Nitrobenzene-d5 (S)	%	77	33-120	02/04/14 07:57	
Phenol-d6 (S)	%	29	11-120	02/04/14 07:57	
Terphenyl-d14 (S)	%	95	45-120	02/04/14 07:57	

LABORATORY CONTROL SAMPLE: 1325807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	45.5	91	46-120	
2,4,6-Trichlorophenol	ug/L	50	47.2	94	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	56.6	113	40-133	
Hexachloro-1,3-butadiene	ug/L	50	44.1	88	44-116	
Hexachlorocyclopentadiene	ug/L	100	45.3	45	24-120	
Hexachloroethane	ug/L	50	39.2	78	43-113	
Naphthalene	ug/L	50	45.5	91	48-120	
Nitrobenzene	ug/L	50	40.0	80	48-120	
Pentachlorophenol	ug/L	50	48.9	98	47-120	
Phenol	ug/L	50	14.8	30	16-112	
2,4,6-Tribromophenol (S)	%			108	39-120	
2-Fluorobiphenyl (S)	%			94	39-120	
2-Fluorophenol (S)	%			46	17-120	
Nitrobenzene-d5 (S)	%			86	33-120	
Phenol-d6 (S)	%			28	11-120	
Terphenyl-d14 (S)	%			102	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

MATRIX SPIKE SAMPLE: 1325808

Parameter	Units	60162136001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	4540	91	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	5030	101	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4920J	98	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4240	85	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	6130	61	11-120	
Hexachloroethane	ug/L	ND	5000	4440	89	40-113	
Naphthalene	ug/L	3400	5000	9630	125	45-120	M1
Nitrobenzene	ug/L	ND	5000	4430	89	38-120	
Pentachlorophenol	ug/L	ND	5000	5500	110	43-135	
Phenol	ug/L	10300	5000	14000	74	13-112	
2,4,6-Tribromophenol (S)	%				106	39-120	
2-Fluorobiphenyl (S)	%				89	39-120	
2-Fluorophenol (S)	%				59	17-120	
Nitrobenzene-d5 (S)	%				154	33-120	S0
Phenol-d6 (S)	%				76	11-120	
Terphenyl-d14 (S)	%				84	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

QC Batch: WET/45991
QC Batch Method: EPA 1664A
Analysis Method: EPA 1664A
Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60162211001

METHOD BLANK: 1326698
Matrix: Water
Associated Lab Samples: 60162211001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/05/14 14:24	

LABORATORY CONTROL SAMPLE: 1326699

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	38.4	96	78-114	

MATRIX SPIKE SAMPLE: 1326701

Parameter	Units	60162426001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	41.7	39.7	94	78-114	

SAMPLE DUPLICATE: 1326700

Parameter	Units	60162211001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1570	1360	14	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

QC Batch: WET/45997
QC Batch Method: EPA 1664A
Analysis Method: EPA 1664A
Analysis Description: 1664 SGT-HEM, TPH
Associated Lab Samples: 60162211001

METHOD BLANK: 1326946
Matrix: Water
Associated Lab Samples: 60162211001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	02/06/14 10:08	

LABORATORY CONTROL SAMPLE: 1326947

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	18.1	90	64-132	

MATRIX SPIKE SAMPLE: 1326949

Parameter	Units	60162401001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	21.1	25.3	109	64-132	

SAMPLE DUPLICATE: 1326948

Parameter	Units	60162211001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	21.2	28.4	29	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

QC Batch: WET/45981
QC Batch Method: SM 2540D
Analysis Method: SM 2540D
Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60162211001

METHOD BLANK: 1326582
Matrix: Water
Associated Lab Samples: 60162211001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	02/05/14 13:22	

SAMPLE DUPLICATE: 1326583

Parameter	Units	60162211001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3180	3040	5	10	

SAMPLE DUPLICATE: 1326584

Parameter	Units	60162148001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	403	383	5	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

QC Batch: WET/45922
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 60162211001

SAMPLE DUPLICATE: 1325419

Parameter	Units	60161989001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.4	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

QC Batch: WET/45915
QC Batch Method: SM 5210B
Analysis Method: SM 5210B
Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 60162211001

METHOD BLANK: 1324980
Matrix: Water
Associated Lab Samples: 60162211001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	02/05/14 14:58	

LABORATORY CONTROL SAMPLE: 1324981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	169	86	85-115	

SAMPLE DUPLICATE: 1324982

Parameter	Units	60162127003 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	214	217	1	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

QC Batch: WETA/28057 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60162211001

METHOD BLANK: 1325919 | Matrix: Water
Associated Lab Samples: 60162211001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/03/14 13:48	

LABORATORY CONTROL SAMPLE: 1325920

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	106	90-110	

MATRIX SPIKE SAMPLE: 1325921

Parameter	Units	60162037001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2.8	2	4.6	89	90-110	M1

MATRIX SPIKE SAMPLE: 1325922

Parameter	Units	60162141001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2.0	2	3.8	91	90-110	

SAMPLE DUPLICATE: 1325923

Parameter	Units	60162293001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	763	767	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

QC Batch: WETA/28077
QC Batch Method: EPA 410.4
Analysis Method: EPA 410.4
Analysis Description: 410.4 COD
Associated Lab Samples: 60162211001

METHOD BLANK: 1326596
Matrix: Water
Associated Lab Samples: 60162211001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/07/14 09:06	

LABORATORY CONTROL SAMPLE: 1326597

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	52.2	104	90-110	

MATRIX SPIKE SAMPLE: 1326598

Parameter	Units	60161846001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	760	500	1210	89	90-110	M1

MATRIX SPIKE SAMPLE: 1326600

Parameter	Units	60162293001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	58000	25000	79700	87	90-110	M1

SAMPLE DUPLICATE: 1326599

Parameter	Units	60161896001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	59.4	50.6	16	25	

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QUALIFIERS

Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

ANALYTE QUALIFIERS

H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-206R2
Pace Project No.: 60162211

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60162211001	**316-206R2**	EPA 200.7	MPRP/26072	EPA 200.7	ICP/19941
60162211001	**316-206R2**	EPA 200.7	MPRP/26071	EPA 200.7	ICP/19940
60162211001	**316-206R2**	EPA 245.1	MERP/8118	EPA 245.1	MERC/8075
60162211001	**316-206R2**	EPA 245.1	MERP/8111	EPA 245.1	MERC/8067
60162211001	**316-206R2**	EPA 625	OEXT/42550	EPA 625	MSSV/13535
60162211001	**316-206R2**	EPA 624 Low	MSV/59192		
60162211001	**316-206R2**	EPA 624 Low	MSV/59247		
60162211002	**TRIP BLANK**	EPA 624 Low	MSV/59192		
60162211001	**316-206R2**	EPA 1664A	WET/45991		
60162211001	**316-206R2**	EPA 1664A	WET/45997		
60162211001	**316-206R2**	SM 2540D	WET/45981		
60162211001	**316-206R2**	SM 4500-H+B	WET/45922		
60162211001	**316-206R2**	SM 5210B	WET/45915	SM 5210B	WET/46008
60162211001	**316-206R2**	EPA 350.1	WETA/28057		
60162211001	**316-206R2**	EPA 410.4	WETA/28077		

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WO#: 60162211

60162211

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Sample Condition Upon Receipt

Client Name: Barr Eng

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

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☑ None ☐ Other ☑ ZPIC

Thermometer Used: T-239 / T-194 Type of Ice: Wet Blue None (circle one) ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 5.6

Temperature should be above freezing to 6°C

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: PU 1/31/14

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 & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6. BOD pH
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.
Sufficient volume:	☑Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC: Includes date/time/ID/analyses Matrix: WT	☑Yes ☐No ☐N/A	13.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	Added 2.0 mL of H2SO4 to ~~BP3N~~ BP3S. 6.0/2.0 PU 1/31/14
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☑No ☐N/A	Added 2.5 mL of HNO3 to BP3N. 6.0/4.0 14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed PU — Lot # of added preservative 12517 12518
Trip Blank present: Pace Trip Blank lot # (if purchased): cover	☑Yes ☐No ☐N/A	15.
Headspace in VOA vials (>6mm):	☑Yes ☐No ☐N/A	5 of 5 samples have headspace — FOOTNOTE PASSED ON HISTORICAL INSTRUCTIONS - LEACHATE ONLY 16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State NC

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 2/3/14

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A — Required Client Information:

Company:	BARR ENGINEERING
Address:	
Email To:	
Phone:	(816) 285-8410 Fax
Requested Due Date/TAT:	10 Day (Default)

Section B — Required Project Information:

Report To:	ED GALBRAITH/BARR
Copy To:	SCOTT FEDAK/FEEZOR
	DANA BAKER/MARGARET TREANOR -BARR
Purchase Order No.	PO 3727110
Client Project ID:	BRIDGETON LF
Container Order Number:	

Section C — Invoice Information:

Attention:	AMY HARGROVE/BRIAN POWER
Company Name:	REPUBLIC SERVICES
Address:	BRIDGETON, MO 63044
Pace Quote Reference:	130426_7588
Pace Project Manager:	Brown, Angie
Pace Profile #:	6787 LINE 2

Regulatory Agency

State / Location: Missouri

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

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	COD EPA 410	pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B		Residual Chlorine (Y/N)	6016221
1	316-206R2 2AG4U 1BP3U 1BP3S2-6	OT	G	1/30/14	1100				14	10	4	1	0	1BP3N2-6					X	X	X	X	X	X	X	X	X	X	X	3AG3S		2BP2U 5DG4U W
2	TRIP BLANK								2	2																X						2DG4U W
3																																
4																																
5																																
6																																METALS LIST total & LF Dis:
7																																Al,Sb,As,Be,Cd,Cr,
8																																Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn
9																																and Mercury
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	Paul Linscott / FCI, INC	1/30/14	~~1615~~ 1615	Bernetta Hatch	1/30/14	~~1615~~ 1615				
SITE ADDRESS: BRIDGETON LF			1615			1615				
13570 ST. CHARLES ROCK RD				PHAST	1/31/14	0110	5.6	Y	Y	Y
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Sam Bircher		
SIGNATURE of SAMPLER:		DATE Signed:	1-30-14

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

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February 06, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: Bridgeton UNTREATED COMMINGLED
Pace Project No.: 60162257

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on January 31, 2014. 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,

Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

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CERTIFICATIONS

Project: Bridgeton UNTREATED COMMINGLED
Pace Project No.: 60162257

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: Bridgeton UNTREATED COMMINGLED
Pace Project No.: 60162257

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60162257001	**TCLP 01-30**	Water	01/30/14 09:40	01/31/14 01:10
60162257002	**TRIP BLANK**	Water	01/30/14 08:00	01/31/14 01:10

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SAMPLE ANALYTE COUNT

Project: Bridgeton UNTREATED COMMINGLED
Pace Project No.: 60162257

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60162257001	**TCLP 01-30**	EPA 8260	RAB	13
		EPA 5030B/8260	SDR	28
		EPA 1664A	DJR	1
		SM 2540B	JMC	1
60162257002	**TRIP BLANK**	EPA 5030B/8260	SDR	28

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ANALYTICAL RESULTS

Project: Bridgeton UNTREATED COMMINGLED
Pace Project No.: 60162257

Sample: TCLP 01-30 **Lab ID: 60162257001** Collected: 01/30/14 09:40 Received: 01/31/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP	Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 02/04/14 00:00								
Benzene	**922**	ug/L	250	500	5		02/06/14 11:35	71-43-2	
2-Butanone (MEK)	**55200**	ug/L	25000	200000	25		02/06/14 12:05	78-93-3	
Carbon tetrachloride	ND	ug/L	250	500	5		02/06/14 11:35	56-23-5	
Chlorobenzene	ND	ug/L	250	100000	5		02/06/14 11:35	108-90-7	
Chloroform	ND	ug/L	1000	6000	5		02/06/14 11:35	67-66-3	
1,2-Dichloroethane	ND	ug/L	250	500	5		02/06/14 11:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	250	700	5		02/06/14 11:35	75-35-4	
Tetrachloroethene	ND	ug/L	250	700	5		02/06/14 11:35	127-18-4	
Trichloroethene	ND	ug/L	250	500	5		02/06/14 11:35	79-01-6	
Vinyl chloride	ND	ug/L	100	200	5		02/06/14 11:35	75-01-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	100	%	80-120		5		02/06/14 11:35	17060-07-0	
Toluene-d8 (S)	100	%	80-120		5		02/06/14 11:35	2037-26-5	
4-Bromofluorobenzene (S)	100	%	80-120		5		02/06/14 11:35	460-00-4	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	**137000**	ug/L	2500		250		02/03/14 17:04	67-64-1	
Benzene	**1250**	ug/L	250		250		02/03/14 17:04	71-43-2	
Bromodichloromethane	ND	ug/L	250		250		02/03/14 17:04	75-27-4	
Bromoform	ND	ug/L	250		250		02/03/14 17:04	75-25-2	
Bromomethane	ND	ug/L	1250		250		02/03/14 17:04	74-83-9	
2-Butanone (MEK)	**92000**	ug/L	2500		250		02/03/14 17:04	78-93-3	
Carbon tetrachloride	ND	ug/L	250		250		02/03/14 17:04	56-23-5	
Chloroethane	ND	ug/L	250		250		02/03/14 17:04	75-00-3	
Chloroform	ND	ug/L	250		250		02/03/14 17:04	67-66-3	
1,4-Dichlorobenzene	**591**	ug/L	250		250		02/03/14 17:04	106-46-7	
1,2-Dichloroethane	ND	ug/L	250		250		02/03/14 17:04	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	250		250		02/03/14 17:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	250		250		02/03/14 17:04	156-60-5	
Ethylbenzene	**269**	ug/L	250		250		02/03/14 17:04	100-41-4	
Methylene chloride	ND	ug/L	250		250		02/03/14 17:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2720**	ug/L	2500		250		02/03/14 17:04	108-10-1	
1,1,2,2-Tetrachloroethane	ND	ug/L	250		250		02/03/14 17:04	79-34-5	
Tetrachloroethene	ND	ug/L	250		250		02/03/14 17:04	127-18-4	
Toluene	**285**	ug/L	250		250		02/03/14 17:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	250		250		02/03/14 17:04	71-55-6	
1,1,2-Trichloroethane	**521**	ug/L	250		250		02/03/14 17:04	79-00-5	
Trichloroethene	ND	ug/L	250		250		02/03/14 17:04	79-01-6	
Vinyl chloride	ND	ug/L	250		250		02/03/14 17:04	75-01-4	
Xylene (Total)	**934**	ug/L	750		250		02/03/14 17:04	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		250		02/03/14 17:04	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	80-120		250		02/03/14 17:04	17060-07-0	
Toluene-d8 (S)	100	%	80-120		250		02/03/14 17:04	2037-26-5	
Preservation pH	**5.0**		0.10		250		02/03/14 17:04		pH

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ANALYTICAL RESULTS

Project: Bridgeton UNTREATED COMMINGLED
Pace Project No.: 60162257

Sample: TCLP 01-30 **Lab ID: 60162257001** Collected: 01/30/14 09:40 Received: 01/31/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
HEM, Oil and Grease	Analytical Method: EPA 1664A								
Oil and Grease	**664**	mg/L	5.0		1		02/05/14 14:25		
2540B Total Solids	Analytical Method: SM 2540B								
Total Solids	**49900**	mg/L	5.0		1		02/03/14 17:14		

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ANALYTICAL RESULTS

Project: Bridgeton UNTREATED COMMINGLED
Pace Project No.: 60162257

Sample: TRIP BLANK **Lab ID: 60162257002** Collected: 01/30/14 08:00 Received: 01/31/14 01:10 Matrix: Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0		1		02/03/14 13:55	67-64-1	
Benzene	ND	ug/L	1.0		1		02/03/14 13:55	71-43-2	
Bromodichloromethane	ND	ug/L	1.0		1		02/03/14 13:55	75-27-4	
Bromoform	ND	ug/L	1.0		1		02/03/14 13:55	75-25-2	
Bromomethane	ND	ug/L	5.0		1		02/03/14 13:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0		1		02/03/14 13:55	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0		1		02/03/14 13:55	56-23-5	
Chloroethane	ND	ug/L	1.0		1		02/03/14 13:55	75-00-3	
Chloroform	ND	ug/L	1.0		1		02/03/14 13:55	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0		1		02/03/14 13:55	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0		1		02/03/14 13:55	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0		1		02/03/14 13:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0		1		02/03/14 13:55	156-60-5	
Ethylbenzene	ND	ug/L	1.0		1		02/03/14 13:55	100-41-4	
Methylene chloride	ND	ug/L	1.0		1		02/03/14 13:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0		1		02/03/14 13:55	108-10-1	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1		02/03/14 13:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0		1		02/03/14 13:55	127-18-4	
Toluene	ND	ug/L	1.0		1		02/03/14 13:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0		1		02/03/14 13:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0		1		02/03/14 13:55	79-00-5	
Trichloroethene	ND	ug/L	1.0		1		02/03/14 13:55	79-01-6	
Vinyl chloride	ND	ug/L	1.0		1		02/03/14 13:55	75-01-4	
Xylene (Total)	ND	ug/L	3.0		1		02/03/14 13:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	80-120		1		02/03/14 13:55	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		02/03/14 13:55	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		02/03/14 13:55	2037-26-5	
Preservation pH	**1.0**		0.10		1		02/03/14 13:55		

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QUALITY CONTROL DATA

Project: Bridgeton UNTREATED COMMINGLED
Pace Project No.: 60162257

QC Batch: MSV/59277 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 60162257001

METHOD BLANK: 1326953 | Matrix: Water
Associated Lab Samples: 60162257001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	02/06/14 10:48	
1,2-Dichloroethane	ug/L	ND	50.0	02/06/14 10:48	
2-Butanone (MEK)	ug/L	ND	1000	02/06/14 10:48	
Benzene	ug/L	ND	50.0	02/06/14 10:48	
Carbon tetrachloride	ug/L	ND	50.0	02/06/14 10:48	
Chlorobenzene	ug/L	ND	50.0	02/06/14 10:48	
Chloroform	ug/L	ND	200	02/06/14 10:48	
Tetrachloroethene	ug/L	ND	50.0	02/06/14 10:48	
Trichloroethene	ug/L	ND	50.0	02/06/14 10:48	
Vinyl chloride	ug/L	ND	20.0	02/06/14 10:48	
1,2-Dichloroethane-d4 (S)	%	104	80-120	02/06/14 10:48	
4-Bromofluorobenzene (S)	%	101	80-120	02/06/14 10:48	
Toluene-d8 (S)	%	100	80-120	02/06/14 10:48	

LABORATORY CONTROL SAMPLE: 1326954

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	1000	1010	101	70-127	
1,2-Dichloroethane	ug/L	1000	996	100	72-122	
2-Butanone (MEK)	ug/L	5000	3740	75	69-124	
Benzene	ug/L	1000	1070	107	73-122	
Carbon tetrachloride	ug/L	1000	1250	125	73-125	
Chlorobenzene	ug/L	1000	1030	103	80-120	
Chloroform	ug/L	1000	1090	109	76-120	
Tetrachloroethene	ug/L	1000	1100	110	79-122	
Trichloroethene	ug/L	1000	1070	107	76-120	
Vinyl chloride	ug/L	1000	1020	102	57-140	
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			101	80-120	

MATRIX SPIKE SAMPLE: 1326955

Parameter	Units	60162299001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	1000	986	99	66-142	
1,2-Dichloroethane	ug/L	ND	1000	1040	104	53-144	
2-Butanone (MEK)	ug/L	ND	5000	3450	68	54-127	
Benzene	ug/L	ND	1000	1070	107	48-150	
Carbon tetrachloride	ug/L	ND	1000	1190	119	68-145	
Chlorobenzene	ug/L	ND	1000	1040	104	68-131	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Bridgeton UNTREATED COMMINGLED
Pace Project No.: 60162257

MATRIX SPIKE SAMPLE: 1326955

Parameter	Units	60162299001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloroform	ug/L	ND	1000	1120	112	69-126	
Tetrachloroethene	ug/L	ND	1000	1060	106	66-139	
Trichloroethene	ug/L	ND	1000	1080	108	67-130	
Vinyl chloride	ug/L	ND	1000	909	91	47-159	
1,2-Dichloroethane-d4 (S)	%				103	80-120	
4-Bromofluorobenzene (S)	%				101	80-120	
Toluene-d8 (S)	%				101	80-120	

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QUALITY CONTROL DATA

Project: Bridgeton UNTREATED COMMINGLED
Pace Project No.: 60162257

QC Batch: MSV/59219 | Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 | Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60162257001, 60162257002

METHOD BLANK: 1325956 | Matrix: Water
Associated Lab Samples: 60162257001, 60162257002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/03/14 11:26	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/03/14 11:26	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/03/14 11:26	
1,2-Dichloroethane	ug/L	ND	1.0	02/03/14 11:26	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/03/14 11:26	
2-Butanone (MEK)	ug/L	ND	10.0	02/03/14 11:26	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/03/14 11:26	
Acetone	ug/L	ND	10.0	02/03/14 11:26	
Benzene	ug/L	ND	1.0	02/03/14 11:26	
Bromodichloromethane	ug/L	ND	1.0	02/03/14 11:26	
Bromoform	ug/L	ND	1.0	02/03/14 11:26	
Bromomethane	ug/L	ND	5.0	02/03/14 11:26	
Carbon tetrachloride	ug/L	ND	1.0	02/03/14 11:26	
Chloroethane	ug/L	ND	1.0	02/03/14 11:26	
Chloroform	ug/L	ND	1.0	02/03/14 11:26	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/03/14 11:26	
Ethylbenzene	ug/L	ND	1.0	02/03/14 11:26	
Methylene chloride	ug/L	ND	1.0	02/03/14 11:26	
Tetrachloroethene	ug/L	ND	1.0	02/03/14 11:26	
Toluene	ug/L	ND	1.0	02/03/14 11:26	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/03/14 11:26	
Trichloroethene	ug/L	ND	1.0	02/03/14 11:26	
Vinyl chloride	ug/L	ND	1.0	02/03/14 11:26	
Xylene (Total)	ug/L	ND	3.0	02/03/14 11:26	
1,2-Dichloroethane-d4 (S)	%	105	80-120	02/03/14 11:26	
4-Bromofluorobenzene (S)	%	104	80-120	02/03/14 11:26	
Toluene-d8 (S)	%	100	80-120	02/03/14 11:26	

LABORATORY CONTROL SAMPLE: 1325957

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	23.4	117	75-124	
1,1,2,2-Tetrachloroethane	ug/L	20	19.7	99	73-120	
1,1,2-Trichloroethane	ug/L	20	21.0	105	76-120	
1,2-Dichloroethane	ug/L	20	21.5	108	72-122	
1,4-Dichlorobenzene	ug/L	20	22.1	110	80-120	
2-Butanone (MEK)	ug/L	100	109	109	69-124	
4-Methyl-2-pentanone (MIBK)	ug/L	100	105	105	72-123	
Acetone	ug/L	100	97.2	97	60-126	
Benzene	ug/L	20	22.5	112	73-122	
Bromodichloromethane	ug/L	20	22.8	114	73-120	

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QUALITY CONTROL DATA

Project: Bridgeton UNTREATED COMMINGLED
Pace Project No.: 60162257

LABORATORY CONTROL SAMPLE: 1325957

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.9	104	74-120	
Bromomethane	ug/L	20	18.8	94	40-146	
Carbon tetrachloride	ug/L	20	24.6	123	73-125	
Chloroethane	ug/L	20	23.1	116	56-159	
Chloroform	ug/L	20	22.8	114	76-120	
cis-1,2-Dichloroethene	ug/L	20	21.4	107	69-120	
Ethylbenzene	ug/L	20	22.1	111	76-123	
Methylene chloride	ug/L	20	23.0	115	71-123	
Tetrachloroethene	ug/L	20	21.8	109	79-122	
Toluene	ug/L	20	21.2	106	76-122	
trans-1,2-Dichloroethene	ug/L	20	21.8	109	78-126	
Trichloroethene	ug/L	20	20.1	101	76-120	
Vinyl chloride	ug/L	20	20.9	105	57-140	
Xylene (Total)	ug/L	60	67.6	113	76-122	
1,2-Dichloroethane-d4 (S)	%			103	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			100	80-120	

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QUALITY CONTROL DATA

Project: Bridgeton UNTREATED COMMINGLED
Pace Project No.: 60162257

QC Batch: WET/45991 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60162257001

METHOD BLANK: 1326698 | Matrix: Water
Associated Lab Samples: 60162257001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/05/14 14:24	

LABORATORY CONTROL SAMPLE: 1326699

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	38.4	96	78-114	

MATRIX SPIKE SAMPLE: 1326701

Parameter	Units	60162426001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	41.7	39.7	94	78-114	

SAMPLE DUPLICATE: 1326700

Parameter	Units	60162211001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1570	1360	14	18	

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QUALITY CONTROL DATA

Project: Bridgeton UNTREATED COMMINGLED
Pace Project No.: 60162257

QC Batch: WET/45802 | Analysis Method: SM 2540B
QC Batch Method: SM 2540B | Analysis Description: 2540B Total Solids
Associated Lab Samples: 60162257001

METHOD BLANK: 1322360 | Matrix: Water
Associated Lab Samples: 60162257001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	5.0	02/03/14 07:56	

LABORATORY CONTROL SAMPLE: 1326181

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	1000	1030	103	80-120	

SAMPLE DUPLICATE: 1322362

Parameter	Units	60161916001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	56600	56000	1	10	H1

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QUALIFIERS

Project: Bridgeton UNTREATED COMMINGLED
Pace Project No.: 60162257

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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.

BATCH QUALIFIERS

Batch: MSV/59219

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

H1	Analysis conducted outside the EPA method holding time.
pH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Bridgeton UNTREATED COMMINGLED
Pace Project No.: 60162257

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60162257001	**TCLP 01-30**	EPA 8260	MSV/59277		
60162257001	**TCLP 01-30**	EPA 5030B/8260	MSV/59219		
60162257002	**TRIP BLANK**	EPA 5030B/8260	MSV/59219		
60162257001	**TCLP 01-30**	EPA 1664A	WET/45991		
60162257001	**TCLP 01-30**	SM 2540B	WET/45802		

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Sample Condition Upon Receipt

WO#: 60162257

60162257

Client Name: Barr Eng

Optional
Proj Due Date:
Proj Name:

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

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☑

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☑ Foam ☑ None ☐ Other ☑ ZPIC

Thermometer Used: T-239 / T-194 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 4.0

Temperature should be above freezing to 6°C

Date and initials of person examining contents: pvl/31/14

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 & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☐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	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix:	WT	13.
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed / Lot # of added preservative
Trip Blank present:	☑Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): 112513-3	pvl/31/14	15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State: MO

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 2/3/14

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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.

Page: of

Section A Required Client Information:

Company:	BARR ENGINEERING
Address:	
Email To:	
Phone:	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	ED GALBRAITH/BARR
Copy To:	SCOTT FEDAK/FEEZOR
	DANA BAKER/MARGARET TREANOR-BARR
Purchase Order No.:	PO 3727110
Project Name:	UNTREATED COMMINGLED
Project Number:	

Section C Invoice Information:

Attention:	JANET ROLLEN
Company Name:	REPUBLIC SERVICES
Address:	BRIDGETON, MO 63044
Pace Quote Reference:	
Pace Project Manager:	Angie Brown 913-563-1402
Pace Profile #:	PROFILE 6787-LINE 6

REGULATORY AGENCY

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

Site Location STATE: MO

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 COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED 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)	8260 Volatiles **	TCLP Volatiles *	% Solids	Oil and Grease	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	TCLP 01-30	WT	G	01-30-14	0940	—			3	1	2	1	3	1	1				X	X	X	X		** total VOCs Bridgeton List
2																								* footnote %dry solids TCLP
3																								2DGAHTB
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

60162257

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Paul Lukas UPS/FEDEX	1/30/14	1605	Jennifer Martin	1/30/14	1605				
				PAE	1/31/14	0110	4.0	Y	Y	Y

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	John Powell					
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 01-30-14				

*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.

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TCLP/SPLP Determination of Percent Solids

(Only if sample is liquid or semi-liquid. Skip if sample is obviously 100% solid.)

Date: 2/5/14 Batch: C0122

Analyst: CEM Balance ID: C0008KT2 Reviewed by: _____

Sample Number	A Weight of Beaker (g)	B Weight of Sample & Beaker (g)	C Weight of Filtrate Container (g)	D Weight of 142-mm TCLP Filter (g)	E Weight of Waste Beaker After Filtration (g)	F Weight of Filtrate & Container (g)	G Weight of Filter and Solid Phase After Filtration (g)	H Weight of Filtrate (g) (F - C)	I Weight of Waste Filtered (g) (E - B)	J Percent WET Solids $\left(\frac{(I - H)}{I \times 0.01}\right)$	K DRY Weight #1 of Solid Phase plus Filter (g)	L DRY Weight #2 of Solid Phase plus Filter (g) (1)	M Percent DRY Solids $\left(\frac{(L - D)}{I \times 0.01}\right)$	If Multiphase, Are Phases Compatible (2)
60122257001	121.0	221.4	122.2	1.3	121.9	220.1	2.3	97.9	100.4	2.5%	1.4	1.3	Ø	Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA
						CEM	2/5/14							Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA
														Yes / No / NA

NOTE: If Wet Solids are ≥0.5 and <5% and a small amount of liquid is entrapped in the filter, then determine Percent Dry Solids. If the entrapped liquid is oily (non-aqueous) do not determine Percent Dry Solids. If Solids are <0.5%, tumbling is not required because the filtrate is considered to be the TCLP/SPLP extract.

(1) Dry Weight #1 and Dry Weight #2 must be within 1% of each other. If the weights are within 1% of each other, use Dry Weight #2 in further calculations. If not within 1%, continue drying and weighing until two successive weighings are within 1%.

(2) If compatible, combine the filtered liquid resulting from extraction with the initial liquid phase of sample. If the initial liquid phase is not compatible with the filtered liquid resulting from extraction, do not combine. Analyze liquids separately and combine the results mathematically.

If solids are ≥5.0 and <100%	Weight of waste to charge the ZHE = $\frac{25}{\text{Percent solids}} \times 100$ Weight of waste to filter = $\frac{\text{mL of leachate required}}{20 \times \text{Percent solids}} \times 100$

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February 10, 2014

Ed Galbraith
Barr Engineering Company
1001 Diamond Ridge, Ste 1100
Jefferson City, MO 65101

RE: Project: BRIDGETON LF 136-207R2
Pace Project No.: 60162293

Dear Ed Galbraith:
Enclosed are the analytical results for sample(s) received by the laboratory on February 01, 2014. 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,

Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana Baker, Barr Engineering Co.
Scott Fedak, Feezor Engineering
Margaret Treanor, Barr Engineering Company

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CERTIFICATIONS

Project: BRIDGETON LF 136-207R2
Pace Project No.: 60162293

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 136-207R2
Pace Project No.: 60162293

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60162293001	**316-207R2**	Water	01/31/14 11:00	02/01/14 02:45
60162293002	**TRIP BLANK**	Water	01/31/14 08:00	02/01/14 02:45

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 136-207R2
Pace Project No.: 60162293

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60162293001	**316-207R2**	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	16
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC	1
		SM 4500-H+B	JML	1
		SM 5210B	JML	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC	1
60162293002	**TRIP BLANK**	EPA 624 Low	EAK	28

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ANALYTICAL RESULTS

Project: BRIDGETON LF 136-207R2
Pace Project No.: 60162293

Sample: 316-207R2 **Lab ID: 60162293001** Collected: 01/31/14 11:00 Received: 02/01/14 02:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	**2850**	ug/L	750	2	02/05/14 14:15	02/06/14 12:09	7429-90-5	M1,R1
Antimony	ND	ug/L	50.0	1	02/05/14 14:15	02/06/14 12:07	7440-36-0	
Arsenic	**838**	ug/L	50.0	1	02/05/14 14:15	02/06/14 12:07	7440-38-2	
Beryllium	ND	ug/L	5.0	1	02/05/14 14:15	02/06/14 12:07	7440-41-7	
Cadmium	ND	ug/L	25.0	1	02/05/14 14:15	02/06/14 12:07	7440-43-9	
Chromium	**196**	ug/L	25.0	1	02/05/14 14:15	02/06/14 12:07	7440-47-3	
Cobalt	**29.5**	ug/L	25.0	1	02/05/14 14:15	02/06/14 12:07	7440-48-4	
Copper	ND	ug/L	50.0	1	02/05/14 14:15	02/06/14 12:07	7440-50-8	
Iron	**530000**	ug/L	250	1	02/05/14 14:15	02/06/14 12:07	7439-89-6	M1,R1
Lead	**47.2**	ug/L	25.0	1	02/05/14 14:15	02/06/14 12:07	7439-92-1	
Nickel	**76.8**	ug/L	25.0	1	02/05/14 14:15	02/06/14 12:07	7440-02-0	
Selenium	ND	ug/L	75.0	1	02/05/14 14:15	02/06/14 12:07	7782-49-2	
Silver	ND	ug/L	35.0	1	02/05/14 14:15	02/06/14 12:07	7440-22-4	
Thallium	ND	ug/L	100	1	02/05/14 14:15	02/06/14 12:07	7440-28-0	
Zinc	**4710**	ug/L	500	2	02/05/14 14:15	02/06/14 12:09	7440-66-6	M1,R1
200.7 Metals, Dissolved (LF)	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	**1950**	ug/L	750	2	02/05/14 14:15	02/06/14 11:26	7429-90-5	
Antimony, Dissolved	**58.1**	ug/L	50.0	1	02/05/14 14:15	02/06/14 11:19	7440-36-0	D9
Arsenic, Dissolved	**748**	ug/L	50.0	1	02/05/14 14:15	02/06/14 11:19	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	02/05/14 14:15	02/06/14 11:19	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	02/05/14 14:15	02/06/14 11:19	7440-43-9	
Chromium, Dissolved	**171**	ug/L	25.0	1	02/05/14 14:15	02/06/14 11:19	7440-47-3	
Cobalt, Dissolved	**26.1**	ug/L	25.0	1	02/05/14 14:15	02/06/14 11:19	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	02/05/14 14:15	02/06/14 11:19	7440-50-8	
Iron, Dissolved	**513000**	ug/L	250	1	02/05/14 14:15	02/06/14 11:19	7439-89-6	M1
Lead, Dissolved	**50.8**	ug/L	25.0	1	02/05/14 14:15	02/06/14 11:19	7439-92-1	D9
Nickel, Dissolved	**71.2**	ug/L	25.0	1	02/05/14 14:15	02/06/14 11:19	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	02/05/14 14:15	02/06/14 11:19	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	02/05/14 14:15	02/06/14 11:19	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	02/05/14 14:15	02/06/14 11:19	7440-28-0	
Zinc, Dissolved	**4010**	ug/L	500	2	02/05/14 14:15	02/06/14 11:26	7440-66-6	
245.1 Mercury	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	**21.4**	ug/L	6.0	1	02/10/14 11:10	02/10/14 16:21	7439-97-6	
245.1 Mercury, Dissolved (LF)	Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	6.0	1	02/05/14 12:00	02/06/14 10:48	7439-97-6	
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	02/06/14 00:00	02/07/14 13:48	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	02/06/14 00:00	02/07/14 13:48	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	02/06/14 00:00	02/07/14 13:48	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	02/06/14 00:00	02/07/14 13:48	67-72-1	
Naphthalene	**1090**	ug/L	1000	2	02/06/14 00:00	02/07/14 13:48	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	02/06/14 00:00	02/07/14 13:48	98-95-3	M1

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ANALYTICAL RESULTS

Project: BRIDGETON LF 136-207R2
Pace Project No.: 60162293

Sample: 316-207R2 **Lab ID: 60162293001** Collected: 01/31/14 11:00 Received: 02/01/14 02:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV	Analytical Method: EPA 625 Preparation Method: EPA 625							
Pentachlorophenol	ND	ug/L	1000	2	02/06/14 00:00	02/07/14 13:48	87-86-5	
Phenol	**9380**	ug/L	1000	2	02/06/14 00:00	02/07/14 13:48	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	1000	2	02/06/14 00:00	02/07/14 13:48	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	1000	2	02/06/14 00:00	02/07/14 13:48	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	156	%	33-120	2	02/06/14 00:00	02/07/14 13:48	4165-60-0	S0
2-Fluorobiphenyl (S)	94	%	39-120	2	02/06/14 00:00	02/07/14 13:48	321-60-8	
Terphenyl-d14 (S)	100	%	45-120	2	02/06/14 00:00	02/07/14 13:48	1718-51-0	
Phenol-d6 (S)	28	%	11-120	2	02/06/14 00:00	02/07/14 13:48	13127-88-3	
2-Fluorophenol (S)	41	%	17-120	2	02/06/14 00:00	02/07/14 13:48	367-12-4	
2,4,6-Tribromophenol (S)	97	%	39-120	2	02/06/14 00:00	02/07/14 13:48	118-79-6	
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	**206000**	ug/L	2500	250		02/03/14 17:14	67-64-1	M1,N2
Benzene	ND	ug/L	250	250		02/03/14 17:14	71-43-2	
Bromodichloromethane	ND	ug/L	250	250		02/03/14 17:14	75-27-4	
Bromoform	ND	ug/L	250	250		02/03/14 17:14	75-25-2	
Bromomethane	ND	ug/L	1250	250		02/03/14 17:14	74-83-9	
2-Butanone (MEK)	**104000**	ug/L	2500	250		02/03/14 17:14	78-93-3	M1,N2
Carbon tetrachloride	ND	ug/L	250	250		02/03/14 17:14	56-23-5	
Chloroethane	ND	ug/L	250	250		02/03/14 17:14	75-00-3	
Chloroform	ND	ug/L	250	250		02/03/14 17:14	67-66-3	
1,4-Dichlorobenzene	**779**	ug/L	250	250		02/03/14 17:14	106-46-7	
1,2-Dichloroethane	ND	ug/L	250	250		02/03/14 17:14	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	250	250		02/03/14 17:14	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	250	250		02/03/14 17:14	156-60-5	
Ethylbenzene	ND	ug/L	250	250		02/03/14 17:14	100-41-4	
Methylene chloride	ND	ug/L	250	250		02/03/14 17:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	**3270**	ug/L	2500	250		02/03/14 17:14	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	250	250		02/03/14 17:14	79-34-5	N2
Tetrachloroethene	ND	ug/L	250	250		02/03/14 17:14	127-18-4	
Toluene	ND	ug/L	250	250		02/03/14 17:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	250	250		02/03/14 17:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	250	250		02/03/14 17:14	79-00-5	
Trichloroethene	ND	ug/L	250	250		02/03/14 17:14	79-01-6	
Vinyl chloride	ND	ug/L	250	250		02/03/14 17:14	75-01-4	
Xylene (Total)	ND	ug/L	750	250		02/03/14 17:14	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	250		02/03/14 17:14	460-00-4	HS
Toluene-d8 (S)	102	%	80-120	250		02/03/14 17:14	2037-26-5	
1,2-Dichloroethane-d4 (S)	98	%	80-120	250		02/03/14 17:14	17060-07-0	
Preservation pH	**6.0**		1.0	250		02/03/14 17:14		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	**952**	mg/L	5.0	1		02/07/14 15:44		M1

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ANALYTICAL RESULTS

Project: BRIDGETON LF 136-207R2
Pace Project No.: 60162293

Sample: 316-207R2 **Lab ID: 60162293001** Collected: 01/31/14 11:00 Received: 02/01/14 02:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	**9.6**	mg/L	5.0	1		02/10/14 09:56		M1
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	**2220**	mg/L	5.0	1		02/05/14 13:31		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	**5.5**	Std. Units	0.10	1		02/04/14 08:11		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	**28400**	mg/L	2.0	1	02/01/14 13:51	02/06/14 15:01		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**763**	mg/L	20.0	200		02/03/14 14:19	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	**58000**	mg/L	5000	500		02/07/14 09:33		M1

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ANALYTICAL RESULTS

Project: BRIDGETON LF 136-207R2
Pace Project No.: 60162293

Sample: TRIP BLANK **Lab ID: 60162293002** Collected: 01/31/14 08:00 Received: 02/01/14 02:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Acetone	ND	ug/L	10.0	1		02/03/14 17:45	67-64-1	N2
Benzene	ND	ug/L	1.0	1		02/03/14 17:45	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		02/03/14 17:45	75-27-4	
Bromoform	ND	ug/L	1.0	1		02/03/14 17:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/03/14 17:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/03/14 17:45	78-93-3	N2
Carbon tetrachloride	ND	ug/L	1.0	1		02/03/14 17:45	56-23-5	
Chloroethane	ND	ug/L	1.0	1		02/03/14 17:45	75-00-3	
Chloroform	ND	ug/L	1.0	1		02/03/14 17:45	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		02/03/14 17:45	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0	1		02/03/14 17:45	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		02/03/14 17:45	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		02/03/14 17:45	156-60-5	
Ethylbenzene	ND	ug/L	1.0	1		02/03/14 17:45	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		02/03/14 17:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/03/14 17:45	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		02/03/14 17:45	79-34-5	N2
Tetrachloroethene	ND	ug/L	1.0	1		02/03/14 17:45	127-18-4	
Toluene	ND	ug/L	1.0	1		02/03/14 17:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		02/03/14 17:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		02/03/14 17:45	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		02/03/14 17:45	79-01-6	
Vinyl chloride	ND	ug/L	1.0	1		02/03/14 17:45	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		02/03/14 17:45	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	1		02/03/14 17:45	460-00-4	
Toluene-d8 (S)	105	%	80-120	1		02/03/14 17:45	2037-26-5	
1,2-Dichloroethane-d4 (S)	104	%	80-120	1		02/03/14 17:45	17060-07-0	
Preservation pH	**6.0**		1.0	1		02/03/14 17:45		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 136-207R2
Pace Project No.: 60162293

QC Batch: MERP/8118 | Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 | Analysis Description: 245.1 Mercury
Associated Lab Samples: 60162293001

METHOD BLANK: 1328060 | Matrix: Water
Associated Lab Samples: 60162293001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/10/14 16:07	

LABORATORY CONTROL SAMPLE: 1328061

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	91	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1328062 1328063

Parameter	Units	60162293001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	21.4	150	150	156	148	90	84	70-130	5	20	

MATRIX SPIKE SAMPLE: 1328147

Parameter	Units	60162211001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	34.1	600	468	72	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 136-207R2
Pace Project No.: 60162293

QC Batch: MERP/8111
QC Batch Method: EPA 245.1
Analysis Method: EPA 245.1
Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60162293001

METHOD BLANK: 1326614
Matrix: Water
Associated Lab Samples: 60162293001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/06/14 10:37	

LABORATORY CONTROL SAMPLE: 1326615

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.1	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1326616 1326617

Parameter	Units	60162293001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	142	151	94	100	70-130	6	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 136-207R2
Pace Project No.: 60162293

QC Batch: MPRP/26072
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60162293001

METHOD BLANK: 1326654
Matrix: Water
Associated Lab Samples: 60162293001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	02/06/14 11:55	
Antimony	ug/L	ND	10.0	02/06/14 11:55	
Arsenic	ug/L	ND	10.0	02/06/14 11:55	
Beryllium	ug/L	ND	1.0	02/06/14 11:55	
Cadmium	ug/L	ND	5.0	02/06/14 11:55	
Chromium	ug/L	ND	5.0	02/06/14 11:55	
Cobalt	ug/L	ND	5.0	02/06/14 11:55	
Copper	ug/L	ND	10.0	02/06/14 11:55	
Iron	ug/L	ND	50.0	02/06/14 11:55	
Lead	ug/L	ND	5.0	02/06/14 11:55	
Nickel	ug/L	ND	5.0	02/06/14 11:55	
Selenium	ug/L	ND	15.0	02/06/14 11:55	
Silver	ug/L	ND	7.0	02/06/14 11:55	
Thallium	ug/L	ND	20.0	02/06/14 11:55	
Zinc	ug/L	ND	50.0	02/06/14 11:55	

LABORATORY CONTROL SAMPLE: 1326655

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9500	95	85-115	
Antimony	ug/L	1000	992	99	85-115	
Arsenic	ug/L	1000	938	94	85-115	
Beryllium	ug/L	1000	970	97	85-115	
Cadmium	ug/L	1000	970	97	85-115	
Chromium	ug/L	1000	965	96	85-115	
Cobalt	ug/L	1000	1010	101	85-115	
Copper	ug/L	1000	961	96	85-115	
Iron	ug/L	10000	9680	97	85-115	
Lead	ug/L	1000	1010	101	85-115	
Nickel	ug/L	1000	1010	101	85-115	
Selenium	ug/L	1000	979	98	85-115	
Silver	ug/L	500	487	97	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	995	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1326656 1326657

Parameter	Units	60162293001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	2850	50000	50000	55100	69800	104	134	70-130	24	8	M1,R1

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 136-207R2
Pace Project No.: 60162293

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1326656 1326657

Parameter	Units	60162293001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	5000	5000	5240	5320	104	106	70-130	2	7	
Arsenic	ug/L	838	5000	5000	6040	6520	104	114	70-130	8	10	
Beryllium	ug/L	ND	5000	5000	4720	4680	94	94	70-130	1	7	
Cadmium	ug/L	ND	5000	5000	5060	5130	101	103	70-130	1	10	
Chromium	ug/L	196	5000	5000	4870	4890	94	94	70-130	0	10	
Cobalt	ug/L	29.5	5000	5000	4770	4730	95	94	70-130	1	6	
Copper	ug/L	ND	5000	5000	5080	5100	102	102	70-130	0	11	
Iron	ug/L	530000	50000	50000	644000	859000	227	657	70-130	29	10	M1,R1
Lead	ug/L	47.2	5000	5000	4530	4480	90	89	70-130	1	10	
Nickel	ug/L	76.8	5000	5000	4740	4720	93	93	70-130	0	10	
Selenium	ug/L	ND	5000	5000	5690	5920	114	118	70-130	4	10	
Silver	ug/L	ND	2500	2500	2560	2540	102	101	70-130	1	10	
Thallium	ug/L	ND	5000	5000	4070	3980	81	80	70-130	2	6	
Zinc	ug/L	4710	5000	5000	9120	14300	88	192	70-130	44	11	M1,R1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 136-207R2
Pace Project No.: 60162293

QC Batch: MPRP/26071
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60162293001

METHOD BLANK: 1326650
Matrix: Water
Associated Lab Samples: 60162293001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	02/06/14 10:58	
Antimony, Dissolved	ug/L	ND	10.0	02/06/14 10:58	
Arsenic, Dissolved	ug/L	ND	10.0	02/06/14 10:58	
Beryllium, Dissolved	ug/L	ND	1.0	02/06/14 10:58	
Cadmium, Dissolved	ug/L	ND	5.0	02/06/14 10:58	
Chromium, Dissolved	ug/L	ND	5.0	02/06/14 10:58	
Cobalt, Dissolved	ug/L	ND	5.0	02/06/14 10:58	
Copper, Dissolved	ug/L	ND	10.0	02/06/14 10:58	
Iron, Dissolved	ug/L	ND	50.0	02/06/14 10:58	
Lead, Dissolved	ug/L	ND	5.0	02/06/14 10:58	
Nickel, Dissolved	ug/L	ND	5.0	02/06/14 10:58	
Selenium, Dissolved	ug/L	ND	15.0	02/06/14 10:58	
Silver, Dissolved	ug/L	ND	7.0	02/06/14 10:58	
Thallium, Dissolved	ug/L	ND	20.0	02/06/14 10:58	
Zinc, Dissolved	ug/L	ND	50.0	02/06/14 10:58	

LABORATORY CONTROL SAMPLE: 1326651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9460	95	85-115	
Antimony, Dissolved	ug/L	1000	986	99	85-115	
Arsenic, Dissolved	ug/L	1000	936	94	85-115	
Beryllium, Dissolved	ug/L	1000	970	97	85-115	
Cadmium, Dissolved	ug/L	1000	966	97	85-115	
Chromium, Dissolved	ug/L	1000	978	98	85-115	
Cobalt, Dissolved	ug/L	1000	1000	100	85-115	
Copper, Dissolved	ug/L	1000	963	96	85-115	
Iron, Dissolved	ug/L	10000	9800	98	85-115	
Lead, Dissolved	ug/L	1000	1010	101	85-115	
Nickel, Dissolved	ug/L	1000	1000	100	85-115	
Selenium, Dissolved	ug/L	1000	981	98	85-115	
Silver, Dissolved	ug/L	500	490	98	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	993	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1326652 1326653

Parameter	Units	60162293001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	1950	50000	50000	51300	51100	99	98	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 136-207R2
Pace Project No.: 60162293

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1326652 1326653

Parameter	Units	60162293001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	ug/L	58.1	5000	5000	5300	5280	105	104	70-130	1	7	
Arsenic, Dissolved	ug/L	748	5000	5000	6190	6140	109	108	70-130	1	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	4800	4750	96	95	70-130	1	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5120	5090	102	102	70-130	1	10	
Chromium, Dissolved	ug/L	171	5000	5000	4920	4880	95	94	70-130	1	10	
Cobalt, Dissolved	ug/L	26.1	5000	5000	4790	4760	95	95	70-130	1	6	
Copper, Dissolved	ug/L	ND	5000	5000	5130	5120	103	102	70-130	0	11	
Iron, Dissolved	ug/L	513000	50000	50000	622000	642000	219	258	70-130	3	10	M1
Lead, Dissolved	ug/L	50.8	5000	5000	4560	4520	90	89	70-130	1	10	
Nickel, Dissolved	ug/L	71.2	5000	5000	4800	4740	95	93	70-130	1	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5810	5760	116	115	70-130	1	10	
Silver, Dissolved	ug/L	ND	2500	2500	2620	2620	105	105	70-130	0	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4120	4090	82	82	70-130	1	6	
Zinc, Dissolved	ug/L	4010	5000	5000	9420	9340	108	107	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 136-207R2
Pace Project No.: 60162293

QC Batch: MSV/59247 | Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low | Analysis Description: 624 MSV
Associated Lab Samples: 60162293001, 60162293002

METHOD BLANK: 1326142 | Matrix: Water
Associated Lab Samples: 60162293001, 60162293002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/03/14 16:00	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/03/14 16:00	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	02/03/14 16:00	
1,2-Dichloroethane	ug/L	ND	1.0	02/03/14 16:00	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/03/14 16:00	
2-Butanone (MEK)	ug/L	ND	10.0	02/03/14 16:00	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/03/14 16:00	N2
Acetone	ug/L	ND	10.0	02/03/14 16:00	N2
Benzene	ug/L	ND	1.0	02/03/14 16:00	
Bromodichloromethane	ug/L	ND	1.0	02/03/14 16:00	
Bromoform	ug/L	ND	1.0	02/03/14 16:00	
Bromomethane	ug/L	ND	5.0	02/03/14 16:00	
Carbon tetrachloride	ug/L	ND	1.0	02/03/14 16:00	
Chloroethane	ug/L	ND	1.0	02/03/14 16:00	
Chloroform	ug/L	ND	1.0	02/03/14 16:00	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/03/14 16:00	N2
Ethylbenzene	ug/L	ND	1.0	02/03/14 16:00	
Methylene chloride	ug/L	ND	1.0	02/03/14 16:00	
Tetrachloroethene	ug/L	ND	1.0	02/03/14 16:00	
Toluene	ug/L	ND	1.0	02/03/14 16:00	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/03/14 16:00	
Trichloroethene	ug/L	ND	1.0	02/03/14 16:00	
Vinyl chloride	ug/L	ND	1.0	02/03/14 16:00	
Xylene (Total)	ug/L	ND	3.0	02/03/14 16:00	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	02/03/14 16:00	
4-Bromofluorobenzene (S)	%	104	80-120	02/03/14 16:00	
Toluene-d8 (S)	%	101	80-120	02/03/14 16:00	

LABORATORY CONTROL SAMPLE: 1326143

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.0	95	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	18.3	92	59-138	N2
1,1,2-Trichloroethane	ug/L	20	19.0	95	69-127	
1,2-Dichloroethane	ug/L	20	18.7	93	71-129	
1,4-Dichlorobenzene	ug/L	20	19.0	95	68-124	
2-Butanone (MEK)	ug/L	100	93.2	93	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	91.0	91	61-120	N2
Acetone	ug/L	100	90.9	91	40-160	N2
Benzene	ug/L	20	19.1	95	73-129	
Bromodichloromethane	ug/L	20	18.9	94	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 136-207R2
Pace Project No.: 60162293

LABORATORY CONTROL SAMPLE: 1326143

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	18.7	94	52-123	
Bromomethane	ug/L	20	17.6	88	10-160	
Carbon tetrachloride	ug/L	20	20.2	101	70-140	
Chloroethane	ug/L	20	15.2	76	42-160	
Chloroform	ug/L	20	19.3	97	60-120	
cis-1,2-Dichloroethene	ug/L	20	18.9	94	70-125	N2
Ethylbenzene	ug/L	20	19.2	96	66-133	
Methylene chloride	ug/L	20	19.5	97	56-135	
Tetrachloroethene	ug/L	20	19.4	97	64-143	
Toluene	ug/L	20	19.0	95	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.9	95	67-149	
Trichloroethene	ug/L	20	18.3	91	71-130	
Vinyl chloride	ug/L	20	18.8	94	41-160	
Xylene (Total)	ug/L	60	57.4	96	67-130	N2
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			101	80-120	

MATRIX SPIKE SAMPLE: 1324957

Parameter	Units	60162136001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	125000	25000	202000	308	40-160	HS,M1,N2

MATRIX SPIKE SAMPLE: 1326145

Parameter	Units	60162293001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	4920	98	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	4280	86	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4730	95	52-150	
1,2-Dichloroethane	ug/L	ND	5000	4350	87	49-155	
1,4-Dichlorobenzene	ug/L	779	5000	5240	89	18-147	
2-Butanone (MEK)	ug/L	104000	25000	113000	38	40-160	M1,N2
4-Methyl-2-pentanone (MIBK)	ug/L	3270	25000	23300	80	40-160	N2
Acetone	ug/L	206000	25000	202000	-16	40-160	M1,N2
Benzene	ug/L	ND	5000	4690	93	37-151	
Bromodichloromethane	ug/L	ND	5000	4540	91	35-155	
Bromoform	ug/L	ND	5000	4060	81	45-133	
Bromomethane	ug/L	ND	5000	4060	81	10-160	
Carbon tetrachloride	ug/L	ND	5000	5310	106	70-140	
Chloroethane	ug/L	ND	5000	4620	92	14-160	
Chloroform	ug/L	ND	5000	4820	96	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4760	95	19-160	N2
Ethylbenzene	ug/L	ND	5000	4750	94	37-154	
Methylene chloride	ug/L	ND	5000	4610	91	15-156	
Tetrachloroethene	ug/L	ND	5000	4900	97	64-148	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 136-207R2
Pace Project No.: 60162293

MATRIX SPIKE SAMPLE: 1326145

Parameter	Units	60162293001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	ND	5000	4710	94	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	4710	94	54-156	
Trichloroethene	ug/L	ND	5000	4670	93	71-157	
Vinyl chloride	ug/L	ND	5000	4860	97	10-160	
Xylene (Total)	ug/L	ND	15000	14400	96	12-153	N2
1,2-Dichloroethane-d4 (S)	%				98	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	HS
Toluene-d8 (S)	%				101	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 136-207R2
Pace Project No.: 60162293

QC Batch: OEXT/42604 | Analysis Method: EPA 625
QC Batch Method: EPA 625 | Analysis Description: 625 MSS
Associated Lab Samples: 60162293001

METHOD BLANK: 1326797 | Matrix: Water
Associated Lab Samples: 60162293001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/07/14 12:46	
2,4,6-Trichlorophenol	ug/L	ND	5.0	02/07/14 12:46	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	02/07/14 12:46	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/07/14 12:46	
Hexachlorocyclopentadiene	ug/L	ND	5.0	02/07/14 12:46	
Hexachloroethane	ug/L	ND	5.0	02/07/14 12:46	
Naphthalene	ug/L	ND	5.0	02/07/14 12:46	
Nitrobenzene	ug/L	ND	5.0	02/07/14 12:46	
Pentachlorophenol	ug/L	ND	5.0	02/07/14 12:46	
Phenol	ug/L	ND	5.0	02/07/14 12:46	
2,4,6-Tribromophenol (S)	%	89	39-120	02/07/14 12:46	
2-Fluorobiphenyl (S)	%	96	39-120	02/07/14 12:46	
2-Fluorophenol (S)	%	44	17-120	02/07/14 12:46	
Nitrobenzene-d5 (S)	%	87	33-120	02/07/14 12:46	
Phenol-d6 (S)	%	28	11-120	02/07/14 12:46	
Terphenyl-d14 (S)	%	99	45-120	02/07/14 12:46	

LABORATORY CONTROL SAMPLE: 1326798

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	43.7	87	46-120	
2,4,6-Trichlorophenol	ug/L	50	47.3	95	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	29.0	58	40-133	
Hexachloro-1,3-butadiene	ug/L	50	44.1	88	44-116	
Hexachlorocyclopentadiene	ug/L	100	43.9	44	24-120	
Hexachloroethane	ug/L	50	35.2	70	43-113	
Naphthalene	ug/L	50	43.4	87	48-120	
Nitrobenzene	ug/L	50	41.6	83	48-120	
Pentachlorophenol	ug/L	50	36.3	73	47-120	
Phenol	ug/L	50	13.3	27	16-112	
2,4,6-Tribromophenol (S)	%			86	39-120	
2-Fluorobiphenyl (S)	%			90	39-120	
2-Fluorophenol (S)	%			38	17-120	
Nitrobenzene-d5 (S)	%			79	33-120	
Phenol-d6 (S)	%			25	11-120	
Terphenyl-d14 (S)	%			96	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 136-207R2
Pace Project No.: 60162293

MATRIX SPIKE SAMPLE: 1326799

Parameter	Units	60162293001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	4350	87	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	5140	103	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	1880J	38	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4310	86	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	5190	52	11-120	
Hexachloroethane	ug/L	ND	5000	3730	75	40-113	
Naphthalene	ug/L	1090	5000	5410	86	45-120	
Nitrobenzene	ug/L	ND	5000	7320	146	38-120	M1
Pentachlorophenol	ug/L	ND	5000	4450	89	43-135	
Phenol	ug/L	9380	5000	11700	45	13-112	
2,4,6-Tribromophenol (S)	%				99	39-120	
2-Fluorobiphenyl (S)	%				95	39-120	
2-Fluorophenol (S)	%				39	17-120	
Nitrobenzene-d5 (S)	%				160	33-120	S0
Phenol-d6 (S)	%				27	11-120	
Terphenyl-d14 (S)	%				93	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 136-207R2
Pace Project No.: 60162293

QC Batch: WET/46028 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 HEM, Oil and Grease
Associated Lab Samples: 60162293001

METHOD BLANK: 1327613 | Matrix: Water
Associated Lab Samples: 60162293001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/07/14 15:42	

LABORATORY CONTROL SAMPLE: 1327614

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	40.4	101	78-114	

MATRIX SPIKE SAMPLE: 1327616

Parameter	Units	60162293001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	952	160	1580	392	78-114	M1

SAMPLE DUPLICATE: 1327615

Parameter	Units	60161957001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	29.0	27.9	4	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 136-207R2
Pace Project No.: 60162293

QC Batch: WET/46058 | Analysis Method: EPA 1664A
QC Batch Method: EPA 1664A | Analysis Description: 1664 SGT-HEM, TPH
Associated Lab Samples: 60162293001

METHOD BLANK: 1328148 | Matrix: Water
Associated Lab Samples: 60162293001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	02/10/14 09:55	

LABORATORY CONTROL SAMPLE: 1328149

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	15.8	79	64-132	

MATRIX SPIKE SAMPLE: 1328151

Parameter	Units	60162293001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	9.6	80	32.8	29	64-132	M1

SAMPLE DUPLICATE: 1328150

Parameter	Units	60161957001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	3.3J		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 136-207R2
Pace Project No.: 60162293

QC Batch: WET/45982
QC Batch Method: SM 2540D
Analysis Method: SM 2540D
Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 60162293001

METHOD BLANK: 1326585
Matrix: Water
Associated Lab Samples: 60162293001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	02/05/14 13:29	

SAMPLE DUPLICATE: 1326586

Parameter	Units	60162295009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2340	2120	10	10	

SAMPLE DUPLICATE: 1326588

Parameter	Units	60162293001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2220	2320	4	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 136-207R2
Pace Project No.: 60162293

QC Batch: WET/45965
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Associated Lab Samples: 60162293001

SAMPLE DUPLICATE: 1326223

Parameter	Units	60162339002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.5	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 136-207R2
Pace Project No.: 60162293

QC Batch: WET/45925 | Analysis Method: SM 5210B
QC Batch Method: SM 5210B | Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 60162293001

METHOD BLANK: 1325648 | Matrix: Water
Associated Lab Samples: 60162293001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	02/06/14 14:21	

LABORATORY CONTROL SAMPLE: 1325649

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	203	103	85-115	

SAMPLE DUPLICATE: 1325650

Parameter	Units	60162277002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	1000	1070	6	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 136-207R2
Pace Project No.: 60162293

QC Batch: WETA/28057
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60162293001

METHOD BLANK: 1325919
Matrix: Water
Associated Lab Samples: 60162293001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/03/14 13:48	

LABORATORY CONTROL SAMPLE: 1325920

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	106	90-110	

MATRIX SPIKE SAMPLE: 1325921

Parameter	Units	60162037001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2.8	2	4.6	89	90-110	M1

MATRIX SPIKE SAMPLE: 1325922

Parameter	Units	60162141001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2.0	2	3.8	91	90-110	

SAMPLE DUPLICATE: 1325923

Parameter	Units	60162293001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	763	767	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 136-207R2
Pace Project No.: 60162293

QC Batch: WETA/28077 | Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 | Analysis Description: 410.4 COD
Associated Lab Samples: 60162293001

METHOD BLANK: 1326596 | Matrix: Water
Associated Lab Samples: 60162293001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/07/14 09:06	

LABORATORY CONTROL SAMPLE: 1326597

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	52.2	104	90-110	

MATRIX SPIKE SAMPLE: 1326598

Parameter	Units	60161846001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	760	500	1210	89	90-110	M1

MATRIX SPIKE SAMPLE: 1326600

Parameter	Units	60162293001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	58000	25000	79700	87	90-110	M1

SAMPLE DUPLICATE: 1326599

Parameter	Units	60161896001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	59.4	50.6	16	25	

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QUALIFIERS

Project: BRIDGETON LF 136-207R2
Pace Project No.: 60162293

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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

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TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D9	Dissolved result is greater than the total. Data is within laboratory control limits.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 136-207R2
Pace Project No.: 60162293

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60162293001	**316-207R2**	EPA 200.7	MPRP/26072	EPA 200.7	ICP/19941
60162293001	**316-207R2**	EPA 200.7	MPRP/26071	EPA 200.7	ICP/19940
60162293001	**316-207R2**	EPA 245.1	MERP/8118	EPA 245.1	MERC/8075
60162293001	**316-207R2**	EPA 245.1	MERP/8111	EPA 245.1	MERC/8067
60162293001	**316-207R2**	EPA 625	OEXT/42604	EPA 625	MSSV/13561
60162293001	**316-207R2**	EPA 624 Low	MSV/59247		
60162293002	**TRIP BLANK**	EPA 624 Low	MSV/59247		
60162293001	**316-207R2**	EPA 1664A	WET/46028		
60162293001	**316-207R2**	EPA 1664A	WET/46058		
60162293001	**316-207R2**	SM 2540D	WET/45982		
60162293001	**316-207R2**	SM 4500-H+B	WET/45965		
60162293001	**316-207R2**	SM 5210B	WET/45925	SM 5210B	WET/46059
60162293001	**316-207R2**	EPA 350.1	WETA/28057		
60162293001	**316-207R2**	EPA 410.4	WETA/28077		

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Sample Condition Upon Receipt

WO#: 60162293

60162293

Client Name: Barr Eng

Optional
Proj Due Date:
Proj Name:

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

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☒

Custody Seal on Cooler/Box Present: Yes ☑ No ☐ Seals intact: Yes ☑ No ☐

Packing Material: Bubble Wrap ☑ Bubble Bags ☑ Foam ☑ None ☐ Other ☐

Thermometer Used: ~~T-239~~ / T-194 **Type of Ice:** (Wet) Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.2

Temperature should be above freezing to 6°C

Date and initials of person examining contents: JWD 2/1/14 750

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 & signature on COC:	☑Yes ☐No ☐N/A	4.	
Samples arrived within holding time:	☑Yes ☐No ☐N/A	5.	
Short Hold Time analyses (<72hr):	☑Yes ☐No ☐N/A	6.	BOD, pH
Rush Turn Around Time requested:	☐Yes ☑No ☐N/A	7.	
Sufficient volume:	☑Yes ☐No ☐N/A	8.	
Correct containers used:	☑Yes ☐No ☐N/A		
Pace containers used:	☑Yes ☐No ☐N/A	9.	
Containers intact:	☑Yes ☐No ☐N/A	10.	
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.	
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.	
Sample labels match COC: Includes date/time/ID/analyses Matrix: water	☑Yes ☐No ☐N/A	13.	
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A		BP3S + BP3N - unable to be preserved.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	14.	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed JWD	Lot # of added preservative
Trip Blank present: Pace Trip Blank lot # (if purchased): Covered	☑Yes ☐No ☐N/A	15.	
Headspace in VOA vials (>6mm):	☑Yes ☑No ☐N/A	16.	headspace in all sample vials — APPLY FOOTNOTE SAMPLE FOR HS BASED ON HISTORICAL INSTRUCTIONS.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☑N/A	17. List State: MO	

Client Notification/ Resolution: Copy COC to Client? Y (N) Field Data Required? Y (N)

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: MW for AKB Date: 2/1/14

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	BARR ENGINEERING	Report To:	ED GALBRAITH/BARR	Attention:	JANET ROLLEN
Address:		Copy To:	SCOTT FEDAK/FEEZOR	Company Name:	REPUBLIC SERVICES
			DANA BAKER/MARGARET TREANOR -BARR	Address:	BRIDGETON, MO 63044
Email To:		Purchase Order No.	PO 3727110	Pace Quote Reference:	130426_7588
Phone:	(816) 285-8410 Fax	Client Project ID:	BRIDGETON LF	Pace Project Manager:	Brown, Angie
Requested Due Date/TAT:	10 Day (Default)	Container Order Number:		Pace Profile #:	6787 LINE 2

Regulatory Agency	
State / Location	
Missouri	

Requested Analysis Filtered (Y/N)

ITEM#	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	COD EPA 410	pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	O/G EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B		Residual Chlorine (Y/N)	60/62293
																																5(DGPM) 3(HCl) 2(BPM) 1(BSN)
1	316-207R2	OT	G	1/31/14	1100				14	10	4	1	0						X	X	X	X	X	X	X	X	X	X	X			2(HCl) 1(BSN) 1(BSN) 001
2	TRIP BLANK								2	2																X						2(DGPM) 002
3																																
4																																
5																																
6																																METALS LIST total & LF Dis.
7																																Al,Sb,As,Be,Cd,Cr,
8																																Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn
9																																and Mercury
10																																
11																																
12																																

Preservatives: Unpreserved, H2SO4, HNO3, HCl, NaOH, Na2S2O3, Methanol, Other

Analyses Test: COD EPA 410, pH SM 4500H+B, LF DIS. METALS 200.7/245, TOTAL METALS 200.7/245, AMMONIA EPA 350, O/G EPA 1664, 625 SVOCs, VOCs EPA 624, TSS SM2540D, TPH/HEM-SGT 1664, BOD SM 5210B

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	Paul Liesenfelt / PLI	01-31-14	4:32pm	Samantha Marsh	01-31-14	4:32pm				
SITE ADDRESS: BRIDGETON LF				(Pace	2/1/14	245	2.2	Y	Y	Y
13570 ST. CHARLES ROCK RD										
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Sam Bircher		
SIGNATURE of SAMPLER:		DATE Signed:	1-31-14

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