

February 10, 2014

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

RE: Project: BRIDGETON LF 316-209R2
Pace Project No.: 60162345

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 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,



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 316-209R2

Pace Project No.: 60162345

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-209R2

Pace Project No.: 60162345

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60162345001	316-209R2	Water	02/02/14 09:30	02/03/14 13:00
60162345002	TRIP BLANK	Water	02/02/14 08:00	02/03/14 13:00

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-209R2

Pace Project No.: 60162345

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60162345001	316-209R2	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	AJM	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC	1
60162345002	TRIP BLANK	EPA 624 Low	EAK	28

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-209R2

Pace Project No.: 60162345

Sample: 316-209R2		Lab ID: 60162345001	Collected: 02/02/14 09:30	Received: 02/03/14 13:00	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	12600 ug/L		750	2	02/05/14 14:15	02/06/14 12:27	7429-90-5	
Antimony	53.0 ug/L		50.0	1	02/05/14 14:15	02/06/14 12:25	7440-36-0	
Arsenic	754 ug/L		50.0	1	02/05/14 14:15	02/06/14 12:25	7440-38-2	
Beryllium	ND ug/L		5.0	1	02/05/14 14:15	02/06/14 12:25	7440-41-7	
Cadmium	ND ug/L		25.0	1	02/05/14 14:15	02/06/14 12:25	7440-43-9	
Chromium	206 ug/L		25.0	1	02/05/14 14:15	02/06/14 12:25	7440-47-3	
Cobalt	29.0 ug/L		25.0	1	02/05/14 14:15	02/06/14 12:25	7440-48-4	
Copper	ND ug/L		50.0	1	02/05/14 14:15	02/06/14 12:25	7440-50-8	
Iron	552000 ug/L		250	1	02/05/14 14:15	02/06/14 12:25	7439-89-6	
Lead	57.4 ug/L		25.0	1	02/05/14 14:15	02/06/14 12:25	7439-92-1	
Nickel	77.2 ug/L		25.0	1	02/05/14 14:15	02/06/14 12:25	7440-02-0	
Selenium	ND ug/L		75.0	1	02/05/14 14:15	02/06/14 12:25	7782-49-2	
Silver	ND ug/L		35.0	1	02/05/14 14:15	02/06/14 12:25	7440-22-4	
Thallium	ND ug/L		100	1	02/05/14 14:15	02/06/14 12:25	7440-28-0	
Zinc	6250 ug/L		500	2	02/05/14 14:15	02/06/14 12:27	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	2470 ug/L		750	2	02/05/14 14:15	02/06/14 11:42	7429-90-5	
Antimony, Dissolved	52.4 ug/L		50.0	1	02/05/14 14:15	02/06/14 11:39	7440-36-0	
Arsenic, Dissolved	838 ug/L		50.0	1	02/05/14 14:15	02/06/14 11:39	7440-38-2	D9
Beryllium, Dissolved	ND ug/L		5.0	1	02/05/14 14:15	02/06/14 11:39	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	02/05/14 14:15	02/06/14 11:39	7440-43-9	
Chromium, Dissolved	225 ug/L		25.0	1	02/05/14 14:15	02/06/14 11:39	7440-47-3	D9
Cobalt, Dissolved	31.2 ug/L		25.0	1	02/05/14 14:15	02/06/14 11:39	7440-48-4	D9
Copper, Dissolved	ND ug/L		50.0	1	02/05/14 14:15	02/06/14 11:39	7440-50-8	
Iron, Dissolved	608000 ug/L		250	1	02/05/14 14:15	02/06/14 11:39	7439-89-6	D9
Lead, Dissolved	54.2 ug/L		25.0	1	02/05/14 14:15	02/06/14 11:39	7439-92-1	
Nickel, Dissolved	77.8 ug/L		25.0	1	02/05/14 14:15	02/06/14 11:39	7440-02-0	D9
Selenium, Dissolved	ND ug/L		75.0	1	02/05/14 14:15	02/06/14 11:39	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	02/05/14 14:15	02/06/14 11:39	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	02/05/14 14:15	02/06/14 11:39	7440-28-0	
Zinc, Dissolved	4440 ug/L		500	2	02/05/14 14:15	02/06/14 11:42	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND ug/L		6.0	1	02/10/14 11:10	02/10/14 16:28	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	02/05/14 12:00	02/06/14 10:55	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 14:09	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	02/06/14 00:00	02/07/14 14:09	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	02/06/14 00:00	02/07/14 14:09	77-47-4	
Hexachloroethane	ND ug/L		1000	2	02/06/14 00:00	02/07/14 14:09	67-72-1	
Naphthalene	ND ug/L		1000	2	02/06/14 00:00	02/07/14 14:09	91-20-3	
Nitrobenzene	ND ug/L		1000	2	02/06/14 00:00	02/07/14 14:09	98-95-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-209R2

Pace Project No.: 60162345

Sample: 316-209R2		Lab ID: 60162345001	Collected: 02/02/14 09:30	Received: 02/03/14 13:00	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	02/06/14 00:00	02/07/14 14:09	87-86-5	
Phenol	8320 ug/L		1000	2	02/06/14 00:00	02/07/14 14:09	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	02/06/14 00:00	02/07/14 14:09	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	02/06/14 00:00	02/07/14 14:09	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	119 %		33-120	2	02/06/14 00:00	02/07/14 14:09	4165-60-0	
2-Fluorobiphenyl (S)	87 %		39-120	2	02/06/14 00:00	02/07/14 14:09	321-60-8	
Terphenyl-d14 (S)	90 %		45-120	2	02/06/14 00:00	02/07/14 14:09	1718-51-0	
Phenol-d6 (S)	28 %		11-120	2	02/06/14 00:00	02/07/14 14:09	13127-88-3	
2-Fluorophenol (S)	39 %		17-120	2	02/06/14 00:00	02/07/14 14:09	367-12-4	
2,4,6-Tribromophenol (S)	90 %		39-120	2	02/06/14 00:00	02/07/14 14:09	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	134000 ug/L		2000	200		02/03/14 18:00	67-64-1	N2
Benzene	ND ug/L		200	200		02/03/14 18:00	71-43-2	
Bromodichloromethane	ND ug/L		200	200		02/03/14 18:00	75-27-4	
Bromoform	ND ug/L		200	200		02/03/14 18:00	75-25-2	
Bromomethane	ND ug/L		1000	200		02/03/14 18:00	74-83-9	
2-Butanone (MEK)	92300 ug/L		2000	200		02/03/14 18:00	78-93-3	N2
Carbon tetrachloride	ND ug/L		200	200		02/03/14 18:00	56-23-5	
Chloroethane	ND ug/L		200	200		02/03/14 18:00	75-00-3	
Chloroform	ND ug/L		200	200		02/03/14 18:00	67-66-3	
1,4-Dichlorobenzene	1000 ug/L		200	200		02/03/14 18:00	106-46-7	
1,2-Dichloroethane	ND ug/L		200	200		02/03/14 18:00	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200	200		02/03/14 18:00	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		200	200		02/03/14 18:00	156-60-5	
Ethylbenzene	ND ug/L		200	200		02/03/14 18:00	100-41-4	
Methylene chloride	ND ug/L		200	200		02/03/14 18:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	3310 ug/L		2000	200		02/03/14 18:00	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		02/03/14 18:00	79-34-5	N2
Tetrachloroethene	ND ug/L		200	200		02/03/14 18:00	127-18-4	
Toluene	ND ug/L		200	200		02/03/14 18:00	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		02/03/14 18:00	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		02/03/14 18:00	79-00-5	
Trichloroethene	ND ug/L		200	200		02/03/14 18:00	79-01-6	
Vinyl chloride	ND ug/L		200	200		02/03/14 18:00	75-01-4	
Xylene (Total)	ND ug/L		600	200		02/03/14 18:00	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	95 %		80-120	200		02/03/14 18:00	460-00-4	
Toluene-d8 (S)	102 %		80-120	200		02/03/14 18:00	2037-26-5	
1,2-Dichloroethane-d4 (S)	107 %		80-120	200		02/03/14 18:00	17060-07-0	
Preservation pH	6.0		1.0	200		02/03/14 18:00		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1440 mg/L		5.0	1		02/07/14 15:44		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-209R2

Pace Project No.: 60162345

Sample: 316-209R2		Lab ID: 60162345001	Collected: 02/02/14 09:30	Received: 02/03/14 13:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	12.0	mg/L	5.0	1		02/10/14 09:56		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	1380	mg/L	5.0	1		02/05/14 13:32		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4	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	35300	mg/L	2.0	1	02/03/14 14:18	02/08/14 13:02		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	738	mg/L	20.0	200		02/06/14 11:14	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	56000	mg/L	5000	500		02/07/14 09:33		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-209R2

Pace Project No.: 60162345

Sample: TRIP BLANK		Lab ID: 60162345002	Collected: 02/02/14 08:00	Received: 02/03/14 13:00	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		02/03/14 18:15	67-64-1	N2
Benzene	ND ug/L		1.0	1		02/03/14 18:15	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		02/03/14 18:15	75-27-4	
Bromoform	ND ug/L		1.0	1		02/03/14 18:15	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/03/14 18:15	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		02/03/14 18:15	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		02/03/14 18:15	56-23-5	
Chloroethane	ND ug/L		1.0	1		02/03/14 18:15	75-00-3	
Chloroform	ND ug/L		1.0	1		02/03/14 18:15	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		02/03/14 18:15	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		02/03/14 18:15	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		02/03/14 18:15	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		02/03/14 18:15	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		02/03/14 18:15	100-41-4	
Methylene chloride	ND ug/L		1.0	1		02/03/14 18:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		02/03/14 18:15	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		02/03/14 18:15	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		02/03/14 18:15	127-18-4	
Toluene	ND ug/L		1.0	1		02/03/14 18:15	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		02/03/14 18:15	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		02/03/14 18:15	79-00-5	
Trichloroethene	ND ug/L		1.0	1		02/03/14 18:15	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		02/03/14 18:15	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		02/03/14 18:15	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	1		02/03/14 18:15	460-00-4	
Toluene-d8 (S)	103 %		80-120	1		02/03/14 18:15	2037-26-5	
1,2-Dichloroethane-d4 (S)	103 %		80-120	1		02/03/14 18:15	17060-07-0	
Preservation pH	6.0		1.0	1		02/03/14 18:15		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-209R2

Pace Project No.: 60162345

QC Batch: MERP/8118	Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1	Analysis Description: 245.1 Mercury
Associated Lab Samples: 60162345001	

METHOD BLANK: 1328060 Matrix: Water
Associated Lab Samples: 60162345001

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		MS		MSD		% Rec		Max		Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Mercury	ug/L	21.4	150	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 316-209R2

Pace Project No.: 60162345

QC Batch: MERP/8111	Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1	Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60162345001	

METHOD BLANK: 1326614 Matrix: Water
Associated Lab Samples: 60162345001

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	MSD	MS	MSD	MS	MSD	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
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 316-209R2

Pace Project No.: 60162345

QC Batch: MPRP/26072 Analysis Method: EPA 200.7
 QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
 Associated Lab Samples: 60162345001

METHOD BLANK: 1326654 Matrix: Water
 Associated Lab Samples: 60162345001

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		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
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 316-209R2

Pace Project No.: 60162345

Parameter	60162293001		MS		MSD		MS		MSD		MS		MSD		% Rec		Max	
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec	% Rec	% Rec	Limits	RPD	RPD	RPD	RPD	RPD	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						

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-209R2
Pace Project No.: 60162345

QC Batch: MPRP/26071 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60162345001

METHOD BLANK: 1326650 Matrix: Water
Associated Lab Samples: 60162345001

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		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.								
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 316-209R2

Pace Project No.: 60162345

Parameter	Units	1326652		1326653		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60162293001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
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 316-209R2

Pace Project No.: 60162345

QC Batch: MSV/59247 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60162345001, 60162345002

METHOD BLANK: 1326142 Matrix: Water

Associated Lab Samples: 60162345001, 60162345002

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 316-209R2

Pace Project No.: 60162345

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 316-209R2

Pace Project No.: 60162345

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 316-209R2
Pace Project No.: 60162345

QC Batch: OEXT/42604 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60162345001

METHOD BLANK: 1326797 Matrix: Water
Associated Lab Samples: 60162345001

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 316-209R2

Pace Project No.: 60162345

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 316-209R2

Pace Project No.: 60162345

QC Batch:	WET/46028	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60162345001		

METHOD BLANK: 1327613 Matrix: Water

Associated Lab Samples: 60162345001

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 316-209R2

Pace Project No.: 60162345

QC Batch:	WET/46058	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60162345001		

METHOD BLANK: 1328148 Matrix: Water
Associated Lab Samples: 60162345001

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 316-209R2

Pace Project No.: 60162345

QC Batch: WET/45982

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60162345001

METHOD BLANK: 1326585

Matrix: Water

Associated Lab Samples: 60162345001

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 316-209R2

Pace Project No.: 60162345

QC Batch: WET/45965 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60162345001

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-209R2

Pace Project No.: 60162345

QC Batch: WET/45940

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60162345001

METHOD BLANK: 1326044

Matrix: Water

Associated Lab Samples: 60162345001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	02/08/14 12:37	

LABORATORY CONTROL SAMPLE: 1326045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	198	100	85-115	

SAMPLE DUPLICATE: 1326054

Parameter	Units	60162342002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	ND	250		17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-209R2

Pace Project No.: 60162345

QC Batch:	WETA/28087	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60162345001		

METHOD BLANK: 1326771 Matrix: Water
Associated Lab Samples: 60162345001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/06/14 10:56	

LABORATORY CONTROL SAMPLE: 1326772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	104	90-110	

MATRIX SPIKE SAMPLE: 1326773

Parameter	Units	60162205002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.8	89	90-110	M1

MATRIX SPIKE SAMPLE: 1326774

Parameter	Units	60162209001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.40	2	2.3	93	90-110	

SAMPLE DUPLICATE: 1326775

Parameter	Units	60162210001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.26	0.27	2	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-209R2

Pace Project No.: 60162345

QC Batch:	WETA/28077	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60162345001		

METHOD BLANK: 1326596 Matrix: Water
Associated Lab Samples: 60162345001

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 316-209R2

Pace Project No.: 60162345

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.

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-209R2

Pace Project No.: 60162345

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60162345001	316-209R2	EPA 200.7	MPRP/26072	EPA 200.7	ICP/19941
60162345001	316-209R2	EPA 200.7	MPRP/26071	EPA 200.7	ICP/19940
60162345001	316-209R2	EPA 245.1	MERP/8118	EPA 245.1	MERC/8075
60162345001	316-209R2	EPA 245.1	MERP/8111	EPA 245.1	MERC/8067
60162345001	316-209R2	EPA 625	OEXT/42604	EPA 625	MSSV/13561
60162345001	316-209R2	EPA 624 Low	MSV/59247		
60162345002	TRIP BLANK	EPA 624 Low	MSV/59247		
60162345001	316-209R2	EPA 1664A	WET/46028		
60162345001	316-209R2	EPA 1664A	WET/46058		
60162345001	316-209R2	SM 2540D	WET/45982		
60162345001	316-209R2	SM 4500-H+B	WET/45965		
60162345001	316-209R2	SM 5210B	WET/45940	SM 5210B	WET/46049
60162345001	316-209R2	EPA 350.1	WETA/28087		
60162345001	316-209R2	EPA 410.4	WETA/28077		

REPORT OF LABORATORY ANALYSIS

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WO#: 60162345



60162345



Sample Condition Upon Receipt

Client Name: BARR

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 Pipe

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

Cooler Temperature: 2.2

Temperature should be above freezing to 6°C

Date and initials of person examining contents: S 2/3/14

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOD, PH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Includes date/time/ID/analyses	Matrix: <u>WT</u>	15.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Added HNO_3 to 314-20922 BP3N SO / 4.0 Added H_2SO_4 to 316-20922 BP3 SS.0 / 2.0
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: <u>VOA</u> coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>S</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative <u>12513</u> <u>12518</u>
Pace Trip Blank lot # (if purchased):	_____	16.
Headspace in VOA vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>3 of 5 VOA</u>
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MO</u>

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature]

Date: 2/3/14



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A**Section B****Section C****Required Client Information:****Required Project Information:****Invoice Information:**

Page : 1 Of 1

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

ITEM#	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	CODE (see valid codes to right)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives											Requested Analysis Filtered (Y/N)	Y/N	Analyses Test	Residual Chlorine (Y/N)													
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	COD EPA 410	pH SM 4500H+8	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					
				DATE	TIME	DATE	TIME																														
1	316-209RZ 5(1209U)	OT	G	02/14	0930			14	10	4	1	0									X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	3(A) (3) (2) (3) (4)	001
2	TRIP BLANK							2	2																											2(1209U) TB	002
3																																					
4																																					
5																																					
6																																					
7																																					
8																																					
9																																					
10																																					
11																																					
12																																					

60162345

S.O.S. 001

2(1209U) TB 002

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	<i>Myle Mann</i>	2-3-14	8:55AM	<i>Bel Stevie</i> 412			
SITE ADDRESS: BRIDGETON LF				<i>Andie M c/o PASE</i>	2/3/14	1300	2.8
13570 ST. CHARLES ROCK RD							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:	<i>John Powell</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>				
DATE Signed: 02-02-14					

February 10, 2014

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

RE: Project: BRIDGETON LF 316-208
Pace Project No.: 60162346

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 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,



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 316-208

Pace Project No.: 60162346

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-208

Pace Project No.: 60162346

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60162346001	316-208	Water	02/01/14 14:30	02/03/14 13:00
60162346002	TRIP BLANK	Water	02/01/14 08:00	02/03/14 13:00

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-208

Pace Project No.: 60162346

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60162346001	316-208	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	AJM	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC	1
60162346002	TRIP BLANK	EPA 624 Low	EAK	28

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-208

Pace Project No.: 60162346

Sample: 316-208	Lab ID: 60162346001	Collected: 02/01/14 14:30	Received: 02/03/14 13:00	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	13600	ug/L	750	2	02/05/14 14:15	02/06/14 12:32	7429-90-5	
Antimony	62.6	ug/L	50.0	1	02/05/14 14:15	02/06/14 12:30	7440-36-0	
Arsenic	1030	ug/L	50.0	1	02/05/14 14:15	02/06/14 12:30	7440-38-2	
Beryllium	ND	ug/L	5.0	1	02/05/14 14:15	02/06/14 12:30	7440-41-7	
Cadmium	ND	ug/L	25.0	1	02/05/14 14:15	02/06/14 12:30	7440-43-9	
Chromium	262	ug/L	25.0	1	02/05/14 14:15	02/06/14 12:30	7440-47-3	
Cobalt	40.8	ug/L	25.0	1	02/05/14 14:15	02/06/14 12:30	7440-48-4	
Copper	ND	ug/L	50.0	1	02/05/14 14:15	02/06/14 12:30	7440-50-8	
Iron	746000	ug/L	250	1	02/05/14 14:15	02/06/14 12:30	7439-89-6	
Lead	66.7	ug/L	25.0	1	02/05/14 14:15	02/06/14 12:30	7439-92-1	
Nickel	104	ug/L	25.0	1	02/05/14 14:15	02/06/14 12:30	7440-02-0	
Selenium	ND	ug/L	75.0	1	02/05/14 14:15	02/06/14 12:30	7782-49-2	
Silver	ND	ug/L	35.0	1	02/05/14 14:15	02/06/14 12:30	7440-22-4	
Thallium	ND	ug/L	100	1	02/05/14 14:15	02/06/14 12:30	7440-28-0	
Zinc	6430	ug/L	500	2	02/05/14 14:15	02/06/14 12:32	7440-66-6	
200.7 Metals, Dissolved (LF)								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Aluminum, Dissolved	2260	ug/L	750	2	02/05/14 14:15	02/06/14 11:46	7429-90-5	
Antimony, Dissolved	64.5	ug/L	50.0	1	02/05/14 14:15	02/06/14 11:44	7440-36-0	D9
Arsenic, Dissolved	836	ug/L	50.0	1	02/05/14 14:15	02/06/14 11:44	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	02/05/14 14:15	02/06/14 11:44	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	02/05/14 14:15	02/06/14 11:44	7440-43-9	
Chromium, Dissolved	201	ug/L	25.0	1	02/05/14 14:15	02/06/14 11:44	7440-47-3	
Cobalt, Dissolved	29.3	ug/L	25.0	1	02/05/14 14:15	02/06/14 11:44	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	02/05/14 14:15	02/06/14 11:44	7440-50-8	
Iron, Dissolved	540000	ug/L	250	1	02/05/14 14:15	02/06/14 11:44	7439-89-6	
Lead, Dissolved	46.3	ug/L	25.0	1	02/05/14 14:15	02/06/14 11:44	7439-92-1	
Nickel, Dissolved	80.5	ug/L	25.0	1	02/05/14 14:15	02/06/14 11:44	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	02/05/14 14:15	02/06/14 11:44	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	02/05/14 14:15	02/06/14 11:44	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	02/05/14 14:15	02/06/14 11:44	7440-28-0	
Zinc, Dissolved	3860	ug/L	500	2	02/05/14 14:15	02/06/14 11:46	7440-66-6	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury	ND	ug/L	6.0	1	02/10/14 11:10	02/10/14 16:30	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 10:57	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 14:29	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	02/06/14 00:00	02/07/14 14:29	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	02/06/14 00:00	02/07/14 14:29	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	02/06/14 00:00	02/07/14 14:29	67-72-1	
Naphthalene	ND	ug/L	1000	2	02/06/14 00:00	02/07/14 14:29	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	02/06/14 00:00	02/07/14 14:29	98-95-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-208

Pace Project No.: 60162346

Sample: 316-208		Lab ID: 60162346001	Collected: 02/01/14 14:30	Received: 02/03/14 13:00	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	02/06/14 00:00	02/07/14 14:29	87-86-5	
Phenol	8710 ug/L		1000	2	02/06/14 00:00	02/07/14 14:29	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	02/06/14 00:00	02/07/14 14:29	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	02/06/14 00:00	02/07/14 14:29	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	145 %		33-120	2	02/06/14 00:00	02/07/14 14:29	4165-60-0	S0
2-Fluorobiphenyl (S)	94 %		39-120	2	02/06/14 00:00	02/07/14 14:29	321-60-8	
Terphenyl-d14 (S)	99 %		45-120	2	02/06/14 00:00	02/07/14 14:29	1718-51-0	
Phenol-d6 (S)	27 %		11-120	2	02/06/14 00:00	02/07/14 14:29	13127-88-3	
2-Fluorophenol (S)	38 %		17-120	2	02/06/14 00:00	02/07/14 14:29	367-12-4	
2,4,6-Tribromophenol (S)	98 %		39-120	2	02/06/14 00:00	02/07/14 14:29	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	133000 ug/L		2000	200		02/03/14 18:30	67-64-1	N2
Benzene	ND ug/L		200	200		02/03/14 18:30	71-43-2	
Bromodichloromethane	ND ug/L		200	200		02/03/14 18:30	75-27-4	
Bromoform	ND ug/L		200	200		02/03/14 18:30	75-25-2	
Bromomethane	ND ug/L		1000	200		02/03/14 18:30	74-83-9	
2-Butanone (MEK)	83000 ug/L		2000	200		02/03/14 18:30	78-93-3	N2
Carbon tetrachloride	ND ug/L		200	200		02/03/14 18:30	56-23-5	
Chloroethane	ND ug/L		200	200		02/03/14 18:30	75-00-3	
Chloroform	ND ug/L		200	200		02/03/14 18:30	67-66-3	
1,4-Dichlorobenzene	643 ug/L		200	200		02/03/14 18:30	106-46-7	
1,2-Dichloroethane	ND ug/L		200	200		02/03/14 18:30	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200	200		02/03/14 18:30	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		200	200		02/03/14 18:30	156-60-5	
Ethylbenzene	ND ug/L		200	200		02/03/14 18:30	100-41-4	
Methylene chloride	ND ug/L		200	200		02/03/14 18:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	2260 ug/L		2000	200		02/03/14 18:30	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		02/03/14 18:30	79-34-5	N2
Tetrachloroethene	ND ug/L		200	200		02/03/14 18:30	127-18-4	
Toluene	ND ug/L		200	200		02/03/14 18:30	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		02/03/14 18:30	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		02/03/14 18:30	79-00-5	
Trichloroethene	ND ug/L		200	200		02/03/14 18:30	79-01-6	
Vinyl chloride	ND ug/L		200	200		02/03/14 18:30	75-01-4	
Xylene (Total)	ND ug/L		600	200		02/03/14 18:30	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	94 %		80-120	200		02/03/14 18:30	460-00-4	
Toluene-d8 (S)	102 %		80-120	200		02/03/14 18:30	2037-26-5	
1,2-Dichloroethane-d4 (S)	105 %		80-120	200		02/03/14 18:30	17060-07-0	
Preservation pH	6.0		1.0	200		02/03/14 18:30		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1440 mg/L		5.0	1		02/07/14 15:44		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-208

Pace Project No.: 60162346

Sample: 316-208		Lab ID: 60162346001	Collected: 02/01/14 14:30	Received: 02/03/14 13:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	16.1	mg/L	5.0	1		02/10/14 09:56		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	3320	mg/L	5.0	1		02/05/14 13:32		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4	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	35700	mg/L	2.0	1	02/03/14 14:19	02/08/14 13:05		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	705	mg/L	20.0	200		02/06/14 11:15	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	55600	mg/L	5000	500		02/07/14 09:34		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-208

Pace Project No.: 60162346

Sample: TRIP BLANK		Lab ID: 60162346002	Collected: 02/01/14 08:00	Received: 02/03/14 13:00	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		02/03/14 18:45	67-64-1	N2
Benzene	ND ug/L		1.0	1		02/03/14 18:45	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		02/03/14 18:45	75-27-4	
Bromoform	ND ug/L		1.0	1		02/03/14 18:45	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/03/14 18:45	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		02/03/14 18:45	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		02/03/14 18:45	56-23-5	
Chloroethane	ND ug/L		1.0	1		02/03/14 18:45	75-00-3	
Chloroform	ND ug/L		1.0	1		02/03/14 18:45	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		02/03/14 18:45	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		02/03/14 18:45	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		02/03/14 18:45	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		02/03/14 18:45	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		02/03/14 18:45	100-41-4	
Methylene chloride	ND ug/L		1.0	1		02/03/14 18:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		02/03/14 18:45	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		02/03/14 18:45	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		02/03/14 18:45	127-18-4	
Toluene	ND ug/L		1.0	1		02/03/14 18:45	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		02/03/14 18:45	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		02/03/14 18:45	79-00-5	
Trichloroethene	ND ug/L		1.0	1		02/03/14 18:45	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		02/03/14 18:45	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		02/03/14 18:45	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	94 %		80-120	1		02/03/14 18:45	460-00-4	
Toluene-d8 (S)	105 %		80-120	1		02/03/14 18:45	2037-26-5	
1,2-Dichloroethane-d4 (S)	102 %		80-120	1		02/03/14 18:45	17060-07-0	
Preservation pH	6.0		1.0	1		02/03/14 18:45		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-208
Pace Project No.: 60162346

QC Batch: MERP/8118 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 60162346001

METHOD BLANK: 1328060 Matrix: Water
Associated Lab Samples: 60162346001

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		MS		MSD		MS		MSD		% Rec		Max	
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual		
Mercury	ug/L	21.4	150	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 316-208

Pace Project No.: 60162346

QC Batch: MERP/8111

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60162346001

METHOD BLANK: 1326614

Matrix: Water

Associated Lab Samples: 60162346001

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	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
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 316-208
Pace Project No.: 60162346

QC Batch: MPRP/26072 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60162346001

METHOD BLANK: 1326654 Matrix: Water
Associated Lab Samples: 60162346001

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		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
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 316-208

Pace Project No.: 60162346

Parameter	Units	1326656		1326657		MS % Rec	MSD % Rec	% Rec	Limits	RPD	Max RPD	Qual
		60162293001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
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 316-208
Pace Project No.: 60162346

QC Batch: MPRP/26071 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60162346001

METHOD BLANK: 1326650 Matrix: Water
Associated Lab Samples: 60162346001

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		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.								
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 316-208

Pace Project No.: 60162346

Parameter	Units	1326652		1326653		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60162293001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
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 316-208

Pace Project No.: 60162346

QC Batch: MSV/59247 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60162346001, 60162346002

METHOD BLANK: 1326142 Matrix: Water

Associated Lab Samples: 60162346001, 60162346002

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	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-208

Pace Project No.: 60162346

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 316-208

Pace Project No.: 60162346

MATRIX SPIKE SAMPLE:		1326145		60162293001		Spike		MS		MS		% Rec		Qualifiers	
Parameter	Units	Result	Conc.	Result	Conc.	Result	Conc.	% Rec	Limit	Limit	Limit	Limit	Limit	Limit	Limit
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									

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-208
Pace Project No.: 60162346

QC Batch: OEXT/42604 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60162346001

METHOD BLANK: 1326797 Matrix: Water
Associated Lab Samples: 60162346001

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	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-208

Pace Project No.: 60162346

MATRIX SPIKE SAMPLE:		1326799		60162293001		Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Result	% 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		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-208

Pace Project No.: 60162346

QC Batch:	WET/46028	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60162346001		

METHOD BLANK: 1327613 Matrix: Water

Associated Lab Samples: 60162346001

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	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-208

Pace Project No.: 60162346

QC Batch:	WET/46058	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60162346001		

METHOD BLANK: 1328148 Matrix: Water
Associated Lab Samples: 60162346001

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	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-208

Pace Project No.: 60162346

QC Batch: WET/45982

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60162346001

METHOD BLANK: 1326585

Matrix: Water

Associated Lab Samples: 60162346001

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 316-208

Pace Project No.: 60162346

QC Batch: WET/45965 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60162346001

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-208

Pace Project No.: 60162346

QC Batch: WET/45940

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60162346001

METHOD BLANK: 1326044

Matrix: Water

Associated Lab Samples: 60162346001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	02/08/14 12:37	

LABORATORY CONTROL SAMPLE: 1326045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	198	100	85-115	

SAMPLE DUPLICATE: 1326054

Parameter	Units	60162342002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	ND	250		17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-208

Pace Project No.: 60162346

QC Batch:	WETA/28087	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60162346001		

METHOD BLANK: 1326771 Matrix: Water
Associated Lab Samples: 60162346001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/06/14 10:56	

LABORATORY CONTROL SAMPLE: 1326772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	104	90-110	

MATRIX SPIKE SAMPLE: 1326773

Parameter	Units	60162205002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.8	89	90-110	M1

MATRIX SPIKE SAMPLE: 1326774

Parameter	Units	60162209001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.40	2	2.3	93	90-110	

SAMPLE DUPLICATE: 1326775

Parameter	Units	60162210001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.26	0.27	2	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-208

Pace Project No.: 60162346

QC Batch:	WETA/28077	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60162346001		

METHOD BLANK: 1326596 Matrix: Water
Associated Lab Samples: 60162346001

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 316-208

Pace Project No.: 60162346

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.

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-208

Pace Project No.: 60162346

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60162346001	316-208	EPA 200.7	MPRP/26072	EPA 200.7	ICP/19941
60162346001	316-208	EPA 200.7	MPRP/26071	EPA 200.7	ICP/19940
60162346001	316-208	EPA 245.1	MERP/8118	EPA 245.1	MERC/8075
60162346001	316-208	EPA 245.1	MERP/8111	EPA 245.1	MERC/8067
60162346001	316-208	EPA 625	OEXT/42604	EPA 625	MSSV/13561
60162346001	316-208	EPA 624 Low	MSV/59247		
60162346002	TRIP BLANK	EPA 624 Low	MSV/59247		
60162346001	316-208	EPA 1664A	WET/46028		
60162346001	316-208	EPA 1664A	WET/46058		
60162346001	316-208	SM 2540D	WET/45982		
60162346001	316-208	SM 4500-H+B	WET/45965		
60162346001	316-208	SM 5210B	WET/45940	SM 5210B	WET/46049
60162346001	316-208	EPA 350.1	WETA/28087		
60162346001	316-208	EPA 410.4	WETA/28077		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60162346



60162346

Client Name: BARR

Courier: Fed Ex [] UPS [] USPS [] Client [] Commercial [] Pace [] Other [x] XL

Tracking #: Pace Shipping Label Used? Yes [x] No []

Custody Seal on Cooler/Box Present: Yes [] No [x] Seals intact: Yes [] No [x]

Packing Material: Bubble Wrap [] Bubble Bags [] Foam [] None [] Other [x] Dipz

Thermometer Used: T-239 / T-194 Type of Ice: Wet Blue None [] Samples received on ice, cooling process has begun.

Cooler Temperature: 3.4

Temperature should be above freezing to 6°C

Date and initials of person examining contents: 8/23/14

Table with 17 rows and 3 columns. Row 1: Chain of Custody present: Yes [x] No [] N/A []. Row 2: Chain of Custody filled out: Yes [x] No [] N/A []. Row 3: Chain of Custody relinquished: Yes [x] No [] N/A []. Row 4: Sampler name & signature on COC: Yes [x] No [] N/A []. Row 5: Samples arrived within holding time: Yes [x] No [] N/A []. Row 6: Short Hold Time analyses (<72hr): Yes [x] No [] N/A []. Row 7: Rush Turn Around Time requested: Yes [] No [x] N/A []. Row 8: Sufficient volume: Yes [x] No [] N/A []. Row 9: Correct containers used: Yes [x] No [] N/A []. Row 10: Pace containers used: Yes [x] No [] N/A []. Row 11: Containers intact: Yes [x] No [] N/A []. Row 12: Unpreserved 5035A soils frozen w/in 48hrs? Yes [] No [] N/A [x]. Row 13: Filtered volume received for dissolved tests? Yes [] No [] N/A [x]. Row 14: Sample labels match COC: Yes [x] No [] N/A []. Row 15: Includes date/time/ID/analyses Matrix: wt. Row 16: All containers needing preservation have been checked: Yes [x] No [] N/A []. Row 17: All containers needing preservation are found to be in compliance with EPA recommendation: Yes [] No [x] N/A []. Row 18: Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics: Yes [x] No []. Row 19: Trip Blank present: Yes [x] No [] N/A []. Row 20: Pace Trip Blank lot # (if purchased): Row 21: Headspace in VOA vials (>6mm): Yes [x] No [] N/A []. Row 22: Project sampled in USDA Regulated Area: Yes [] No [] N/A [x].

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review:

Date: 8/23/14

February 24, 2014

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

RE: Project: BRIDGETON LF 316-210R3
Pace Project No.: 60162421

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 05, 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 022414 to apply appropriate qualifiers to Acetone.

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 316-210R3

Pace Project No.: 60162421

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 316-210R3

Pace Project No.: 60162421

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60162421001	316-210R3	Water	02/03/14 15:00	02/05/14 04:40
60162421002	TRIP BLANK	Water	02/03/14 00:00	02/05/14 04:40

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-210R3

Pace Project No.: 60162421

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60162421001	316-210R3	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	NDL	1
		SM 4500-H+B	AJM	1
		SM 5210B	JML	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC	1
60162421002	TRIP BLANK	EPA 624 Low	EAK	28

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-210R3

Pace Project No.: 60162421

Sample: 316-210R3		Lab ID: 60162421001	Collected: 02/03/14 15:00	Received: 02/05/14 04:40	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	17100 ug/L		750	2	02/07/14 11:20	02/10/14 11:59	7429-90-5	
Antimony	82.6 ug/L		50.0	1	02/07/14 11:20	02/10/14 11:56	7440-36-0	
Arsenic	1010 ug/L		50.0	1	02/07/14 11:20	02/10/14 11:56	7440-38-2	
Beryllium	ND ug/L		5.0	1	02/07/14 11:20	02/10/14 11:56	7440-41-7	
Cadmium	ND ug/L		25.0	1	02/07/14 11:20	02/10/14 11:56	7440-43-9	
Chromium	314 ug/L		25.0	1	02/07/14 11:20	02/10/14 11:56	7440-47-3	
Cobalt	48.7 ug/L		25.0	1	02/07/14 11:20	02/10/14 11:56	7440-48-4	
Copper	ND ug/L		50.0	1	02/07/14 11:20	02/10/14 11:56	7440-50-8	
Iron	882000 ug/L		250	1	02/07/14 11:20	02/10/14 11:56	7439-89-6	M1
Lead	117 ug/L		25.0	1	02/07/14 11:20	02/10/14 11:56	7439-92-1	
Nickel	133 ug/L		25.0	1	02/07/14 11:20	02/10/14 11:56	7440-02-0	
Selenium	ND ug/L		75.0	1	02/07/14 11:20	02/10/14 11:56	7782-49-2	
Silver	ND ug/L		35.0	1	02/07/14 11:20	02/10/14 11:56	7440-22-4	
Thallium	ND ug/L		100	1	02/07/14 11:20	02/10/14 11:56	7440-28-0	
Zinc	5640 ug/L		500	2	02/07/14 11:20	02/10/14 11:59	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	2640 ug/L		750	2	02/07/14 16:00	02/10/14 10:17	7429-90-5	
Antimony, Dissolved	55.4 ug/L		50.0	1	02/07/14 16:00	02/10/14 10:14	7440-36-0	
Arsenic, Dissolved	804 ug/L		50.0	1	02/07/14 16:00	02/10/14 10:14	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	02/07/14 16:00	02/10/14 10:14	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	02/07/14 16:00	02/10/14 10:14	7440-43-9	
Chromium, Dissolved	239 ug/L		25.0	1	02/07/14 16:00	02/10/14 10:14	7440-47-3	
Cobalt, Dissolved	29.2 ug/L		25.0	1	02/07/14 16:00	02/10/14 10:14	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	02/07/14 16:00	02/10/14 10:14	7440-50-8	
Iron, Dissolved	618000 ug/L		250	1	02/07/14 16:00	02/10/14 10:14	7439-89-6	
Lead, Dissolved	54.9 ug/L		50.0	2	02/07/14 16:00	02/10/14 10:17	7439-92-1	
Nickel, Dissolved	81.9 ug/L		25.0	1	02/07/14 16:00	02/10/14 10:14	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	02/07/14 16:00	02/10/14 10:14	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	02/07/14 16:00	02/10/14 10:14	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	02/07/14 16:00	02/10/14 10:14	7440-28-0	
Zinc, Dissolved	4610 ug/L		500	2	02/07/14 16:00	02/10/14 10:17	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	52.2 ug/L		6.0	1	02/10/14 11:10	02/10/14 16:51	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	02/11/14 09:30	02/11/14 14:48	7439-97-6	M1,R1
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 14:50	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	02/06/14 00:00	02/07/14 14:50	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	02/06/14 00:00	02/07/14 14:50	77-47-4	
Hexachloroethane	ND ug/L		1000	2	02/06/14 00:00	02/07/14 14:50	67-72-1	
Naphthalene	7020 ug/L		1000	2	02/06/14 00:00	02/07/14 14:50	91-20-3	
Nitrobenzene	ND ug/L		1000	2	02/06/14 00:00	02/07/14 14:50	98-95-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-210R3

Pace Project No.: 60162421

Sample: 316-210R3		Lab ID: 60162421001	Collected: 02/03/14 15:00	Received: 02/05/14 04:40	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 14:50	87-86-5	
Phenol	11800 ug/L		1000	2	02/06/14 00:00	02/07/14 14:50	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	02/06/14 00:00	02/07/14 14:50	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	02/06/14 00:00	02/07/14 14:50	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	210 %		33-120	2	02/06/14 00:00	02/07/14 14:50	4165-60-0	S0
2-Fluorobiphenyl (S)	95 %		39-120	2	02/06/14 00:00	02/07/14 14:50	321-60-8	
Terphenyl-d14 (S)	95 %		45-120	2	02/06/14 00:00	02/07/14 14:50	1718-51-0	
Phenol-d6 (S)	26 %		11-120	2	02/06/14 00:00	02/07/14 14:50	13127-88-3	
2-Fluorophenol (S)	45 %		17-120	2	02/06/14 00:00	02/07/14 14:50	367-12-4	
2,4,6-Tribromophenol (S)	99 %		39-120	2	02/06/14 00:00	02/07/14 14:50	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	114000 ug/L		2000	200		02/07/14 10:46	67-64-1	N2
Benzene	ND ug/L		200	200		02/07/14 10:46	71-43-2	
Bromodichloromethane	ND ug/L		200	200		02/07/14 10:46	75-27-4	
Bromoform	ND ug/L		200	200		02/07/14 10:46	75-25-2	
Bromomethane	ND ug/L		1000	200		02/07/14 10:46	74-83-9	
2-Butanone (MEK)	70600 ug/L		2000	200		02/07/14 10:46	78-93-3	N2
Carbon tetrachloride	ND ug/L		200	200		02/07/14 10:46	56-23-5	
Chloroethane	ND ug/L		200	200		02/07/14 10:46	75-00-3	
Chloroform	ND ug/L		200	200		02/07/14 10:46	67-66-3	
1,4-Dichlorobenzene	2130 ug/L		200	200		02/07/14 10:46	106-46-7	
1,2-Dichloroethane	ND ug/L		200	200		02/07/14 10:46	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200	200		02/07/14 10:46	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		200	200		02/07/14 10:46	156-60-5	
Ethylbenzene	541 ug/L		200	200		02/07/14 10:46	100-41-4	
Methylene chloride	ND ug/L		200	200		02/07/14 10:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	3620 ug/L		2000	200		02/07/14 10:46	108-10-1	N2
1,1,2,2-Tetrachloroethane	513 ug/L		200	200		02/07/14 10:46	79-34-5	N2
Tetrachloroethene	ND ug/L		200	200		02/07/14 10:46	127-18-4	
Toluene	ND ug/L		200	200		02/07/14 10:46	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		02/07/14 10:46	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		02/07/14 10:46	79-00-5	
Trichloroethene	ND ug/L		200	200		02/07/14 10:46	79-01-6	
Vinyl chloride	ND ug/L		200	200		02/07/14 10:46	75-01-4	
Xylene (Total)	2130 ug/L		600	200		02/07/14 10:46	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	90 %		80-120	200		02/07/14 10:46	460-00-4	
Toluene-d8 (S)	103 %		80-120	200		02/07/14 10:46	2037-26-5	
1,2-Dichloroethane-d4 (S)	106 %		80-120	200		02/07/14 10:46	17060-07-0	
Preservation pH	6.0		1.0	200		02/07/14 10:46		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1600 mg/L		5.0	1		02/07/14 15:49		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-210R3

Pace Project No.: 60162421

Sample: 316-210R3		Lab ID: 60162421001	Collected: 02/03/14 15:00	Received: 02/05/14 04:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	46.5	mg/L	5.0	1		02/11/14 15:10		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	2220	mg/L	5.0	1		02/06/14 13:54		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.3	Std. Units	0.10	1		02/08/14 16:00		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	37900	mg/L	2.0	1	02/05/14 09:14	02/10/14 10:43		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	740	mg/L	20.0	200		02/06/14 11:17	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	57000	mg/L	5000	500		02/10/14 08:03		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-210R3

Pace Project No.: 60162421

Sample: TRIP BLANK		Lab ID: 60162421002	Collected: 02/03/14 00:00	Received: 02/05/14 04:40	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		02/07/14 11:16	67-64-1	N2
Benzene	ND ug/L		1.0	1		02/07/14 11:16	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		02/07/14 11:16	75-27-4	
Bromoform	ND ug/L		1.0	1		02/07/14 11:16	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/07/14 11:16	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		02/07/14 11:16	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		02/07/14 11:16	56-23-5	
Chloroethane	ND ug/L		1.0	1		02/07/14 11:16	75-00-3	
Chloroform	ND ug/L		1.0	1		02/07/14 11:16	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		02/07/14 11:16	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		02/07/14 11:16	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		02/07/14 11:16	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		02/07/14 11:16	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		02/07/14 11:16	100-41-4	
Methylene chloride	ND ug/L		1.0	1		02/07/14 11:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		02/07/14 11:16	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		02/07/14 11:16	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		02/07/14 11:16	127-18-4	
Toluene	ND ug/L		1.0	1		02/07/14 11:16	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		02/07/14 11:16	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		02/07/14 11:16	79-00-5	
Trichloroethene	ND ug/L		1.0	1		02/07/14 11:16	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		02/07/14 11:16	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		02/07/14 11:16	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	96 %		80-120	1		02/07/14 11:16	460-00-4	
Toluene-d8 (S)	108 %		80-120	1		02/07/14 11:16	2037-26-5	
1,2-Dichloroethane-d4 (S)	107 %		80-120	1		02/07/14 11:16	17060-07-0	
Preservation pH	6.0		1.0	1		02/07/14 11:16		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-210R3
Pace Project No.: 60162421

QC Batch: MERP/8118 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 60162421001

METHOD BLANK: 1328060 Matrix: Water
Associated Lab Samples: 60162421001

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		MS		MSD		% Rec		Max		Qual
		Result	Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	
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	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-210R3

Pace Project No.: 60162421

QC Batch: MERP/8123

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60162421001

METHOD BLANK: 1328450

Matrix: Water

Associated Lab Samples: 60162421001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/11/14 14:44	

LABORATORY CONTROL SAMPLE: 1328451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.1	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1328452 1328453

Parameter	Units	60162421001		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Mercury, Dissolved	ug/L	ND	ND	150	150	132	97.5	87	64	70-130	30	20	M1,R1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-210R3
Pace Project No.: 60162421

QC Batch: MPRP/26094 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60162421001

METHOD BLANK: 1327392 Matrix: Water
Associated Lab Samples: 60162421001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	02/10/14 11:52	
Antimony	ug/L	ND	10.0	02/10/14 11:52	
Arsenic	ug/L	ND	10.0	02/10/14 11:52	
Beryllium	ug/L	ND	1.0	02/10/14 11:52	
Cadmium	ug/L	ND	5.0	02/10/14 11:52	
Chromium	ug/L	ND	5.0	02/10/14 11:52	
Cobalt	ug/L	ND	5.0	02/10/14 11:52	
Copper	ug/L	ND	10.0	02/10/14 11:52	
Iron	ug/L	ND	50.0	02/10/14 11:52	
Lead	ug/L	ND	5.0	02/10/14 11:52	
Nickel	ug/L	ND	5.0	02/10/14 11:52	
Selenium	ug/L	ND	15.0	02/10/14 11:52	
Silver	ug/L	ND	7.0	02/10/14 11:52	
Thallium	ug/L	ND	20.0	02/10/14 11:52	
Zinc	ug/L	ND	50.0	02/10/14 11:52	

LABORATORY CONTROL SAMPLE: 1327393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9980	100	85-115	
Antimony	ug/L	1000	1010	101	85-115	
Arsenic	ug/L	1000	960	96	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1000	100	85-115	
Chromium	ug/L	1000	1020	102	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	1010	101	85-115	
Iron	ug/L	10000	10200	102	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	505	101	85-115	
Thallium	ug/L	1000	1040	104	85-115	
Zinc	ug/L	1000	1000	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1327394 1327395

Parameter	Units	60162421001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Aluminum	ug/L	17100	50000	50000	50000	82100	79000	130	124	70-130	4	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-210R3

Pace Project No.: 60162421

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1327394		1327395									
Parameter	Units	60162421001	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	RPD	RPD	Qual
		Result	Spike	Spike	Result	Result	% Rec	% Rec	Limits				
Antimony	ug/L	82.6	5000	5000	5430	5420	107	107	70-130	0	7		
Arsenic	ug/L	1010	5000	5000	6650	6660	113	113	70-130	0	10		
Beryllium	ug/L	ND	5000	5000	4980	4970	100	99	70-130	0	7		
Cadmium	ug/L	ND	5000	5000	5370	5390	107	107	70-130	0	10		
Chromium	ug/L	314	5000	5000	5330	5240	100	99	70-130	2	10		
Cobalt	ug/L	48.7	5000	5000	4860	4900	96	97	70-130	1	6		
Copper	ug/L	ND	5000	5000	5370	5360	106	106	70-130	0	11		
Iron	ug/L	882000	50000	50000	969000	941000	175	119	70-130	3	10	M1	
Lead	ug/L	117	5000	5000	4690	4700	91	92	70-130	0	10		
Nickel	ug/L	133	5000	5000	4990	4980	97	97	70-130	0	10		
Selenium	ug/L	ND	5000	5000	6220	6240	123	123	70-130	0	10		
Silver	ug/L	ND	2500	2500	2710	2690	108	107	70-130	1	10		
Thallium	ug/L	ND	5000	5000	4110	4170	82	83	70-130	2	6		
Zinc	ug/L	5640	5000	5000	10600	10700	100	101	70-130	0	11		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-210R3
Pace Project No.: 60162421

QC Batch: MPRP/26102 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60162421001

METHOD BLANK: 1327682 Matrix: Water
Associated Lab Samples: 60162421001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	02/10/14 10:08	
Antimony, Dissolved	ug/L	ND	10.0	02/10/14 10:08	
Arsenic, Dissolved	ug/L	ND	10.0	02/10/14 10:08	
Beryllium, Dissolved	ug/L	ND	1.0	02/10/14 10:08	
Cadmium, Dissolved	ug/L	ND	5.0	02/10/14 10:08	
Chromium, Dissolved	ug/L	ND	5.0	02/10/14 10:08	
Cobalt, Dissolved	ug/L	ND	5.0	02/10/14 10:08	
Copper, Dissolved	ug/L	ND	10.0	02/10/14 10:08	
Iron, Dissolved	ug/L	ND	50.0	02/10/14 10:08	
Lead, Dissolved	ug/L	ND	5.0	02/10/14 10:08	
Nickel, Dissolved	ug/L	ND	5.0	02/10/14 10:08	
Selenium, Dissolved	ug/L	ND	15.0	02/10/14 10:08	
Silver, Dissolved	ug/L	ND	7.0	02/10/14 10:08	
Thallium, Dissolved	ug/L	ND	20.0	02/10/14 10:08	
Zinc, Dissolved	ug/L	ND	50.0	02/10/14 10:08	

LABORATORY CONTROL SAMPLE: 1327683

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	1020	102	85-115	
Arsenic, Dissolved	ug/L	1000	946	95	85-115	
Beryllium, Dissolved	ug/L	1000	1030	103	85-115	
Cadmium, Dissolved	ug/L	1000	986	99	85-115	
Chromium, Dissolved	ug/L	1000	1040	104	85-115	
Cobalt, Dissolved	ug/L	1000	1010	101	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	1040	104	85-115	
Nickel, Dissolved	ug/L	1000	1050	105	85-115	
Selenium, Dissolved	ug/L	1000	1010	101	85-115	
Silver, Dissolved	ug/L	500	511	102	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	991	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1327684 1327685

Parameter	Units	60162554001		MS		MSD		% Rec	% Rec	% Rec	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result					
Aluminum, Dissolved	ug/L	3380	50000	50000	55800	55700	105	105	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-210R3

Pace Project No.: 60162421

Parameter	Units	1327684		1327685		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		60162554001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Antimony, Dissolved	ug/L	66.1	5000	5000	5400	5400	107	107	70-130	0	7	
Arsenic, Dissolved	ug/L	780	5000	5000	5980	5970	104	104	70-130	0	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	4950	4920	99	98	70-130	1	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5220	5160	104	103	70-130	1	10	
Chromium, Dissolved	ug/L	238	5000	5000	5370	5380	103	103	70-130	0	10	
Cobalt, Dissolved	ug/L	50.1	5000	5000	4820	4750	95	94	70-130	1	6	
Copper, Dissolved	ug/L	ND	5000	5000	5460	5500	109	110	70-130	1	11	
Iron, Dissolved	ug/L	796000	50000	50000	786000	804000	-21	15	70-130	2	10	M1
Lead, Dissolved	ug/L	110	5000	5000	4740	4660	93	91	70-130	2	10	
Nickel, Dissolved	ug/L	118	5000	5000	4980	4940	97	96	70-130	1	10	
Selenium, Dissolved	ug/L	ND	5000	5000	6000	6050	119	120	70-130	1	10	
Silver, Dissolved	ug/L	ND	2500	2500	2760	2760	110	110	70-130	0	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4110	4060	82	81	70-130	1	6	
Zinc, Dissolved	ug/L	8740	5000	5000	12700	12800	79	82	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-210R3

Pace Project No.: 60162421

QC Batch: MSV/59306 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60162421001, 60162421002

METHOD BLANK: 1327432 Matrix: Water

Associated Lab Samples: 60162421001, 60162421002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/07/14 10:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/07/14 10:30	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	02/07/14 10:30	
1,2-Dichloroethane	ug/L	ND	1.0	02/07/14 10:30	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/07/14 10:30	
2-Butanone (MEK)	ug/L	ND	10.0	02/07/14 10:30	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/07/14 10:30	N2
Acetone	ug/L	ND	10.0	02/07/14 10:30	N2
Benzene	ug/L	ND	1.0	02/07/14 10:30	
Bromodichloromethane	ug/L	ND	1.0	02/07/14 10:30	
Bromoform	ug/L	ND	1.0	02/07/14 10:30	
Bromomethane	ug/L	ND	5.0	02/07/14 10:30	
Carbon tetrachloride	ug/L	ND	1.0	02/07/14 10:30	
Chloroethane	ug/L	ND	1.0	02/07/14 10:30	
Chloroform	ug/L	ND	1.0	02/07/14 10:30	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/07/14 10:30	N2
Ethylbenzene	ug/L	ND	1.0	02/07/14 10:30	
Methylene chloride	ug/L	ND	1.0	02/07/14 10:30	
Tetrachloroethene	ug/L	ND	1.0	02/07/14 10:30	
Toluene	ug/L	ND	1.0	02/07/14 10:30	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/07/14 10:30	
Trichloroethene	ug/L	ND	1.0	02/07/14 10:30	
Vinyl chloride	ug/L	ND	1.0	02/07/14 10:30	
Xylene (Total)	ug/L	ND	3.0	02/07/14 10:30	N2
1,2-Dichloroethane-d4 (S)	%	100	80-120	02/07/14 10:30	
4-Bromofluorobenzene (S)	%	99	80-120	02/07/14 10:30	
Toluene-d8 (S)	%	105	80-120	02/07/14 10:30	

LABORATORY CONTROL SAMPLE: 1327433

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.9	94	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	17.7	89	59-138	N2
1,1,2-Trichloroethane	ug/L	20	18.6	93	69-127	
1,2-Dichloroethane	ug/L	20	18.3	92	71-129	
1,4-Dichlorobenzene	ug/L	20	19.2	96	68-124	
2-Butanone (MEK)	ug/L	100	75.6	76	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	77.1	77	61-120	N2
Acetone	ug/L	100	84.9	85	40-160	N2
Benzene	ug/L	20	18.7	94	73-129	
Bromodichloromethane	ug/L	20	18.1	91	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-210R3

Pace Project No.: 60162421

LABORATORY CONTROL SAMPLE: 1327433

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	17.8	89	52-123	
Bromomethane	ug/L	20	15.7	78	10-160	
Carbon tetrachloride	ug/L	20	20.1	100	70-140	
Chloroethane	ug/L	20	19.8	99	42-160	
Chloroform	ug/L	20	19.1	95	60-120	
cis-1,2-Dichloroethene	ug/L	20	18.1	90	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	20.1	101	64-143	
Toluene	ug/L	20	18.7	93	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.4	92	67-149	
Trichloroethene	ug/L	20	18.5	93	71-130	
Vinyl chloride	ug/L	20	16.1	81	41-160	
Xylene (Total)	ug/L	60	56.8	95	67-130	N2
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1327434

Parameter	Units	60162421001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4320	108	52-160	
1,1,2,2-Tetrachloroethane	ug/L	513	4000	3550	76	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4030	101	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3900	97	49-155	
1,4-Dichlorobenzene	ug/L	2130	4000	5980	96	18-147	
2-Butanone (MEK)	ug/L	70600	20000	102000	158	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	3620	20000	21700	91	40-160	N2
Acetone	ug/L	114000	20000	116000	8	40-160	M1,N2
Benzene	ug/L	ND	4000	3890	96	37-151	
Bromodichloromethane	ug/L	ND	4000	3860	97	35-155	
Bromoform	ug/L	ND	4000	3500	87	45-133	
Bromomethane	ug/L	ND	4000	2700	67	10-160	
Carbon tetrachloride	ug/L	ND	4000	4670	117	70-140	
Chloroethane	ug/L	ND	4000	3830	96	14-160	
Chloroform	ug/L	ND	4000	4200	105	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3820	95	19-160	N2
Ethylbenzene	ug/L	541	4000	4520	100	37-154	
Methylene chloride	ug/L	ND	4000	3610	90	15-156	
Tetrachloroethene	ug/L	ND	4000	3950	99	64-148	
Toluene	ug/L	ND	4000	4100	98	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	3980	100	54-156	
Trichloroethene	ug/L	ND	4000	4070	102	71-157	
Vinyl chloride	ug/L	ND	4000	3330	83	10-160	
Xylene (Total)	ug/L	2130	12000	14100	100	12-153	N2
1,2-Dichloroethane-d4 (S)	%				107	80-120	
4-Bromofluorobenzene (S)	%				91	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-210R3

Pace Project No.: 60162421

MATRIX SPIKE SAMPLE:		1327434					
Parameter	Units	60162421001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S) Preservation pH	%	6.0	6.0	6.0	102	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-210R3
Pace Project No.: 60162421

QC Batch: OEXT/42604 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60162421001

METHOD BLANK: 1326797 Matrix: Water
Associated Lab Samples: 60162421001

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 316-210R3

Pace Project No.: 60162421

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 316-210R3

Pace Project No.: 60162421

QC Batch: WET/46030

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60162421001

METHOD BLANK: 1327618

Matrix: Water

Associated Lab Samples: 60162421001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/07/14 15:46	

LABORATORY CONTROL SAMPLE: 1327619

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	38.6	96	78-114	

MATRIX SPIKE SAMPLE: 1327620

Parameter	Units	60162200001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	51.3	42.6	106	128	78-114	M1

SAMPLE DUPLICATE: 1327621

Parameter	Units	60162205002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	2.7J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-210R3

Pace Project No.: 60162421

QC Batch: WET/46067 Analysis Method: EPA 1664A
 QC Batch Method: EPA 1664A Analysis Description: 1664 SGT-HEM, TPH
 Associated Lab Samples: 60162421001

METHOD BLANK: 1328360 Matrix: Water
 Associated Lab Samples: 60162421001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	02/11/14 08:14	

LABORATORY CONTROL SAMPLE: 1328361

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	21.6	108	64-132	

MATRIX SPIKE SAMPLE: 1328362

Parameter	Units	60162401002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	22.5	23.6	90	64-132	

SAMPLE DUPLICATE: 1328363

Parameter	Units	60162401003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	2.1J		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-210R3

Pace Project No.: 60162421

QC Batch:	WET/46003	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	60162421001		

METHOD BLANK: 1327117 Matrix: Water

Associated Lab Samples: 60162421001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	02/06/14 13:51	

SAMPLE DUPLICATE: 1327118

Parameter	Units	60162295010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	480	530	10	10	

SAMPLE DUPLICATE: 1327119

Parameter	Units	60162366001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	160	147	9	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-210R3

Pace Project No.: 60162421

QC Batch: WET/46045 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60162421001

SAMPLE DUPLICATE: 1327753

Parameter	Units	60161465002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.6	5.6	1	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-210R3

Pace Project No.: 60162421

QC Batch: WET/45974

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60162421001

METHOD BLANK: 1326491

Matrix: Water

Associated Lab Samples: 60162421001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	02/10/14 10:11	

LABORATORY CONTROL SAMPLE: 1326492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	181	91	85-115	

SAMPLE DUPLICATE: 1326493

Parameter	Units	60162354002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	ND	2.2		17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-210R3

Pace Project No.: 60162421

QC Batch: WETA/28087

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60162421001

METHOD BLANK: 1326771

Matrix: Water

Associated Lab Samples: 60162421001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/06/14 10:56	

LABORATORY CONTROL SAMPLE: 1326772

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	104	90-110	

MATRIX SPIKE SAMPLE: 1326773

Parameter	Units	60162205002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.8	89	90-110	M1

MATRIX SPIKE SAMPLE: 1326774

Parameter	Units	60162209001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.40	2	2.3	93	90-110	

SAMPLE DUPLICATE: 1326775

Parameter	Units	60162210001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.26	0.27	2	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-210R3

Pace Project No.: 60162421

QC Batch: WETA/28104 Analysis Method: EPA 410.4
 QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
 Associated Lab Samples: 60162421001

METHOD BLANK: 1327329 Matrix: Water
 Associated Lab Samples: 60162421001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/10/14 07:51	

LABORATORY CONTROL SAMPLE: 1327330

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	46.7	93	90-110	

MATRIX SPIKE SAMPLE: 1327331

Parameter	Units	60161914001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	6360	5000	10900	90	90-110	

MATRIX SPIKE SAMPLE: 1327332

Parameter	Units	60162295010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	1950	1000	2880	93	90-110	

SAMPLE DUPLICATE: 1327332

Parameter	Units	60161914005 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	1300	1370	5	25	

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QUALIFIERS

Project: BRIDGETON LF 316-210R3

Pace Project No.: 60162421

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.

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 316-210R3

Pace Project No.: 60162421

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60162421001	316-210R3	EPA 200.7	MPRP/26094	EPA 200.7	ICP/19953
60162421001	316-210R3	EPA 200.7	MPRP/26102	EPA 200.7	ICP/19955
60162421001	316-210R3	EPA 245.1	MERP/8118	EPA 245.1	MERC/8075
60162421001	316-210R3	EPA 245.1	MERP/8123	EPA 245.1	MERC/8079
60162421001	316-210R3	EPA 625	OEXT/42604	EPA 625	MSSV/13561
60162421001	316-210R3	EPA 624 Low	MSV/59306		
60162421002	TRIP BLANK	EPA 624 Low	MSV/59306		
60162421001	316-210R3	EPA 1664A	WET/46030		
60162421001	316-210R3	EPA 1664A	WET/46067		
60162421001	316-210R3	SM 2540D	WET/46003		
60162421001	316-210R3	SM 4500-H+B	WET/46045		
60162421001	316-210R3	SM 5210B	WET/45974	SM 5210B	WET/46096
60162421001	316-210R3	EPA 350.1	WETA/28087		
60162421001	316-210R3	EPA 410.4	WETA/28104		

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Sample Condition Upon Receipt

WO# : 60162421



Client Name: Barr

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

Thermometer Used: T-239 / T-194 Type of Ice: wet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 1.6

Temperature should be above freezing to 6°C

Date and initials of person examining contents: W 2/5/14

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>Boo pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9. <u>Received Sodium Trisulfate preserved vials for VOA analysis</u>
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Includes date/time/ID/analyses Matrix: <u>WT</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>H2O2 initial pH ~6.0; added 2.5 mL; final ~4.0 H2SO4 initial pH ~6.0; added 2 mL; final ~1.5</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: <u>VOA</u> coliform, TOC, <u>GG</u> WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>W</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative <u>12513 / 12514</u>
Pace Trip Blank lot # (if purchased): <u>Dec 23 2013</u>		15.
Headspace in VOA vials (>6mm):	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16. <u>3 of 5 sample vials</u>
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: ARB

Date: 2/5/14

February 13, 2014

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

RE: Project: BRIDGETON LF 316-211
Pace Project No.: 60162461

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 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 316-211

Pace Project No.: 60162461

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 316-211

Pace Project No.: 60162461

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60162461001	316-211	Water	02/05/14 08:45	02/06/14 01:50
60162461002	TRIP BLANK	Water	02/05/14 00:00	02/06/14 01:50

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-211

Pace Project No.: 60162461

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60162461001	316-211	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	NDJ	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	JMC	1
60162461002	TRIP BLANK	EPA 624 Low	EAK	28

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-211

Pace Project No.: 60162461

Sample: 316-211		Lab ID: 60162461001	Collected: 02/05/14 08:45	Received: 02/06/14 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	16600	ug/L	750	2	02/07/14 11:20	02/10/14 12:12	7429-90-5	
Antimony	74.5	ug/L	50.0	1	02/07/14 11:20	02/10/14 12:10	7440-36-0	
Arsenic	1080	ug/L	50.0	1	02/07/14 11:20	02/10/14 12:10	7440-38-2	
Beryllium	ND	ug/L	5.0	1	02/07/14 11:20	02/10/14 12:10	7440-41-7	
Cadmium	ND	ug/L	25.0	1	02/07/14 11:20	02/10/14 12:10	7440-43-9	
Chromium	304	ug/L	25.0	1	02/07/14 11:20	02/10/14 12:10	7440-47-3	
Cobalt	56.4	ug/L	25.0	1	02/07/14 11:20	02/10/14 12:10	7440-48-4	
Copper	ND	ug/L	50.0	1	02/07/14 11:20	02/10/14 12:10	7440-50-8	
Iron	916000	ug/L	250	1	02/07/14 11:20	02/10/14 12:10	7439-89-6	
Lead	119	ug/L	25.0	1	02/07/14 11:20	02/10/14 12:10	7439-92-1	
Nickel	143	ug/L	25.0	1	02/07/14 11:20	02/10/14 12:10	7440-02-0	
Selenium	ND	ug/L	75.0	1	02/07/14 11:20	02/10/14 12:10	7782-49-2	
Silver	ND	ug/L	35.0	1	02/07/14 11:20	02/10/14 12:10	7440-22-4	
Thallium	ND	ug/L	100	1	02/07/14 11:20	02/10/14 12:10	7440-28-0	
Zinc	5710	ug/L	500	2	02/07/14 11:20	02/10/14 12:12	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	2410	ug/L	750	2	02/07/14 16:00	02/10/14 10:21	7429-90-5	
Antimony, Dissolved	55.6	ug/L	50.0	1	02/07/14 16:00	02/10/14 10:19	7440-36-0	
Arsenic, Dissolved	718	ug/L	50.0	1	02/07/14 16:00	02/10/14 10:19	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	02/07/14 16:00	02/10/14 10:19	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	02/07/14 16:00	02/10/14 10:19	7440-43-9	
Chromium, Dissolved	222	ug/L	25.0	1	02/07/14 16:00	02/10/14 10:19	7440-47-3	
Cobalt, Dissolved	32.5	ug/L	25.0	1	02/07/14 16:00	02/10/14 10:19	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	02/07/14 16:00	02/10/14 10:19	7440-50-8	
Iron, Dissolved	579000	ug/L	250	1	02/07/14 16:00	02/10/14 10:19	7439-89-6	
Lead, Dissolved	42.6	ug/L	25.0	1	02/07/14 16:00	02/10/14 10:19	7439-92-1	
Nickel, Dissolved	79.6	ug/L	25.0	1	02/07/14 16:00	02/10/14 10:19	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	02/07/14 16:00	02/10/14 10:19	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	02/07/14 16:00	02/10/14 10:19	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	02/07/14 16:00	02/10/14 10:19	7440-28-0	
Zinc, Dissolved	4120	ug/L	500	2	02/07/14 16:00	02/10/14 10:21	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	28.2	ug/L	6.0	1	02/12/14 16:00	02/13/14 09:44	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	02/11/14 09:30	02/11/14 14:55	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	02/10/14 00:00	02/11/14 09:59	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	02/10/14 00:00	02/11/14 09:59	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	02/10/14 00:00	02/11/14 09:59	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	02/10/14 00:00	02/11/14 09:59	67-72-1	
Naphthalene	1030	ug/L	1000	2	02/10/14 00:00	02/11/14 09:59	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	02/10/14 00:00	02/11/14 09:59	98-95-3	M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-211

Pace Project No.: 60162461

Sample: 316-211		Lab ID: 60162461001	Collected: 02/05/14 08:45	Received: 02/06/14 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	02/10/14 00:00	02/11/14 09:59	87-86-5	
Phenol	12200 ug/L		1000	2	02/10/14 00:00	02/11/14 09:59	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	02/10/14 00:00	02/11/14 09:59	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	02/10/14 00:00	02/11/14 09:59	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	144 %		33-120	2	02/10/14 00:00	02/11/14 09:59	4165-60-0	S0
2-Fluorobiphenyl (S)	88 %		39-120	2	02/10/14 00:00	02/11/14 09:59	321-60-8	
Terphenyl-d14 (S)	91 %		45-120	2	02/10/14 00:00	02/11/14 09:59	1718-51-0	
Phenol-d6 (S)	39 %		11-120	2	02/10/14 00:00	02/11/14 09:59	13127-88-3	
2-Fluorophenol (S)	53 %		17-120	2	02/10/14 00:00	02/11/14 09:59	367-12-4	
2,4,6-Tribromophenol (S)	100 %		39-120	2	02/10/14 00:00	02/11/14 09:59	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	155000 ug/L		2000	200		02/11/14 15:24	67-64-1	N2
Benzene	ND ug/L		200	200		02/07/14 11:31	71-43-2	
Bromodichloromethane	ND ug/L		200	200		02/07/14 11:31	75-27-4	
Bromoform	ND ug/L		200	200		02/07/14 11:31	75-25-2	
Bromomethane	ND ug/L		1000	200		02/07/14 11:31	74-83-9	
2-Butanone (MEK)	88600 ug/L		2000	200		02/07/14 11:31	78-93-3	N2
Carbon tetrachloride	ND ug/L		200	200		02/07/14 11:31	56-23-5	
Chloroethane	ND ug/L		200	200		02/07/14 11:31	75-00-3	
Chloroform	ND ug/L		200	200		02/07/14 11:31	67-66-3	
1,4-Dichlorobenzene	1860 ug/L		200	200		02/07/14 11:31	106-46-7	
1,2-Dichloroethane	ND ug/L		200	200		02/07/14 11:31	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200	200		02/07/14 11:31	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		200	200		02/07/14 11:31	156-60-5	
Ethylbenzene	262 ug/L		200	200		02/07/14 11:31	100-41-4	
Methylene chloride	ND ug/L		200	200		02/07/14 11:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2000	200		02/07/14 11:31	108-10-1	N2
1,1,2,2-Tetrachloroethane	422 ug/L		200	200		02/07/14 11:31	79-34-5	N2
Tetrachloroethene	ND ug/L		200	200		02/07/14 11:31	127-18-4	
Toluene	ND ug/L		200	200		02/07/14 11:31	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		02/07/14 11:31	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		02/07/14 11:31	79-00-5	
Trichloroethene	ND ug/L		200	200		02/07/14 11:31	79-01-6	
Vinyl chloride	ND ug/L		200	200		02/07/14 11:31	75-01-4	
Xylene (Total)	1160 ug/L		600	200		02/07/14 11:31	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	93 %		80-120	200		02/07/14 11:31	460-00-4	
Toluene-d8 (S)	104 %		80-120	200		02/07/14 11:31	2037-26-5	
1,2-Dichloroethane-d4 (S)	107 %		80-120	200		02/07/14 11:31	17060-07-0	
Preservation pH	6.0		1.0	200		02/07/14 11:31		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	234 mg/L		5.0	1		02/07/14 15:51		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-211

Pace Project No.: 60162461

Sample: 316-211		Lab ID: 60162461001	Collected: 02/05/14 08:45	Received: 02/06/14 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	27.9	mg/L	5.0	1		02/13/14 09:12		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	2180	mg/L	5.0	1		02/07/14 14:20		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.3	Std. Units	0.10	1		02/08/14 16:00		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	29800	mg/L	2.0	1	02/06/14 12:16	02/11/14 09:52		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	710	mg/L	20.0	200		02/06/14 11:39	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	61500	mg/L	5000	500		02/12/14 12:01		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-211

Pace Project No.: 60162461

Sample: TRIP BLANK		Lab ID: 60162461002	Collected: 02/05/14 00:00	Received: 02/06/14 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		02/07/14 11:46	67-64-1	N2
Benzene	ND ug/L		1.0	1		02/07/14 11:46	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		02/07/14 11:46	75-27-4	
Bromoform	ND ug/L		1.0	1		02/07/14 11:46	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/07/14 11:46	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		02/07/14 11:46	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		02/07/14 11:46	56-23-5	
Chloroethane	ND ug/L		1.0	1		02/07/14 11:46	75-00-3	
Chloroform	ND ug/L		1.0	1		02/07/14 11:46	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		02/07/14 11:46	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		02/07/14 11:46	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		02/07/14 11:46	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		02/07/14 11:46	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		02/07/14 11:46	100-41-4	
Methylene chloride	ND ug/L		1.0	1		02/07/14 11:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		02/07/14 11:46	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		02/07/14 11:46	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		02/07/14 11:46	127-18-4	
Toluene	ND ug/L		1.0	1		02/07/14 11:46	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		02/07/14 11:46	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		02/07/14 11:46	79-00-5	
Trichloroethene	ND ug/L		1.0	1		02/07/14 11:46	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		02/07/14 11:46	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		02/07/14 11:46	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	96 %		80-120	1		02/07/14 11:46	460-00-4	
Toluene-d8 (S)	105 %		80-120	1		02/07/14 11:46	2037-26-5	
1,2-Dichloroethane-d4 (S)	107 %		80-120	1		02/07/14 11:46	17060-07-0	
Preservation pH	6.0		1.0	1		02/07/14 11:46		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-211

Pace Project No.: 60162461

QC Batch: MERP/8130

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60162461001

METHOD BLANK: 1329221

Matrix: Water

Associated Lab Samples: 60162461001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/13/14 09:31	

LABORATORY CONTROL SAMPLE: 1329222

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1329223 1329224

Parameter	Units	60161465018		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Mercury	ug/L	8.2	5	5	5	13.5	13.4	106	105	70-130	0	20			

MATRIX SPIKE SAMPLE: 1329260

Parameter	Units	60162743001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.1	83	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-211

Pace Project No.: 60162461

QC Batch: MERP/8123

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60162461001

METHOD BLANK: 1328450

Matrix: Water

Associated Lab Samples: 60162461001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/11/14 14:44	

LABORATORY CONTROL SAMPLE: 1328451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.1	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1328452 1328453

Parameter	Units	60162421001		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	ND	Spike Conc.	Conc.	Result	Result	% Rec	% Rec					
Mercury, Dissolved	ug/L	ND	150	150	132	97.5	87	64	70-130	30	20	M1,R1		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-211
Pace Project No.: 60162461

QC Batch: MPRP/26094 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60162461001

METHOD BLANK: 1327392 Matrix: Water
Associated Lab Samples: 60162461001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	02/10/14 11:52	
Antimony	ug/L	ND	10.0	02/10/14 11:52	
Arsenic	ug/L	ND	10.0	02/10/14 11:52	
Beryllium	ug/L	ND	1.0	02/10/14 11:52	
Cadmium	ug/L	ND	5.0	02/10/14 11:52	
Chromium	ug/L	ND	5.0	02/10/14 11:52	
Cobalt	ug/L	ND	5.0	02/10/14 11:52	
Copper	ug/L	ND	10.0	02/10/14 11:52	
Iron	ug/L	ND	50.0	02/10/14 11:52	
Lead	ug/L	ND	5.0	02/10/14 11:52	
Nickel	ug/L	ND	5.0	02/10/14 11:52	
Selenium	ug/L	ND	15.0	02/10/14 11:52	
Silver	ug/L	ND	7.0	02/10/14 11:52	
Thallium	ug/L	ND	20.0	02/10/14 11:52	
Zinc	ug/L	ND	50.0	02/10/14 11:52	

LABORATORY CONTROL SAMPLE: 1327393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9980	100	85-115	
Antimony	ug/L	1000	1010	101	85-115	
Arsenic	ug/L	1000	960	96	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1000	100	85-115	
Chromium	ug/L	1000	1020	102	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	1010	101	85-115	
Iron	ug/L	10000	10200	102	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	505	101	85-115	
Thallium	ug/L	1000	1040	104	85-115	
Zinc	ug/L	1000	1000	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1327394 1327395

Parameter	Units	60162421001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum	ug/L	17100	50000	50000	82100	79000	130	124	70-130	4	8		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-211

Pace Project No.: 60162461

Parameter	Units	60162421001		1327394		1327395		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Antimony	ug/L	82.6	5000	5000	5430	5420	107	107	70-130	0	7			
Arsenic	ug/L	1010	5000	5000	6650	6660	113	113	70-130	0	10			
Beryllium	ug/L	ND	5000	5000	4980	4970	100	99	70-130	0	7			
Cadmium	ug/L	ND	5000	5000	5370	5390	107	107	70-130	0	10			
Chromium	ug/L	314	5000	5000	5330	5240	100	99	70-130	2	10			
Cobalt	ug/L	48.7	5000	5000	4860	4900	96	97	70-130	1	6			
Copper	ug/L	ND	5000	5000	5370	5360	106	106	70-130	0	11			
Iron	ug/L	882000	50000	50000	969000	941000	175	119	70-130	3	10	M1		
Lead	ug/L	117	5000	5000	4690	4700	91	92	70-130	0	10			
Nickel	ug/L	133	5000	5000	4990	4980	97	97	70-130	0	10			
Selenium	ug/L	ND	5000	5000	6220	6240	123	123	70-130	0	10			
Silver	ug/L	ND	2500	2500	2710	2690	108	107	70-130	1	10			
Thallium	ug/L	ND	5000	5000	4110	4170	82	83	70-130	2	6			
Zinc	ug/L	5640	5000	5000	10600	10700	100	101	70-130	0	11			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-211
Pace Project No.: 60162461

QC Batch: MPRP/26102 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60162461001

METHOD BLANK: 1327682 Matrix: Water
Associated Lab Samples: 60162461001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	02/10/14 10:08	
Antimony, Dissolved	ug/L	ND	10.0	02/10/14 10:08	
Arsenic, Dissolved	ug/L	ND	10.0	02/10/14 10:08	
Beryllium, Dissolved	ug/L	ND	1.0	02/10/14 10:08	
Cadmium, Dissolved	ug/L	ND	5.0	02/10/14 10:08	
Chromium, Dissolved	ug/L	ND	5.0	02/10/14 10:08	
Cobalt, Dissolved	ug/L	ND	5.0	02/10/14 10:08	
Copper, Dissolved	ug/L	ND	10.0	02/10/14 10:08	
Iron, Dissolved	ug/L	ND	50.0	02/10/14 10:08	
Lead, Dissolved	ug/L	ND	5.0	02/10/14 10:08	
Nickel, Dissolved	ug/L	ND	5.0	02/10/14 10:08	
Selenium, Dissolved	ug/L	ND	15.0	02/10/14 10:08	
Silver, Dissolved	ug/L	ND	7.0	02/10/14 10:08	
Thallium, Dissolved	ug/L	ND	20.0	02/10/14 10:08	
Zinc, Dissolved	ug/L	ND	50.0	02/10/14 10:08	

LABORATORY CONTROL SAMPLE: 1327683

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	1020	102	85-115	
Arsenic, Dissolved	ug/L	1000	946	95	85-115	
Beryllium, Dissolved	ug/L	1000	1030	103	85-115	
Cadmium, Dissolved	ug/L	1000	986	99	85-115	
Chromium, Dissolved	ug/L	1000	1040	104	85-115	
Cobalt, Dissolved	ug/L	1000	1010	101	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	1040	104	85-115	
Nickel, Dissolved	ug/L	1000	1050	105	85-115	
Selenium, Dissolved	ug/L	1000	1010	101	85-115	
Silver, Dissolved	ug/L	500	511	102	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	991	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1327684 1327685

Parameter	Units	60162554001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum, Dissolved	ug/L	3380	50000	50000	55800	55700	105	105	70-130	0	8		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-211

Pace Project No.: 60162461

Parameter	Units	1327684		1327685		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		60162554001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Antimony, Dissolved	ug/L	66.1	5000	5000	5400	5400	107	107	70-130	0	7	
Arsenic, Dissolved	ug/L	780	5000	5000	5980	5970	104	104	70-130	0	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	4950	4920	99	98	70-130	1	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5220	5160	104	103	70-130	1	10	
Chromium, Dissolved	ug/L	238	5000	5000	5370	5380	103	103	70-130	0	10	
Cobalt, Dissolved	ug/L	50.1	5000	5000	4820	4750	95	94	70-130	1	6	
Copper, Dissolved	ug/L	ND	5000	5000	5460	5500	109	110	70-130	1	11	
Iron, Dissolved	ug/L	796000	50000	50000	786000	804000	-21	15	70-130	2	10	M1
Lead, Dissolved	ug/L	110	5000	5000	4740	4660	93	91	70-130	2	10	
Nickel, Dissolved	ug/L	118	5000	5000	4980	4940	97	96	70-130	1	10	
Selenium, Dissolved	ug/L	ND	5000	5000	6000	6050	119	120	70-130	1	10	
Silver, Dissolved	ug/L	ND	2500	2500	2760	2760	110	110	70-130	0	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4110	4060	82	81	70-130	1	6	
Zinc, Dissolved	ug/L	8740	5000	5000	12700	12800	79	82	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-211

Pace Project No.: 60162461

QC Batch: MSV/59306 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60162461001, 60162461002

METHOD BLANK: 1327432 Matrix: Water

Associated Lab Samples: 60162461001, 60162461002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/07/14 10:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/07/14 10:30	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	02/07/14 10:30	
1,2-Dichloroethane	ug/L	ND	1.0	02/07/14 10:30	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/07/14 10:30	
2-Butanone (MEK)	ug/L	ND	10.0	02/07/14 10:30	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/07/14 10:30	N2
Acetone	ug/L	ND	10.0	02/07/14 10:30	N2
Benzene	ug/L	ND	1.0	02/07/14 10:30	
Bromodichloromethane	ug/L	ND	1.0	02/07/14 10:30	
Bromoform	ug/L	ND	1.0	02/07/14 10:30	
Bromomethane	ug/L	ND	5.0	02/07/14 10:30	
Carbon tetrachloride	ug/L	ND	1.0	02/07/14 10:30	
Chloroethane	ug/L	ND	1.0	02/07/14 10:30	
Chloroform	ug/L	ND	1.0	02/07/14 10:30	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/07/14 10:30	N2
Ethylbenzene	ug/L	ND	1.0	02/07/14 10:30	
Methylene chloride	ug/L	ND	1.0	02/07/14 10:30	
Tetrachloroethene	ug/L	ND	1.0	02/07/14 10:30	
Toluene	ug/L	ND	1.0	02/07/14 10:30	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/07/14 10:30	
Trichloroethene	ug/L	ND	1.0	02/07/14 10:30	
Vinyl chloride	ug/L	ND	1.0	02/07/14 10:30	
Xylene (Total)	ug/L	ND	3.0	02/07/14 10:30	N2
1,2-Dichloroethane-d4 (S)	%	100	80-120	02/07/14 10:30	
4-Bromofluorobenzene (S)	%	99	80-120	02/07/14 10:30	
Toluene-d8 (S)	%	105	80-120	02/07/14 10:30	

LABORATORY CONTROL SAMPLE: 1327433

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.9	94	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	17.7	89	59-138	N2
1,1,2-Trichloroethane	ug/L	20	18.6	93	69-127	
1,2-Dichloroethane	ug/L	20	18.3	92	71-129	
1,4-Dichlorobenzene	ug/L	20	19.2	96	68-124	
2-Butanone (MEK)	ug/L	100	75.6	76	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	77.1	77	61-120	N2
Acetone	ug/L	100	84.9	85	40-160	N2
Benzene	ug/L	20	18.7	94	73-129	
Bromodichloromethane	ug/L	20	18.1	91	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-211

Pace Project No.: 60162461

LABORATORY CONTROL SAMPLE: 1327433

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	17.8	89	52-123	
Bromomethane	ug/L	20	15.7	78	10-160	
Carbon tetrachloride	ug/L	20	20.1	100	70-140	
Chloroethane	ug/L	20	19.8	99	42-160	
Chloroform	ug/L	20	19.1	95	60-120	
cis-1,2-Dichloroethene	ug/L	20	18.1	90	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	20.1	101	64-143	
Toluene	ug/L	20	18.7	93	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.4	92	67-149	
Trichloroethene	ug/L	20	18.5	93	71-130	
Vinyl chloride	ug/L	20	16.1	81	41-160	
Xylene (Total)	ug/L	60	56.8	95	67-130	N2
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1327434

Parameter	Units	60162421001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4320	108	52-160	
1,1,2,2-Tetrachloroethane	ug/L	513	4000	3550	76	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4030	101	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3900	97	49-155	
1,4-Dichlorobenzene	ug/L	2130	4000	5980	96	18-147	
2-Butanone (MEK)	ug/L	70600	20000	102000	158	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	3620	20000	21700	91	40-160	N2
Acetone	ug/L	114000	20000	116000	8	40-160	N2
Benzene	ug/L	ND	4000	3890	96	37-151	
Bromodichloromethane	ug/L	ND	4000	3860	97	35-155	
Bromoform	ug/L	ND	4000	3500	87	45-133	
Bromomethane	ug/L	ND	4000	2700	67	10-160	
Carbon tetrachloride	ug/L	ND	4000	4670	117	70-140	
Chloroethane	ug/L	ND	4000	3830	96	14-160	
Chloroform	ug/L	ND	4000	4200	105	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3820	95	19-160	N2
Ethylbenzene	ug/L	541	4000	4520	100	37-154	
Methylene chloride	ug/L	ND	4000	3610	90	15-156	
Tetrachloroethene	ug/L	ND	4000	3950	99	64-148	
Toluene	ug/L	ND	4000	4100	98	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	3980	100	54-156	
Trichloroethene	ug/L	ND	4000	4070	102	71-157	
Vinyl chloride	ug/L	ND	4000	3330	83	10-160	
Xylene (Total)	ug/L	2130	12000	14100	100	12-153	N2
1,2-Dichloroethane-d4 (S)	%				107	80-120	
4-Bromofluorobenzene (S)	%				91	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-211

Pace Project No.: 60162461

MATRIX SPIKE SAMPLE:		1327434					
Parameter	Units	60162421001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S) Preservation pH	%	6.0	6.0	6.0	102	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-211

Pace Project No.: 60162461

QC Batch:	MSV/59367	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60162461001		

METHOD BLANK: 1328781 Matrix: Water

Associated Lab Samples: 60162461001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acetone	ug/L	ND	10.0	02/11/14 15:08	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	02/11/14 15:08	
4-Bromofluorobenzene (S)	%	101	80-120	02/11/14 15:08	
Toluene-d8 (S)	%	101	80-120	02/11/14 15:08	

LABORATORY CONTROL SAMPLE: 1328782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	100	80.7	81	40-160	N2
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1328783

Parameter	Units	60162662001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%					96	80-120
4-Bromofluorobenzene (S)	%					97	80-120
Toluene-d8 (S)	%					99	80-120

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-211
Pace Project No.: 60162461

QC Batch: OEXT/42650 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60162461001

METHOD BLANK: 1328026 Matrix: Water
Associated Lab Samples: 60162461001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/11/14 08:57	
2,4,6-Trichlorophenol	ug/L	ND	5.0	02/11/14 08:57	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	02/11/14 08:57	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/11/14 08:57	
Hexachlorocyclopentadiene	ug/L	ND	5.0	02/11/14 08:57	
Hexachloroethane	ug/L	ND	5.0	02/11/14 08:57	
Naphthalene	ug/L	ND	5.0	02/11/14 08:57	
Nitrobenzene	ug/L	ND	5.0	02/11/14 08:57	
Pentachlorophenol	ug/L	ND	5.0	02/11/14 08:57	
Phenol	ug/L	ND	5.0	02/11/14 08:57	
2,4,6-Tribromophenol (S)	%	87	39-120	02/11/14 08:57	
2-Fluorobiphenyl (S)	%	87	39-120	02/11/14 08:57	
2-Fluorophenol (S)	%	52	17-120	02/11/14 08:57	
Nitrobenzene-d5 (S)	%	85	33-120	02/11/14 08:57	
Phenol-d6 (S)	%	34	11-120	02/11/14 08:57	
Terphenyl-d14 (S)	%	91	45-120	02/11/14 08:57	

LABORATORY CONTROL SAMPLE: 1328027

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	43.7	87	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	50.0	100	40-133	
Hexachloro-1,3-butadiene	ug/L	50	35.0	70	44-116	
Hexachlorocyclopentadiene	ug/L	100	60.1	60	24-120	
Hexachloroethane	ug/L	50	35.9	72	43-113	
Naphthalene	ug/L	50	40.0	80	48-120	
Nitrobenzene	ug/L	50	41.4	83	48-120	
Pentachlorophenol	ug/L	50	43.7	87	47-120	
Phenol	ug/L	50	17.5	35	16-112	
2,4,6-Tribromophenol (S)	%			96	39-120	
2-Fluorobiphenyl (S)	%			83	39-120	
2-Fluorophenol (S)	%			51	17-120	
Nitrobenzene-d5 (S)	%			85	33-120	
Phenol-d6 (S)	%			34	11-120	
Terphenyl-d14 (S)	%			88	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-211

Pace Project No.: 60162461

MATRIX SPIKE SAMPLE:		1328028					
Parameter	Units	60162461001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3890	78	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4670	93	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	5270	105	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3740	75	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	6870	69	11-120	
Hexachloroethane	ug/L	ND	5000	3740	75	40-113	
Naphthalene	ug/L	1030	5000	4800	75	45-120	
Nitrobenzene	ug/L	ND	5000	6360	127	38-120	M1
Pentachlorophenol	ug/L	ND	5000	5210	104	43-135	
Phenol	ug/L	12200	5000	14800	51	13-112	
2,4,6-Tribromophenol (S)	%				98	39-120	
2-Fluorobiphenyl (S)	%				84	39-120	
2-Fluorophenol (S)	%				50	17-120	
Nitrobenzene-d5 (S)	%				139	33-120	S0
Phenol-d6 (S)	%				36	11-120	
Terphenyl-d14 (S)	%				87	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-211

Pace Project No.: 60162461

QC Batch:	WET/46032	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60162461001		

METHOD BLANK: 1327624 Matrix: Water

Associated Lab Samples: 60162461001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/07/14 15:51	

LABORATORY CONTROL SAMPLE: 1327625

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.9	100	78-114	

MATRIX SPIKE SAMPLE: 1327626

Parameter	Units	60162461001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	234	160	400	103	78-114	

SAMPLE DUPLICATE: 1327627

Parameter	Units	60162274002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	14.3	14.0	2	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-211

Pace Project No.: 60162461

QC Batch:	WET/46119	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60162461001		

METHOD BLANK: 1329416 Matrix: Water
Associated Lab Samples: 60162461001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	02/13/14 09:11	

LABORATORY CONTROL SAMPLE: 1329417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	21.7	108	64-132	

MATRIX SPIKE SAMPLE: 1329418

Parameter	Units	60162662001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	80	61.6	76	64-132	

SAMPLE DUPLICATE: 1329419

Parameter	Units	60162664001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	11.6	15.6	29	34	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-211

Pace Project No.: 60162461

QC Batch: WET/46013

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60162461001

METHOD BLANK: 1327282

Matrix: Water

Associated Lab Samples: 60162461001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	02/07/14 14:16	

SAMPLE DUPLICATE: 1327283

Parameter	Units	60162484001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 1327284

Parameter	Units	60162453002 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 316-211

Pace Project No.: 60162461

QC Batch: WET/46045 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60162461001

SAMPLE DUPLICATE: 1327753

Parameter	Units	60161465002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.6	5.6	1	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-211

Pace Project No.: 60162461

QC Batch: WET/45996

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60162461001

METHOD BLANK: 1326846

Matrix: Water

Associated Lab Samples: 60162461001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	02/11/14 08:44	

LABORATORY CONTROL SAMPLE: 1326847

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	201	101	85-115	

SAMPLE DUPLICATE: 1326848

Parameter	Units	60162460001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	13.3	13.8	4	17	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-211

Pace Project No.: 60162461

QC Batch:	WETA/28096	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60162461001		

METHOD BLANK: 1327026 Matrix: Water
Associated Lab Samples: 60162461001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/06/14 11:37	

LABORATORY CONTROL SAMPLE: 1327027

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	103	90-110	

MATRIX SPIKE SAMPLE: 1327028

Parameter	Units	60162462001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	6.1	4	9.4	81	90-110	M1

SAMPLE DUPLICATE: 1327029

Parameter	Units	60162479001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-211

Pace Project No.: 60162461

QC Batch:	WETA/28146	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60162461001		

METHOD BLANK: 1328434 Matrix: Water
Associated Lab Samples: 60162461001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/12/14 11:59	

LABORATORY CONTROL SAMPLE: 1328435

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

MATRIX SPIKE SAMPLE: 1328436

Parameter	Units	60162500001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	23.4	50	73.3	100	90-110	

SAMPLE DUPLICATE: 1328437

Parameter	Units	60162253001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	13.1	17.6	30	25	D6

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QUALIFIERS

Project: BRIDGETON LF 316-211

Pace Project No.: 60162461

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.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-211

Pace Project No.: 60162461

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60162461001	316-211	EPA 200.7	MPRP/26094	EPA 200.7	ICP/19953
60162461001	316-211	EPA 200.7	MPRP/26102	EPA 200.7	ICP/19955
60162461001	316-211	EPA 245.1	MERP/8130	EPA 245.1	MERC/8084
60162461001	316-211	EPA 245.1	MERP/8123	EPA 245.1	MERC/8079
60162461001	316-211	EPA 625	OEXT/42650	EPA 625	MSSV/13576
60162461001	316-211	EPA 624 Low	MSV/59306		
60162461001	316-211	EPA 624 Low	MSV/59367		
60162461002	TRIP BLANK	EPA 624 Low	MSV/59306		
60162461001	316-211	EPA 1664A	WET/46032		
60162461001	316-211	EPA 1664A	WET/46119		
60162461001	316-211	SM 2540D	WET/46013		
60162461001	316-211	SM 4500-H+B	WET/46045		
60162461001	316-211	SM 5210B	WET/45996	SM 5210B	WET/46082
60162461001	316-211	EPA 350.1	WETA/28096		
60162461001	316-211	EPA 410.4	WETA/28146		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60162461



Client Name: Baer

Courier: Fed Ex UPS USPS Client Commercial Pace Other pr2/16/14

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 2211

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

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: pv 2/16/14

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOD pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>Added 2.5 ml of Hno3 to BP35. PH 6.0/4.0</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>Added 2.0 ml of H2SO4 to BP35. PH 6.0/2.0</u>
Exceptions <u>VOA</u> , coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>pv</u> Lot # of added preservative <u>12513</u> <u>12514</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>1111 3-3 BE2</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MT</u>

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 2/16/14

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: AMY HARGROVE/BRIAN POWER	
Address:		Copy To: SCOTT FEDAK/FEEZOR		Company Name: REPUBLIC SERVICES	
		DANA BAKER/MARGARET TREATOR -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	

ITEM#	SAMPLE ID One Character per box. (A-Z, 0-9, /, -) Sample ids must be unique	MATRIX CODE (see valid codes to left)	CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)				
					START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	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-SSGT 1664	BOD SM 5210B						
					DATE	TIME	DATE	TIME																												
1	31G-211 2AG44	B3U	BAG3S	OT	G	2-5-14	8:15AM	2-5-14	8:45	14	10	4	1	0																						00162461
2	TRIP BLANK									2	2																								26124 SD69U 01 2D69U 02	
3																																				
4																																				
5																																				
6																																				
7																																				
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	Jolie Cook / Leaps Engin	2/5/14	1100	Kyle Kramer / Earth	2/5/14	1100	
SITE ADDRESS: BRIDGETON LF				PRSE pu 216/14	2/5/14	0150	3.0 Y Y Y
13570 ST. CHARLES ROCK RD					2/6/14		
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: Kyle Kramer					
SIGNATURE of SAMPLER: <i>Kyle Kramer</i>		DATE Signed: 2-5-14			

February 13, 2014

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

RE: Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60162483

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60162483

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60162483

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60162483001	TCLP 02-05	Water	02/05/14 11:00	02/06/14 01:50
60162483002	TRIP BLANK	Water	02/05/14 08:00	02/06/14 01:50

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SAMPLE ANALYTE COUNT

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60162483

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60162483001	TCLP 02-05	EPA 8260	JKL	13
		EPA 5030B/8260	SDR	28
		EPA 1664A	DJR	1
		SM 2540B	JMC	1
60162483002	TRIP BLANK	EPA 5030B/8260	SDR	28

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Sample Project No.: 60162483

Sample: TCLP 02-05		Lab ID: 60162483001	Collected: 02/05/14 11:00	Received: 02/06/14 01:50	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; 02/12/14 00:00						
Benzene	1760 ug/L		250	5		02/13/14 12:03	71-43-2	
2-Butanone (MEK)	136000 ug/L		50000	50		02/13/14 15:40	78-93-3	
Carbon tetrachloride	ND ug/L		250	5		02/13/14 12:03	56-23-5	
Chlorobenzene	ND ug/L		250	5		02/13/14 12:03	108-90-7	
Chloroform	ND ug/L		1000	5		02/13/14 12:03	67-66-3	
1,2-Dichloroethane	ND ug/L		250	5		02/13/14 12:03	107-06-2	
1,1-Dichloroethene	ND ug/L		250	5		02/13/14 12:03	75-35-4	
Tetrachloroethene	ND ug/L		250	5		02/13/14 12:03	127-18-4	
Trichloroethene	ND ug/L		250	5		02/13/14 12:03	79-01-6	
Vinyl chloride	ND ug/L		100	5		02/13/14 12:03	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	102 %		80-120	5		02/13/14 12:03	17060-07-0	
Toluene-d8 (S)	99 %		80-120	5		02/13/14 12:03	2037-26-5	
4-Bromofluorobenzene (S)	102 %		80-120	5		02/13/14 12:03	460-00-4	
8260 MSV		Analytical Method: EPA 5030B/8260						
Acetone	224000 ug/L		5000	500		02/10/14 17:27	67-64-1	
Benzene	2240 ug/L		500	500		02/10/14 17:27	71-43-2	
Bromodichloromethane	ND ug/L		500	500		02/10/14 17:27	75-27-4	
Bromoform	ND ug/L		500	500		02/10/14 17:27	75-25-2	
Bromomethane	ND ug/L		2500	500		02/10/14 17:27	74-83-9	
2-Butanone (MEK)	153000 ug/L		5000	500		02/10/14 17:27	78-93-3	
Carbon tetrachloride	ND ug/L		500	500		02/10/14 17:27	56-23-5	
Chloroethane	ND ug/L		500	500		02/10/14 17:27	75-00-3	
Chloroform	ND ug/L		500	500		02/10/14 17:27	67-66-3	
1,4-Dichlorobenzene	1070 ug/L		500	500		02/10/14 17:27	106-46-7	
1,2-Dichloroethane	ND ug/L		500	500		02/10/14 17:27	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		500	500		02/10/14 17:27	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		500	500		02/10/14 17:27	156-60-5	
Ethylbenzene	593 ug/L		500	500		02/10/14 17:27	100-41-4	
Methylene chloride	ND ug/L		500	500		02/10/14 17:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	5220 ug/L		5000	500		02/10/14 17:27	108-10-1	
1,1,2,2-Tetrachloroethane	ND ug/L		500	500		02/10/14 17:27	79-34-5	
Tetrachloroethene	ND ug/L		500	500		02/10/14 17:27	127-18-4	
Toluene	717 ug/L		500	500		02/10/14 17:27	108-88-3	
1,1,1-Trichloroethane	ND ug/L		500	500		02/10/14 17:27	71-55-6	
1,1,2-Trichloroethane	ND ug/L		500	500		02/10/14 17:27	79-00-5	
Trichloroethene	ND ug/L		500	500		02/10/14 17:27	79-01-6	
Vinyl chloride	ND ug/L		500	500		02/10/14 17:27	75-01-4	
Xylene (Total)	1880 ug/L		1500	500		02/10/14 17:27	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101 %		80-120	500		02/10/14 17:27	460-00-4	
1,2-Dichloroethane-d4 (S)	110 %		80-120	500		02/10/14 17:27	17060-07-0	
Toluene-d8 (S)	99 %		80-120	500		02/10/14 17:27	2037-26-5	
Preservation pH	5.0		0.10	500		02/10/14 17:27		pH

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60162483

Sample: TCLP 02-05		Lab ID: 60162483001	Collected: 02/05/14 11:00	Received: 02/06/14 01:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	150	mg/L	5.0	1		02/07/14 15:52		
2540B Total Solids		Analytical Method: SM 2540B						
Total Solids	56300	mg/L	5.0	1		02/11/14 09:19		

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60162483

Sample: TRIP BLANK		Lab ID: 60162483002	Collected: 02/05/14 08:00	Received: 02/06/14 01:50	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		02/10/14 14:47	67-64-1	
Benzene	ND ug/L		1.0	1		02/10/14 14:47	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		02/10/14 14:47	75-27-4	
Bromoform	ND ug/L		1.0	1		02/10/14 14:47	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/10/14 14:47	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		02/10/14 14:47	78-93-3	
Carbon tetrachloride	ND ug/L		1.0	1		02/10/14 14:47	56-23-5	
Chloroethane	ND ug/L		1.0	1		02/10/14 14:47	75-00-3	
Chloroform	ND ug/L		1.0	1		02/10/14 14:47	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		02/10/14 14:47	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		02/10/14 14:47	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		02/10/14 14:47	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		02/10/14 14:47	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		02/10/14 14:47	100-41-4	
Methylene chloride	ND ug/L		1.0	1		02/10/14 14:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		02/10/14 14:47	108-10-1	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		02/10/14 14:47	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		02/10/14 14:47	127-18-4	
Toluene	ND ug/L		1.0	1		02/10/14 14:47	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		02/10/14 14:47	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		02/10/14 14:47	79-00-5	
Trichloroethene	ND ug/L		1.0	1		02/10/14 14:47	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		02/10/14 14:47	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		02/10/14 14:47	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101 %		80-120	1		02/10/14 14:47	460-00-4	
1,2-Dichloroethane-d4 (S)	108 %		80-120	1		02/10/14 14:47	17060-07-0	
Toluene-d8 (S)	100 %		80-120	1		02/10/14 14:47	2037-26-5	
Preservation pH	1.0		0.10	1		02/10/14 14:47		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60162483

QC Batch:	MSV/59400	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV TCLP
Associated Lab Samples:	60162483001		

METHOD BLANK: 1329517 Matrix: Water

Associated Lab Samples: 60162483001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	02/13/14 11:47	
1,2-Dichloroethane	ug/L	ND	50.0	02/13/14 11:47	
2-Butanone (MEK)	ug/L	ND	1000	02/13/14 11:47	
Benzene	ug/L	ND	50.0	02/13/14 11:47	
Carbon tetrachloride	ug/L	ND	50.0	02/13/14 11:47	
Chlorobenzene	ug/L	ND	50.0	02/13/14 11:47	
Chloroform	ug/L	ND	200	02/13/14 11:47	
Tetrachloroethene	ug/L	ND	50.0	02/13/14 11:47	
Trichloroethene	ug/L	ND	50.0	02/13/14 11:47	
Vinyl chloride	ug/L	ND	20.0	02/13/14 11:47	
1,2-Dichloroethane-d4 (S)	%	105	80-120	02/13/14 11:47	
4-Bromofluorobenzene (S)	%	101	80-120	02/13/14 11:47	
Toluene-d8 (S)	%	100	80-120	02/13/14 11:47	

LABORATORY CONTROL SAMPLE: 1329518

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	1040	104	72-122	
2-Butanone (MEK)	ug/L	5000	5790	116	69-124	
Benzene	ug/L	1000	956	96	73-122	
Carbon tetrachloride	ug/L	1000	986	99	73-125	
Chlorobenzene	ug/L	1000	945	94	80-120	
Chloroform	ug/L	1000	1020	102	76-120	
Tetrachloroethene	ug/L	1000	1000	100	79-122	
Trichloroethene	ug/L	1000	993	99	76-120	
Vinyl chloride	ug/L	1000	977	98	57-140	
1,2-Dichloroethane-d4 (S)	%			106	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			101	80-120	

MATRIX SPIKE SAMPLE: 1329520

Parameter	Units	60162483001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	5000	5110	102	66-142	
1,2-Dichloroethane	ug/L	ND	5000	5110	102	53-144	
2-Butanone (MEK)	ug/L	136000	250000	367000	92	54-127	
Benzene	ug/L	1760	5000	6590	96	48-150	
Carbon tetrachloride	ug/L	ND	5000	5000	100	68-145	
Chlorobenzene	ug/L	ND	5000	4740	94	68-131	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60162483

MATRIX SPIKE SAMPLE:		1329520	60162483001		Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers		
Chloroform	ug/L	ND	5000	4890	98	69-126			
Tetrachloroethene	ug/L	ND	5000	5130	103	66-139			
Trichloroethene	ug/L	ND	5000	5000	100	67-130			
Vinyl chloride	ug/L	ND	5000	4850	97	47-159			
1,2-Dichloroethane-d4 (S)	%				105	80-120			
4-Bromofluorobenzene (S)	%				103	80-120			
Toluene-d8 (S)	%				101	80-120			

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60162483

QC Batch: MSV/59343 Analysis Method: EPA 5030B/8260
 QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
 Associated Lab Samples: 60162483001, 60162483002

METHOD BLANK: 1328248 Matrix: Water

Associated Lab Samples: 60162483001, 60162483002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/10/14 12:24	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/10/14 12:24	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/10/14 12:24	
1,2-Dichloroethane	ug/L	ND	1.0	02/10/14 12:24	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/10/14 12:24	
2-Butanone (MEK)	ug/L	ND	10.0	02/10/14 12:24	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/10/14 12:24	
Acetone	ug/L	ND	10.0	02/10/14 12:24	
Benzene	ug/L	ND	1.0	02/10/14 12:24	
Bromodichloromethane	ug/L	ND	1.0	02/10/14 12:24	
Bromoform	ug/L	ND	1.0	02/10/14 12:24	
Bromomethane	ug/L	ND	5.0	02/10/14 12:24	
Carbon tetrachloride	ug/L	ND	1.0	02/10/14 12:24	
Chloroethane	ug/L	ND	1.0	02/10/14 12:24	
Chloroform	ug/L	ND	1.0	02/10/14 12:24	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/10/14 12:24	
Ethylbenzene	ug/L	ND	1.0	02/10/14 12:24	
Methylene chloride	ug/L	ND	1.0	02/10/14 12:24	
Tetrachloroethene	ug/L	ND	1.0	02/10/14 12:24	
Toluene	ug/L	ND	1.0	02/10/14 12:24	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/10/14 12:24	
Trichloroethene	ug/L	ND	1.0	02/10/14 12:24	
Vinyl chloride	ug/L	ND	1.0	02/10/14 12:24	
Xylene (Total)	ug/L	ND	3.0	02/10/14 12:24	
1,2-Dichloroethane-d4 (S)	%	109	80-120	02/10/14 12:24	
4-Bromofluorobenzene (S)	%	101	80-120	02/10/14 12:24	
Toluene-d8 (S)	%	100	80-120	02/10/14 12:24	

LABORATORY CONTROL SAMPLE: 1328249

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.8	109	75-124	
1,1,2,2-Tetrachloroethane	ug/L	20	22.0	110	73-120	
1,1,2-Trichloroethane	ug/L	20	21.8	109	76-120	
1,2-Dichloroethane	ug/L	20	21.8	109	72-122	
1,4-Dichlorobenzene	ug/L	20	21.4	107	80-120	
2-Butanone (MEK)	ug/L	100	123	123	69-124	
4-Methyl-2-pentanone (MIBK)	ug/L	100	112	112	72-123	
Acetone	ug/L	100	117	117	60-126	
Benzene	ug/L	20	21.6	108	73-122	
Bromodichloromethane	ug/L	20	21.7	108	73-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60162483

LABORATORY CONTROL SAMPLE: 1328249

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	23.3	116	74-120	
Bromomethane	ug/L	20	16.1	81	40-146	
Carbon tetrachloride	ug/L	20	23.9	120	73-125	
Chloroethane	ug/L	20	20.1	101	56-159	
Chloroform	ug/L	20	22.0	110	76-120	
cis-1,2-Dichloroethene	ug/L	20	19.4	97	69-120	
Ethylbenzene	ug/L	20	20.2	101	76-123	
Methylene chloride	ug/L	20	20.8	104	71-123	
Tetrachloroethene	ug/L	20	20.4	102	79-122	
Toluene	ug/L	20	20.2	101	76-122	
trans-1,2-Dichloroethene	ug/L	20	19.0	95	78-126	
Trichloroethene	ug/L	20	19.5	97	76-120	
Vinyl chloride	ug/L	20	18.3	92	57-140	
Xylene (Total)	ug/L	60	62.3	104	76-122	
1,2-Dichloroethane-d4 (S)	%			109	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			98	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60162483

QC Batch:	WET/46032	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60162483001		

METHOD BLANK: 1327624 Matrix: Water

Associated Lab Samples: 60162483001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/07/14 15:51	

LABORATORY CONTROL SAMPLE: 1327625

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.9	100	78-114	

MATRIX SPIKE SAMPLE: 1327626

Parameter	Units	60162461001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	234	160	400	103	78-114	

SAMPLE DUPLICATE: 1327627

Parameter	Units	60162274002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	14.3	14.0	2	18	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60162483

QC Batch: WET/46073

Analysis Method: SM 2540B

QC Batch Method: SM 2540B

Analysis Description: 2540B Total Solids

Associated Lab Samples: 60162483001

METHOD BLANK: 1328422

Matrix: Water

Associated Lab Samples: 60162483001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	5.0	02/11/14 09:08	

LABORATORY CONTROL SAMPLE: 1328423

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	1000	998	100	80-120	

SAMPLE DUPLICATE: 1328424

Parameter	Units	60162524001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	11000	10900	1	10	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60162483

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/59343

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

ANALYTE QUALIFIERS

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60162483

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60162483001	TCLP 02-05	EPA 8260	MSV/59400		
60162483001	TCLP 02-05	EPA 5030B/8260	MSV/59343		
60162483002	TRIP BLANK	EPA 5030B/8260	MSV/59343		
60162483001	TCLP 02-05	EPA 1664A	WET/46032		
60162483001	TCLP 02-05	SM 2540B	WET/46073		

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Sample Condition Upon Receipt

WO#: 60162483



Client Name: Barr

Courier: Fed Ex UPS USPS Client Commercial Pace Other road

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 2PIL

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

Cooler Temperature: 1.8

(circle one)

Date and initials of person examining contents: pr 2/6/14

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Exceptions: <u>VOA</u> , coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased): <u>pr 2/6/14</u> <u>112613-1</u> <u>112613-3</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MO</u>

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

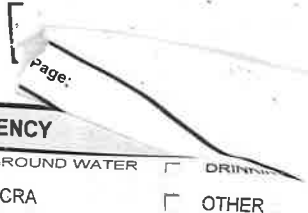
Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature]

Date: 2/6/14

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	
Email To:		Purchase Order No.: PO 3727110		Address: BRIDGETON, MO 63044	
Phone:		Project Name: UNTREATED COMMINGLED		Pace Quote Reference:	
Requested Due Date/TAT:		Project Number:		Pace Project Manager: Angie Brown 913-563-1402	
				Pace Profile #: PROFILE 6787-LINE 6	
				REGULATORY AGENCY	
				<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
				Site Location: MO	
				STATE: MO	



ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)		Residual Chlorine (Y/N)	
						Unpreserved	Preservatives		
	SAMPLE ID (A-Z, 0-9 / .-) Sample IDs MUST BE UNIQUE		COMPOSITE START DATE TIME	COMPOSITE END/GRAB DATE TIME		Analysis Test ↓	8260 Volatiles ** TCLP Volatiles * % Solids Oil and Grease		
1	TCLP 02-05		6/25/14 1100			Analysis Test ↓	306914	ZAG35 ZAG1U 021	Pace Project No./ Lab I.D.
2							256914 TB	022	** total VOCs Bridgeton List
3									* footnote %dry solids TCLP
4									
5									
6									
7									
8									
9									
10									
11									
12									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Angie Cook / Fezer Engin.	2/5/14	1100	Project to Search PHASE	2/6/14	1100	1-8	Y	X	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:	SIGNATURE of SAMPLER:				
	<i>John Powell</i>				
DATE Signed (MM/DD/YY):					
					02-05-14

*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.

TCLP/SPLP Determination of Percent Solids
 (Only if sample is liquid or semi-liquid. Skip if sample is obviously 100% solid.)



Date: 2/12/14 Batch: 6132
 Analyst: JDZ Balance ID: W00EXT5 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)
60162483001	119.6	218.6	282.8	1.3	120.1	375.3	3.6	92.5	98.5	6.09	1.4	1.4	0.10	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
														Yes / No / NA

CEM 2/13/14

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 = $\frac{\text{mL of leachate required}}{20 \times \text{Percent solids}} \times 100$

February 14, 2014

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

RE: Project: BRIDGETON LF 316-212R1
Pace Project No.: 60162554

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 07, 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 316-212R1

Pace Project No.: 60162554

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 316-212R1

Pace Project No.: 60162554

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60162554001	316-212R1	Water	02/06/14 10:45	02/07/14 01:15
60162554002	TRIP BLANK	Water	02/06/14 10:45	02/07/14 01:15

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-212R1

Pace Project No.: 60162554

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60162554001	316-212R1	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	NDJ	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	JMC	1
60162554002	TRIP BLANK	EPA 624 Low	EAK	28

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-212R1

Pace Project No.: 60162554

Sample: 316-212R1		Lab ID: 60162554001	Collected: 02/06/14 10:45	Received: 02/07/14 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	12800	ug/L	750	2	02/10/14 10:00	02/10/14 15:35	7429-90-5	
Antimony	67.9	ug/L	50.0	1	02/10/14 10:00	02/10/14 15:32	7440-36-0	
Arsenic	814	ug/L	50.0	1	02/10/14 10:00	02/10/14 15:32	7440-38-2	
Beryllium	ND	ug/L	5.0	1	02/10/14 10:00	02/10/14 15:32	7440-41-7	
Cadmium	ND	ug/L	25.0	1	02/10/14 10:00	02/10/14 15:32	7440-43-9	
Chromium	257	ug/L	25.0	1	02/10/14 10:00	02/10/14 15:32	7440-47-3	
Cobalt	60.6	ug/L	25.0	1	02/10/14 10:00	02/10/14 15:32	7440-48-4	
Copper	ND	ug/L	50.0	1	02/10/14 10:00	02/10/14 15:32	7440-50-8	
Iron	896000	ug/L	250	1	02/10/14 10:00	02/10/14 15:32	7439-89-6	M1
Lead	163	ug/L	25.0	1	02/10/14 10:00	02/10/14 15:32	7439-92-1	
Nickel	130	ug/L	25.0	1	02/10/14 10:00	02/10/14 15:32	7440-02-0	
Selenium	ND	ug/L	75.0	1	02/10/14 10:00	02/10/14 15:32	7782-49-2	
Silver	ND	ug/L	35.0	1	02/10/14 10:00	02/10/14 15:32	7440-22-4	
Thallium	ND	ug/L	100	1	02/10/14 10:00	02/10/14 15:32	7440-28-0	
Zinc	8830	ug/L	500	2	02/10/14 10:00	02/10/14 15:35	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	3380	ug/L	750	2	02/07/14 16:00	02/10/14 10:26	7429-90-5	
Antimony, Dissolved	66.1	ug/L	50.0	1	02/07/14 16:00	02/10/14 10:24	7440-36-0	
Arsenic, Dissolved	780	ug/L	50.0	1	02/07/14 16:00	02/10/14 10:24	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	02/07/14 16:00	02/10/14 10:24	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	02/07/14 16:00	02/10/14 10:24	7440-43-9	
Chromium, Dissolved	238	ug/L	25.0	1	02/07/14 16:00	02/10/14 10:24	7440-47-3	
Cobalt, Dissolved	50.1	ug/L	25.0	1	02/07/14 16:00	02/10/14 10:24	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	02/07/14 16:00	02/10/14 10:24	7440-50-8	
Iron, Dissolved	796000	ug/L	250	1	02/07/14 16:00	02/10/14 10:24	7439-89-6	M1
Lead, Dissolved	110	ug/L	25.0	1	02/07/14 16:00	02/10/14 10:24	7439-92-1	
Nickel, Dissolved	118	ug/L	25.0	1	02/07/14 16:00	02/10/14 10:24	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	02/07/14 16:00	02/10/14 10:24	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	02/07/14 16:00	02/10/14 10:24	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	02/07/14 16:00	02/10/14 10:24	7440-28-0	
Zinc, Dissolved	8740	ug/L	500	2	02/07/14 16:00	02/10/14 10:26	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND	ug/L	6.0	1	02/12/14 16:00	02/13/14 09:50	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	02/11/14 09:30	02/11/14 14:57	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	02/10/14 00:00	02/11/14 10:40	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	02/10/14 00:00	02/11/14 10:40	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	02/10/14 00:00	02/11/14 10:40	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	02/10/14 00:00	02/11/14 10:40	67-72-1	
Naphthalene	1140	ug/L	1000	2	02/10/14 00:00	02/11/14 10:40	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	02/10/14 00:00	02/11/14 10:40	98-95-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-212R1

Pace Project No.: 60162554

Sample: 316-212R1		Lab ID: 60162554001	Collected: 02/06/14 10:45	Received: 02/07/14 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	02/10/14 00:00	02/11/14 10:40	87-86-5	
Phenol	14200 ug/L		1000	2	02/10/14 00:00	02/11/14 10:40	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	02/10/14 00:00	02/11/14 10:40	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	02/10/14 00:00	02/11/14 10:40	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	165 %		33-120	2	02/10/14 00:00	02/11/14 10:40	4165-60-0	S0
2-Fluorobiphenyl (S)	91 %		39-120	2	02/10/14 00:00	02/11/14 10:40	321-60-8	
Terphenyl-d14 (S)	88 %		45-120	2	02/10/14 00:00	02/11/14 10:40	1718-51-0	
Phenol-d6 (S)	40 %		11-120	2	02/10/14 00:00	02/11/14 10:40	13127-88-3	
2-Fluorophenol (S)	57 %		17-120	2	02/10/14 00:00	02/11/14 10:40	367-12-4	
2,4,6-Tribromophenol (S)	103 %		39-120	2	02/10/14 00:00	02/11/14 10:40	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	191000 ug/L		2500	250		02/11/14 15:54	67-64-1	N2
Benzene	ND ug/L		200	200		02/07/14 12:00	71-43-2	
Bromodichloromethane	ND ug/L		200	200		02/07/14 12:00	75-27-4	
Bromoform	ND ug/L		200	200		02/07/14 12:00	75-25-2	
Bromomethane	ND ug/L		1000	200		02/07/14 12:00	74-83-9	
2-Butanone (MEK)	124000 ug/L		2000	200		02/07/14 12:00	78-93-3	N2
Carbon tetrachloride	ND ug/L		200	200		02/07/14 12:00	56-23-5	
Chloroethane	ND ug/L		200	200		02/07/14 12:00	75-00-3	
Chloroform	ND ug/L		200	200		02/07/14 12:00	67-66-3	
1,4-Dichlorobenzene	2610 ug/L		200	200		02/07/14 12:00	106-46-7	
1,2-Dichloroethane	ND ug/L		200	200		02/07/14 12:00	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200	200		02/07/14 12:00	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		200	200		02/07/14 12:00	156-60-5	
Ethylbenzene	412 ug/L		200	200		02/07/14 12:00	100-41-4	
Methylene chloride	ND ug/L		200	200		02/07/14 12:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	5470 ug/L		2000	200		02/07/14 12:00	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		02/07/14 12:00	79-34-5	N2
Tetrachloroethene	ND ug/L		200	200		02/07/14 12:00	127-18-4	
Toluene	ND ug/L		200	200		02/07/14 12:00	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		02/07/14 12:00	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		02/07/14 12:00	79-00-5	
Trichloroethene	ND ug/L		200	200		02/07/14 12:00	79-01-6	
Vinyl chloride	ND ug/L		200	200		02/07/14 12:00	75-01-4	
Xylene (Total)	1670 ug/L		600	200		02/07/14 12:00	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	96 %		80-120	200		02/07/14 12:00	460-00-4	
Toluene-d8 (S)	102 %		80-120	200		02/07/14 12:00	2037-26-5	
1,2-Dichloroethane-d4 (S)	101 %		80-120	200		02/07/14 12:00	17060-07-0	
Preservation pH	6.0		1.0	200		02/07/14 12:00		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1870 mg/L		5.0	1		02/07/14 15:53		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-212R1

Pace Project No.: 60162554

Sample: 316-212R1		Lab ID: 60162554001	Collected: 02/06/14 10:45	Received: 02/07/14 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	46.2	mg/L	5.0	1		02/13/14 09:12		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	3680	mg/L	5.0	1		02/07/14 14:26		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.1	Std. Units	0.10	1		02/08/14 16:30		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	35400	mg/L	2.0	1	02/07/14 16:55	02/12/14 16:18		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	691	mg/L	20.0	200		02/11/14 14:54	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	66800	mg/L	5000	500		02/12/14 12:02		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-212R1

Pace Project No.: 60162554

Sample: TRIP BLANK		Lab ID: 60162554002	Collected: 02/06/14 10:45	Received: 02/07/14 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		02/07/14 12:15	67-64-1	N2
Benzene	ND ug/L		1.0	1		02/07/14 12:15	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		02/07/14 12:15	75-27-4	
Bromoform	ND ug/L		1.0	1		02/07/14 12:15	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/07/14 12:15	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		02/07/14 12:15	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		02/07/14 12:15	56-23-5	
Chloroethane	ND ug/L		1.0	1		02/07/14 12:15	75-00-3	
Chloroform	ND ug/L		1.0	1		02/07/14 12:15	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		02/07/14 12:15	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		02/07/14 12:15	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		02/07/14 12:15	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		02/07/14 12:15	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		02/07/14 12:15	100-41-4	
Methylene chloride	ND ug/L		1.0	1		02/07/14 12:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		02/07/14 12:15	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		02/07/14 12:15	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		02/07/14 12:15	127-18-4	
Toluene	ND ug/L		1.0	1		02/07/14 12:15	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		02/07/14 12:15	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		02/07/14 12:15	79-00-5	
Trichloroethene	ND ug/L		1.0	1		02/07/14 12:15	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		02/07/14 12:15	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		02/07/14 12:15	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	1		02/07/14 12:15	460-00-4	
Toluene-d8 (S)	104 %		80-120	1		02/07/14 12:15	2037-26-5	
1,2-Dichloroethane-d4 (S)	100 %		80-120	1		02/07/14 12:15	17060-07-0	
Preservation pH	6.0		1.0	1		02/07/14 12:15		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-212R1

Pace Project No.: 60162554

QC Batch: MERP/8130

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60162554001

METHOD BLANK: 1329221

Matrix: Water

Associated Lab Samples: 60162554001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/13/14 09:31	

LABORATORY CONTROL SAMPLE: 1329222

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1329223 1329224

Parameter	Units	60161465018		MS		MSD		MS		MSD		% Rec		Max		Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD				
Mercury	ug/L	8.2	5	5	5	13.5	13.4	106	105	70-130	0	20				

MATRIX SPIKE SAMPLE: 1329260

Parameter	Units	60162743001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.1	83	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-212R1

Pace Project No.: 60162554

QC Batch:	MERP/8123	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60162554001		

METHOD BLANK: 1328450 Matrix: Water

Associated Lab Samples: 60162554001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/11/14 14:44	

LABORATORY CONTROL SAMPLE: 1328451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.1	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1328452 1328453

Parameter	Units	60162421001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Mercury, Dissolved	ug/L	ND	150	150	132	97.5	87	64	70-130	30	20	M1,R1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-212R1

Pace Project No.: 60162554

QC Batch: MPRP/26111 Analysis Method: EPA 200.7
 QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
 Associated Lab Samples: 60162554001

METHOD BLANK: 1328105 Matrix: Water
 Associated Lab Samples: 60162554001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	02/10/14 15:26	
Antimony	ug/L	ND	10.0	02/10/14 15:26	
Arsenic	ug/L	ND	10.0	02/10/14 15:26	
Beryllium	ug/L	ND	1.0	02/10/14 15:26	
Cadmium	ug/L	ND	5.0	02/10/14 15:26	
Chromium	ug/L	ND	5.0	02/10/14 15:26	
Cobalt	ug/L	ND	5.0	02/10/14 15:26	
Copper	ug/L	ND	10.0	02/10/14 15:26	
Iron	ug/L	ND	50.0	02/10/14 15:26	
Lead	ug/L	ND	5.0	02/10/14 15:26	
Nickel	ug/L	ND	5.0	02/10/14 15:26	
Selenium	ug/L	ND	15.0	02/10/14 15:26	
Silver	ug/L	ND	7.0	02/10/14 15:26	
Thallium	ug/L	ND	20.0	02/10/14 15:26	
Zinc	ug/L	ND	50.0	02/10/14 15:26	

LABORATORY CONTROL SAMPLE: 1328106

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	968	97	85-115	
Beryllium	ug/L	1000	1040	104	85-115	
Cadmium	ug/L	1000	1010	101	85-115	
Chromium	ug/L	1000	1060	106	85-115	
Cobalt	ug/L	1000	1030	103	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	1060	106	85-115	
Selenium	ug/L	1000	1030	103	85-115	
Silver	ug/L	500	522	104	85-115	
Thallium	ug/L	1000	1050	105	85-115	
Zinc	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1328107 1328108

Parameter	Units	60162554001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum	ug/L	12800	50000	50000	69500	71700	113	118	70-130	3	8		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-212R1

Pace Project No.: 60162554

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1328107												1328108											
Parameter	Units	60162554001		MS	MSD	MS		MSD		% Rec		Max		Qual									
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD											
Antimony	ug/L	67.9	5000	5000	5000	5400	5480	107	108	70-130	1	7											
Arsenic	ug/L	814	5000	5000	5000	6420	6440	112	113	70-130	0	10											
Beryllium	ug/L	ND	5000	5000	5000	4920	5030	98	101	70-130	2	7											
Cadmium	ug/L	ND	5000	5000	5000	5300	5380	106	107	70-130	1	10											
Chromium	ug/L	257	5000	5000	5000	5280	5390	101	103	70-130	2	10											
Cobalt	ug/L	60.6	5000	5000	5000	4850	4930	96	97	70-130	2	6											
Copper	ug/L	ND	5000	5000	5000	5340	5420	106	108	70-130	1	11											
Iron	ug/L	896000	50000	50000	50000	1020000	1010000	251	236	70-130	1	10	M1										
Lead	ug/L	163	5000	5000	5000	4690	4780	91	92	70-130	2	10											
Nickel	ug/L	130	5000	5000	5000	4960	5060	97	99	70-130	2	10											
Selenium	ug/L	ND	5000	5000	5000	6240	6340	124	126	70-130	2	10											
Silver	ug/L	ND	2500	2500	2500	2710	2760	108	110	70-130	2	10											
Thallium	ug/L	ND	5000	5000	5000	4110	4170	82	83	70-130	1	6											
Zinc	ug/L	8830	5000	5000	5000	14000	14100	103	105	70-130	1	11											

MATRIX SPIKE SAMPLE: 1328109											
Parameter	Units	60162576002		Spike	MS	MS	% Rec		Qualifiers		
		Result	Conc.	Conc.	Result	% Rec	Limits				
Aluminum	ug/L		1730	10000	12000	102	70-130				
Antimony	ug/L		ND	1000	1020	101	70-130				
Arsenic	ug/L		ND	1000	1050	104	70-130				
Beryllium	ug/L		ND	1000	1030	103	70-130				
Cadmium	ug/L		ND	1000	1010	101	70-130				
Chromium	ug/L		ND	1000	1030	103	70-130				
Cobalt	ug/L		ND	1000	1030	103	70-130				
Copper	ug/L		ND	1000	1020	101	70-130				
Iron	ug/L		474	10000	10500	100	70-130				
Lead	ug/L		64.9	1000	1070	100	70-130				
Nickel	ug/L		ND	1000	1040	104	70-130				
Selenium	ug/L		ND	1000	1150	114	70-130				
Silver	ug/L		ND	500	495	99	70-130				
Thallium	ug/L		ND	1000	956	96	70-130				
Zinc	ug/L		336	1000	1360	102	70-130				

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-212R1
Pace Project No.: 60162554

QC Batch: MPRP/26102 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60162554001

METHOD BLANK: 1327682 Matrix: Water
Associated Lab Samples: 60162554001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	02/10/14 10:08	
Antimony, Dissolved	ug/L	ND	10.0	02/10/14 10:08	
Arsenic, Dissolved	ug/L	ND	10.0	02/10/14 10:08	
Beryllium, Dissolved	ug/L	ND	1.0	02/10/14 10:08	
Cadmium, Dissolved	ug/L	ND	5.0	02/10/14 10:08	
Chromium, Dissolved	ug/L	ND	5.0	02/10/14 10:08	
Cobalt, Dissolved	ug/L	ND	5.0	02/10/14 10:08	
Copper, Dissolved	ug/L	ND	10.0	02/10/14 10:08	
Iron, Dissolved	ug/L	ND	50.0	02/10/14 10:08	
Lead, Dissolved	ug/L	ND	5.0	02/10/14 10:08	
Nickel, Dissolved	ug/L	ND	5.0	02/10/14 10:08	
Selenium, Dissolved	ug/L	ND	15.0	02/10/14 10:08	
Silver, Dissolved	ug/L	ND	7.0	02/10/14 10:08	
Thallium, Dissolved	ug/L	ND	20.0	02/10/14 10:08	
Zinc, Dissolved	ug/L	ND	50.0	02/10/14 10:08	

LABORATORY CONTROL SAMPLE: 1327683

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	1020	102	85-115	
Arsenic, Dissolved	ug/L	1000	946	95	85-115	
Beryllium, Dissolved	ug/L	1000	1030	103	85-115	
Cadmium, Dissolved	ug/L	1000	986	99	85-115	
Chromium, Dissolved	ug/L	1000	1040	104	85-115	
Cobalt, Dissolved	ug/L	1000	1010	101	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	1040	104	85-115	
Nickel, Dissolved	ug/L	1000	1050	105	85-115	
Selenium, Dissolved	ug/L	1000	1010	101	85-115	
Silver, Dissolved	ug/L	500	511	102	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	991	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1327684 1327685

Parameter	Units	60162554001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Aluminum, Dissolved	ug/L	3380	50000	50000	55800	55700	105	105	70-130	0	8		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-212R1

Pace Project No.: 60162554

Parameter	Units	60162554001		1327684		1327685		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Antimony, Dissolved	ug/L	66.1	5000	5000	5400	5400	107	107	70-130	0	7			
Arsenic, Dissolved	ug/L	780	5000	5000	5980	5970	104	104	70-130	0	10			
Beryllium, Dissolved	ug/L	ND	5000	5000	4950	4920	99	98	70-130	1	7			
Cadmium, Dissolved	ug/L	ND	5000	5000	5220	5160	104	103	70-130	1	10			
Chromium, Dissolved	ug/L	238	5000	5000	5370	5380	103	103	70-130	0	10			
Cobalt, Dissolved	ug/L	50.1	5000	5000	4820	4750	95	94	70-130	1	6			
Copper, Dissolved	ug/L	ND	5000	5000	5460	5500	109	110	70-130	1	11			
Iron, Dissolved	ug/L	796000	50000	50000	786000	804000	-21	15	70-130	2	10	M1		
Lead, Dissolved	ug/L	110	5000	5000	4740	4660	93	91	70-130	2	10			
Nickel, Dissolved	ug/L	118	5000	5000	4980	4940	97	96	70-130	1	10			
Selenium, Dissolved	ug/L	ND	5000	5000	6000	6050	119	120	70-130	1	10			
Silver, Dissolved	ug/L	ND	2500	2500	2760	2760	110	110	70-130	0	10			
Thallium, Dissolved	ug/L	ND	5000	5000	4110	4060	82	81	70-130	1	6			
Zinc, Dissolved	ug/L	8740	5000	5000	12700	12800	79	82	70-130	1	11			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-212R1

Pace Project No.: 60162554

QC Batch: MSV/59306 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60162554001, 60162554002

METHOD BLANK: 1327432 Matrix: Water

Associated Lab Samples: 60162554001, 60162554002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/07/14 10:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/07/14 10:30	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	02/07/14 10:30	
1,2-Dichloroethane	ug/L	ND	1.0	02/07/14 10:30	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/07/14 10:30	
2-Butanone (MEK)	ug/L	ND	10.0	02/07/14 10:30	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/07/14 10:30	N2
Acetone	ug/L	ND	10.0	02/07/14 10:30	N2
Benzene	ug/L	ND	1.0	02/07/14 10:30	
Bromodichloromethane	ug/L	ND	1.0	02/07/14 10:30	
Bromoform	ug/L	ND	1.0	02/07/14 10:30	
Bromomethane	ug/L	ND	5.0	02/07/14 10:30	
Carbon tetrachloride	ug/L	ND	1.0	02/07/14 10:30	
Chloroethane	ug/L	ND	1.0	02/07/14 10:30	
Chloroform	ug/L	ND	1.0	02/07/14 10:30	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/07/14 10:30	N2
Ethylbenzene	ug/L	ND	1.0	02/07/14 10:30	
Methylene chloride	ug/L	ND	1.0	02/07/14 10:30	
Tetrachloroethene	ug/L	ND	1.0	02/07/14 10:30	
Toluene	ug/L	ND	1.0	02/07/14 10:30	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/07/14 10:30	
Trichloroethene	ug/L	ND	1.0	02/07/14 10:30	
Vinyl chloride	ug/L	ND	1.0	02/07/14 10:30	
Xylene (Total)	ug/L	ND	3.0	02/07/14 10:30	N2
1,2-Dichloroethane-d4 (S)	%	100	80-120	02/07/14 10:30	
4-Bromofluorobenzene (S)	%	99	80-120	02/07/14 10:30	
Toluene-d8 (S)	%	105	80-120	02/07/14 10:30	

LABORATORY CONTROL SAMPLE: 1327433

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.9	94	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	17.7	89	59-138	N2
1,1,2-Trichloroethane	ug/L	20	18.6	93	69-127	
1,2-Dichloroethane	ug/L	20	18.3	92	71-129	
1,4-Dichlorobenzene	ug/L	20	19.2	96	68-124	
2-Butanone (MEK)	ug/L	100	75.6	76	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	77.1	77	61-120	N2
Acetone	ug/L	100	84.9	85	40-160	N2
Benzene	ug/L	20	18.7	94	73-129	
Bromodichloromethane	ug/L	20	18.1	91	63-129	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-212R1

Pace Project No.: 60162554

LABORATORY CONTROL SAMPLE: 1327433

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	17.8	89	52-123	
Bromomethane	ug/L	20	15.7	78	10-160	
Carbon tetrachloride	ug/L	20	20.1	100	70-140	
Chloroethane	ug/L	20	19.8	99	42-160	
Chloroform	ug/L	20	19.1	95	60-120	
cis-1,2-Dichloroethene	ug/L	20	18.1	90	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	20.1	101	64-143	
Toluene	ug/L	20	18.7	93	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.4	92	67-149	
Trichloroethene	ug/L	20	18.5	93	71-130	
Vinyl chloride	ug/L	20	16.1	81	41-160	
Xylene (Total)	ug/L	60	56.8	95	67-130	N2
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1327434

Parameter	Units	60162421001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4320	108	52-160	
1,1,2,2-Tetrachloroethane	ug/L	513	4000	3550	76	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4030	101	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3900	97	49-155	
1,4-Dichlorobenzene	ug/L	2130	4000	5980	96	18-147	
2-Butanone (MEK)	ug/L	70600	20000	102000	158	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	3620	20000	21700	91	40-160	N2
Acetone	ug/L	114000	20000	116000	8	40-160	N2
Benzene	ug/L	ND	4000	3890	96	37-151	
Bromodichloromethane	ug/L	ND	4000	3860	97	35-155	
Bromoform	ug/L	ND	4000	3500	87	45-133	
Bromomethane	ug/L	ND	4000	2700	67	10-160	
Carbon tetrachloride	ug/L	ND	4000	4670	117	70-140	
Chloroethane	ug/L	ND	4000	3830	96	14-160	
Chloroform	ug/L	ND	4000	4200	105	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3820	95	19-160	N2
Ethylbenzene	ug/L	541	4000	4520	100	37-154	
Methylene chloride	ug/L	ND	4000	3610	90	15-156	
Tetrachloroethene	ug/L	ND	4000	3950	99	64-148	
Toluene	ug/L	ND	4000	4100	98	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	3980	100	54-156	
Trichloroethene	ug/L	ND	4000	4070	102	71-157	
Vinyl chloride	ug/L	ND	4000	3330	83	10-160	
Xylene (Total)	ug/L	2130	12000	14100	100	12-153	N2
1,2-Dichloroethane-d4 (S)	%				107	80-120	
4-Bromofluorobenzene (S)	%				91	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-212R1

Pace Project No.: 60162554

MATRIX SPIKE SAMPLE:		1327434					
Parameter	Units	60162421001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S) Preservation pH	%	6.0	6.0	6.0	102	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-212R1

Pace Project No.: 60162554

QC Batch:	MSV/59367	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60162554001		

METHOD BLANK: 1328781 Matrix: Water

Associated Lab Samples: 60162554001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acetone	ug/L	ND	10.0	02/11/14 15:08	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	02/11/14 15:08	
4-Bromofluorobenzene (S)	%	101	80-120	02/11/14 15:08	
Toluene-d8 (S)	%	101	80-120	02/11/14 15:08	

LABORATORY CONTROL SAMPLE: 1328782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	100	80.7	81	40-160	N2
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1328783

Parameter	Units	60162662001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%					96	80-120
4-Bromofluorobenzene (S)	%					97	80-120
Toluene-d8 (S)	%					99	80-120

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-212R1

Pace Project No.: 60162554

QC Batch:	OEXT/42650	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60162554001		

METHOD BLANK: 1328026 Matrix: Water

Associated Lab Samples: 60162554001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/11/14 08:57	
2,4,6-Trichlorophenol	ug/L	ND	5.0	02/11/14 08:57	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	02/11/14 08:57	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/11/14 08:57	
Hexachlorocyclopentadiene	ug/L	ND	5.0	02/11/14 08:57	
Hexachloroethane	ug/L	ND	5.0	02/11/14 08:57	
Naphthalene	ug/L	ND	5.0	02/11/14 08:57	
Nitrobenzene	ug/L	ND	5.0	02/11/14 08:57	
Pentachlorophenol	ug/L	ND	5.0	02/11/14 08:57	
Phenol	ug/L	ND	5.0	02/11/14 08:57	
2,4,6-Tribromophenol (S)	%	87	39-120	02/11/14 08:57	
2-Fluorobiphenyl (S)	%	87	39-120	02/11/14 08:57	
2-Fluorophenol (S)	%	52	17-120	02/11/14 08:57	
Nitrobenzene-d5 (S)	%	85	33-120	02/11/14 08:57	
Phenol-d6 (S)	%	34	11-120	02/11/14 08:57	
Terphenyl-d14 (S)	%	91	45-120	02/11/14 08:57	

LABORATORY CONTROL SAMPLE: 1328027

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	43.7	87	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	50.0	100	40-133	
Hexachloro-1,3-butadiene	ug/L	50	35.0	70	44-116	
Hexachlorocyclopentadiene	ug/L	100	60.1	60	24-120	
Hexachloroethane	ug/L	50	35.9	72	43-113	
Naphthalene	ug/L	50	40.0	80	48-120	
Nitrobenzene	ug/L	50	41.4	83	48-120	
Pentachlorophenol	ug/L	50	43.7	87	47-120	
Phenol	ug/L	50	17.5	35	16-112	
2,4,6-Tribromophenol (S)	%			96	39-120	
2-Fluorobiphenyl (S)	%			83	39-120	
2-Fluorophenol (S)	%			51	17-120	
Nitrobenzene-d5 (S)	%			85	33-120	
Phenol-d6 (S)	%			34	11-120	
Terphenyl-d14 (S)	%			88	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-212R1

Pace Project No.: 60162554

MATRIX SPIKE SAMPLE:		1328028					
Parameter	Units	60162461001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3890	78	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4670	93	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	5270	105	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3740	75	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	6870	69	11-120	
Hexachloroethane	ug/L	ND	5000	3740	75	40-113	
Naphthalene	ug/L	1030	5000	4800	75	45-120	
Nitrobenzene	ug/L	ND	5000	6360	127	38-120	M1
Pentachlorophenol	ug/L	ND	5000	5210	104	43-135	
Phenol	ug/L	12200	5000	14800	51	13-112	
2,4,6-Tribromophenol (S)	%				98	39-120	
2-Fluorobiphenyl (S)	%				84	39-120	
2-Fluorophenol (S)	%				50	17-120	
Nitrobenzene-d5 (S)	%				139	33-120	S0
Phenol-d6 (S)	%				36	11-120	
Terphenyl-d14 (S)	%				87	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-212R1

Pace Project No.: 60162554

QC Batch:	WET/46032	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60162554001		

METHOD BLANK: 1327624 Matrix: Water

Associated Lab Samples: 60162554001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/07/14 15:51	

LABORATORY CONTROL SAMPLE: 1327625

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.9	100	78-114	

MATRIX SPIKE SAMPLE: 1327626

Parameter	Units	60162461001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	234	160	400	103	78-114	

SAMPLE DUPLICATE: 1327627

Parameter	Units	60162274002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	14.3	14.0	2	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-212R1

Pace Project No.: 60162554

QC Batch:	WET/46119	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60162554001		

METHOD BLANK: 1329416 Matrix: Water
Associated Lab Samples: 60162554001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	02/13/14 09:11	

LABORATORY CONTROL SAMPLE: 1329417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	21.7	108	64-132	

MATRIX SPIKE SAMPLE: 1329418

Parameter	Units	60162662001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	80	61.6	76	64-132	

SAMPLE DUPLICATE: 1329419

Parameter	Units	60162664001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	11.6	15.6	29	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-212R1

Pace Project No.: 60162554

QC Batch:	WET/46027	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	60162554001		

METHOD BLANK: 1327604 Matrix: Water

Associated Lab Samples: 60162554001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	02/07/14 14:24	

SAMPLE DUPLICATE: 1327605

Parameter	Units	60162564001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2000	2160	8	10	

SAMPLE DUPLICATE: 1327606

Parameter	Units	60162545003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	162	156	4	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-212R1

Pace Project No.: 60162554

QC Batch: WET/46046 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60162554001

SAMPLE DUPLICATE: 1327754

Parameter	Units	60162559001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-212R1

Pace Project No.: 60162554

QC Batch: WET/46034

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60162554001

METHOD BLANK: 1327632

Matrix: Water

Associated Lab Samples: 60162554001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	02/12/14 15:26	

LABORATORY CONTROL SAMPLE: 1327633

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	172	87	85-115	

SAMPLE DUPLICATE: 1327635

Parameter	Units	60162552001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	153	121	24	17	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-212R1

Pace Project No.: 60162554

QC Batch:	WETA/28151	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60162554001		

METHOD BLANK: 1328491 Matrix: Water
Associated Lab Samples: 60162554001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/11/14 14:33	

LABORATORY CONTROL SAMPLE: 1328492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.2	108	90-110	

MATRIX SPIKE SAMPLE: 1328493

Parameter	Units	60162544002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.9	95	90-110	

MATRIX SPIKE SAMPLE: 1328494

Parameter	Units	60162551001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.30	2	2.2	93	90-110	

SAMPLE DUPLICATE: 1328495

Parameter	Units	60162553002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	.04J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-212R1

Pace Project No.: 60162554

QC Batch:	WETA/28146	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60162554001		

METHOD BLANK: 1328434 Matrix: Water
Associated Lab Samples: 60162554001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/12/14 11:59	

LABORATORY CONTROL SAMPLE: 1328435

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

MATRIX SPIKE SAMPLE: 1328436

Parameter	Units	60162500001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	23.4	50	73.3	100	90-110	

SAMPLE DUPLICATE: 1328437

Parameter	Units	60162253001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	13.1	17.6	30	25	D6

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QUALIFIERS

Project: BRIDGETON LF 316-212R1

Pace Project No.: 60162554

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.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-212R1

Pace Project No.: 60162554

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60162554001	316-212R1	EPA 200.7	MPRP/26111	EPA 200.7	ICP/19961
60162554001	316-212R1	EPA 200.7	MPRP/26102	EPA 200.7	ICP/19955
60162554001	316-212R1	EPA 245.1	MERP/8130	EPA 245.1	MERC/8084
60162554001	316-212R1	EPA 245.1	MERP/8123	EPA 245.1	MERC/8079
60162554001	316-212R1	EPA 625	OEXT/42650	EPA 625	MSSV/13576
60162554001	316-212R1	EPA 624 Low	MSV/59306		
60162554001	316-212R1	EPA 624 Low	MSV/59367		
60162554002	TRIP BLANK	EPA 624 Low	MSV/59306		
60162554001	316-212R1	EPA 1664A	WET/46032		
60162554001	316-212R1	EPA 1664A	WET/46119		
60162554001	316-212R1	SM 2540D	WET/46027		
60162554001	316-212R1	SM 4500-H+B	WET/46046		
60162554001	316-212R1	SM 5210B	WET/46034	SM 5210B	WET/46143
60162554001	316-212R1	EPA 350.1	WETA/28151		
60162554001	316-212R1	EPA 410.4	WETA/28146		

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Sample Condition Upon Receipt

WO# : 60162554



Client Name: Barr Eng

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 MZPLC

Thermometer Used: T-238 / T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 3.6

Temperature should be above freezing to 6°C

Date and initials of person examining contents: 2/7/14 BA

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOD, pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Includes date/time/ID/analyses Matrix: <u>WT</u>		15.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>HNO3 Initial 6.0 final 4.5, added 2.5 mL</u> <u>H2SO4 Initial 5.0 final 1.0, added 2.0 mL</u>
All containers needing preservation are found to be in compliance with EPA recommendation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: <u>VOA</u> , coliform, TOC, <u>O&G</u> , WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>BA</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative <u>HNO3 12513</u> <u>H2SO4 12514</u>
Pace Trip Blank lot # (if purchased): <u>11113-3BEZ</u>		16. <u>2 of 5</u>
Headspace in VOA vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	17. List State: <u>MO</u>
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 2/10/14



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: 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

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				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analyses Test Y/N	Requested Analysis Filtered (Y/N)														Residual Chlorine (Y/N)																		
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2SO3	Methanol	Other	COD EPA 410	pH SM 4500H+B		LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	OIG EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HEM-SGT 1664	BOD SM 5210B																								
				DATE	TIME	DATE	TIME																																														
1	316-212R 2BP24 1BP34 1BP3N ⁴ s 1BP35 ^{1,0}	OT	G	2-6-14	1015	2-6-14	10:45 AM	14	10	4	1	0																																						3AA35 2AA44 5D694 WJ			
2	TRIP BLANK							2	2																																												2D694 WJ
3																																																					
4																																																					
5																																																					
6																																																					
7																																																					METALS LIST total & LF Dis:
8																																																					Al, Sh, As, Be, Cd, Cr,
9																																																					Co, Cu, Fe, Pb, Ni, Se, Ag, Tl, Zn
10																																																					and Mercury
11																																																					
12																																																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	Julie Crook / Engin	2/6/14	11025	Handwritten Signature	2/6/14	11025	-			
SITE ADDRESS: BRIDGETON LF				Blondin / IPASIKS	2/7/14	0115	3.6	Y	Y	Y
13570 ST. CHARLES ROCK RD										
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER: Kyle Kramer		DATE Signed: 2-6-14	
SIGNATURE of SAMPLER: Kyle Kramer			
TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)

February 17, 2014

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

RE: Project: BRIDGETON LF SW1-020914
Pace Project No.: 60162662

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 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 SW1-020914

Pace Project No.: 60162662

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60162662001	SW1-020914	Water	02/09/14 16:35	02/10/14 14:30
60162662002	TRIP BLANK	Water	02/09/14 16:35	02/10/14 14:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60162662001	SW1-020914	EPA 200.7	TJT	15
		EPA 200.7	TJT	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	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
		60162662002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

Sample: SW1-020914		Lab ID: 60162662001	Collected: 02/09/14 16:35	Received: 02/10/14 14:30	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	450 ug/L		75.0	1	02/11/14 15:05	02/12/14 11:09	7429-90-5	
Antimony	ND ug/L		10.0	1	02/11/14 15:05	02/12/14 11:09	7440-36-0	
Arsenic	41.1 ug/L		10.0	1	02/11/14 15:05	02/12/14 11:09	7440-38-2	
Beryllium	ND ug/L		1.0	1	02/11/14 15:05	02/12/14 11:09	7440-41-7	
Cadmium	ND ug/L		5.0	1	02/11/14 15:05	02/12/14 11:09	7440-43-9	
Chromium	9.1 ug/L		5.0	1	02/11/14 15:05	02/12/14 11:09	7440-47-3	
Cobalt	11.5 ug/L		5.0	1	02/11/14 15:05	02/12/14 11:09	7440-48-4	
Copper	ND ug/L		10.0	1	02/11/14 15:05	02/12/14 11:09	7440-50-8	
Iron	2290 ug/L		50.0	1	02/11/14 15:05	02/12/14 11:09	7439-89-6	
Lead	ND ug/L		5.0	1	02/11/14 15:05	02/12/14 11:09	7439-92-1	
Nickel	20.7 ug/L		5.0	1	02/11/14 15:05	02/12/14 11:09	7440-02-0	
Selenium	ND ug/L		15.0	1	02/11/14 15:05	02/12/14 11:09	7782-49-2	
Silver	ND ug/L		7.0	1	02/11/14 15:05	02/12/14 11:09	7440-22-4	
Thallium	ND ug/L		20.0	1	02/11/14 15:05	02/12/14 11:09	7440-28-0	
Zinc	199 ug/L		50.0	1	02/11/14 15:05	02/12/14 11:09	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	98.4 ug/L		75.0	1	02/11/14 15:05	02/12/14 11:58	7429-90-5	
Antimony, Dissolved	ND ug/L		10.0	1	02/11/14 15:05	02/12/14 11:58	7440-36-0	
Arsenic, Dissolved	39.3 ug/L		10.0	1	02/11/14 15:05	02/12/14 11:58	7440-38-2	
Beryllium, Dissolved	ND ug/L		1.0	1	02/11/14 15:05	02/12/14 11:58	7440-41-7	
Cadmium, Dissolved	ND ug/L		5.0	1	02/11/14 15:05	02/12/14 11:58	7440-43-9	
Chromium, Dissolved	8.7 ug/L		5.0	1	02/11/14 15:05	02/12/14 11:58	7440-47-3	
Cobalt, Dissolved	11.3 ug/L		5.0	1	02/11/14 15:05	02/12/14 11:58	7440-48-4	
Copper, Dissolved	ND ug/L		10.0	1	02/11/14 15:05	02/12/14 11:58	7440-50-8	
Iron, Dissolved	19300 ug/L		50.0	1	02/11/14 15:05	02/12/14 11:58	7439-89-6	
Lead, Dissolved	ND ug/L		5.0	1	02/11/14 15:05	02/12/14 11:58	7439-92-1	
Nickel, Dissolved	17.9 ug/L		5.0	1	02/11/14 15:05	02/12/14 11:58	7440-02-0	
Selenium, Dissolved	ND ug/L		15.0	1	02/11/14 15:05	02/12/14 11:58	7782-49-2	
Silver, Dissolved	ND ug/L		7.0	1	02/11/14 15:05	02/12/14 11:58	7440-22-4	
Thallium, Dissolved	ND ug/L		20.0	1	02/11/14 15:05	02/12/14 11:58	7440-28-0	
Zinc, Dissolved	188 ug/L		50.0	1	02/11/14 15:05	02/12/14 11:58	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND ug/L		0.20	1	02/12/14 16:00	02/13/14 10:01	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		0.20	1	02/12/14 16:00	02/13/14 10:41	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		250	1	02/11/14 00:00	02/12/14 10:26	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		50.0	1	02/11/14 00:00	02/12/14 10:26	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		50.0	1	02/11/14 00:00	02/12/14 10:26	77-47-4	
Hexachloroethane	ND ug/L		50.0	1	02/11/14 00:00	02/12/14 10:26	67-72-1	
Naphthalene	ND ug/L		50.0	1	02/11/14 00:00	02/12/14 10:26	91-20-3	
Nitrobenzene	ND ug/L		50.0	1	02/11/14 00:00	02/12/14 10:26	98-95-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

Sample: SW1-020914	Lab ID: 60162662001	Collected: 02/09/14 16:35	Received: 02/10/14 14:30	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		50.0	1	02/11/14 00:00	02/12/14 10:26	87-86-5	
Phenol	329 ug/L		50.0	1	02/11/14 00:00	02/12/14 10:26	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		50.0	1	02/11/14 00:00	02/12/14 10:26	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		50.0	1	02/11/14 00:00	02/12/14 10:26	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	90 %		33-120	1	02/11/14 00:00	02/12/14 10:26	4165-60-0	
2-Fluorobiphenyl (S)	78 %		39-120	1	02/11/14 00:00	02/12/14 10:26	321-60-8	
Terphenyl-d14 (S)	83 %		45-120	1	02/11/14 00:00	02/12/14 10:26	1718-51-0	
Phenol-d6 (S)	28 %		11-120	1	02/11/14 00:00	02/12/14 10:26	13127-88-3	
2-Fluorophenol (S)	41 %		17-120	1	02/11/14 00:00	02/12/14 10:26	367-12-4	
2,4,6-Tribromophenol (S)	103 %		39-120	1	02/11/14 00:00	02/12/14 10:26	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	5190 ug/L		2000	200		02/13/14 18:24	67-64-1	N2
Benzene	139 ug/L		1.0	1		02/11/14 17:44	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		02/11/14 17:44	75-27-4	
Bromoform	ND ug/L		1.0	1		02/11/14 17:44	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/11/14 17:44	74-83-9	
2-Butanone (MEK)	5370 ug/L		2000	200		02/13/14 18:24	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		02/11/14 17:44	56-23-5	
Chloroethane	ND ug/L		1.0	1		02/11/14 17:44	75-00-3	
Chloroform	ND ug/L		1.0	1		02/11/14 17:44	67-66-3	
1,4-Dichlorobenzene	34.1 ug/L		1.0	1		02/11/14 17:44	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		02/11/14 17:44	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		02/11/14 17:44	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		02/11/14 17:44	156-60-5	
Ethylbenzene	19.3 ug/L		1.0	1		02/11/14 17:44	100-41-4	
Methylene chloride	ND ug/L		1.0	1		02/11/14 17:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	137 ug/L		10.0	1		02/11/14 17:44	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		02/11/14 17:44	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		02/11/14 17:44	127-18-4	
Toluene	31.2 ug/L		1.0	1		02/11/14 17:44	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		02/11/14 17:44	71-55-6	
1,1,2-Trichloroethane	18.6 ug/L		1.0	1		02/11/14 17:44	79-00-5	
Trichloroethene	ND ug/L		1.0	1		02/11/14 17:44	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		02/11/14 17:44	75-01-4	
Xylene (Total)	64.2 ug/L		3.0	1		02/11/14 17:44	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	97 %		80-120	1		02/11/14 17:44	460-00-4	
Toluene-d8 (S)	101 %		80-120	1		02/11/14 17:44	2037-26-5	
1,2-Dichloroethane-d4 (S)	101 %		80-120	1		02/11/14 17:44	17060-07-0	
Preservation pH	6.0		1.0	1		02/11/14 17:44		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	ND mg/L		5.0	1		02/12/14 09:53		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

Sample: SW1-020914		Lab ID: 60162662001	Collected: 02/09/14 16:35	Received: 02/10/14 14:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	ND	mg/L	5.0	1		02/13/14 09:12		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	12.0	mg/L	5.0	1		02/11/14 14:26		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	6.0	Std. Units	0.10	1		02/11/14 14:13		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	1100	mg/L	2.0	1	02/10/14 17:18	02/15/14 12:34		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	21.5	mg/L	2.0	20		02/11/14 15:01	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	2520	mg/L	500	50		02/17/14 11:40		

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ANALYTICAL RESULTS

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

Sample: TRIP BLANK		Lab ID: 60162662002	Collected: 02/09/14 16:35	Received: 02/10/14 14:30	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		02/14/14 11:59	67-64-1	N2
Benzene	ND ug/L		1.0	1		02/14/14 11:59	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		02/14/14 11:59	75-27-4	
Bromoform	ND ug/L		1.0	1		02/14/14 11:59	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/14/14 11:59	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		02/14/14 11:59	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		02/14/14 11:59	56-23-5	
Chloroethane	ND ug/L		1.0	1		02/14/14 11:59	75-00-3	
Chloroform	ND ug/L		1.0	1		02/14/14 11:59	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		02/14/14 11:59	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		02/14/14 11:59	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		02/14/14 11:59	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		02/14/14 11:59	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		02/14/14 11:59	100-41-4	
Methylene chloride	ND ug/L		1.0	1		02/14/14 11:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		02/14/14 11:59	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		02/14/14 11:59	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		02/14/14 11:59	127-18-4	
Toluene	ND ug/L		1.0	1		02/14/14 11:59	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		02/14/14 11:59	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		02/14/14 11:59	79-00-5	
Trichloroethene	ND ug/L		1.0	1		02/14/14 11:59	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		02/14/14 11:59	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		02/14/14 11:59	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	99 %		80-120	1		02/14/14 11:59	460-00-4	
Toluene-d8 (S)	101 %		80-120	1		02/14/14 11:59	2037-26-5	
1,2-Dichloroethane-d4 (S)	95 %		80-120	1		02/14/14 11:59	17060-07-0	
Preservation pH	6.0		1.0	1		02/14/14 11:59		

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QUALITY CONTROL DATA

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

QC Batch: MERP/8130 Analysis Method: EPA 245.1
 QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
 Associated Lab Samples: 60162662001

METHOD BLANK: 1329221 Matrix: Water
 Associated Lab Samples: 60162662001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/13/14 09:31	

LABORATORY CONTROL SAMPLE: 1329222

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1329223 1329224

Parameter	Units	60161465018		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Mercury	ug/L	8.2	5	5	5	13.5	13.4	106	105	70-130	0	20			

MATRIX SPIKE SAMPLE: 1329260

Parameter	Units	60162743001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.1	83	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

QC Batch: MERP/8128 Analysis Method: EPA 245.1
 QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury - Dissolved
 Associated Lab Samples: 60162662001

METHOD BLANK: 1329206 Matrix: Water
 Associated Lab Samples: 60162662001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/13/14 10:36	

LABORATORY CONTROL SAMPLE: 1329207

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: 1329208 1329209

Parameter	Units	60162664001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Mercury, Dissolved	ug/L	ND	150	150	98.1	98.7	65	66	70-130	1	20	M1

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

QC Batch: MPRP/26124

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Associated Lab Samples: 60162662001

METHOD BLANK: 1328692

Matrix: Water

Associated Lab Samples: 60162662001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	02/12/14 11:06	
Antimony	ug/L	ND	10.0	02/12/14 11:06	
Arsenic	ug/L	ND	10.0	02/12/14 11:06	
Beryllium	ug/L	ND	1.0	02/12/14 11:06	
Cadmium	ug/L	ND	5.0	02/12/14 11:06	
Chromium	ug/L	ND	5.0	02/12/14 11:06	
Cobalt	ug/L	ND	5.0	02/12/14 11:06	
Copper	ug/L	ND	10.0	02/12/14 11:06	
Iron	ug/L	ND	50.0	02/12/14 11:06	
Lead	ug/L	ND	5.0	02/12/14 11:06	
Nickel	ug/L	ND	5.0	02/12/14 11:06	
Selenium	ug/L	ND	15.0	02/12/14 11:06	
Silver	ug/L	ND	7.0	02/12/14 11:06	
Thallium	ug/L	ND	20.0	02/12/14 11:06	
Zinc	ug/L	ND	50.0	02/12/14 11:06	

LABORATORY CONTROL SAMPLE: 1328693

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10000	100	85-115	
Antimony	ug/L	1000	1020	102	85-115	
Arsenic	ug/L	1000	968	97	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	999	100	85-115	
Chromium	ug/L	1000	996	100	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	1020	102	85-115	
Iron	ug/L	10000	9970	100	85-115	
Lead	ug/L	1000	1050	105	85-115	
Nickel	ug/L	1000	1040	104	85-115	
Selenium	ug/L	1000	1010	101	85-115	
Silver	ug/L	500	511	102	85-115	
Thallium	ug/L	1000	1040	104	85-115	
Zinc	ug/L	1000	991	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1328694 1328695

Parameter	Units	60162662001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum	ug/L	450	10000	10000	10600	10700	102	102	70-130	0	8		

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QUALITY CONTROL DATA

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

Parameter	Units	60162662001		1328694		1328695		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Antimony	ug/L	ND	1000	1000	1030	1040	103	104	70-130	1	7			
Arsenic	ug/L	41.1	1000	1000	1040	1060	100	102	70-130	2	10			
Beryllium	ug/L	ND	1000	1000	1010	1000	101	100	70-130	0	7			
Cadmium	ug/L	ND	1000	1000	1020	1030	101	103	70-130	1	10			
Chromium	ug/L	9.1	1000	1000	976	984	97	97	70-130	1	10			
Cobalt	ug/L	11.5	1000	1000	999	1010	99	100	70-130	1	6			
Copper	ug/L	ND	1000	1000	1040	1040	103	103	70-130	0	11			
Iron	ug/L	22900	10000	10000	31800	32700	88	98	70-130	3	10			
Lead	ug/L	ND	1000	1000	985	989	98	98	70-130	0	10			
Nickel	ug/L	20.7	1000	1000	1020	1020	100	100	70-130	1	10			
Selenium	ug/L	ND	1000	1000	1060	1060	106	106	70-130	0	10			
Silver	ug/L	ND	500	500	514	514	103	103	70-130	0	10			
Thallium	ug/L	ND	1000	1000	943	954	94	95	70-130	1	6			
Zinc	ug/L	199	1000	1000	1140	1160	94	96	70-130	2	11			

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QUALITY CONTROL DATA

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

QC Batch:	MPRP/26125	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60162662001		

METHOD BLANK: 1328696 Matrix: Water

Associated Lab Samples: 60162662001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	02/12/14 14:18	
Antimony, Dissolved	ug/L	ND	10.0	02/12/14 14:18	
Arsenic, Dissolved	ug/L	ND	10.0	02/12/14 14:18	
Beryllium, Dissolved	ug/L	ND	1.0	02/12/14 14:18	
Cadmium, Dissolved	ug/L	ND	5.0	02/12/14 14:18	
Chromium, Dissolved	ug/L	ND	5.0	02/12/14 14:18	
Cobalt, Dissolved	ug/L	ND	5.0	02/12/14 14:18	
Copper, Dissolved	ug/L	ND	10.0	02/12/14 14:18	
Iron, Dissolved	ug/L	ND	50.0	02/12/14 14:18	
Lead, Dissolved	ug/L	ND	5.0	02/12/14 14:18	
Nickel, Dissolved	ug/L	ND	5.0	02/12/14 14:18	
Selenium, Dissolved	ug/L	ND	15.0	02/12/14 14:18	
Silver, Dissolved	ug/L	ND	7.0	02/12/14 14:18	
Thallium, Dissolved	ug/L	ND	20.0	02/12/14 14:18	
Zinc, Dissolved	ug/L	ND	50.0	02/12/14 14:18	

LABORATORY CONTROL SAMPLE: 1328697

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9990	100	85-115	
Antimony, Dissolved	ug/L	1000	1020	102	85-115	
Arsenic, Dissolved	ug/L	1000	968	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	986	99	85-115	
Cobalt, Dissolved	ug/L	1000	1020	102	85-115	
Copper, Dissolved	ug/L	1000	1020	102	85-115	
Iron, Dissolved	ug/L	10000	9940	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	509	102	85-115	
Thallium, Dissolved	ug/L	1000	1050	105	85-115	
Zinc, Dissolved	ug/L	1000	995	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1328698 1328699

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result						
Aluminum, Dissolved	ug/L	2510	50000	50000	53500	102	102	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

Parameter	Units	1328698		1328699		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		60162665001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Antimony, Dissolved	ug/L	54.8	5000	5000	5320	5390	105	107	70-130	1	7
Arsenic, Dissolved	ug/L	876	5000	5000	6140	6150	105	105	70-130	0	10
Beryllium, Dissolved	ug/L	ND	5000	5000	4870	4920	97	98	70-130	1	7
Cadmium, Dissolved	ug/L	ND	5000	5000	5240	5270	105	105	70-130	1	10
Chromium, Dissolved	ug/L	221	5000	5000	5040	5080	96	97	70-130	1	10
Cobalt, Dissolved	ug/L	39.3	5000	5000	4810	4860	95	96	70-130	1	6
Copper, Dissolved	ug/L	ND	5000	5000	5290	5360	105	107	70-130	1	11
Iron, Dissolved	ug/L	680000	50000	50000	672000	676000	-17	-8	70-130	1	10 M1
Lead, Dissolved	ug/L	77.6	5000	5000	4650	4690	92	92	70-130	1	10
Nickel, Dissolved	ug/L	102	5000	5000	4900	4950	96	97	70-130	1	10
Selenium, Dissolved	ug/L	ND	5000	5000	5840	5960	116	118	70-130	2	10
Silver, Dissolved	ug/L	ND	2500	2500	2690	2730	107	108	70-130	1	10
Thallium, Dissolved	ug/L	ND	5000	5000	4180	4210	84	84	70-130	1	6
Zinc, Dissolved	ug/L	6280	5000	5000	10500	10500	84	84	70-130	0	11

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QUALITY CONTROL DATA

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

QC Batch: MSV/59367 Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low Analysis Description: 624 MSV
Associated Lab Samples: 60162662001

METHOD BLANK: 1328781 Matrix: Water

Associated Lab Samples: 60162662001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/11/14 15:08	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/11/14 15:08	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	02/11/14 15:08	
1,2-Dichloroethane	ug/L	ND	1.0	02/11/14 15:08	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/11/14 15:08	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/11/14 15:08	N2
Benzene	ug/L	ND	1.0	02/11/14 15:08	
Bromodichloromethane	ug/L	ND	1.0	02/11/14 15:08	
Bromoform	ug/L	ND	1.0	02/11/14 15:08	
Bromomethane	ug/L	ND	5.0	02/11/14 15:08	
Carbon tetrachloride	ug/L	ND	1.0	02/11/14 15:08	
Chloroethane	ug/L	ND	1.0	02/11/14 15:08	
Chloroform	ug/L	ND	1.0	02/11/14 15:08	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/11/14 15:08	N2
Ethylbenzene	ug/L	ND	1.0	02/11/14 15:08	
Methylene chloride	ug/L	ND	1.0	02/11/14 15:08	
Tetrachloroethene	ug/L	ND	1.0	02/11/14 15:08	
Toluene	ug/L	ND	1.0	02/11/14 15:08	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/11/14 15:08	
Trichloroethene	ug/L	ND	1.0	02/11/14 15:08	
Vinyl chloride	ug/L	ND	1.0	02/11/14 15:08	
Xylene (Total)	ug/L	ND	3.0	02/11/14 15:08	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	02/11/14 15:08	
4-Bromofluorobenzene (S)	%	101	80-120	02/11/14 15:08	
Toluene-d8 (S)	%	101	80-120	02/11/14 15:08	

LABORATORY CONTROL SAMPLE: 1328782

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	17.7	89	59-138	N2
1,1,2-Trichloroethane	ug/L	20	17.2	86	69-127	
1,2-Dichloroethane	ug/L	20	17.9	90	71-129	
1,4-Dichlorobenzene	ug/L	20	18.5	93	68-124	
4-Methyl-2-pentanone (MIBK)	ug/L	100	88.2	88	61-120	N2
Benzene	ug/L	20	18.5	92	73-129	
Bromodichloromethane	ug/L	20	19.1	95	63-129	
Bromoform	ug/L	20	18.6	93	52-123	
Bromomethane	ug/L	20	17.0	85	10-160	
Carbon tetrachloride	ug/L	20	19.2	96	70-140	
Chloroethane	ug/L	20	18.1	91	42-160	

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QUALITY CONTROL DATA

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

LABORATORY CONTROL SAMPLE: 1328782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloroform	ug/L	20	19.0	95	60-120	
cis-1,2-Dichloroethene	ug/L	20	18.1	91	70-125	N2
Ethylbenzene	ug/L	20	18.8	94	66-133	
Methylene chloride	ug/L	20	19.0	95	56-135	
Tetrachloroethene	ug/L	20	19.3	96	64-143	
Toluene	ug/L	20	18.7	93	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.2	91	67-149	
Trichloroethene	ug/L	20	19.2	96	71-130	
Vinyl chloride	ug/L	20	17.7	89	41-160	
Xylene (Total)	ug/L	60	56.5	94	67-130	N2
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1328783

Parameter	Units	60162662001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	20	21.5	108	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	25.2	126	46-157	N2
1,1,2-Trichloroethane	ug/L	18.6	20	35.5	84	52-150	
1,2-Dichloroethane	ug/L	ND	20	24.3	121	49-155	
1,4-Dichlorobenzene	ug/L	34.1	20	54.4	101	18-147	
4-Methyl-2-pentanone (MIBK)	ug/L	137	100	224	87	40-160	N2
Benzene	ug/L	139	20	157	92	37-151	
Bromodichloromethane	ug/L	ND	20	20.4	102	35-155	
Bromoform	ug/L	ND	20	20.3	102	45-133	
Bromomethane	ug/L	ND	20	16.3	81	10-160	
Carbon tetrachloride	ug/L	ND	20	23.4	117	70-140	
Chloroethane	ug/L	ND	20	19.4	95	14-160	
Chloroform	ug/L	ND	20	20.7	104	51-138	
cis-1,2-Dichloroethene	ug/L	ND	20	19.6	98	19-160	N2
Ethylbenzene	ug/L	19.3	20	41.6	111	37-154	
Methylene chloride	ug/L	ND	20	18.5	93	15-156	
Tetrachloroethene	ug/L	ND	20	22.2	110	64-148	
Toluene	ug/L	31.2	20	52.1	104	47-150	
trans-1,2-Dichloroethene	ug/L	ND	20	20.1	101	54-156	
Trichloroethene	ug/L	ND	20	21.3	103	71-157	
Vinyl chloride	ug/L	ND	20	19.5	97	10-160	
Xylene (Total)	ug/L	64.2	60	132	113	12-153	N2
1,2-Dichloroethane-d4 (S)	%				96	80-120	
4-Bromofluorobenzene (S)	%				97	80-120	
Toluene-d8 (S)	%				99	80-120	
Preservation pH		6.0		6.0			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

QC Batch:	MSV/59409	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60162662001		

METHOD BLANK: 1329764 Matrix: Water

Associated Lab Samples: 60162662001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Butanone (MEK)	ug/L	ND	10.0	02/13/14 18:09	N2
Acetone	ug/L	ND	10.0	02/13/14 18:09	N2
1,2-Dichloroethane-d4 (S)	%	98	80-120	02/13/14 18:09	
4-Bromofluorobenzene (S)	%	100	80-120	02/13/14 18:09	
Toluene-d8 (S)	%	98	80-120	02/13/14 18:09	

LABORATORY CONTROL SAMPLE: 1329765

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Butanone (MEK)	ug/L	100	101	101	48-142	N2
Acetone	ug/L	100	72.3	72	40-160	N2
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1328783

Parameter	Units	60162662001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
2-Butanone (MEK)	ug/L	5370	20000	21300	80	40-160	N2
Acetone	ug/L	5190	20000	18200	65	40-160	N2

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QUALITY CONTROL DATA

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

QC Batch: MSV/59425 Analysis Method: EPA 624 Low
 QC Batch Method: EPA 624 Low Analysis Description: 624 MSV
 Associated Lab Samples: 60162662002

METHOD BLANK: 1330132 Matrix: Water

Associated Lab Samples: 60162662002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/14/14 11:44	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/14/14 11:44	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	02/14/14 11:44	
1,2-Dichloroethane	ug/L	ND	1.0	02/14/14 11:44	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/14/14 11:44	
2-Butanone (MEK)	ug/L	ND	10.0	02/14/14 11:44	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/14/14 11:44	N2
Acetone	ug/L	ND	10.0	02/14/14 11:44	N2
Benzene	ug/L	ND	1.0	02/14/14 11:44	
Bromodichloromethane	ug/L	ND	1.0	02/14/14 11:44	
Bromoform	ug/L	ND	1.0	02/14/14 11:44	
Bromomethane	ug/L	ND	5.0	02/14/14 11:44	
Carbon tetrachloride	ug/L	ND	1.0	02/14/14 11:44	
Chloroethane	ug/L	ND	1.0	02/14/14 11:44	
Chloroform	ug/L	ND	1.0	02/14/14 11:44	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/14/14 11:44	N2
Ethylbenzene	ug/L	ND	1.0	02/14/14 11:44	
Methylene chloride	ug/L	ND	1.0	02/14/14 11:44	
Tetrachloroethene	ug/L	ND	1.0	02/14/14 11:44	
Toluene	ug/L	ND	1.0	02/14/14 11:44	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/14/14 11:44	
Trichloroethene	ug/L	ND	1.0	02/14/14 11:44	
Vinyl chloride	ug/L	ND	1.0	02/14/14 11:44	
Xylene (Total)	ug/L	ND	3.0	02/14/14 11:44	N2
1,2-Dichloroethane-d4 (S)	%	96	80-120	02/14/14 11:44	
4-Bromofluorobenzene (S)	%	99	80-120	02/14/14 11:44	
Toluene-d8 (S)	%	102	80-120	02/14/14 11:44	

LABORATORY CONTROL SAMPLE: 1330133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.1	100	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	18.2	91	59-138	N2
1,1,2-Trichloroethane	ug/L	20	18.9	94	69-127	
1,2-Dichloroethane	ug/L	20	18.9	94	71-129	
1,4-Dichlorobenzene	ug/L	20	19.7	98	68-124	
2-Butanone (MEK)	ug/L	100	92.2	92	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	90.2	90	61-120	N2
Acetone	ug/L	100	63.4	63	40-160	N2
Benzene	ug/L	20	19.0	95	73-129	
Bromodichloromethane	ug/L	20	19.7	98	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

LABORATORY CONTROL SAMPLE: 1330133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.8	99	52-123	
Bromomethane	ug/L	20	13.9	70	10-160	
Carbon tetrachloride	ug/L	20	21.6	108	70-140	
Chloroethane	ug/L	20	20.9	104	42-160	
Chloroform	ug/L	20	19.8	99	60-120	
cis-1,2-Dichloroethene	ug/L	20	19.9	99	70-125	N2
Ethylbenzene	ug/L	20	21.1	106	66-133	
Methylene chloride	ug/L	20	18.4	92	56-135	
Tetrachloroethene	ug/L	20	21.3	107	64-143	
Toluene	ug/L	20	18.6	93	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.3	101	67-149	
Trichloroethene	ug/L	20	18.0	90	71-130	
Vinyl chloride	ug/L	20	20.3	102	41-160	
Xylene (Total)	ug/L	60	60.2	100	67-130	N2
1,2-Dichloroethane-d4 (S)	%			95	80-120	
4-Bromofluorobenzene (S)	%			96	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1330134

Parameter	Units	60162763001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4330	108	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3510	88	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	3810	95	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3670	92	49-155	
1,4-Dichlorobenzene	ug/L	874	4000	4750	97	18-147	
2-Butanone (MEK)	ug/L	90400	20000	100000	48	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	4850	20000	20000	76	40-160	N2
Acetone	ug/L	128000	20000	136000	41	40-160	N2
Benzene	ug/L	ND	4000	3900	97	37-151	
Bromodichloromethane	ug/L	ND	4000	3710	93	35-155	
Bromoform	ug/L	ND	4000	3590	90	45-133	
Bromomethane	ug/L	ND	4000	3020	76	10-160	
Carbon tetrachloride	ug/L	ND	4000	4680	117	70-140	
Chloroethane	ug/L	ND	4000	4500	113	14-160	
Chloroform	ug/L	ND	4000	3850	96	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3970	99	19-160	N2
Ethylbenzene	ug/L	ND	4000	3980	98	37-154	
Methylene chloride	ug/L	ND	4000	3660	90	15-156	
Tetrachloroethene	ug/L	ND	4000	4350	109	64-148	
Toluene	ug/L	ND	4000	3650	91	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4280	107	54-156	
Trichloroethene	ug/L	ND	4000	3670	92	71-157	
Vinyl chloride	ug/L	ND	4000	4770	119	10-160	
Xylene (Total)	ug/L	ND	12000	11800	99	12-153	N2
1,2-Dichloroethane-d4 (S)	%				96	80-120	
4-Bromofluorobenzene (S)	%				97	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

MATRIX SPIKE SAMPLE:		1330134					
Parameter	Units	60162763001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S) Preservation pH	%	6.0	6.0	6.0	101	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

QC Batch:	OEXT/42667	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60162662001		

METHOD BLANK: 1328394 Matrix: Water

Associated Lab Samples: 60162662001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/12/14 09:24	
2,4,6-Trichlorophenol	ug/L	ND	5.0	02/12/14 09:24	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	02/12/14 09:24	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/12/14 09:24	
Hexachlorocyclopentadiene	ug/L	ND	5.0	02/12/14 09:24	
Hexachloroethane	ug/L	ND	5.0	02/12/14 09:24	
Naphthalene	ug/L	ND	5.0	02/12/14 09:24	
Nitrobenzene	ug/L	ND	5.0	02/12/14 09:24	
Pentachlorophenol	ug/L	ND	5.0	02/12/14 09:24	
Phenol	ug/L	ND	5.0	02/12/14 09:24	
2,4,6-Tribromophenol (S)	%	90	39-120	02/12/14 09:24	
2-Fluorobiphenyl (S)	%	90	39-120	02/12/14 09:24	
2-Fluorophenol (S)	%	44	17-120	02/12/14 09:24	
Nitrobenzene-d5 (S)	%	84	33-120	02/12/14 09:24	
Phenol-d6 (S)	%	28	11-120	02/12/14 09:24	
Terphenyl-d14 (S)	%	94	45-120	02/12/14 09:24	

LABORATORY CONTROL SAMPLE: 1328395

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	41.5	83	46-120	
2,4,6-Trichlorophenol	ug/L	50	43.7	87	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	52.7	105	40-133	
Hexachloro-1,3-butadiene	ug/L	50	40.4	81	44-116	
Hexachlorocyclopentadiene	ug/L	100	67.0	67	24-120	
Hexachloroethane	ug/L	50	38.6	77	43-113	
Naphthalene	ug/L	50	42.5	85	48-120	
Nitrobenzene	ug/L	50	43.4	87	48-120	
Pentachlorophenol	ug/L	50	46.7	93	47-120	
Phenol	ug/L	50	13.6	27	16-112	
2,4,6-Tribromophenol (S)	%			98	39-120	
2-Fluorobiphenyl (S)	%			85	39-120	
2-Fluorophenol (S)	%			40	17-120	
Nitrobenzene-d5 (S)	%			85	33-120	
Phenol-d6 (S)	%			26	11-120	
Terphenyl-d14 (S)	%			85	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

MATRIX SPIKE SAMPLE:		1328396		60162666001		Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Result	% Rec	Limits	Qualifiers	
1,2,4-Trichlorobenzene	ug/L	ND	5000	4340	87			44-120		
2,4,6-Trichlorophenol	ug/L	ND	5000	4980	100			50-120		
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	5980	120			10-160		
Hexachloro-1,3-butadiene	ug/L	ND	5000	4300	86			39-116		
Hexachlorocyclopentadiene	ug/L	ND	10000	7870	79			11-120		
Hexachloroethane	ug/L	ND	5000	3940	79			40-113		
Naphthalene	ug/L	ND	5000	4710	86			45-120		
Nitrobenzene	ug/L	ND	5000	7940	159			38-120	M1	
Pentachlorophenol	ug/L	ND	5000	5300	106			43-135		
Phenol	ug/L	10100	5000	13900	75			13-112		
2,4,6-Tribromophenol (S)	%				110			39-120		
2-Fluorobiphenyl (S)	%				90			39-120		
2-Fluorophenol (S)	%				48			17-120		
Nitrobenzene-d5 (S)	%				193			33-120	S0	
Phenol-d6 (S)	%				35			11-120		
Terphenyl-d14 (S)	%				92			45-120		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

QC Batch:	WET/46092	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60162662001		

METHOD BLANK: 1328952 Matrix: Water

Associated Lab Samples: 60162662001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/12/14 09:52	

LABORATORY CONTROL SAMPLE: 1328953

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	31.4	78	78-114	

MATRIX SPIKE SAMPLE: 1328954

Parameter	Units	60162662001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	160	164	102	78-114	

SAMPLE DUPLICATE: 1328955

Parameter	Units	60162664001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1170	1170	0	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

QC Batch:	WET/46119	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60162662001		

METHOD BLANK: 1329416 Matrix: Water
Associated Lab Samples: 60162662001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	02/13/14 09:11	

LABORATORY CONTROL SAMPLE: 1329417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	21.7	108	64-132	

MATRIX SPIKE SAMPLE: 1329418

Parameter	Units	60162662001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	80	61.6	76	64-132	

SAMPLE DUPLICATE: 1329419

Parameter	Units	60162664001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	11.6	15.6	29	34	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

QC Batch: WET/46077

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60162662001

METHOD BLANK: 1328557

Matrix: Water

Associated Lab Samples: 60162662001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	02/11/14 14:21	

SAMPLE DUPLICATE: 1328558

Parameter	Units	60162613001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 1328559

Parameter	Units	60162578001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	12.0	12.0	0	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

QC Batch: WET/46076 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60162662001

SAMPLE DUPLICATE: 1328664

Parameter	Units	60162700001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.0	8.1	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

QC Batch: WET/46066

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60162662001

METHOD BLANK: 1328332

Matrix: Water

Associated Lab Samples: 60162662001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	02/15/14 12:21	

LABORATORY CONTROL SAMPLE: 1328333

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	194	98	85-115	

SAMPLE DUPLICATE: 1328334

Parameter	Units	60162656001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	820	861	5	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

QC Batch:	WETA/28151	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60162662001		

METHOD BLANK: 1328491 Matrix: Water
Associated Lab Samples: 60162662001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/11/14 14:33	

LABORATORY CONTROL SAMPLE: 1328492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.2	108	90-110	

MATRIX SPIKE SAMPLE: 1328493

Parameter	Units	60162544002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.9	95	90-110	

MATRIX SPIKE SAMPLE: 1328494

Parameter	Units	60162551001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.30	2	2.2	93	90-110	

SAMPLE DUPLICATE: 1328495

Parameter	Units	60162553002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	.04J		18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

QC Batch:	WETA/28196	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60162662001		

METHOD BLANK: 1330094 Matrix: Water
Associated Lab Samples: 60162662001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/17/14 11:32	

LABORATORY CONTROL SAMPLE: 1330095

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	52.6	105	90-110	

MATRIX SPIKE SAMPLE: 1330096

Parameter	Units	60162472005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	3180	2500	5630	98	90-110	

MATRIX SPIKE SAMPLE: 1330098

Parameter	Units	60162605001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	10900	5000	15400	91	90-110	

SAMPLE DUPLICATE: 1330097

Parameter	Units	60162524002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	3880	4010	3	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF SW1-020914

Pace Project No.: 60162662

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60162662001	SW1-020914	EPA 200.7	MPRP/26124	EPA 200.7	ICP/19969
60162662001	SW1-020914	EPA 200.7	MPRP/26125	EPA 200.7	ICP/19968
60162662001	SW1-020914	EPA 245.1	MERP/8130	EPA 245.1	MERC/8084
60162662001	SW1-020914	EPA 245.1	MERP/8128	EPA 245.1	MERC/8085
60162662001	SW1-020914	EPA 625	OEXT/42667	EPA 625	MSSV/13581
60162662001	SW1-020914	EPA 624 Low	MSV/59367		
60162662001	SW1-020914	EPA 624 Low	MSV/59409		
60162662002	TRIP BLANK	EPA 624 Low	MSV/59425		
60162662001	SW1-020914	EPA 1664A	WET/46092		
60162662001	SW1-020914	EPA 1664A	WET/46119		
60162662001	SW1-020914	SM 2540D	WET/46077		
60162662001	SW1-020914	SM 4500-H+B	WET/46076		
60162662001	SW1-020914	SM 5210B	WET/46066	SM 5210B	WET/46160
60162662001	SW1-020914	EPA 350.1	WETA/28151		
60162662001	SW1-020914	EPA 410.4	WETA/28196		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60162662



Client Name: 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 [X]

Custody Seal on Cooler/Box Present: Yes [] No [X] Seals intact: Yes [] No [X]

Packing Material: Bubble Wrap [] Bubble Bags [X] Foam [] None [] Other [X] Rip L

Thermometer Used: T-239 / T-194 Type of Ice: Wet [X] Blue [] None [] Samples received on ice, cooling process has begun.

Cooler Temperature: 2, 4

Date and initials of person examining contents: S 2/10/14

Temperature should be above freezing to 6°C

Table with 17 rows and 3 columns. Row 1: Chain of Custody present: [X] Yes [] No [] N/A. Row 2: Chain of Custody filled out: [X] Yes [] No [] N/A. Row 3: Chain of Custody relinquished: [X] Yes [] No [] N/A. Row 4: Sampler name & signature on COC: [X] Yes [] No [] N/A. Row 5: Samples arrived within holding time: [X] Yes [] No [] N/A. Row 6: Short Hold Time analyses (<72hr): [X] Yes [] No [] N/A. Row 7: Rush Turn Around Time requested: [] Yes [X] No [] N/A. Row 8: Sufficient volume: [X] Yes [] No [] N/A. Row 9: Correct containers used: [X] Yes [] No [] N/A. Row 10: Pace containers used: [X] Yes [] No [] N/A. Row 11: Containers intact: [X] Yes [] No [] N/A. Row 12: Unpreserved 5035A soils frozen w/in 48hrs? [] Yes [] No [X] N/A. Row 13: Filtered volume received for dissolved tests? [] Yes [] No [X] N/A. Row 14: Sample labels match COC: [X] Yes [] No [] N/A. Row 15: Includes date/time/ID/analyses Matrix: wt. Row 16: All containers needing preservation have been checked. [X] Yes [] No [] N/A. Row 17: All containers needing preservation are found to be in compliance with EPA recommendation. [X] Yes [] No [] N/A. Row 18: Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics. [X] Yes [] No. Row 19: Trip Blank present: [X] Yes [] No [] N/A. Row 20: Pace Trip Blank lot # (if purchased):. Row 21: Headspace in VOA vials (>6mm): [] Yes [X] No [] N/A. Row 22: Project sampled in USDA Regulated Area: [] Yes [] No [X] N/A. Row 23: List State: MO. Row 24: Initial when completed: S. Row 25: Lot # of added preservative: 12/21/13.

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date:

February 19, 2014

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

RE: Project: BRIDGETON LF 316-213R5
Pace Project No.: 60162664

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 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.

Amended report revised 02/19/14 to correct sample identification.

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 316-213R5

Pace Project No.: 60162664

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-213R5

Pace Project No.: 60162664

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60162664001	316-213R5	Water	02/08/14 14:00	02/10/14 14:30
60162664002	TRIP BLANK	Water		02/10/14 15:49

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-213R5

Pace Project No.: 60162664

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60162664001	316-213R5	EPA 200.7	TJT	15
		EPA 200.7	TJT	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	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
		60162664002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-213R5

Pace Project No.: 60162664

Sample: 316-213R5		Lab ID: 60162664001	Collected: 02/08/14 14:00	Received: 02/10/14 14:30	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	13200 ug/L		750	2	02/11/14 15:05	02/12/14 11:21	7429-90-5	
Antimony	66.2 ug/L		50.0	1	02/11/14 15:05	02/12/14 11:18	7440-36-0	
Arsenic	1010 ug/L		50.0	1	02/11/14 15:05	02/12/14 11:18	7440-38-2	
Beryllium	ND ug/L		5.0	1	02/11/14 15:05	02/12/14 11:18	7440-41-7	
Cadmium	ND ug/L		25.0	1	02/11/14 15:05	02/12/14 11:18	7440-43-9	
Chromium	287 ug/L		25.0	1	02/11/14 15:05	02/12/14 11:18	7440-47-3	
Cobalt	61.2 ug/L		25.0	1	02/11/14 15:05	02/12/14 11:18	7440-48-4	
Copper	ND ug/L		50.0	1	02/11/14 15:05	02/12/14 11:18	7440-50-8	
Iron	928000 ug/L		250	1	02/11/14 15:05	02/12/14 11:18	7439-89-6	
Lead	135 ug/L		25.0	1	02/11/14 15:05	02/12/14 11:18	7439-92-1	
Nickel	140 ug/L		25.0	1	02/11/14 15:05	02/12/14 11:18	7440-02-0	
Selenium	ND ug/L		75.0	1	02/11/14 15:05	02/12/14 11:18	7782-49-2	
Silver	ND ug/L		35.0	1	02/11/14 15:05	02/12/14 11:18	7440-22-4	
Thallium	ND ug/L		100	1	02/11/14 15:05	02/12/14 11:18	7440-28-0	
Zinc	7950 ug/L		500	2	02/11/14 15:05	02/12/14 11:21	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	2720 ug/L		750	2	02/11/14 15:05	02/12/14 12:03	7429-90-5	
Antimony, Dissolved	58.2 ug/L		50.0	1	02/11/14 15:05	02/12/14 12:01	7440-36-0	
Arsenic, Dissolved	810 ug/L		50.0	1	02/11/14 15:05	02/12/14 12:01	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	02/11/14 15:05	02/12/14 12:01	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	02/11/14 15:05	02/12/14 12:01	7440-43-9	
Chromium, Dissolved	216 ug/L		25.0	1	02/11/14 15:05	02/12/14 12:01	7440-47-3	
Cobalt, Dissolved	43.5 ug/L		25.0	1	02/11/14 15:05	02/12/14 12:01	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	02/11/14 15:05	02/12/14 12:01	7440-50-8	
Iron, Dissolved	660000 ug/L		250	1	02/11/14 15:05	02/12/14 12:01	7439-89-6	
Lead, Dissolved	93.4 ug/L		25.0	1	02/11/14 15:05	02/12/14 12:01	7439-92-1	
Nickel, Dissolved	102 ug/L		25.0	1	02/11/14 15:05	02/12/14 12:01	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	02/11/14 15:05	02/12/14 12:01	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	02/11/14 15:05	02/12/14 12:01	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	02/11/14 15:05	02/12/14 12:01	7440-28-0	
Zinc, Dissolved	6730 ug/L		500	2	02/11/14 15:05	02/12/14 12:03	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	15.9 ug/L		6.0	1	02/12/14 16:00	02/13/14 10:03	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	02/12/14 16:00	02/13/14 10:43	7439-97-6	M1
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	02/11/14 00:00	02/12/14 12:31	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	02/11/14 00:00	02/12/14 12:31	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	02/11/14 00:00	02/12/14 12:31	77-47-4	
Hexachloroethane	ND ug/L		1000	2	02/11/14 00:00	02/12/14 12:31	67-72-1	
Naphthalene	3970 ug/L		1000	2	02/11/14 00:00	02/12/14 12:31	91-20-3	
Nitrobenzene	ND ug/L		1000	2	02/11/14 00:00	02/12/14 12:31	98-95-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-213R5

Pace Project No.: 60162664

Sample: 316-213R5		Lab ID: 60162664001	Collected: 02/08/14 14:00	Received: 02/10/14 14:30	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	02/11/14 00:00	02/12/14 12:31	87-86-5	
Phenol	11400 ug/L		1000	2	02/11/14 00:00	02/12/14 12:31	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	02/11/14 00:00	02/12/14 12:31	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	02/11/14 00:00	02/12/14 12:31	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	167 %		33-120	2	02/11/14 00:00	02/12/14 12:31	4165-60-0	S0
2-Fluorobiphenyl (S)	90 %		39-120	2	02/11/14 00:00	02/12/14 12:31	321-60-8	
Terphenyl-d14 (S)	84 %		45-120	2	02/11/14 00:00	02/12/14 12:31	1718-51-0	
Phenol-d6 (S)	35 %		11-120	2	02/11/14 00:00	02/12/14 12:31	13127-88-3	
2-Fluorophenol (S)	50 %		17-120	2	02/11/14 00:00	02/12/14 12:31	367-12-4	
2,4,6-Tribromophenol (S)	103 %		39-120	2	02/11/14 00:00	02/12/14 12:31	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	151000 ug/L		2000	200		02/11/14 16:12	67-64-1	N2
Benzene	ND ug/L		200	200		02/11/14 16:12	71-43-2	
Bromodichloromethane	ND ug/L		200	200		02/11/14 16:12	75-27-4	
Bromoform	ND ug/L		200	200		02/11/14 16:12	75-25-2	
Bromomethane	ND ug/L		1000	200		02/11/14 16:12	74-83-9	
2-Butanone (MEK)	78400 ug/L		2000	200		02/11/14 16:12	78-93-3	N2
Carbon tetrachloride	ND ug/L		200	200		02/11/14 16:12	56-23-5	
Chloroethane	ND ug/L		200	200		02/11/14 16:12	75-00-3	
Chloroform	ND ug/L		200	200		02/11/14 16:12	67-66-3	
1,4-Dichlorobenzene	1890 ug/L		200	200		02/11/14 16:12	106-46-7	
1,2-Dichloroethane	ND ug/L		200	200		02/11/14 16:12	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200	200		02/11/14 16:12	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		200	200		02/11/14 16:12	156-60-5	
Ethylbenzene	ND ug/L		200	200		02/11/14 16:12	100-41-4	
Methylene chloride	ND ug/L		200	200		02/11/14 16:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	3230 ug/L		2000	200		02/11/14 16:12	108-10-1	N2
1,1,2,2-Tetrachloroethane	409 ug/L		200	200		02/11/14 16:12	79-34-5	N2
Tetrachloroethene	ND ug/L		200	200		02/11/14 16:12	127-18-4	
Toluene	ND ug/L		200	200		02/11/14 16:12	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		02/11/14 16:12	71-55-6	
1,1,2-Trichloroethane	327 ug/L		200	200		02/11/14 16:12	79-00-5	
Trichloroethene	ND ug/L		200	200		02/11/14 16:12	79-01-6	
Vinyl chloride	ND ug/L		200	200		02/11/14 16:12	75-01-4	
Xylene (Total)	873 ug/L		600	200		02/11/14 16:12	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	98 %		80-120	200		02/11/14 16:12	460-00-4	
Toluene-d8 (S)	99 %		80-120	200		02/11/14 16:12	2037-26-5	
1,2-Dichloroethane-d4 (S)	102 %		80-120	200		02/11/14 16:12	17060-07-0	
Preservation pH	6.0		1.0	200		02/11/14 16:12		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1170 mg/L		5.0	1		02/12/14 09:53		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-213R5

Pace Project No.: 60162664

Sample: 316-213R5		Lab ID: 60162664001	Collected: 02/08/14 14:00	Received: 02/10/14 14:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	11.6	mg/L	5.0	1		02/13/14 09:13		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	5180	mg/L	5.0	1		02/12/14 09:24		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.3	Std. Units	0.10	1		02/11/14 14:13		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	27800	mg/L	2.0	1	02/10/14 17:01	02/15/14 12:28		H3
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	703	mg/L	20.0	200		02/11/14 15:02	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	68900	mg/L	5000	500		02/17/14 11:41		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-213R5

Pace Project No.: 60162664

Sample: TRIP BLANK		Lab ID: 60162664002	Collected:	Received: 02/10/14 15:49	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		02/11/14 17:29	67-64-1	N2
Benzene	ND ug/L		1.0	1		02/11/14 17:29	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		02/11/14 17:29	75-27-4	
Bromoform	ND ug/L		1.0	1		02/11/14 17:29	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/11/14 17:29	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		02/11/14 17:29	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		02/11/14 17:29	56-23-5	
Chloroethane	ND ug/L		1.0	1		02/11/14 17:29	75-00-3	
Chloroform	ND ug/L		1.0	1		02/11/14 17:29	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		02/11/14 17:29	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		02/11/14 17:29	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		02/11/14 17:29	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		02/11/14 17:29	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		02/11/14 17:29	100-41-4	
Methylene chloride	ND ug/L		1.0	1		02/11/14 17:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		02/11/14 17:29	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		02/11/14 17:29	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		02/11/14 17:29	127-18-4	
Toluene	ND ug/L		1.0	1		02/11/14 17:29	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		02/11/14 17:29	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		02/11/14 17:29	79-00-5	
Trichloroethene	ND ug/L		1.0	1		02/11/14 17:29	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		02/11/14 17:29	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		02/11/14 17:29	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	102 %		80-120	1		02/11/14 17:29	460-00-4	
Toluene-d8 (S)	99 %		80-120	1		02/11/14 17:29	2037-26-5	
1,2-Dichloroethane-d4 (S)	99 %		80-120	1		02/11/14 17:29	17060-07-0	
Preservation pH	6.0		1.0	1		02/11/14 17:29		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-213R5

Pace Project No.: 60162664

QC Batch: MERP/8130 Analysis Method: EPA 245.1
 QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
 Associated Lab Samples: 60162664001

METHOD BLANK: 1329221 Matrix: Water
 Associated Lab Samples: 60162664001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/13/14 09:31	

LABORATORY CONTROL SAMPLE: 1329222

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1329223 1329224

Parameter	Units	60161465018		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Mercury	ug/L	8.2	5	5	5	13.5	13.4	106	105	70-130	0	20			

MATRIX SPIKE SAMPLE: 1329260

Parameter	Units	60162743001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.1	83	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-213R5

Pace Project No.: 60162664

QC Batch: MERP/8128

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60162664001

METHOD BLANK: 1329206

Matrix: Water

Associated Lab Samples: 60162664001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/13/14 10:36	

LABORATORY CONTROL SAMPLE: 1329207

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: 1329208 1329209

Parameter	Units	60162664001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Mercury, Dissolved	ug/L	ND	150	150	98.1	98.7	65	66	70-130	1	20	M1			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-213R5
Pace Project No.: 60162664

QC Batch: MPRP/26124 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60162664001

METHOD BLANK: 1328692 Matrix: Water
Associated Lab Samples: 60162664001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	02/12/14 11:06	
Antimony	ug/L	ND	10.0	02/12/14 11:06	
Arsenic	ug/L	ND	10.0	02/12/14 11:06	
Beryllium	ug/L	ND	1.0	02/12/14 11:06	
Cadmium	ug/L	ND	5.0	02/12/14 11:06	
Chromium	ug/L	ND	5.0	02/12/14 11:06	
Cobalt	ug/L	ND	5.0	02/12/14 11:06	
Copper	ug/L	ND	10.0	02/12/14 11:06	
Iron	ug/L	ND	50.0	02/12/14 11:06	
Lead	ug/L	ND	5.0	02/12/14 11:06	
Nickel	ug/L	ND	5.0	02/12/14 11:06	
Selenium	ug/L	ND	15.0	02/12/14 11:06	
Silver	ug/L	ND	7.0	02/12/14 11:06	
Thallium	ug/L	ND	20.0	02/12/14 11:06	
Zinc	ug/L	ND	50.0	02/12/14 11:06	

LABORATORY CONTROL SAMPLE: 1328693

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10000	100	85-115	
Antimony	ug/L	1000	1020	102	85-115	
Arsenic	ug/L	1000	968	97	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	999	100	85-115	
Chromium	ug/L	1000	996	100	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	1020	102	85-115	
Iron	ug/L	10000	9970	100	85-115	
Lead	ug/L	1000	1050	105	85-115	
Nickel	ug/L	1000	1040	104	85-115	
Selenium	ug/L	1000	1010	101	85-115	
Silver	ug/L	500	511	102	85-115	
Thallium	ug/L	1000	1040	104	85-115	
Zinc	ug/L	1000	991	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1328694 1328695

Parameter	Units	60162662001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum	ug/L	450	10000	10000	10600	10700	102	102	70-130	0	8		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-213R5

Pace Project No.: 60162664

Parameter	Units	60162662001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max	RPD	Qual
		Result	Conc.	Spike	Conc.	Result	Result	% Rec	% Rec								
Antimony	ug/L	ND	1000	1000	1000	1030	1040	103	104	70-130	1	7					
Arsenic	ug/L	41.1	1000	1000	1000	1040	1060	100	102	70-130	2	10					
Beryllium	ug/L	ND	1000	1000	1000	1010	1000	101	100	70-130	0	7					
Cadmium	ug/L	ND	1000	1000	1000	1020	1030	101	103	70-130	1	10					
Chromium	ug/L	9.1	1000	1000	1000	976	984	97	97	70-130	1	10					
Cobalt	ug/L	11.5	1000	1000	1000	999	1010	99	100	70-130	1	6					
Copper	ug/L	ND	1000	1000	1000	1040	1040	103	103	70-130	0	11					
Iron	ug/L	22900	10000	10000	10000	31800	32700	88	98	70-130	3	10					
Lead	ug/L	ND	1000	1000	1000	985	989	98	98	70-130	0	10					
Nickel	ug/L	20.7	1000	1000	1000	1020	1020	100	100	70-130	1	10					
Selenium	ug/L	ND	1000	1000	1000	1060	1060	106	106	70-130	0	10					
Silver	ug/L	ND	500	500	500	514	514	103	103	70-130	0	10					
Thallium	ug/L	ND	1000	1000	1000	943	954	94	95	70-130	1	6					
Zinc	ug/L	199	1000	1000	1000	1140	1160	94	96	70-130	2	11					

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-213R5

Pace Project No.: 60162664

QC Batch: MPRP/26125

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60162664001

METHOD BLANK: 1328696

Matrix: Water

Associated Lab Samples: 60162664001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	02/12/14 14:18	
Antimony, Dissolved	ug/L	ND	10.0	02/12/14 14:18	
Arsenic, Dissolved	ug/L	ND	10.0	02/12/14 14:18	
Beryllium, Dissolved	ug/L	ND	1.0	02/12/14 14:18	
Cadmium, Dissolved	ug/L	ND	5.0	02/12/14 14:18	
Chromium, Dissolved	ug/L	ND	5.0	02/12/14 14:18	
Cobalt, Dissolved	ug/L	ND	5.0	02/12/14 14:18	
Copper, Dissolved	ug/L	ND	10.0	02/12/14 14:18	
Iron, Dissolved	ug/L	ND	50.0	02/12/14 14:18	
Lead, Dissolved	ug/L	ND	5.0	02/12/14 14:18	
Nickel, Dissolved	ug/L	ND	5.0	02/12/14 14:18	
Selenium, Dissolved	ug/L	ND	15.0	02/12/14 14:18	
Silver, Dissolved	ug/L	ND	7.0	02/12/14 14:18	
Thallium, Dissolved	ug/L	ND	20.0	02/12/14 14:18	
Zinc, Dissolved	ug/L	ND	50.0	02/12/14 14:18	

LABORATORY CONTROL SAMPLE: 1328697

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9990	100	85-115	
Antimony, Dissolved	ug/L	1000	1020	102	85-115	
Arsenic, Dissolved	ug/L	1000	968	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	986	99	85-115	
Cobalt, Dissolved	ug/L	1000	1020	102	85-115	
Copper, Dissolved	ug/L	1000	1020	102	85-115	
Iron, Dissolved	ug/L	10000	9940	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	509	102	85-115	
Thallium, Dissolved	ug/L	1000	1050	105	85-115	
Zinc, Dissolved	ug/L	1000	995	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1328698 1328699

Parameter	Units	60162665001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum, Dissolved	ug/L	2510	50000	50000	53500	53600	102	102	70-130	0	8		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-213R5

Pace Project No.: 60162664

Parameter	Units	1328698		1328699		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60162665001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Antimony, Dissolved	ug/L	54.8	5000	5000	5320	5390	105	107	70-130	1	7
Arsenic, Dissolved	ug/L	876	5000	5000	6140	6150	105	105	70-130	0	10
Beryllium, Dissolved	ug/L	ND	5000	5000	4870	4920	97	98	70-130	1	7
Cadmium, Dissolved	ug/L	ND	5000	5000	5240	5270	105	105	70-130	1	10
Chromium, Dissolved	ug/L	221	5000	5000	5040	5080	96	97	70-130	1	10
Cobalt, Dissolved	ug/L	39.3	5000	5000	4810	4860	95	96	70-130	1	6
Copper, Dissolved	ug/L	ND	5000	5000	5290	5360	105	107	70-130	1	11
Iron, Dissolved	ug/L	680000	50000	50000	672000	676000	-17	-8	70-130	1	10 M1
Lead, Dissolved	ug/L	77.6	5000	5000	4650	4690	92	92	70-130	1	10
Nickel, Dissolved	ug/L	102	5000	5000	4900	4950	96	97	70-130	1	10
Selenium, Dissolved	ug/L	ND	5000	5000	5840	5960	116	118	70-130	2	10
Silver, Dissolved	ug/L	ND	2500	2500	2690	2730	107	108	70-130	1	10
Thallium, Dissolved	ug/L	ND	5000	5000	4180	4210	84	84	70-130	1	6
Zinc, Dissolved	ug/L	6280	5000	5000	10500	10500	84	84	70-130	0	11

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-213R5

Pace Project No.: 60162664

QC Batch: MSV/59367 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60162664001, 60162664002

METHOD BLANK: 1328781 Matrix: Water

Associated Lab Samples: 60162664001, 60162664002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/11/14 15:08	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/11/14 15:08	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	02/11/14 15:08	
1,2-Dichloroethane	ug/L	ND	1.0	02/11/14 15:08	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/11/14 15:08	
2-Butanone (MEK)	ug/L	ND	10.0	02/11/14 15:08	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/11/14 15:08	N2
Acetone	ug/L	ND	10.0	02/11/14 15:08	N2
Benzene	ug/L	ND	1.0	02/11/14 15:08	
Bromodichloromethane	ug/L	ND	1.0	02/11/14 15:08	
Bromoform	ug/L	ND	1.0	02/11/14 15:08	
Bromomethane	ug/L	ND	5.0	02/11/14 15:08	
Carbon tetrachloride	ug/L	ND	1.0	02/11/14 15:08	
Chloroethane	ug/L	ND	1.0	02/11/14 15:08	
Chloroform	ug/L	ND	1.0	02/11/14 15:08	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/11/14 15:08	N2
Ethylbenzene	ug/L	ND	1.0	02/11/14 15:08	
Methylene chloride	ug/L	ND	1.0	02/11/14 15:08	
Tetrachloroethene	ug/L	ND	1.0	02/11/14 15:08	
Toluene	ug/L	ND	1.0	02/11/14 15:08	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/11/14 15:08	
Trichloroethene	ug/L	ND	1.0	02/11/14 15:08	
Vinyl chloride	ug/L	ND	1.0	02/11/14 15:08	
Xylene (Total)	ug/L	ND	3.0	02/11/14 15:08	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	02/11/14 15:08	
4-Bromofluorobenzene (S)	%	101	80-120	02/11/14 15:08	
Toluene-d8 (S)	%	101	80-120	02/11/14 15:08	

LABORATORY CONTROL SAMPLE: 1328782

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	17.7	89	59-138	N2
1,1,2-Trichloroethane	ug/L	20	17.2	86	69-127	
1,2-Dichloroethane	ug/L	20	17.9	90	71-129	
1,4-Dichlorobenzene	ug/L	20	18.5	93	68-124	
2-Butanone (MEK)	ug/L	100	83.9	84	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	88.2	88	61-120	N2
Acetone	ug/L	100	80.7	81	40-160	N2
Benzene	ug/L	20	18.5	92	73-129	
Bromodichloromethane	ug/L	20	19.1	95	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-213R5

Pace Project No.: 60162664

LABORATORY CONTROL SAMPLE: 1328782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	18.6	93	52-123	
Bromomethane	ug/L	20	17.0	85	10-160	
Carbon tetrachloride	ug/L	20	19.2	96	70-140	
Chloroethane	ug/L	20	18.1	91	42-160	
Chloroform	ug/L	20	19.0	95	60-120	
cis-1,2-Dichloroethene	ug/L	20	18.1	91	70-125	N2
Ethylbenzene	ug/L	20	18.8	94	66-133	
Methylene chloride	ug/L	20	19.0	95	56-135	
Tetrachloroethene	ug/L	20	19.3	96	64-143	
Toluene	ug/L	20	18.7	93	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.2	91	67-149	
Trichloroethene	ug/L	20	19.2	96	71-130	
Vinyl chloride	ug/L	20	17.7	89	41-160	
Xylene (Total)	ug/L	60	56.5	94	67-130	N2
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1328783

Parameter	Units	60162662001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	20	21.5	108	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	25.2	126	46-157	N2
1,1,2-Trichloroethane	ug/L	18.6	20	35.5	84	52-150	
1,2-Dichloroethane	ug/L	ND	20	24.3	121	49-155	
1,4-Dichlorobenzene	ug/L	34.1	20	54.4	101	18-147	
4-Methyl-2-pentanone (MIBK)	ug/L	137	100	224	87	40-160	N2
Benzene	ug/L	139	20	157	92	37-151	
Bromodichloromethane	ug/L	ND	20	20.4	102	35-155	
Bromoform	ug/L	ND	20	20.3	102	45-133	
Bromomethane	ug/L	ND	20	16.3	81	10-160	
Carbon tetrachloride	ug/L	ND	20	23.4	117	70-140	
Chloroethane	ug/L	ND	20	19.4	95	14-160	
Chloroform	ug/L	ND	20	20.7	104	51-138	
cis-1,2-Dichloroethene	ug/L	ND	20	19.6	98	19-160	N2
Ethylbenzene	ug/L	19.3	20	41.6	111	37-154	
Methylene chloride	ug/L	ND	20	18.5	93	15-156	
Tetrachloroethene	ug/L	ND	20	22.2	110	64-148	
Toluene	ug/L	31.2	20	52.1	104	47-150	
trans-1,2-Dichloroethene	ug/L	ND	20	20.1	101	54-156	
Trichloroethene	ug/L	ND	20	21.3	103	71-157	
Vinyl chloride	ug/L	ND	20	19.5	97	10-160	
Xylene (Total)	ug/L	64.2	60	132	113	12-153	N2
1,2-Dichloroethane-d4 (S)	%				96	80-120	
4-Bromofluorobenzene (S)	%				97	80-120	
Toluene-d8 (S)	%				99	80-120	
Preservation pH			6.0		6.0		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-213R5
Pace Project No.: 60162664

QC Batch: OEXT/42667 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60162664001

METHOD BLANK: 1328394 Matrix: Water
Associated Lab Samples: 60162664001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/12/14 09:24	
2,4,6-Trichlorophenol	ug/L	ND	5.0	02/12/14 09:24	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	02/12/14 09:24	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/12/14 09:24	
Hexachlorocyclopentadiene	ug/L	ND	5.0	02/12/14 09:24	
Hexachloroethane	ug/L	ND	5.0	02/12/14 09:24	
Naphthalene	ug/L	ND	5.0	02/12/14 09:24	
Nitrobenzene	ug/L	ND	5.0	02/12/14 09:24	
Pentachlorophenol	ug/L	ND	5.0	02/12/14 09:24	
Phenol	ug/L	ND	5.0	02/12/14 09:24	
2,4,6-Tribromophenol (S)	%	90	39-120	02/12/14 09:24	
2-Fluorobiphenyl (S)	%	90	39-120	02/12/14 09:24	
2-Fluorophenol (S)	%	44	17-120	02/12/14 09:24	
Nitrobenzene-d5 (S)	%	84	33-120	02/12/14 09:24	
Phenol-d6 (S)	%	28	11-120	02/12/14 09:24	
Terphenyl-d14 (S)	%	94	45-120	02/12/14 09:24	

LABORATORY CONTROL SAMPLE: 1328395

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	41.5	83	46-120	
2,4,6-Trichlorophenol	ug/L	50	43.7	87	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	52.7	105	40-133	
Hexachloro-1,3-butadiene	ug/L	50	40.4	81	44-116	
Hexachlorocyclopentadiene	ug/L	100	67.0	67	24-120	
Hexachloroethane	ug/L	50	38.6	77	43-113	
Naphthalene	ug/L	50	42.5	85	48-120	
Nitrobenzene	ug/L	50	43.4	87	48-120	
Pentachlorophenol	ug/L	50	46.7	93	47-120	
Phenol	ug/L	50	13.6	27	16-112	
2,4,6-Tribromophenol (S)	%			98	39-120	
2-Fluorobiphenyl (S)	%			85	39-120	
2-Fluorophenol (S)	%			40	17-120	
Nitrobenzene-d5 (S)	%			85	33-120	
Phenol-d6 (S)	%			26	11-120	
Terphenyl-d14 (S)	%			85	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-213R5

Pace Project No.: 60162664

MATRIX SPIKE SAMPLE:		1328396		60162666001		Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Result	% Rec	Limits	Qualifiers	
1,2,4-Trichlorobenzene	ug/L	ND	5000	4340	87			44-120		
2,4,6-Trichlorophenol	ug/L	ND	5000	4980	100			50-120		
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	5980	120			10-160		
Hexachloro-1,3-butadiene	ug/L	ND	5000	4300	86			39-116		
Hexachlorocyclopentadiene	ug/L	ND	10000	7870	79			11-120		
Hexachloroethane	ug/L	ND	5000	3940	79			40-113		
Naphthalene	ug/L	ND	5000	4710	86			45-120		
Nitrobenzene	ug/L	ND	5000	7940	159			38-120	M1	
Pentachlorophenol	ug/L	ND	5000	5300	106			43-135		
Phenol	ug/L	10100	5000	13900	75			13-112		
2,4,6-Tribromophenol (S)	%				110			39-120		
2-Fluorobiphenyl (S)	%				90			39-120		
2-Fluorophenol (S)	%				48			17-120		
Nitrobenzene-d5 (S)	%				193			33-120	S0	
Phenol-d6 (S)	%				35			11-120		
Terphenyl-d14 (S)	%				92			45-120		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-213R5

Pace Project No.: 60162664

QC Batch:	WET/46092	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60162664001		

METHOD BLANK: 1328952 Matrix: Water

Associated Lab Samples: 60162664001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/12/14 09:52	

LABORATORY CONTROL SAMPLE: 1328953

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	31.4	78	78-114	

MATRIX SPIKE SAMPLE: 1328954

Parameter	Units	60162662001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	160	164	102	78-114	

SAMPLE DUPLICATE: 1328955

Parameter	Units	60162664001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1170	1170	0	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-213R5

Pace Project No.: 60162664

QC Batch: WET/46119

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60162664001

METHOD BLANK: 1329416

Matrix: Water

Associated Lab Samples: 60162664001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	02/13/14 09:11	

LABORATORY CONTROL SAMPLE: 1329417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	21.7	108	64-132	

MATRIX SPIKE SAMPLE: 1329418

Parameter	Units	60162662001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	80	61.6	76	64-132	

SAMPLE DUPLICATE: 1329419

Parameter	Units	60162664001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	11.6	15.6	29	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-213R5

Pace Project No.: 60162664

QC Batch: WET/46094

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60162664001

METHOD BLANK: 1329003

Matrix: Water

Associated Lab Samples: 60162664001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	02/12/14 09:22	

SAMPLE DUPLICATE: 1329004

Parameter	Units	60162708001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	144	133	8	10	

SAMPLE DUPLICATE: 1329005

Parameter	Units	60162605003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2460	2440	1	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-213R5

Pace Project No.: 60162664

QC Batch: WET/46076 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60162664001

SAMPLE DUPLICATE: 1328664

Parameter	Units	60162700001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.0	8.1	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-213R5

Pace Project No.: 60162664

QC Batch: WET/46066

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60162664001

METHOD BLANK: 1328332

Matrix: Water

Associated Lab Samples: 60162664001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	02/15/14 12:21	

LABORATORY CONTROL SAMPLE: 1328333

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	194	98	85-115	

SAMPLE DUPLICATE: 1328334

Parameter	Units	60162656001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	820	861	5	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-213R5

Pace Project No.: 60162664

QC Batch:	WETA/28151	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60162664001		

METHOD BLANK: 1328491 Matrix: Water
Associated Lab Samples: 60162664001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/11/14 14:33	

LABORATORY CONTROL SAMPLE: 1328492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.2	108	90-110	

MATRIX SPIKE SAMPLE: 1328493

Parameter	Units	60162544002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.9	95	90-110	

MATRIX SPIKE SAMPLE: 1328494

Parameter	Units	60162551001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.30	2	2.2	93	90-110	

SAMPLE DUPLICATE: 1328495

Parameter	Units	60162553002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	.04J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-213R5

Pace Project No.: 60162664

QC Batch:	WETA/28196	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60162664001		

METHOD BLANK: 1330094 Matrix: Water
Associated Lab Samples: 60162664001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/17/14 11:32	

LABORATORY CONTROL SAMPLE: 1330095

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	52.6	105	90-110	

MATRIX SPIKE SAMPLE: 1330096

Parameter	Units	60162472005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	3180	2500	5630	98	90-110	

MATRIX SPIKE SAMPLE: 1330098

Parameter	Units	60162605001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	10900	5000	15400	91	90-110	

SAMPLE DUPLICATE: 1330097

Parameter	Units	60162524002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	3880	4010	3	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-213R5

Pace Project No.: 60162664

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-213R5

Pace Project No.: 60162664

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60162664001	316-213R5	EPA 200.7	MPRP/26124	EPA 200.7	ICP/19969
60162664001	316-213R5	EPA 200.7	MPRP/26125	EPA 200.7	ICP/19968
60162664001	316-213R5	EPA 245.1	MERP/8130	EPA 245.1	MERC/8084
60162664001	316-213R5	EPA 245.1	MERP/8128	EPA 245.1	MERC/8085
60162664001	316-213R5	EPA 625	OEXT/42667	EPA 625	MSSV/13581
60162664001	316-213R5	EPA 624 Low	MSV/59367		
60162664002	TRIP BLANK	EPA 624 Low	MSV/59367		
60162664001	316-213R5	EPA 1664A	WET/46092		
60162664001	316-213R5	EPA 1664A	WET/46119		
60162664001	316-213R5	SM 2540D	WET/46094		
60162664001	316-213R5	SM 4500-H+B	WET/46076		
60162664001	316-213R5	SM 5210B	WET/46066	SM 5210B	WET/46160
60162664001	316-213R5	EPA 350.1	WETA/28151		
60162664001	316-213R5	EPA 410.4	WETA/28196		

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Sample Condition Upon Receipt

WO#: 60162664



Client Name: BARR

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 Rip

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

Cooler Temperature: 4.8

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: S 2/10/14

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOO, PL</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9. <u>sample 316-213 RS collection date + time</u>
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9. <u>2/8/14 1400 out of hold time</u>
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Includes date/time/ID/analyses Matrix: <u>wt</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>Added h2o3 to 316-213 RS 6:0/40</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>Added h2so4 to 316-213 OS 6:0/15</u>
Exceptions: <u>VOA</u> , coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>S</u> Lot # of added preservative <u>12513 12514</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased):		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MO</u>

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 2/10/14

February 17, 2014

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

RE: Project: BRIDGETON LF 316-214R4
Pace Project No.: 60162665

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 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



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CERTIFICATIONS

Project: BRIDGETON LF 316-214R4

Pace Project No.: 60162665

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 316-214R4

Pace Project No.: 60162665

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60162665001	316-214R4	Water	02/09/14 14:00	02/10/14 14:30
60162665002	TRIP BLANK	Water	02/09/14 14:00	02/10/14 14:30

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-214R4

Pace Project No.: 60162665

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60162665001	316-214R4	EPA 200.7	TJT	15
		EPA 200.7	TJT	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	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
		60162665002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-214R4

Pace Project No.: 60162665

Sample: 316-214R4		Lab ID: 60162665001	Collected: 02/09/14 14:00	Received: 02/10/14 14:30	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	8130 ug/L		750	2	02/11/14 15:05	02/12/14 11:26	7429-90-5	
Antimony	61.3 ug/L		50.0	1	02/11/14 15:05	02/12/14 11:23	7440-36-0	
Arsenic	814 ug/L		50.0	1	02/11/14 15:05	02/12/14 11:23	7440-38-2	
Beryllium	ND ug/L		5.0	1	02/11/14 15:05	02/12/14 11:23	7440-41-7	
Cadmium	ND ug/L		25.0	1	02/11/14 15:05	02/12/14 11:23	7440-43-9	
Chromium	214 ug/L		25.0	1	02/11/14 15:05	02/12/14 11:23	7440-47-3	
Cobalt	40.3 ug/L		25.0	1	02/11/14 15:05	02/12/14 11:23	7440-48-4	
Copper	ND ug/L		50.0	1	02/11/14 15:05	02/12/14 11:23	7440-50-8	
Iron	694000 ug/L		250	1	02/11/14 15:05	02/12/14 11:23	7439-89-6	
Lead	98.6 ug/L		25.0	1	02/11/14 15:05	02/12/14 11:23	7439-92-1	
Nickel	98.8 ug/L		25.0	1	02/11/14 15:05	02/12/14 11:23	7440-02-0	
Selenium	ND ug/L		75.0	1	02/11/14 15:05	02/12/14 11:23	7782-49-2	
Silver	ND ug/L		35.0	1	02/11/14 15:05	02/12/14 11:23	7440-22-4	
Thallium	ND ug/L		100	1	02/11/14 15:05	02/12/14 11:23	7440-28-0	
Zinc	5560 ug/L		500	2	02/11/14 15:05	02/12/14 11:26	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	2510 ug/L		750	2	02/11/14 15:05	02/12/14 12:08	7429-90-5	
Antimony, Dissolved	54.8 ug/L		50.0	1	02/11/14 15:05	02/12/14 12:05	7440-36-0	
Arsenic, Dissolved	876 ug/L		50.0	1	02/11/14 15:05	02/12/14 12:05	7440-38-2	D9
Beryllium, Dissolved	ND ug/L		5.0	1	02/11/14 15:05	02/12/14 12:05	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	02/11/14 15:05	02/12/14 12:05	7440-43-9	
Chromium, Dissolved	221 ug/L		25.0	1	02/11/14 15:05	02/12/14 12:05	7440-47-3	D9
Cobalt, Dissolved	39.3 ug/L		25.0	1	02/11/14 15:05	02/12/14 12:05	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	02/11/14 15:05	02/12/14 12:05	7440-50-8	
Iron, Dissolved	680000 ug/L		250	1	02/11/14 15:05	02/12/14 12:05	7439-89-6	M1
Lead, Dissolved	77.6 ug/L		25.0	1	02/11/14 15:05	02/12/14 12:05	7439-92-1	
Nickel, Dissolved	102 ug/L		25.0	1	02/11/14 15:05	02/12/14 12:05	7440-02-0	D9
Selenium, Dissolved	ND ug/L		75.0	1	02/11/14 15:05	02/12/14 12:05	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	02/11/14 15:05	02/12/14 12:05	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	02/11/14 15:05	02/12/14 12:05	7440-28-0	
Zinc, Dissolved	6280 ug/L		500	2	02/11/14 15:05	02/12/14 12:08	7440-66-6	D9
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND ug/L		6.0	1	02/12/14 16:00	02/13/14 10:05	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	02/12/14 16:00	02/13/14 10:54	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	02/11/14 00:00	02/12/14 12:51	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	02/11/14 00:00	02/12/14 12:51	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	02/11/14 00:00	02/12/14 12:51	77-47-4	
Hexachloroethane	ND ug/L		1000	2	02/11/14 00:00	02/12/14 12:51	67-72-1	
Naphthalene	3670 ug/L		1000	2	02/11/14 00:00	02/12/14 12:51	91-20-3	
Nitrobenzene	ND ug/L		1000	2	02/11/14 00:00	02/12/14 12:51	98-95-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-214R4

Pace Project No.: 60162665

Sample: 316-214R4	Lab ID: 60162665001	Collected: 02/09/14 14:00	Received: 02/10/14 14:30	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	02/11/14 00:00	02/12/14 12:51	87-86-5	
Phenol	14000 ug/L		1000	2	02/11/14 00:00	02/12/14 12:51	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	02/11/14 00:00	02/12/14 12:51	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	02/11/14 00:00	02/12/14 12:51	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	200 %		33-120	2	02/11/14 00:00	02/12/14 12:51	4165-60-0	S0
2-Fluorobiphenyl (S)	96 %		39-120	2	02/11/14 00:00	02/12/14 12:51	321-60-8	
Terphenyl-d14 (S)	91 %		45-120	2	02/11/14 00:00	02/12/14 12:51	1718-51-0	
Phenol-d6 (S)	35 %		11-120	2	02/11/14 00:00	02/12/14 12:51	13127-88-3	
2-Fluorophenol (S)	52 %		17-120	2	02/11/14 00:00	02/12/14 12:51	367-12-4	
2,4,6-Tribromophenol (S)	109 %		39-120	2	02/11/14 00:00	02/12/14 12:51	118-79-6	
624 Volatile Organics								
Analytical Method: EPA 624 Low								
Acetone	160000 ug/L		2500	250		02/13/14 18:54	67-64-1	N2
Benzene	ND ug/L		200	200		02/11/14 16:27	71-43-2	
Bromodichloromethane	ND ug/L		200	200		02/11/14 16:27	75-27-4	
Bromoform	ND ug/L		200	200		02/11/14 16:27	75-25-2	
Bromomethane	ND ug/L		1000	200		02/11/14 16:27	74-83-9	
2-Butanone (MEK)	127000 ug/L		2000	200		02/11/14 16:27	78-93-3	N2
Carbon tetrachloride	ND ug/L		200	200		02/11/14 16:27	56-23-5	
Chloroethane	ND ug/L		200	200		02/11/14 16:27	75-00-3	
Chloroform	ND ug/L		200	200		02/11/14 16:27	67-66-3	
1,4-Dichlorobenzene	2290 ug/L		200	200		02/11/14 16:27	106-46-7	
1,2-Dichloroethane	ND ug/L		200	200		02/11/14 16:27	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200	200		02/11/14 16:27	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		200	200		02/11/14 16:27	156-60-5	
Ethylbenzene	467 ug/L		200	200		02/11/14 16:27	100-41-4	
Methylene chloride	ND ug/L		200	200		02/11/14 16:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	6360 ug/L		2000	200		02/11/14 16:27	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		02/11/14 16:27	79-34-5	N2
Tetrachloroethene	ND ug/L		200	200		02/11/14 16:27	127-18-4	
Toluene	ND ug/L		200	200		02/11/14 16:27	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		02/11/14 16:27	71-55-6	
1,1,2-Trichloroethane	791 ug/L		200	200		02/11/14 16:27	79-00-5	
Trichloroethene	ND ug/L		200	200		02/11/14 16:27	79-01-6	
Vinyl chloride	ND ug/L		200	200		02/11/14 16:27	75-01-4	
Xylene (Total)	1900 ug/L		600	200		02/11/14 16:27	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	96 %		80-120	200		02/11/14 16:27	460-00-4	
Toluene-d8 (S)	99 %		80-120	200		02/11/14 16:27	2037-26-5	
1,2-Dichloroethane-d4 (S)	97 %		80-120	200		02/11/14 16:27	17060-07-0	
Preservation pH	6.0		1.0	200		02/11/14 16:27		
HEM, Oil and Grease								
Analytical Method: EPA 1664A								
Oil and Grease	1550 mg/L		5.0	1		02/12/14 09:54		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-214R4

Pace Project No.: 60162665

Sample: 316-214R4		Lab ID: 60162665001	Collected: 02/09/14 14:00	Received: 02/10/14 14:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	34.8	mg/L	5.0	1		02/13/14 09:13		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	3860	mg/L	5.0	1		02/12/14 09:24		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4	Std. Units	0.10	1		02/11/14 14:13		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	30900	mg/L	2.0	1	02/10/14 17:15	02/15/14 12:32		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	664	mg/L	20.0	200		02/11/14 15:03	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	69200	mg/L	5000	500		02/17/14 11:42		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-214R4

Pace Project No.: 60162665

Sample: TRIP BLANK		Lab ID: 60162665002	Collected: 02/09/14 14:00	Received: 02/10/14 14:30	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		02/14/14 12:14	67-64-1	N2
Benzene	ND ug/L		1.0	1		02/11/14 16:43	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		02/11/14 16:43	75-27-4	
Bromoform	ND ug/L		1.0	1		02/11/14 16:43	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/11/14 16:43	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		02/11/14 16:43	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		02/11/14 16:43	56-23-5	
Chloroethane	ND ug/L		1.0	1		02/11/14 16:43	75-00-3	
Chloroform	ND ug/L		1.0	1		02/11/14 16:43	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		02/11/14 16:43	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		02/11/14 16:43	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		02/11/14 16:43	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		02/11/14 16:43	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		02/11/14 16:43	100-41-4	
Methylene chloride	ND ug/L		1.0	1		02/11/14 16:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		02/11/14 16:43	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		02/11/14 16:43	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		02/11/14 16:43	127-18-4	
Toluene	ND ug/L		1.0	1		02/11/14 16:43	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		02/11/14 16:43	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		02/11/14 16:43	79-00-5	
Trichloroethene	ND ug/L		1.0	1		02/11/14 16:43	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		02/11/14 16:43	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		02/11/14 16:43	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101 %		80-120	1		02/11/14 16:43	460-00-4	
Toluene-d8 (S)	100 %		80-120	1		02/11/14 16:43	2037-26-5	
1,2-Dichloroethane-d4 (S)	99 %		80-120	1		02/11/14 16:43	17060-07-0	
Preservation pH	6.0		1.0	1		02/11/14 16:43		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-214R4

Pace Project No.: 60162665

QC Batch:	MERP/8130	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60162665001		

METHOD BLANK: 1329221 Matrix: Water
Associated Lab Samples: 60162665001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/13/14 09:31	

LABORATORY CONTROL SAMPLE: 1329222

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1329223 1329224

Parameter	Units	60161465018		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Mercury	ug/L	8.2	5	5	5	13.5	13.4	106	105	70-130	0	20			

MATRIX SPIKE SAMPLE: 1329260

Parameter	Units	60162743001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.1	83	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-214R4

Pace Project No.: 60162665

QC Batch: MERP/8128

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60162665001

METHOD BLANK: 1329206

Matrix: Water

Associated Lab Samples: 60162665001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/13/14 10:36	

LABORATORY CONTROL SAMPLE: 1329207

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: 1329208 1329209

Parameter	Units	60162664001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Spike Conc.	MSD Result						
Mercury, Dissolved	ug/L	ND	150	150	98.1	98.7	65	66	70-130	1	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-214R4
Pace Project No.: 60162665

QC Batch: MPRP/26124 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60162665001

METHOD BLANK: 1328692 Matrix: Water
Associated Lab Samples: 60162665001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	02/12/14 11:06	
Antimony	ug/L	ND	10.0	02/12/14 11:06	
Arsenic	ug/L	ND	10.0	02/12/14 11:06	
Beryllium	ug/L	ND	1.0	02/12/14 11:06	
Cadmium	ug/L	ND	5.0	02/12/14 11:06	
Chromium	ug/L	ND	5.0	02/12/14 11:06	
Cobalt	ug/L	ND	5.0	02/12/14 11:06	
Copper	ug/L	ND	10.0	02/12/14 11:06	
Iron	ug/L	ND	50.0	02/12/14 11:06	
Lead	ug/L	ND	5.0	02/12/14 11:06	
Nickel	ug/L	ND	5.0	02/12/14 11:06	
Selenium	ug/L	ND	15.0	02/12/14 11:06	
Silver	ug/L	ND	7.0	02/12/14 11:06	
Thallium	ug/L	ND	20.0	02/12/14 11:06	
Zinc	ug/L	ND	50.0	02/12/14 11:06	

LABORATORY CONTROL SAMPLE: 1328693

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10000	100	85-115	
Antimony	ug/L	1000	1020	102	85-115	
Arsenic	ug/L	1000	968	97	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	999	100	85-115	
Chromium	ug/L	1000	996	100	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	1020	102	85-115	
Iron	ug/L	10000	9970	100	85-115	
Lead	ug/L	1000	1050	105	85-115	
Nickel	ug/L	1000	1040	104	85-115	
Selenium	ug/L	1000	1010	101	85-115	
Silver	ug/L	500	511	102	85-115	
Thallium	ug/L	1000	1040	104	85-115	
Zinc	ug/L	1000	991	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1328694 1328695

Parameter	Units	60162662001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum	ug/L	450	10000	10000	10600	10700	102	102	70-130	0	8		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-214R4

Pace Project No.: 60162665

Parameter	Units	60162662001		1328694		1328695		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Antimony	ug/L	ND	1000	1000	1030	1040	103	104	70-130	1	7			
Arsenic	ug/L	41.1	1000	1000	1040	1060	100	102	70-130	2	10			
Beryllium	ug/L	ND	1000	1000	1010	1000	101	100	70-130	0	7			
Cadmium	ug/L	ND	1000	1000	1020	1030	101	103	70-130	1	10			
Chromium	ug/L	9.1	1000	1000	976	984	97	97	70-130	1	10			
Cobalt	ug/L	11.5	1000	1000	999	1010	99	100	70-130	1	6			
Copper	ug/L	ND	1000	1000	1040	1040	103	103	70-130	0	11			
Iron	ug/L	22900	10000	10000	31800	32700	88	98	70-130	3	10			
Lead	ug/L	ND	1000	1000	985	989	98	98	70-130	0	10			
Nickel	ug/L	20.7	1000	1000	1020	1020	100	100	70-130	1	10			
Selenium	ug/L	ND	1000	1000	1060	1060	106	106	70-130	0	10			
Silver	ug/L	ND	500	500	514	514	103	103	70-130	0	10			
Thallium	ug/L	ND	1000	1000	943	954	94	95	70-130	1	6			
Zinc	ug/L	199	1000	1000	1140	1160	94	96	70-130	2	11			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-214R4
Pace Project No.: 60162665

QC Batch: MPRP/26125 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60162665001

METHOD BLANK: 1328696 Matrix: Water
Associated Lab Samples: 60162665001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	02/12/14 14:18	
Antimony, Dissolved	ug/L	ND	10.0	02/12/14 14:18	
Arsenic, Dissolved	ug/L	ND	10.0	02/12/14 14:18	
Beryllium, Dissolved	ug/L	ND	1.0	02/12/14 14:18	
Cadmium, Dissolved	ug/L	ND	5.0	02/12/14 14:18	
Chromium, Dissolved	ug/L	ND	5.0	02/12/14 14:18	
Cobalt, Dissolved	ug/L	ND	5.0	02/12/14 14:18	
Copper, Dissolved	ug/L	ND	10.0	02/12/14 14:18	
Iron, Dissolved	ug/L	ND	50.0	02/12/14 14:18	
Lead, Dissolved	ug/L	ND	5.0	02/12/14 14:18	
Nickel, Dissolved	ug/L	ND	5.0	02/12/14 14:18	
Selenium, Dissolved	ug/L	ND	15.0	02/12/14 14:18	
Silver, Dissolved	ug/L	ND	7.0	02/12/14 14:18	
Thallium, Dissolved	ug/L	ND	20.0	02/12/14 14:18	
Zinc, Dissolved	ug/L	ND	50.0	02/12/14 14:18	

LABORATORY CONTROL SAMPLE: 1328697

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9990	100	85-115	
Antimony, Dissolved	ug/L	1000	1020	102	85-115	
Arsenic, Dissolved	ug/L	1000	968	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	986	99	85-115	
Cobalt, Dissolved	ug/L	1000	1020	102	85-115	
Copper, Dissolved	ug/L	1000	1020	102	85-115	
Iron, Dissolved	ug/L	10000	9940	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	509	102	85-115	
Thallium, Dissolved	ug/L	1000	1050	105	85-115	
Zinc, Dissolved	ug/L	1000	995	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1328698 1328699

Parameter	Units	60162665001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum, Dissolved	ug/L	2510	50000	50000	53500	53600	102	102	70-130	0	8		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-214R4

Pace Project No.: 60162665

Parameter	Units	1328698		1328699		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		60162665001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Antimony, Dissolved	ug/L	54.8	5000	5000	5320	5390	105	107	70-130	1	7
Arsenic, Dissolved	ug/L	876	5000	5000	6140	6150	105	105	70-130	0	10
Beryllium, Dissolved	ug/L	ND	5000	5000	4870	4920	97	98	70-130	1	7
Cadmium, Dissolved	ug/L	ND	5000	5000	5240	5270	105	105	70-130	1	10
Chromium, Dissolved	ug/L	221	5000	5000	5040	5080	96	97	70-130	1	10
Cobalt, Dissolved	ug/L	39.3	5000	5000	4810	4860	95	96	70-130	1	6
Copper, Dissolved	ug/L	ND	5000	5000	5290	5360	105	107	70-130	1	11
Iron, Dissolved	ug/L	680000	50000	50000	672000	676000	-17	-8	70-130	1	10 M1
Lead, Dissolved	ug/L	77.6	5000	5000	4650	4690	92	92	70-130	1	10
Nickel, Dissolved	ug/L	102	5000	5000	4900	4950	96	97	70-130	1	10
Selenium, Dissolved	ug/L	ND	5000	5000	5840	5960	116	118	70-130	2	10
Silver, Dissolved	ug/L	ND	2500	2500	2690	2730	107	108	70-130	1	10
Thallium, Dissolved	ug/L	ND	5000	5000	4180	4210	84	84	70-130	1	6
Zinc, Dissolved	ug/L	6280	5000	5000	10500	10500	84	84	70-130	0	11

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-214R4

Pace Project No.: 60162665

QC Batch: MSV/59367 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60162665001, 60162665002

METHOD BLANK: 1328781

Matrix: Water

Associated Lab Samples: 60162665001, 60162665002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/11/14 15:08	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/11/14 15:08	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	02/11/14 15:08	
1,2-Dichloroethane	ug/L	ND	1.0	02/11/14 15:08	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/11/14 15:08	
2-Butanone (MEK)	ug/L	ND	10.0	02/11/14 15:08	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/11/14 15:08	N2
Benzene	ug/L	ND	1.0	02/11/14 15:08	
Bromodichloromethane	ug/L	ND	1.0	02/11/14 15:08	
Bromoform	ug/L	ND	1.0	02/11/14 15:08	
Bromomethane	ug/L	ND	5.0	02/11/14 15:08	
Carbon tetrachloride	ug/L	ND	1.0	02/11/14 15:08	
Chloroethane	ug/L	ND	1.0	02/11/14 15:08	
Chloroform	ug/L	ND	1.0	02/11/14 15:08	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/11/14 15:08	N2
Ethylbenzene	ug/L	ND	1.0	02/11/14 15:08	
Methylene chloride	ug/L	ND	1.0	02/11/14 15:08	
Tetrachloroethene	ug/L	ND	1.0	02/11/14 15:08	
Toluene	ug/L	ND	1.0	02/11/14 15:08	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/11/14 15:08	
Trichloroethene	ug/L	ND	1.0	02/11/14 15:08	
Vinyl chloride	ug/L	ND	1.0	02/11/14 15:08	
Xylene (Total)	ug/L	ND	3.0	02/11/14 15:08	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	02/11/14 15:08	
4-Bromofluorobenzene (S)	%	101	80-120	02/11/14 15:08	
Toluene-d8 (S)	%	101	80-120	02/11/14 15:08	

LABORATORY CONTROL SAMPLE: 1328782

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	17.7	89	59-138	N2
1,1,2-Trichloroethane	ug/L	20	17.2	86	69-127	
1,2-Dichloroethane	ug/L	20	17.9	90	71-129	
1,4-Dichlorobenzene	ug/L	20	18.5	93	68-124	
2-Butanone (MEK)	ug/L	100	83.9	84	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	88.2	88	61-120	N2
Benzene	ug/L	20	18.5	92	73-129	
Bromodichloromethane	ug/L	20	19.1	95	63-129	
Bromoform	ug/L	20	18.6	93	52-123	
Bromomethane	ug/L	20	17.0	85	10-160	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-214R4

Pace Project No.: 60162665

LABORATORY CONTROL SAMPLE: 1328782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	20	19.2	96	70-140	
Chloroethane	ug/L	20	18.1	91	42-160	
Chloroform	ug/L	20	19.0	95	60-120	
cis-1,2-Dichloroethene	ug/L	20	18.1	91	70-125	N2
Ethylbenzene	ug/L	20	18.8	94	66-133	
Methylene chloride	ug/L	20	19.0	95	56-135	
Tetrachloroethene	ug/L	20	19.3	96	64-143	
Toluene	ug/L	20	18.7	93	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.2	91	67-149	
Trichloroethene	ug/L	20	19.2	96	71-130	
Vinyl chloride	ug/L	20	17.7	89	41-160	
Xylene (Total)	ug/L	60	56.5	94	67-130	N2
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1328783

Parameter	Units	60162662001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	20	21.5	108	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	25.2	126	46-157	N2
1,1,2-Trichloroethane	ug/L	18.6	20	35.5	84	52-150	
1,2-Dichloroethane	ug/L	ND	20	24.3	121	49-155	
1,4-Dichlorobenzene	ug/L	34.1	20	54.4	101	18-147	
4-Methyl-2-pentanone (MIBK)	ug/L	137	100	224	87	40-160	N2
Benzene	ug/L	139	20	157	92	37-151	
Bromodichloromethane	ug/L	ND	20	20.4	102	35-155	
Bromoform	ug/L	ND	20	20.3	102	45-133	
Bromomethane	ug/L	ND	20	16.3	81	10-160	
Carbon tetrachloride	ug/L	ND	20	23.4	117	70-140	
Chloroethane	ug/L	ND	20	19.4	95	14-160	
Chloroform	ug/L	ND	20	20.7	104	51-138	
cis-1,2-Dichloroethene	ug/L	ND	20	19.6	98	19-160	N2
Ethylbenzene	ug/L	19.3	20	41.6	111	37-154	
Methylene chloride	ug/L	ND	20	18.5	93	15-156	
Tetrachloroethene	ug/L	ND	20	22.2	110	64-148	
Toluene	ug/L	31.2	20	52.1	104	47-150	
trans-1,2-Dichloroethene	ug/L	ND	20	20.1	101	54-156	
Trichloroethene	ug/L	ND	20	21.3	103	71-157	
Vinyl chloride	ug/L	ND	20	19.5	97	10-160	
Xylene (Total)	ug/L	64.2	60	132	113	12-153	N2
1,2-Dichloroethane-d4 (S)	%				96	80-120	
4-Bromofluorobenzene (S)	%				97	80-120	
Toluene-d8 (S)	%				99	80-120	
Preservation pH			6.0		6.0		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-214R4

Pace Project No.: 60162665

QC Batch:	MSV/59409	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60162665001		

METHOD BLANK: 1329764 Matrix: Water

Associated Lab Samples: 60162665001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acetone	ug/L	ND	10.0	02/13/14 18:09	N2
1,2-Dichloroethane-d4 (S)	%	98	80-120	02/13/14 18:09	
4-Bromofluorobenzene (S)	%	100	80-120	02/13/14 18:09	
Toluene-d8 (S)	%	98	80-120	02/13/14 18:09	

LABORATORY CONTROL SAMPLE: 1329765

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	100	72.3	72	40-160	N2
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1328783

Parameter	Units	60162662001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	5190	20000	18200	65	40-160	N2

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-214R4

Pace Project No.: 60162665

QC Batch:	MSV/59425	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60162665002		

METHOD BLANK: 1330132 Matrix: Water

Associated Lab Samples: 60162665002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acetone	ug/L	ND	10.0	02/14/14 11:44	N2
1,2-Dichloroethane-d4 (S)	%	96	80-120	02/14/14 11:44	
4-Bromofluorobenzene (S)	%	99	80-120	02/14/14 11:44	
Toluene-d8 (S)	%	102	80-120	02/14/14 11:44	

LABORATORY CONTROL SAMPLE: 1330133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	100	63.4	63	40-160	N2
1,2-Dichloroethane-d4 (S)	%			95	80-120	
4-Bromofluorobenzene (S)	%			96	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1330134

Parameter	Units	60162763001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	128000	20000	136000	41	40-160	N2
1,2-Dichloroethane-d4 (S)	%				96	80-120	
4-Bromofluorobenzene (S)	%				97	80-120	
Toluene-d8 (S)	%				101	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-214R4
Pace Project No.: 60162665

QC Batch: OEXT/42667 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60162665001

METHOD BLANK: 1328394 Matrix: Water
Associated Lab Samples: 60162665001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/12/14 09:24	
2,4,6-Trichlorophenol	ug/L	ND	5.0	02/12/14 09:24	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	02/12/14 09:24	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/12/14 09:24	
Hexachlorocyclopentadiene	ug/L	ND	5.0	02/12/14 09:24	
Hexachloroethane	ug/L	ND	5.0	02/12/14 09:24	
Naphthalene	ug/L	ND	5.0	02/12/14 09:24	
Nitrobenzene	ug/L	ND	5.0	02/12/14 09:24	
Pentachlorophenol	ug/L	ND	5.0	02/12/14 09:24	
Phenol	ug/L	ND	5.0	02/12/14 09:24	
2,4,6-Tribromophenol (S)	%	90	39-120	02/12/14 09:24	
2-Fluorobiphenyl (S)	%	90	39-120	02/12/14 09:24	
2-Fluorophenol (S)	%	44	17-120	02/12/14 09:24	
Nitrobenzene-d5 (S)	%	84	33-120	02/12/14 09:24	
Phenol-d6 (S)	%	28	11-120	02/12/14 09:24	
Terphenyl-d14 (S)	%	94	45-120	02/12/14 09:24	

LABORATORY CONTROL SAMPLE: 1328395

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	41.5	83	46-120	
2,4,6-Trichlorophenol	ug/L	50	43.7	87	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	52.7	105	40-133	
Hexachloro-1,3-butadiene	ug/L	50	40.4	81	44-116	
Hexachlorocyclopentadiene	ug/L	100	67.0	67	24-120	
Hexachloroethane	ug/L	50	38.6	77	43-113	
Naphthalene	ug/L	50	42.5	85	48-120	
Nitrobenzene	ug/L	50	43.4	87	48-120	
Pentachlorophenol	ug/L	50	46.7	93	47-120	
Phenol	ug/L	50	13.6	27	16-112	
2,4,6-Tribromophenol (S)	%			98	39-120	
2-Fluorobiphenyl (S)	%			85	39-120	
2-Fluorophenol (S)	%			40	17-120	
Nitrobenzene-d5 (S)	%			85	33-120	
Phenol-d6 (S)	%			26	11-120	
Terphenyl-d14 (S)	%			85	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-214R4

Pace Project No.: 60162665

MATRIX SPIKE SAMPLE:		1328396		60162666001		Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Result	% Rec	Limits	Qualifiers	
1,2,4-Trichlorobenzene	ug/L	ND	5000	4340	87			44-120		
2,4,6-Trichlorophenol	ug/L	ND	5000	4980	100			50-120		
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	5980	120			10-160		
Hexachloro-1,3-butadiene	ug/L	ND	5000	4300	86			39-116		
Hexachlorocyclopentadiene	ug/L	ND	10000	7870	79			11-120		
Hexachloroethane	ug/L	ND	5000	3940	79			40-113		
Naphthalene	ug/L	ND	5000	4710	86			45-120		
Nitrobenzene	ug/L	ND	5000	7940	159			38-120	M1	
Pentachlorophenol	ug/L	ND	5000	5300	106			43-135		
Phenol	ug/L	10100	5000	13900	75			13-112		
2,4,6-Tribromophenol (S)	%				110			39-120		
2-Fluorobiphenyl (S)	%				90			39-120		
2-Fluorophenol (S)	%				48			17-120		
Nitrobenzene-d5 (S)	%				193			33-120	S0	
Phenol-d6 (S)	%				35			11-120		
Terphenyl-d14 (S)	%				92			45-120		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-214R4

Pace Project No.: 60162665

QC Batch:	WET/46092	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60162665001		

METHOD BLANK: 1328952 Matrix: Water

Associated Lab Samples: 60162665001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/12/14 09:52	

LABORATORY CONTROL SAMPLE: 1328953

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	31.4	78	78-114	

MATRIX SPIKE SAMPLE: 1328954

Parameter	Units	60162662001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	160	164	102	78-114	

SAMPLE DUPLICATE: 1328955

Parameter	Units	60162664001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1170	1170	0	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-214R4

Pace Project No.: 60162665

QC Batch:	WET/46119	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60162665001		

METHOD BLANK: 1329416 Matrix: Water
Associated Lab Samples: 60162665001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	02/13/14 09:11	

LABORATORY CONTROL SAMPLE: 1329417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	21.7	108	64-132	

MATRIX SPIKE SAMPLE: 1329418

Parameter	Units	60162662001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	80	61.6	76	64-132	

SAMPLE DUPLICATE: 1329419

Parameter	Units	60162664001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	11.6	15.6	29	34	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-214R4

Pace Project No.: 60162665

QC Batch:	WET/46094	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	60162665001		

METHOD BLANK: 1329003 Matrix: Water

Associated Lab Samples: 60162665001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	02/12/14 09:22	

SAMPLE DUPLICATE: 1329004

Parameter	Units	60162708001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	144	133	8	10	

SAMPLE DUPLICATE: 1329005

Parameter	Units	60162605003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2460	2440	1	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-214R4

Pace Project No.: 60162665

QC Batch: WET/46076 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60162665001

SAMPLE DUPLICATE: 1328664

Parameter	Units	60162700001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.0	8.1	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-214R4

Pace Project No.: 60162665

QC Batch: WET/46066

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60162665001

METHOD BLANK: 1328332

Matrix: Water

Associated Lab Samples: 60162665001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	02/15/14 12:21	

LABORATORY CONTROL SAMPLE: 1328333

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	194	98	85-115	

SAMPLE DUPLICATE: 1328334

Parameter	Units	60162656001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	820	861	5	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-214R4

Pace Project No.: 60162665

QC Batch:	WETA/28151	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60162665001		

METHOD BLANK: 1328491 Matrix: Water
Associated Lab Samples: 60162665001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/11/14 14:33	

LABORATORY CONTROL SAMPLE: 1328492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.2	108	90-110	

MATRIX SPIKE SAMPLE: 1328493

Parameter	Units	60162544002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.9	95	90-110	

MATRIX SPIKE SAMPLE: 1328494

Parameter	Units	60162551001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.30	2	2.2	93	90-110	

SAMPLE DUPLICATE: 1328495

Parameter	Units	60162553002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	.04J		18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-214R4

Pace Project No.: 60162665

QC Batch:	WETA/28196	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60162665001		

METHOD BLANK: 1330094 Matrix: Water

Associated Lab Samples: 60162665001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/17/14 11:32	

LABORATORY CONTROL SAMPLE: 1330095

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	52.6	105	90-110	

MATRIX SPIKE SAMPLE: 1330096

Parameter	Units	60162472005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	3180	2500	5630	98	90-110	

MATRIX SPIKE SAMPLE: 1330098

Parameter	Units	60162605001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	10900	5000	15400	91	90-110	

SAMPLE DUPLICATE: 1330097

Parameter	Units	60162524002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	3880	4010	3	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-214R4

Pace Project No.: 60162665

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-214R4

Pace Project No.: 60162665

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60162665001	316-214R4	EPA 200.7	MPRP/26124	EPA 200.7	ICP/19969
60162665001	316-214R4	EPA 200.7	MPRP/26125	EPA 200.7	ICP/19968
60162665001	316-214R4	EPA 245.1	MERP/8130	EPA 245.1	MERC/8084
60162665001	316-214R4	EPA 245.1	MERP/8128	EPA 245.1	MERC/8085
60162665001	316-214R4	EPA 625	OEXT/42667	EPA 625	MSSV/13581
60162665001	316-214R4	EPA 624 Low	MSV/59367		
60162665001	316-214R4	EPA 624 Low	MSV/59409		
60162665002	TRIP BLANK	EPA 624 Low	MSV/59367		
60162665002	TRIP BLANK	EPA 624 Low	MSV/59425		
60162665001	316-214R4	EPA 1664A	WET/46092		
60162665001	316-214R4	EPA 1664A	WET/46119		
60162665001	316-214R4	SM 2540D	WET/46094		
60162665001	316-214R4	SM 4500-H+B	WET/46076		
60162665001	316-214R4	SM 5210B	WET/46066	SM 5210B	WET/46160
60162665001	316-214R4	EPA 350.1	WETA/28151		
60162665001	316-214R4	EPA 410.4	WETA/28196		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO# : 60162665

 60162665

Client Name: BARR

Courier: Fed Ex UPS USPS Client Commercial Pace Other 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 Rip L

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

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: 2/10/14

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOO, PL</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses	Matrix: <u>wt</u>	13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>Added hno3 to 316-21484 BP2N 6/2/10</u> <u>Added h2so4 (20) to 316-21484 BP3S 6/2/10</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: <u>VOA</u> , coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>S</u> Lot # of added preservative: <u>12513 / 12514</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased):		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MO</u>

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 2/12/14



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: 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		

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	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	Preservatives							Y/N	Requested Analysis Filtered (Y/N)															
						START		END			# OF CONTAINERS	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	OIG EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM2540D	TPH/HM-SGT 1664	BOD SM 5210B	Residual Chlorine (Y/N)	
						DATE	TIME	DATE	TIME																									
1	316-21484 2(A644) 5(D644)			OT	G	2/9/14	1900	2/9/14	1900	14	10	4	1	0				X	X	X	X	X	X	X	X	X	X	X	X	X	3 AG 75	60162065	2(BP24) BP24, BP24, BP25, BP25	
2	TRIP BLANK									2	2																							
3																																		
4																																		
5																																		
6																																		
7																																		
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	Sam Brocher/Feezor	2/10/14	910	Bob Stone 412	2/10/14	10:14				
SITE ADDRESS: BRIDGETON LF				Ande Mckay/PASI	2/10/14	1430	1.4	4	N	4
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:			DATE Signed:				
SIGNATURE of SAMPLER:							

Signature: Andrew Roberts

DATE Signed: 2/9/14

February 17, 2014

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

RE: Project: BRIDGETON LF 314-MSD
Pace Project No.: 60162666

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 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 314-MSD

Pace Project No.: 60162666

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 314-MSD

Pace Project No.: 60162666

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60162666001	314-MSD	Water	02/09/14 06:00	02/10/14 14:30
60162666002	TRIP BLANK	Water	02/09/14 06:00	02/10/14 14:30

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 314-MSD

Pace Project No.: 60162666

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60162666001	314-MSD	EPA 200.7	TJT	15
		EPA 200.7	TJT	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	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
		60162666002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 314-MSD

Pace Project No.: 60162666

Sample: 314-MSD		Lab ID: 60162666001	Collected: 02/09/14 06:00	Received: 02/10/14 14:30	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	18100	ug/L	750	2	02/11/14 15:05	02/12/14 11:38	7429-90-5	
Antimony	114	ug/L	50.0	1	02/11/14 15:05	02/12/14 11:35	7440-36-0	
Arsenic	943	ug/L	50.0	1	02/11/14 15:05	02/12/14 11:35	7440-38-2	
Beryllium	ND	ug/L	5.0	1	02/11/14 15:05	02/12/14 11:35	7440-41-7	
Cadmium	ND	ug/L	25.0	1	02/11/14 15:05	02/12/14 11:35	7440-43-9	
Chromium	314	ug/L	25.0	1	02/11/14 15:05	02/12/14 11:35	7440-47-3	
Cobalt	48.8	ug/L	25.0	1	02/11/14 15:05	02/12/14 11:35	7440-48-4	
Copper	103	ug/L	50.0	1	02/11/14 15:05	02/12/14 11:35	7440-50-8	
Iron	975000	ug/L	250	1	02/11/14 15:05	02/12/14 11:35	7439-89-6	
Lead	133	ug/L	25.0	1	02/11/14 15:05	02/12/14 11:35	7439-92-1	
Nickel	170	ug/L	25.0	1	02/11/14 15:05	02/12/14 11:35	7440-02-0	
Selenium	ND	ug/L	75.0	1	02/11/14 15:05	02/12/14 11:35	7782-49-2	
Silver	ND	ug/L	35.0	1	02/11/14 15:05	02/12/14 11:35	7440-22-4	
Thallium	ND	ug/L	100	1	02/11/14 15:05	02/12/14 11:35	7440-28-0	
Zinc	6380	ug/L	500	2	02/11/14 15:05	02/12/14 11:38	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	2180	ug/L	750	2	02/11/14 15:05	02/12/14 12:26	7429-90-5	
Antimony, Dissolved	81.8	ug/L	50.0	1	02/11/14 15:05	02/12/14 12:23	7440-36-0	
Arsenic, Dissolved	662	ug/L	50.0	1	02/11/14 15:05	02/12/14 12:23	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	02/11/14 15:05	02/12/14 12:23	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	02/11/14 15:05	02/12/14 12:23	7440-43-9	
Chromium, Dissolved	202	ug/L	25.0	1	02/11/14 15:05	02/12/14 12:23	7440-47-3	
Cobalt, Dissolved	26.2	ug/L	25.0	1	02/11/14 15:05	02/12/14 12:23	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	02/11/14 15:05	02/12/14 12:23	7440-50-8	
Iron, Dissolved	566000	ug/L	250	1	02/11/14 15:05	02/12/14 12:23	7439-89-6	
Lead, Dissolved	39.6	ug/L	25.0	1	02/11/14 15:05	02/12/14 12:23	7439-92-1	
Nickel, Dissolved	110	ug/L	25.0	1	02/11/14 15:05	02/12/14 12:23	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	02/11/14 15:05	02/12/14 12:23	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	02/11/14 15:05	02/12/14 12:23	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	02/11/14 15:05	02/12/14 12:23	7440-28-0	
Zinc, Dissolved	4740	ug/L	500	2	02/11/14 15:05	02/12/14 12:26	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	15.3	ug/L	6.0	1	02/12/14 16:00	02/13/14 10:07	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	02/12/14 16:00	02/13/14 10:56	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Phenol	10100	ug/L	1000	2	02/11/14 00:00	02/12/14 13:12	108-95-2	
Nitrobenzene	ND	ug/L	1000	2	02/11/14 00:00	02/12/14 13:12	98-95-3	M1
1,2,4-Trichlorobenzene	ND	ug/L	1000	2	02/11/14 00:00	02/12/14 13:12	120-82-1	
Naphthalene	ND	ug/L	1000	2	02/11/14 00:00	02/12/14 13:12	91-20-3	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	02/11/14 00:00	02/12/14 13:12	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	02/11/14 00:00	02/12/14 13:12	77-47-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 314-MSD

Pace Project No.: 60162666

Sample: 314-MSD		Lab ID: 60162666001	Collected: 02/09/14 06:00	Received: 02/10/14 14:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
2,4,6-Trichlorophenol	ND ug/L		1000	2	02/11/14 00:00	02/12/14 13:12	88-06-2	
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	02/11/14 00:00	02/12/14 13:12	534-52-1	
Pentachlorophenol	ND ug/L		1000	2	02/11/14 00:00	02/12/14 13:12	87-86-5	
Hexachloroethane	ND ug/L		1000	2	02/11/14 00:00	02/12/14 13:12	67-72-1	
Surrogates								
Nitrobenzene-d5 (S)	171 %		33-120	2	02/11/14 00:00	02/12/14 13:12	4165-60-0	S0
2-Fluorobiphenyl (S)	87 %		39-120	2	02/11/14 00:00	02/12/14 13:12	321-60-8	
Terphenyl-d14 (S)	82 %		45-120	2	02/11/14 00:00	02/12/14 13:12	1718-51-0	
Phenol-d6 (S)	32 %		11-120	2	02/11/14 00:00	02/12/14 13:12	13127-88-3	
2-Fluorophenol (S)	45 %		17-120	2	02/11/14 00:00	02/12/14 13:12	367-12-4	
2,4,6-Tribromophenol (S)	101 %		39-120	2	02/11/14 00:00	02/12/14 13:12	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	144000 ug/L		2000	200		02/11/14 16:58	67-64-1	N2
Benzene	ND ug/L		200	200		02/11/14 16:58	71-43-2	
Bromodichloromethane	ND ug/L		200	200		02/11/14 16:58	75-27-4	
Bromoform	ND ug/L		200	200		02/11/14 16:58	75-25-2	
Bromomethane	ND ug/L		1000	200		02/11/14 16:58	74-83-9	
2-Butanone (MEK)	78100 ug/L		2000	200		02/11/14 16:58	78-93-3	N2
Carbon tetrachloride	ND ug/L		200	200		02/11/14 16:58	56-23-5	
Chloroethane	ND ug/L		200	200		02/11/14 16:58	75-00-3	
Chloroform	ND ug/L		200	200		02/11/14 16:58	67-66-3	
1,4-Dichlorobenzene	ND ug/L		200	200		02/11/14 16:58	106-46-7	
1,2-Dichloroethane	ND ug/L		200	200		02/11/14 16:58	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200	200		02/11/14 16:58	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		200	200		02/11/14 16:58	156-60-5	
Ethylbenzene	ND ug/L		200	200		02/11/14 16:58	100-41-4	
Methylene chloride	ND ug/L		200	200		02/11/14 16:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2000	200		02/11/14 16:58	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		02/11/14 16:58	79-34-5	N2
Tetrachloroethene	ND ug/L		200	200		02/11/14 16:58	127-18-4	
Toluene	ND ug/L		200	200		02/11/14 16:58	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		02/11/14 16:58	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		02/11/14 16:58	79-00-5	
Trichloroethene	ND ug/L		200	200		02/11/14 16:58	79-01-6	
Vinyl chloride	ND ug/L		200	200		02/11/14 16:58	75-01-4	
Xylene (Total)	ND ug/L		600	200		02/11/14 16:58	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101 %		80-120	200		02/11/14 16:58	460-00-4	
Toluene-d8 (S)	100 %		80-120	200		02/11/14 16:58	2037-26-5	
1,2-Dichloroethane-d4 (S)	96 %		80-120	200		02/11/14 16:58	17060-07-0	
Preservation pH	6.0		1.0	200		02/11/14 16:58		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	387 mg/L		5.0	1		02/12/14 09:54		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 314-MSD

Pace Project No.: 60162666

Sample: 314-MSD		Lab ID: 60162666001	Collected: 02/09/14 06:00	Received: 02/10/14 14:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	35.8	mg/L	5.0	1		02/13/14 09:13		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	5460	mg/L	5.0	1		02/12/14 09:24		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.4	Std. Units	0.10	1		02/11/14 14:13		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	30000	mg/L	2.0	1	02/10/14 17:10	02/15/14 12:31		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	595	mg/L	20.0	200		02/11/14 15:05	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	70300	mg/L	5000	500		02/17/14 11:46		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 314-MSD

Pace Project No.: 60162666

Sample: TRIP BLANK		Lab ID: 60162666002	Collected: 02/09/14 06:00	Received: 02/10/14 14:30	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		02/11/14 17:13	67-64-1	N2
Benzene	ND ug/L		1.0	1		02/11/14 17:13	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		02/11/14 17:13	75-27-4	
Bromoform	ND ug/L		1.0	1		02/11/14 17:13	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/11/14 17:13	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		02/11/14 17:13	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		02/11/14 17:13	56-23-5	
Chloroethane	ND ug/L		1.0	1		02/11/14 17:13	75-00-3	
Chloroform	ND ug/L		1.0	1		02/11/14 17:13	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		02/11/14 17:13	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		02/11/14 17:13	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		02/11/14 17:13	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		02/11/14 17:13	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		02/11/14 17:13	100-41-4	
Methylene chloride	ND ug/L		1.0	1		02/11/14 17:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		02/11/14 17:13	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		02/11/14 17:13	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		02/11/14 17:13	127-18-4	
Toluene	ND ug/L		1.0	1		02/11/14 17:13	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		02/11/14 17:13	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		02/11/14 17:13	79-00-5	
Trichloroethene	ND ug/L		1.0	1		02/11/14 17:13	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		02/11/14 17:13	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		02/11/14 17:13	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101 %		80-120	1		02/11/14 17:13	460-00-4	
Toluene-d8 (S)	100 %		80-120	1		02/11/14 17:13	2037-26-5	
1,2-Dichloroethane-d4 (S)	98 %		80-120	1		02/11/14 17:13	17060-07-0	
Preservation pH	6.0		1.0	1		02/11/14 17:13		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 314-MSD
Pace Project No.: 60162666

QC Batch: MERP/8130 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 60162666001

METHOD BLANK: 1329221 Matrix: Water
Associated Lab Samples: 60162666001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/13/14 09:31	

LABORATORY CONTROL SAMPLE: 1329222

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1329223 1329224

Parameter	Units	60161465018		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Mercury	ug/L	8.2	5	5	5	13.5	13.4	106	105	70-130	0	20			

MATRIX SPIKE SAMPLE: 1329260

Parameter	Units	60162743001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.1	83	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 314-MSD

Pace Project No.: 60162666

QC Batch: MERP/8128

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60162666001

METHOD BLANK: 1329206

Matrix: Water

Associated Lab Samples: 60162666001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/13/14 10:36	

LABORATORY CONTROL SAMPLE: 1329207

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: 1329208 1329209

Parameter	Units	60162664001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Mercury, Dissolved	ug/L	ND	150	150	98.1	98.7	65	66	70-130	1	20	M1

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 314-MSD
Pace Project No.: 60162666

QC Batch: MPRP/26124 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60162666001

METHOD BLANK: 1328692 Matrix: Water
Associated Lab Samples: 60162666001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	02/12/14 11:06	
Antimony	ug/L	ND	10.0	02/12/14 11:06	
Arsenic	ug/L	ND	10.0	02/12/14 11:06	
Beryllium	ug/L	ND	1.0	02/12/14 11:06	
Cadmium	ug/L	ND	5.0	02/12/14 11:06	
Chromium	ug/L	ND	5.0	02/12/14 11:06	
Cobalt	ug/L	ND	5.0	02/12/14 11:06	
Copper	ug/L	ND	10.0	02/12/14 11:06	
Iron	ug/L	ND	50.0	02/12/14 11:06	
Lead	ug/L	ND	5.0	02/12/14 11:06	
Nickel	ug/L	ND	5.0	02/12/14 11:06	
Selenium	ug/L	ND	15.0	02/12/14 11:06	
Silver	ug/L	ND	7.0	02/12/14 11:06	
Thallium	ug/L	ND	20.0	02/12/14 11:06	
Zinc	ug/L	ND	50.0	02/12/14 11:06	

LABORATORY CONTROL SAMPLE: 1328693

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10000	100	85-115	
Antimony	ug/L	1000	1020	102	85-115	
Arsenic	ug/L	1000	968	97	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	999	100	85-115	
Chromium	ug/L	1000	996	100	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	1020	102	85-115	
Iron	ug/L	10000	9970	100	85-115	
Lead	ug/L	1000	1050	105	85-115	
Nickel	ug/L	1000	1040	104	85-115	
Selenium	ug/L	1000	1010	101	85-115	
Silver	ug/L	500	511	102	85-115	
Thallium	ug/L	1000	1040	104	85-115	
Zinc	ug/L	1000	991	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1328694 1328695

Parameter	Units	60162662001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum	ug/L	450	10000	10000	10600	10700	102	102	70-130	0	8		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 314-MSD

Pace Project No.: 60162666

Parameter	Units	60162662001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max	RPD	Qual
		Result	Conc.	Spike	Conc.	Result	Result	% Rec	% Rec								
Antimony	ug/L	ND	1000	1000	1000	1030	1040	103	104	70-130	1	7					
Arsenic	ug/L	41.1	1000	1000	1000	1040	1060	100	102	70-130	2	10					
Beryllium	ug/L	ND	1000	1000	1000	1010	1000	101	100	70-130	0	7					
Cadmium	ug/L	ND	1000	1000	1000	1020	1030	101	103	70-130	1	10					
Chromium	ug/L	9.1	1000	1000	1000	976	984	97	97	70-130	1	10					
Cobalt	ug/L	11.5	1000	1000	1000	999	1010	99	100	70-130	1	6					
Copper	ug/L	ND	1000	1000	1000	1040	1040	103	103	70-130	0	11					
Iron	ug/L	22900	10000	10000	10000	31800	32700	88	98	70-130	3	10					
Lead	ug/L	ND	1000	1000	1000	985	989	98	98	70-130	0	10					
Nickel	ug/L	20.7	1000	1000	1000	1020	1020	100	100	70-130	1	10					
Selenium	ug/L	ND	1000	1000	1000	1060	1060	106	106	70-130	0	10					
Silver	ug/L	ND	500	500	500	514	514	103	103	70-130	0	10					
Thallium	ug/L	ND	1000	1000	1000	943	954	94	95	70-130	1	6					
Zinc	ug/L	199	1000	1000	1000	1140	1160	94	96	70-130	2	11					

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 314-MSD
Pace Project No.: 60162666

QC Batch: MPRP/26125 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60162666001

METHOD BLANK: 1328696 Matrix: Water
Associated Lab Samples: 60162666001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	02/12/14 14:18	
Antimony, Dissolved	ug/L	ND	10.0	02/12/14 14:18	
Arsenic, Dissolved	ug/L	ND	10.0	02/12/14 14:18	
Beryllium, Dissolved	ug/L	ND	1.0	02/12/14 14:18	
Cadmium, Dissolved	ug/L	ND	5.0	02/12/14 14:18	
Chromium, Dissolved	ug/L	ND	5.0	02/12/14 14:18	
Cobalt, Dissolved	ug/L	ND	5.0	02/12/14 14:18	
Copper, Dissolved	ug/L	ND	10.0	02/12/14 14:18	
Iron, Dissolved	ug/L	ND	50.0	02/12/14 14:18	
Lead, Dissolved	ug/L	ND	5.0	02/12/14 14:18	
Nickel, Dissolved	ug/L	ND	5.0	02/12/14 14:18	
Selenium, Dissolved	ug/L	ND	15.0	02/12/14 14:18	
Silver, Dissolved	ug/L	ND	7.0	02/12/14 14:18	
Thallium, Dissolved	ug/L	ND	20.0	02/12/14 14:18	
Zinc, Dissolved	ug/L	ND	50.0	02/12/14 14:18	

LABORATORY CONTROL SAMPLE: 1328697

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9990	100	85-115	
Antimony, Dissolved	ug/L	1000	1020	102	85-115	
Arsenic, Dissolved	ug/L	1000	968	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	986	99	85-115	
Cobalt, Dissolved	ug/L	1000	1020	102	85-115	
Copper, Dissolved	ug/L	1000	1020	102	85-115	
Iron, Dissolved	ug/L	10000	9940	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	509	102	85-115	
Thallium, Dissolved	ug/L	1000	1050	105	85-115	
Zinc, Dissolved	ug/L	1000	995	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1328698 1328699

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result						
Aluminum, Dissolved	ug/L	2510	50000	50000	53500	102	102	70-130	0	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 314-MSD

Pace Project No.: 60162666

Parameter	Units	1328698		1328699		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		60162665001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Antimony, Dissolved	ug/L	54.8	5000	5000	5320	5390	105	107	70-130	1	7		
Arsenic, Dissolved	ug/L	876	5000	5000	6140	6150	105	105	70-130	0	10		
Beryllium, Dissolved	ug/L	ND	5000	5000	4870	4920	97	98	70-130	1	7		
Cadmium, Dissolved	ug/L	ND	5000	5000	5240	5270	105	105	70-130	1	10		
Chromium, Dissolved	ug/L	221	5000	5000	5040	5080	96	97	70-130	1	10		
Cobalt, Dissolved	ug/L	39.3	5000	5000	4810	4860	95	96	70-130	1	6		
Copper, Dissolved	ug/L	ND	5000	5000	5290	5360	105	107	70-130	1	11		
Iron, Dissolved	ug/L	680000	50000	50000	672000	676000	-17	-8	70-130	1	10	M1	
Lead, Dissolved	ug/L	77.6	5000	5000	4650	4690	92	92	70-130	1	10		
Nickel, Dissolved	ug/L	102	5000	5000	4900	4950	96	97	70-130	1	10		
Selenium, Dissolved	ug/L	ND	5000	5000	5840	5960	116	118	70-130	2	10		
Silver, Dissolved	ug/L	ND	2500	2500	2690	2730	107	108	70-130	1	10		
Thallium, Dissolved	ug/L	ND	5000	5000	4180	4210	84	84	70-130	1	6		
Zinc, Dissolved	ug/L	6280	5000	5000	10500	10500	84	84	70-130	0	11		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 314-MSD

Pace Project No.: 60162666

QC Batch: MSV/59367 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60162666001, 60162666002

METHOD BLANK: 1328781

Matrix: Water

Associated Lab Samples: 60162666001, 60162666002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/11/14 15:08	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/11/14 15:08	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	02/11/14 15:08	
1,2-Dichloroethane	ug/L	ND	1.0	02/11/14 15:08	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/11/14 15:08	
2-Butanone (MEK)	ug/L	ND	10.0	02/11/14 15:08	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/11/14 15:08	N2
Acetone	ug/L	ND	10.0	02/11/14 15:08	N2
Benzene	ug/L	ND	1.0	02/11/14 15:08	
Bromodichloromethane	ug/L	ND	1.0	02/11/14 15:08	
Bromoform	ug/L	ND	1.0	02/11/14 15:08	
Bromomethane	ug/L	ND	5.0	02/11/14 15:08	
Carbon tetrachloride	ug/L	ND	1.0	02/11/14 15:08	
Chloroethane	ug/L	ND	1.0	02/11/14 15:08	
Chloroform	ug/L	ND	1.0	02/11/14 15:08	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/11/14 15:08	N2
Ethylbenzene	ug/L	ND	1.0	02/11/14 15:08	
Methylene chloride	ug/L	ND	1.0	02/11/14 15:08	
Tetrachloroethene	ug/L	ND	1.0	02/11/14 15:08	
Toluene	ug/L	ND	1.0	02/11/14 15:08	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/11/14 15:08	
Trichloroethene	ug/L	ND	1.0	02/11/14 15:08	
Vinyl chloride	ug/L	ND	1.0	02/11/14 15:08	
Xylene (Total)	ug/L	ND	3.0	02/11/14 15:08	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	02/11/14 15:08	
4-Bromofluorobenzene (S)	%	101	80-120	02/11/14 15:08	
Toluene-d8 (S)	%	101	80-120	02/11/14 15:08	

LABORATORY CONTROL SAMPLE: 1328782

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	17.7	89	59-138	N2
1,1,2-Trichloroethane	ug/L	20	17.2	86	69-127	
1,2-Dichloroethane	ug/L	20	17.9	90	71-129	
1,4-Dichlorobenzene	ug/L	20	18.5	93	68-124	
2-Butanone (MEK)	ug/L	100	83.9	84	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	88.2	88	61-120	N2
Acetone	ug/L	100	80.7	81	40-160	N2
Benzene	ug/L	20	18.5	92	73-129	
Bromodichloromethane	ug/L	20	19.1	95	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 314-MSD

Pace Project No.: 60162666

LABORATORY CONTROL SAMPLE: 1328782

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	18.6	93	52-123	
Bromomethane	ug/L	20	17.0	85	10-160	
Carbon tetrachloride	ug/L	20	19.2	96	70-140	
Chloroethane	ug/L	20	18.1	91	42-160	
Chloroform	ug/L	20	19.0	95	60-120	
cis-1,2-Dichloroethene	ug/L	20	18.1	91	70-125	N2
Ethylbenzene	ug/L	20	18.8	94	66-133	
Methylene chloride	ug/L	20	19.0	95	56-135	
Tetrachloroethene	ug/L	20	19.3	96	64-143	
Toluene	ug/L	20	18.7	93	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.2	91	67-149	
Trichloroethene	ug/L	20	19.2	96	71-130	
Vinyl chloride	ug/L	20	17.7	89	41-160	
Xylene (Total)	ug/L	60	56.5	94	67-130	N2
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1328783

Parameter	Units	60162662001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	20	21.5	108	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	25.2	126	46-157	N2
1,1,2-Trichloroethane	ug/L	18.6	20	35.5	84	52-150	
1,2-Dichloroethane	ug/L	ND	20	24.3	121	49-155	
1,4-Dichlorobenzene	ug/L	34.1	20	54.4	101	18-147	
4-Methyl-2-pentanone (MIBK)	ug/L	137	100	224	87	40-160	N2
Benzene	ug/L	139	20	157	92	37-151	
Bromodichloromethane	ug/L	ND	20	20.4	102	35-155	
Bromoform	ug/L	ND	20	20.3	102	45-133	
Bromomethane	ug/L	ND	20	16.3	81	10-160	
Carbon tetrachloride	ug/L	ND	20	23.4	117	70-140	
Chloroethane	ug/L	ND	20	19.4	95	14-160	
Chloroform	ug/L	ND	20	20.7	104	51-138	
cis-1,2-Dichloroethene	ug/L	ND	20	19.6	98	19-160	N2
Ethylbenzene	ug/L	19.3	20	41.6	111	37-154	
Methylene chloride	ug/L	ND	20	18.5	93	15-156	
Tetrachloroethene	ug/L	ND	20	22.2	110	64-148	
Toluene	ug/L	31.2	20	52.1	104	47-150	
trans-1,2-Dichloroethene	ug/L	ND	20	20.1	101	54-156	
Trichloroethene	ug/L	ND	20	21.3	103	71-157	
Vinyl chloride	ug/L	ND	20	19.5	97	10-160	
Xylene (Total)	ug/L	64.2	60	132	113	12-153	N2
1,2-Dichloroethane-d4 (S)	%				96	80-120	
4-Bromofluorobenzene (S)	%				97	80-120	
Toluene-d8 (S)	%				99	80-120	
Preservation pH			6.0		6.0		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 314-MSD
Pace Project No.: 60162666

QC Batch: OEXT/42667 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60162666001

METHOD BLANK: 1328394 Matrix: Water
Associated Lab Samples: 60162666001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/12/14 09:24	
2,4,6-Trichlorophenol	ug/L	ND	5.0	02/12/14 09:24	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	02/12/14 09:24	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/12/14 09:24	
Hexachlorocyclopentadiene	ug/L	ND	5.0	02/12/14 09:24	
Hexachloroethane	ug/L	ND	5.0	02/12/14 09:24	
Naphthalene	ug/L	ND	5.0	02/12/14 09:24	
Nitrobenzene	ug/L	ND	5.0	02/12/14 09:24	
Pentachlorophenol	ug/L	ND	5.0	02/12/14 09:24	
Phenol	ug/L	ND	5.0	02/12/14 09:24	
2,4,6-Tribromophenol (S)	%	90	39-120	02/12/14 09:24	
2-Fluorobiphenyl (S)	%	90	39-120	02/12/14 09:24	
2-Fluorophenol (S)	%	44	17-120	02/12/14 09:24	
Nitrobenzene-d5 (S)	%	84	33-120	02/12/14 09:24	
Phenol-d6 (S)	%	28	11-120	02/12/14 09:24	
Terphenyl-d14 (S)	%	94	45-120	02/12/14 09:24	

LABORATORY CONTROL SAMPLE: 1328395

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	41.5	83	46-120	
2,4,6-Trichlorophenol	ug/L	50	43.7	87	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	52.7	105	40-133	
Hexachloro-1,3-butadiene	ug/L	50	40.4	81	44-116	
Hexachlorocyclopentadiene	ug/L	100	67.0	67	24-120	
Hexachloroethane	ug/L	50	38.6	77	43-113	
Naphthalene	ug/L	50	42.5	85	48-120	
Nitrobenzene	ug/L	50	43.4	87	48-120	
Pentachlorophenol	ug/L	50	46.7	93	47-120	
Phenol	ug/L	50	13.6	27	16-112	
2,4,6-Tribromophenol (S)	%			98	39-120	
2-Fluorobiphenyl (S)	%			85	39-120	
2-Fluorophenol (S)	%			40	17-120	
Nitrobenzene-d5 (S)	%			85	33-120	
Phenol-d6 (S)	%			26	11-120	
Terphenyl-d14 (S)	%			85	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 314-MSD

Pace Project No.: 60162666

MATRIX SPIKE SAMPLE:		1328396					
Parameter	Units	60162666001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	4340	87	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4980	100	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	5980	120	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4300	86	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	7870	79	11-120	
Hexachloroethane	ug/L	ND	5000	3940	79	40-113	
Naphthalene	ug/L	ND	5000	4710	86	45-120	
Nitrobenzene	ug/L	ND	5000	7940	159	38-120	M1
Pentachlorophenol	ug/L	ND	5000	5300	106	43-135	
Phenol	ug/L	10100	5000	13900	75	13-112	
2,4,6-Tribromophenol (S)	%				110	39-120	
2-Fluorobiphenyl (S)	%				90	39-120	
2-Fluorophenol (S)	%				48	17-120	
Nitrobenzene-d5 (S)	%				193	33-120	S0
Phenol-d6 (S)	%				35	11-120	
Terphenyl-d14 (S)	%				92	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 314-MSD

Pace Project No.: 60162666

QC Batch:	WET/46092	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60162666001		

METHOD BLANK: 1328952 Matrix: Water

Associated Lab Samples: 60162666001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/12/14 09:52	

LABORATORY CONTROL SAMPLE: 1328953

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	31.4	78	78-114	

MATRIX SPIKE SAMPLE: 1328954

Parameter	Units	60162662001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	160	164	102	78-114	

SAMPLE DUPLICATE: 1328955

Parameter	Units	60162664001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1170	1170	0	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 314-MSD

Pace Project No.: 60162666

QC Batch:	WET/46119	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60162666001		

METHOD BLANK: 1329416 Matrix: Water
Associated Lab Samples: 60162666001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	02/13/14 09:11	

LABORATORY CONTROL SAMPLE: 1329417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	21.7	108	64-132	

MATRIX SPIKE SAMPLE: 1329418

Parameter	Units	60162662001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	80	61.6	76	64-132	

SAMPLE DUPLICATE: 1329419

Parameter	Units	60162664001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	11.6	15.6	29	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 314-MSD

Pace Project No.: 60162666

QC Batch: WET/46094

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60162666001

METHOD BLANK: 1329003

Matrix: Water

Associated Lab Samples: 60162666001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	02/12/14 09:22	

SAMPLE DUPLICATE: 1329004

Parameter	Units	60162708001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	144	133	8	10	

SAMPLE DUPLICATE: 1329005

Parameter	Units	60162605003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2460	2440	1	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 314-MSD

Pace Project No.: 60162666

QC Batch: WET/46076 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60162666001

SAMPLE DUPLICATE: 1328664

Parameter	Units	60162700001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.0	8.1	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 314-MSD

Pace Project No.: 60162666

QC Batch: WET/46066

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60162666001

METHOD BLANK: 1328332

Matrix: Water

Associated Lab Samples: 60162666001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	02/15/14 12:21	

LABORATORY CONTROL SAMPLE: 1328333

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	194	98	85-115	

SAMPLE DUPLICATE: 1328334

Parameter	Units	60162656001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	820	861	5	17	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 314-MSD

Pace Project No.: 60162666

QC Batch:	WETA/28151	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60162666001		

METHOD BLANK: 1328491 Matrix: Water
Associated Lab Samples: 60162666001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/11/14 14:33	

LABORATORY CONTROL SAMPLE: 1328492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.2	108	90-110	

MATRIX SPIKE SAMPLE: 1328493

Parameter	Units	60162544002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.9	95	90-110	

MATRIX SPIKE SAMPLE: 1328494

Parameter	Units	60162551001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.30	2	2.2	93	90-110	

SAMPLE DUPLICATE: 1328495

Parameter	Units	60162553002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	.04J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 314-MSD

Pace Project No.: 60162666

QC Batch:	WETA/28196	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60162666001		

METHOD BLANK: 1330094 Matrix: Water

Associated Lab Samples: 60162666001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/17/14 11:32	

LABORATORY CONTROL SAMPLE: 1330095

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	52.6	105	90-110	

MATRIX SPIKE SAMPLE: 1330096

Parameter	Units	60162472005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	3180	2500	5630	98	90-110	

MATRIX SPIKE SAMPLE: 1330098

Parameter	Units	60162605001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	10900	5000	15400	91	90-110	

SAMPLE DUPLICATE: 1330097

Parameter	Units	60162524002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	3880	4010	3	25	

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QUALIFIERS

Project: BRIDGETON LF 314-MSD

Pace Project No.: 60162666

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 314-MSD

Pace Project No.: 60162666

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60162666001	314-MSD	EPA 200.7	MPRP/26124	EPA 200.7	ICP/19969
60162666001	314-MSD	EPA 200.7	MPRP/26125	EPA 200.7	ICP/19968
60162666001	314-MSD	EPA 245.1	MERP/8130	EPA 245.1	MERC/8084
60162666001	314-MSD	EPA 245.1	MERP/8128	EPA 245.1	MERC/8085
60162666001	314-MSD	EPA 625	OEXT/42667	EPA 625	MSSV/13581
60162666001	314-MSD	EPA 624 Low	MSV/59367		
60162666002	TRIP BLANK	EPA 624 Low	MSV/59367		
60162666001	314-MSD	EPA 1664A	WET/46092		
60162666001	314-MSD	EPA 1664A	WET/46119		
60162666001	314-MSD	SM 2540D	WET/46094		
60162666001	314-MSD	SM 4500-H+B	WET/46076		
60162666001	314-MSD	SM 5210B	WET/46066	SM 5210B	WET/46160
60162666001	314-MSD	EPA 350.1	WETA/28151		
60162666001	314-MSD	EPA 410.4	WETA/28196		

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Sample Condition Upon Receipt

WO# : 60162666



Client Name: BARR

Courier: Fed Ex UPS USPS Client Commercial Pace Other 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 rip

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

Cooler Temperature: 0.8

Temperature should be above freezing to 6°C

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: 8 2/10/14

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOO, PL</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Includes date/time/ID/analyses	Matrix: <u>wt</u>	13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>Added h₂SO₄ + 314-MSD BP3N 6/10/15</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>Added h₂SO₄ to 314-MSD BP3S 6/10/15</u>
Exceptions: <u>VOA</u> , coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>8</u> Lot # of added preservative: <u>12513 12514</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased):		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	17. List State: <u>MO</u>

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature]

Date: 2/12/14

February 25, 2014

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

RE: Project: BRIDGETON TB-1 TANK 3 315-MSD
Pace Project No.: 60162755

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 12, 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 022514 to correct for total metals reported.

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 TB-1 TANK 3 315-MSD

Pace Project No.: 60162755

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON TB-1 TANK 3 315-MSD
Pace Project No.: 60162755

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60162755001	TB-1 TANK 3 315-MSD	Water	02/10/14 14:30	02/12/14 02:25
60162755002	TRIP BLANK	Water	02/10/14 14:30	02/12/14 02:25

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SAMPLE ANALYTE COUNT

Project: BRIDGETON TB-1 TANK 3 315-MSD

Pace Project No.: 60162755

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60162755001	TB-1 TANK 3 315-MSD	EPA 200.7	JGP	15
		EPA 200.7	TJT	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	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
60162755002	TRIP BLANK	EPA 624 Low	EAK	28

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON TB-1 TANK 3 315-MSD

Pace Project No.: 60162755

Sample: TB-1 TANK 3 315-MSD	Lab ID: 60162755001	Collected: 02/10/14 14:30	Received: 02/12/14 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	12600	ug/L	750	2	02/13/14 09:45	02/14/14 12:08	7429-90-5	
Antimony	ND	ug/L	100	2	02/13/14 09:45	02/14/14 12:08	7440-36-0	D3
Arsenic	792	ug/L	50.0	1	02/13/14 09:45	02/14/14 12:04	7440-38-2	
Beryllium	ND	ug/L	5.0	1	02/13/14 09:45	02/14/14 12:04	7440-41-7	
Cadmium	ND	ug/L	25.0	1	02/13/14 09:45	02/14/14 12:04	7440-43-9	
Chromium	242	ug/L	25.0	1	02/13/14 09:45	02/14/14 12:04	7440-47-3	
Cobalt	69.4	ug/L	25.0	1	02/13/14 09:45	02/14/14 12:04	7440-48-4	
Copper	ND	ug/L	50.0	1	02/13/14 09:45	02/14/14 12:04	7440-50-8	
Iron	100000	ug/L	250	1	02/13/14 09:45	02/14/14 12:04	7439-89-6	
Lead	213	ug/L	25.0	1	02/13/14 09:45	02/14/14 12:04	7439-92-1	
Nickel	179	ug/L	25.0	1	02/13/14 09:45	02/14/14 12:04	7440-02-0	
Selenium	ND	ug/L	75.0	1	02/13/14 09:45	02/14/14 12:04	7782-49-2	
Silver	ND	ug/L	35.0	1	02/13/14 09:45	02/14/14 12:04	7440-22-4	
Thallium	ND	ug/L	100	1	02/13/14 09:45	02/14/14 12:04	7440-28-0	
Zinc	9830	ug/L	500	2	02/13/14 09:45	02/14/14 12:08	7440-66-6	
200.7 Metals, Dissolved (LF)								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Aluminum, Dissolved	3290	ug/L	750	2	02/18/14 09:45	02/18/14 16:13	7429-90-5	
Antimony, Dissolved	52.2	ug/L	50.0	1	02/18/14 09:45	02/18/14 16:11	7440-36-0	
Arsenic, Dissolved	726	ug/L	50.0	1	02/18/14 09:45	02/18/14 16:11	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	02/18/14 09:45	02/18/14 16:11	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	02/18/14 09:45	02/18/14 16:11	7440-43-9	
Chromium, Dissolved	176	ug/L	25.0	1	02/18/14 09:45	02/18/14 16:11	7440-47-3	
Cobalt, Dissolved	40.1	ug/L	25.0	1	02/18/14 09:45	02/18/14 16:11	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	02/18/14 09:45	02/18/14 16:11	7440-50-8	
Iron, Dissolved	764000	ug/L	250	1	02/18/14 09:45	02/18/14 16:11	7439-89-6	M1
Lead, Dissolved	93.0	ug/L	25.0	1	02/18/14 09:45	02/18/14 16:11	7439-92-1	
Nickel, Dissolved	120	ug/L	25.0	1	02/18/14 09:45	02/18/14 16:11	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	02/18/14 09:45	02/18/14 16:11	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	02/18/14 09:45	02/18/14 16:11	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	02/18/14 09:45	02/18/14 16:11	7440-28-0	
Zinc, Dissolved	8070	ug/L	500	2	02/18/14 09:45	02/18/14 16:13	7440-66-6	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury	ND	ug/L	6.0	1	02/12/14 16:00	02/13/14 10:14	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	02/12/14 16:00	02/13/14 10:59	7439-97-6	
625 MSSV								
Analytical Method: EPA 625 Preparation Method: EPA 625								
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	02/13/14 00:00	02/14/14 09:57	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	02/13/14 00:00	02/14/14 09:57	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	02/13/14 00:00	02/14/14 09:57	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	02/13/14 00:00	02/14/14 09:57	67-72-1	
Naphthalene	ND	ug/L	1000	2	02/13/14 00:00	02/14/14 09:57	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	02/13/14 00:00	02/14/14 09:57	98-95-3	M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON TB-1 TANK 3 315-MSD

Sample Project No.: 60162755

Sample: TB-1 TANK 3 315-MSD	Lab ID: 60162755001	Collected: 02/10/14 14:30	Received: 02/12/14 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	02/13/14 00:00	02/14/14 09:57	87-86-5	
Phenol	11000 ug/L		1000	2	02/13/14 00:00	02/14/14 09:57	108-95-2	M1
1,2,4-Trichlorobenzene	ND ug/L		1000	2	02/13/14 00:00	02/14/14 09:57	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	02/13/14 00:00	02/14/14 09:57	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	167 %		33-120	2	02/13/14 00:00	02/14/14 09:57	4165-60-0	S0
2-Fluorobiphenyl (S)	94 %		39-120	2	02/13/14 00:00	02/14/14 09:57	321-60-8	
Terphenyl-d14 (S)	97 %		45-120	2	02/13/14 00:00	02/14/14 09:57	1718-51-0	
Phenol-d6 (S)	39 %		11-120	2	02/13/14 00:00	02/14/14 09:57	13127-88-3	
2-Fluorophenol (S)	63 %		17-120	2	02/13/14 00:00	02/14/14 09:57	367-12-4	
2,4,6-Tribromophenol (S)	131 %		39-120	2	02/13/14 00:00	02/14/14 09:57	118-79-6	S0
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	80300 ug/L		2000	200		02/14/14 12:29	67-64-1	N2
Benzene	ND ug/L		200	200		02/14/14 12:29	71-43-2	
Bromodichloromethane	ND ug/L		200	200		02/14/14 12:29	75-27-4	
Bromoform	ND ug/L		200	200		02/14/14 12:29	75-25-2	
Bromomethane	ND ug/L		1000	200		02/14/14 12:29	74-83-9	
2-Butanone (MEK)	50200 ug/L		2000	200		02/14/14 12:29	78-93-3	N2
Carbon tetrachloride	ND ug/L		200	200		02/14/14 12:29	56-23-5	
Chloroethane	ND ug/L		200	200		02/14/14 12:29	75-00-3	
Chloroform	ND ug/L		200	200		02/14/14 12:29	67-66-3	
1,4-Dichlorobenzene	ND ug/L		200	200		02/14/14 12:29	106-46-7	
1,2-Dichloroethane	ND ug/L		200	200		02/14/14 12:29	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200	200		02/14/14 12:29	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		200	200		02/14/14 12:29	156-60-5	
Ethylbenzene	ND ug/L		200	200		02/14/14 12:29	100-41-4	
Methylene chloride	ND ug/L		200	200		02/14/14 12:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2000	200		02/14/14 12:29	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		02/14/14 12:29	79-34-5	N2
Tetrachloroethene	ND ug/L		200	200		02/14/14 12:29	127-18-4	
Toluene	ND ug/L		200	200		02/14/14 12:29	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		02/14/14 12:29	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		02/14/14 12:29	79-00-5	
Trichloroethene	ND ug/L		200	200		02/14/14 12:29	79-01-6	
Vinyl chloride	ND ug/L		200	200		02/14/14 12:29	75-01-4	
Xylene (Total)	ND ug/L		600	200		02/14/14 12:29	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	99 %		80-120	200		02/14/14 12:29	460-00-4	
Toluene-d8 (S)	101 %		80-120	200		02/14/14 12:29	2037-26-5	
1,2-Dichloroethane-d4 (S)	96 %		80-120	200		02/14/14 12:29	17060-07-0	
Preservation pH	6.0		1.0	200		02/14/14 12:29		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	842 mg/L		5.0	1		02/18/14 07:27		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON TB-1 TANK 3 315-MSD

Pace Project No.: 60162755

Sample: TB-1 TANK 3 315-MSD		Lab ID: 60162755001	Collected: 02/10/14 14:30	Received: 02/12/14 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	17.9	mg/L	5.0	1		02/18/14 07:22		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	4080	mg/L	5.0	1		02/13/14 13:36		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.1	Std. Units	0.10	1		02/17/14 13:25		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	28300	mg/L	2.0	1	02/12/14 12:27	02/17/14 11:16		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	361	mg/L	20.0	200		02/12/14 11:20	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	50600	mg/L	5000	500		02/17/14 12:01		

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ANALYTICAL RESULTS

Project: BRIDGETON TB-1 TANK 3 315-MSD

Pace Project No.: 60162755

Sample: TRIP BLANK		Lab ID: 60162755002	Collected: 02/10/14 14:30	Received: 02/12/14 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		02/14/14 12:44	67-64-1	N2
Benzene	ND ug/L		1.0	1		02/14/14 12:44	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		02/14/14 12:44	75-27-4	
Bromoform	ND ug/L		1.0	1		02/14/14 12:44	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/14/14 12:44	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		02/14/14 12:44	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		02/14/14 12:44	56-23-5	
Chloroethane	ND ug/L		1.0	1		02/14/14 12:44	75-00-3	
Chloroform	ND ug/L		1.0	1		02/14/14 12:44	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		02/14/14 12:44	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		02/14/14 12:44	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		02/14/14 12:44	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		02/14/14 12:44	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		02/14/14 12:44	100-41-4	
Methylene chloride	ND ug/L		1.0	1		02/14/14 12:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		02/14/14 12:44	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		02/14/14 12:44	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		02/14/14 12:44	127-18-4	
Toluene	ND ug/L		1.0	1		02/14/14 12:44	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		02/14/14 12:44	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		02/14/14 12:44	79-00-5	
Trichloroethene	ND ug/L		1.0	1		02/14/14 12:44	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		02/14/14 12:44	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		02/14/14 12:44	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	98 %		80-120	1		02/14/14 12:44	460-00-4	
Toluene-d8 (S)	102 %		80-120	1		02/14/14 12:44	2037-26-5	
1,2-Dichloroethane-d4 (S)	93 %		80-120	1		02/14/14 12:44	17060-07-0	
Preservation pH	6.0		1.0	1		02/14/14 12:44		

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QUALITY CONTROL DATA

Project: BRIDGETON TB-1 TANK 3 315-MSD

Pace Project No.: 60162755

QC Batch:	MERP/8130	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60162755001		

METHOD BLANK: 1329221 Matrix: Water
Associated Lab Samples: 60162755001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/13/14 09:31	

LABORATORY CONTROL SAMPLE: 1329222

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1329223 1329224

Parameter	Units	60161465018		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Mercury	ug/L	8.2	5	5	5	13.5	13.4	106	105	70-130	0	20			

MATRIX SPIKE SAMPLE: 1329260

Parameter	Units	60162743001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.1	83	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON TB-1 TANK 3 315-MSD

Pace Project No.: 60162755

QC Batch: MERP/8128 Analysis Method: EPA 245.1
 QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury - Dissolved
 Associated Lab Samples: 60162755001

METHOD BLANK: 1329206 Matrix: Water
 Associated Lab Samples: 60162755001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/13/14 10:36	

LABORATORY CONTROL SAMPLE: 1329207

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: 1329208 1329209

Parameter	Units	60162664001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Mercury, Dissolved	ug/L	ND	150	150	98.1	98.7	65	66	70-130	1	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON TB-1 TANK 3 315-MSD
Pace Project No.: 60162755

QC Batch: MPRP/26146 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60162755001

METHOD BLANK: 1329396 Matrix: Water
Associated Lab Samples: 60162755001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	02/14/14 10:17	
Antimony	ug/L	ND	10.0	02/14/14 10:17	
Arsenic	ug/L	ND	10.0	02/14/14 10:17	
Beryllium	ug/L	ND	1.0	02/14/14 10:17	
Cadmium	ug/L	ND	5.0	02/14/14 10:17	
Chromium	ug/L	ND	5.0	02/14/14 10:17	
Cobalt	ug/L	ND	5.0	02/14/14 10:17	
Copper	ug/L	ND	10.0	02/14/14 10:17	
Iron	ug/L	ND	50.0	02/14/14 10:17	
Lead	ug/L	ND	5.0	02/14/14 10:17	
Nickel	ug/L	ND	5.0	02/14/14 10:17	
Selenium	ug/L	ND	15.0	02/14/14 10:17	
Silver	ug/L	ND	7.0	02/14/14 10:17	
Thallium	ug/L	ND	20.0	02/14/14 10:17	
Zinc	ug/L	ND	50.0	02/14/14 10:17	

LABORATORY CONTROL SAMPLE: 1329397

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	11300	113	85-115	
Antimony	ug/L	1000	1010	101	85-115	
Arsenic	ug/L	1000	962	96	85-115	
Beryllium	ug/L	1000	1140	114	85-115	
Cadmium	ug/L	1000	990	99	85-115	
Chromium	ug/L	1000	989	99	85-115	
Cobalt	ug/L	1000	1010	101	85-115	
Copper	ug/L	1000	984	98	85-115	
Iron	ug/L	10000	11400	114	85-115	
Lead	ug/L	1000	1020	102	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1000	100	85-115	
Silver	ug/L	500	477	95	85-115	
Thallium	ug/L	1000	1000	100	85-115	
Zinc	ug/L	1000	997	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1329398 1329399

Parameter	Units	60161800004		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.								
Aluminum	ug/L	1900	10000	10000	11700	11700	98	98	70-130	0	8		

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QUALITY CONTROL DATA

Project: BRIDGETON TB-1 TANK 3 315-MSD

Pace Project No.: 60162755

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1329398												1329399	
Parameter	Units	60161800004		MS	MSD	MS		MSD		% Rec Limits	Max RPD	Qual	
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Antimony	ug/L	749	1000	1000	1740	1720	99	97	70-130	1	7		
Arsenic	ug/L	698	1000	1000	1650	1630	96	93	70-130	1	10		
Beryllium	ug/L	362	1000	1000	1370	1360	100	99	70-130	1	7		
Cadmium	ug/L	532	1000	1000	1510	1490	98	96	70-130	2	10		
Chromium	ug/L	785	1000	1000	1760	1750	98	97	70-130	1	10		
Cobalt	ug/L	638	1000	1000	1640	1610	100	97	70-130	2	6		
Copper	ug/L	326	1000	1000	1290	1280	97	95	70-130	1	11		
Iron	ug/L	791	10000	10000	10800	10700	100	99	70-130	0	10		
Lead	ug/L	556	1000	1000	1560	1530	100	97	70-130	2	10		
Nickel	ug/L	2560	1000	1000	3520	3460	96	90	70-130	2	10		
Selenium	ug/L	1810	1000	1000	2790	2740	98	94	70-130	2	10		
Silver	ug/L	287	500	500	751	745	93	92	70-130	1	10		
Thallium	ug/L	753	1000	1000	1740	1710	98	96	70-130	1	6		
Zinc	ug/L	265	1000	1000	1260	1230	99	97	70-130	2	11		

MATRIX SPIKE SAMPLE: 1329400									
Parameter	Units	60162622001		Spike Conc.	MS	MS	% Rec Limits	Qualifiers	
		Result	Conc.		Result	% Rec			
Aluminum	ug/L		105	10000	10000	99	70-130		
Antimony	ug/L			1000	1030	103	70-130		
Arsenic	ug/L			1000	998	99	70-130		
Beryllium	ug/L			1000	993	99	70-130		
Cadmium	ug/L			1000	1000	100	70-130		
Chromium	ug/L			1000	965	96	70-130		
Cobalt	ug/L			1000	980	98	70-130		
Copper	ug/L			1000	980	98	70-130		
Iron	ug/L		52.0	10000	9930	99	70-130		
Lead	ug/L			1000	974	97	70-130		
Nickel	ug/L			1000	990	99	70-130		
Selenium	ug/L			1000	1020	102	70-130		
Silver	ug/L			500	479	96	70-130		
Thallium	ug/L			1000	947	95	70-130		
Zinc	ug/L			1000	966	96	70-130		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON TB-1 TANK 3 315-MSD
Pace Project No.: 60162755

QC Batch: MPRP/26171 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60162755001

METHOD BLANK: 1331054 Matrix: Water
Associated Lab Samples: 60162755001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	02/18/14 16:08	
Antimony, Dissolved	ug/L	ND	10.0	02/18/14 16:08	
Arsenic, Dissolved	ug/L	ND	10.0	02/18/14 16:08	
Beryllium, Dissolved	ug/L	ND	1.0	02/18/14 16:08	
Cadmium, Dissolved	ug/L	ND	5.0	02/18/14 16:08	
Chromium, Dissolved	ug/L	ND	5.0	02/18/14 16:08	
Cobalt, Dissolved	ug/L	ND	5.0	02/18/14 16:08	
Copper, Dissolved	ug/L	ND	10.0	02/18/14 16:08	
Iron, Dissolved	ug/L	ND	50.0	02/18/14 16:08	
Lead, Dissolved	ug/L	ND	5.0	02/18/14 16:08	
Nickel, Dissolved	ug/L	ND	5.0	02/18/14 16:08	
Selenium, Dissolved	ug/L	ND	15.0	02/18/14 16:08	
Silver, Dissolved	ug/L	ND	7.0	02/18/14 16:08	
Thallium, Dissolved	ug/L	ND	20.0	02/18/14 16:08	
Zinc, Dissolved	ug/L	ND	50.0	02/18/14 16:08	

LABORATORY CONTROL SAMPLE: 1331055

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	988	99	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	1030	103	85-115	
Copper, Dissolved	ug/L	1000	1000	100	85-115	
Iron, Dissolved	ug/L	10000	9900	99	85-115	
Lead, Dissolved	ug/L	1000	1070	107	85-115	
Nickel, Dissolved	ug/L	1000	1060	106	85-115	
Selenium, Dissolved	ug/L	1000	1030	103	85-115	
Silver, Dissolved	ug/L	500	498	100	85-115	
Thallium, Dissolved	ug/L	1000	1070	107	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1331056 1331057

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result						
Aluminum, Dissolved	ug/L	3290	50000	50000	54100	54200	102	102	70-130	0	8

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QUALITY CONTROL DATA

Project: BRIDGETON TB-1 TANK 3 315-MSD

Pace Project No.: 60162755

Parameter	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1331056			1331057			MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
	60162755001 Units	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					
Antimony, Dissolved	ug/L	52.2	5000	5000	5410	5440	107	108	70-130	1	7
Arsenic, Dissolved	ug/L	726	5000	5000	6020	6150	106	108	70-130	2	10
Beryllium, Dissolved	ug/L	ND	5000	5000	4890	4840	98	97	70-130	1	7
Cadmium, Dissolved	ug/L	ND	5000	5000	5280	5280	105	105	70-130	0	10
Chromium, Dissolved	ug/L	176	5000	5000	4950	4930	95	95	70-130	0	10
Cobalt, Dissolved	ug/L	40.1	5000	5000	4940	4920	98	98	70-130	0	6
Copper, Dissolved	ug/L	ND	5000	5000	5230	5200	104	104	70-130	1	11
Iron, Dissolved	ug/L	764000	50000	50000	700000	777000	-128	25	70-130	10	10 M1
Lead, Dissolved	ug/L	93.0	5000	5000	4850	4810	95	94	70-130	1	10
Nickel, Dissolved	ug/L	120	5000	5000	5050	5020	99	98	70-130	1	10
Selenium, Dissolved	ug/L	ND	5000	5000	5980	6040	118	119	70-130	1	10
Silver, Dissolved	ug/L	ND	2500	2500	2620	2610	104	103	70-130	0	10
Thallium, Dissolved	ug/L	ND	5000	5000	4400	4330	88	87	70-130	2	6
Zinc, Dissolved	ug/L	8070	5000	5000	11700	12600	73	90	70-130	7	11

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QUALITY CONTROL DATA

Project: BRIDGETON TB-1 TANK 3 315-MSD

Pace Project No.: 60162755

QC Batch: MSV/59425 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60162755001, 60162755002

METHOD BLANK: 1330132 Matrix: Water

Associated Lab Samples: 60162755001, 60162755002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/14/14 11:44	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/14/14 11:44	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	02/14/14 11:44	
1,2-Dichloroethane	ug/L	ND	1.0	02/14/14 11:44	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/14/14 11:44	
2-Butanone (MEK)	ug/L	ND	10.0	02/14/14 11:44	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/14/14 11:44	N2
Acetone	ug/L	ND	10.0	02/14/14 11:44	N2
Benzene	ug/L	ND	1.0	02/14/14 11:44	
Bromodichloromethane	ug/L	ND	1.0	02/14/14 11:44	
Bromoform	ug/L	ND	1.0	02/14/14 11:44	
Bromomethane	ug/L	ND	5.0	02/14/14 11:44	
Carbon tetrachloride	ug/L	ND	1.0	02/14/14 11:44	
Chloroethane	ug/L	ND	1.0	02/14/14 11:44	
Chloroform	ug/L	ND	1.0	02/14/14 11:44	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/14/14 11:44	N2
Ethylbenzene	ug/L	ND	1.0	02/14/14 11:44	
Methylene chloride	ug/L	ND	1.0	02/14/14 11:44	
Tetrachloroethene	ug/L	ND	1.0	02/14/14 11:44	
Toluene	ug/L	ND	1.0	02/14/14 11:44	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/14/14 11:44	
Trichloroethene	ug/L	ND	1.0	02/14/14 11:44	
Vinyl chloride	ug/L	ND	1.0	02/14/14 11:44	
Xylene (Total)	ug/L	ND	3.0	02/14/14 11:44	N2
1,2-Dichloroethane-d4 (S)	%	96	80-120	02/14/14 11:44	
4-Bromofluorobenzene (S)	%	99	80-120	02/14/14 11:44	
Toluene-d8 (S)	%	102	80-120	02/14/14 11:44	

LABORATORY CONTROL SAMPLE: 1330133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.1	100	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	18.2	91	59-138	N2
1,1,2-Trichloroethane	ug/L	20	18.9	94	69-127	
1,2-Dichloroethane	ug/L	20	18.9	94	71-129	
1,4-Dichlorobenzene	ug/L	20	19.7	98	68-124	
2-Butanone (MEK)	ug/L	100	92.2	92	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	90.2	90	61-120	N2
Acetone	ug/L	100	63.4	63	40-160	N2
Benzene	ug/L	20	19.0	95	73-129	
Bromodichloromethane	ug/L	20	19.7	98	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON TB-1 TANK 3 315-MSD

Pace Project No.: 60162755

LABORATORY CONTROL SAMPLE: 1330133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.8	99	52-123	
Bromomethane	ug/L	20	13.9	70	10-160	
Carbon tetrachloride	ug/L	20	21.6	108	70-140	
Chloroethane	ug/L	20	20.9	104	42-160	
Chloroform	ug/L	20	19.8	99	60-120	
cis-1,2-Dichloroethene	ug/L	20	19.9	99	70-125	N2
Ethylbenzene	ug/L	20	21.1	106	66-133	
Methylene chloride	ug/L	20	18.4	92	56-135	
Tetrachloroethene	ug/L	20	21.3	107	64-143	
Toluene	ug/L	20	18.6	93	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.3	101	67-149	
Trichloroethene	ug/L	20	18.0	90	71-130	
Vinyl chloride	ug/L	20	20.3	102	41-160	
Xylene (Total)	ug/L	60	60.2	100	67-130	N2
1,2-Dichloroethane-d4 (S)	%			95	80-120	
4-Bromofluorobenzene (S)	%			96	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1330134

Parameter	Units	60162763001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4330	108	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3510	88	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	3810	95	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3670	92	49-155	
1,4-Dichlorobenzene	ug/L	874	4000	4750	97	18-147	
2-Butanone (MEK)	ug/L	90400	20000	100000	48	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	4850	20000	20000	76	40-160	N2
Acetone	ug/L	128000	20000	136000	41	40-160	N2
Benzene	ug/L	ND	4000	3900	97	37-151	
Bromodichloromethane	ug/L	ND	4000	3710	93	35-155	
Bromoform	ug/L	ND	4000	3590	90	45-133	
Bromomethane	ug/L	ND	4000	3020	76	10-160	
Carbon tetrachloride	ug/L	ND	4000	4680	117	70-140	
Chloroethane	ug/L	ND	4000	4500	113	14-160	
Chloroform	ug/L	ND	4000	3850	96	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3970	99	19-160	N2
Ethylbenzene	ug/L	ND	4000	3980	98	37-154	
Methylene chloride	ug/L	ND	4000	3660	90	15-156	
Tetrachloroethene	ug/L	ND	4000	4350	109	64-148	
Toluene	ug/L	ND	4000	3650	91	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4280	107	54-156	
Trichloroethene	ug/L	ND	4000	3670	92	71-157	
Vinyl chloride	ug/L	ND	4000	4770	119	10-160	
Xylene (Total)	ug/L	ND	12000	11800	99	12-153	N2
1,2-Dichloroethane-d4 (S)	%				96	80-120	
4-Bromofluorobenzene (S)	%				97	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON TB-1 TANK 3 315-MSD

Pace Project No.: 60162755

MATRIX SPIKE SAMPLE:		1330134					
Parameter	Units	60162763001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S) Preservation pH	%	6.0	6.0	6.0	101	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON TB-1 TANK 3 315-MSD

Pace Project No.: 60162755

QC Batch:	OEXT/42713	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60162755001		

METHOD BLANK: 1329323 Matrix: Water

Associated Lab Samples: 60162755001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/14/14 08:55	
2,4,6-Trichlorophenol	ug/L	ND	5.0	02/14/14 08:55	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	02/14/14 08:55	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/14/14 08:55	
Hexachlorocyclopentadiene	ug/L	ND	5.0	02/14/14 08:55	
Hexachloroethane	ug/L	ND	5.0	02/14/14 08:55	
Naphthalene	ug/L	ND	5.0	02/14/14 08:55	
Nitrobenzene	ug/L	ND	5.0	02/14/14 08:55	
Pentachlorophenol	ug/L	ND	5.0	02/14/14 08:55	
Phenol	ug/L	ND	5.0	02/14/14 08:55	
2,4,6-Tribromophenol (S)	%	113	39-120	02/14/14 08:55	
2-Fluorobiphenyl (S)	%	89	39-120	02/14/14 08:55	
2-Fluorophenol (S)	%	38	17-120	02/14/14 08:55	
Nitrobenzene-d5 (S)	%	105	33-120	02/14/14 08:55	
Phenol-d6 (S)	%	27	11-120	02/14/14 08:55	
Terphenyl-d14 (S)	%	111	45-120	02/14/14 08:55	

LABORATORY CONTROL SAMPLE: 1329324

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	44.0	88	46-120	
2,4,6-Trichlorophenol	ug/L	50	44.0	88	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	46.5	93	40-133	
Hexachloro-1,3-butadiene	ug/L	50	47.3	95	44-116	
Hexachlorocyclopentadiene	ug/L	100	77.2	77	24-120	
Hexachloroethane	ug/L	50	38.8	78	43-113	
Naphthalene	ug/L	50	44.0	88	48-120	
Nitrobenzene	ug/L	50	48.5	97	48-120	
Pentachlorophenol	ug/L	50	47.2	94	47-120	
Phenol	ug/L	50	13.6	27	16-112	
2,4,6-Tribromophenol (S)	%			101	39-120	
2-Fluorobiphenyl (S)	%			85	39-120	
2-Fluorophenol (S)	%			38	17-120	
Nitrobenzene-d5 (S)	%			101	33-120	
Phenol-d6 (S)	%			27	11-120	
Terphenyl-d14 (S)	%			91	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON TB-1 TANK 3 315-MSD

Pace Project No.: 60162755

MATRIX SPIKE SAMPLE:		1329325					
Parameter	Units	60162755001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3930	79	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4790	96	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4520J	90	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4170	83	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	7910	79	11-120	
Hexachloroethane	ug/L	ND	5000	3900	78	40-113	
Naphthalene	ug/L	ND	5000	4000	80	45-120	
Nitrobenzene	ug/L	ND	5000	6300	126	38-120	M1
Pentachlorophenol	ug/L	ND	5000	5120	102	43-135	
Phenol	ug/L	11000	5000	9530	-30	13-112	M1
2,4,6-Tribromophenol (S)	%				108	39-120	
2-Fluorobiphenyl (S)	%				87	39-120	
2-Fluorophenol (S)	%				43	17-120	
Nitrobenzene-d5 (S)	%				141	33-120	S0
Phenol-d6 (S)	%				31	11-120	
Terphenyl-d14 (S)	%				86	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON TB-1 TANK 3 315-MSD

Pace Project No.: 60162755

QC Batch:	WET/46131	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60162755001		

METHOD BLANK: 1329730 Matrix: Water

Associated Lab Samples: 60162755001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/18/14 07:24	

LABORATORY CONTROL SAMPLE: 1329731

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	37.5	94	78-114	

MATRIX SPIKE SAMPLE: 1329732

Parameter	Units	60162470001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	50.6	44	89.2	88	78-114	

SAMPLE DUPLICATE: 1329733

Parameter	Units	60162660001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	33.1	36.3	9	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON TB-1 TANK 3 315-MSD

Pace Project No.: 60162755

QC Batch: WET/46132

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60162755001

METHOD BLANK: 1329742

Matrix: Water

Associated Lab Samples: 60162755001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	02/18/14 07:21	

LABORATORY CONTROL SAMPLE: 1329743

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	21.9	110	64-132	

MATRIX SPIKE SAMPLE: 1329744

Parameter	Units	60162470001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	12.5	22	24.5	55	64-132	M1

SAMPLE DUPLICATE: 1329745

Parameter	Units	60162660001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	8.1	9.6	17	34	

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QUALITY CONTROL DATA

Project: BRIDGETON TB-1 TANK 3 315-MSD

Pace Project No.: 60162755

QC Batch: WET/46125

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60162755001

METHOD BLANK: 1329570

Matrix: Water

Associated Lab Samples: 60162755001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	02/13/14 13:34	

SAMPLE DUPLICATE: 1329571

Parameter	Units	60162793001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 1329572

Parameter	Units	60162843001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	236	244	3	10	

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QUALITY CONTROL DATA

Project: BRIDGETON TB-1 TANK 3 315-MSD

Pace Project No.: 60162755

QC Batch: WET/46171 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60162755001

SAMPLE DUPLICATE: 1330865

Parameter	Units	60162755001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.1	5.2	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON TB-1 TANK 3 315-MSD

Pace Project No.: 60162755

QC Batch: WET/46086

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60162755001

METHOD BLANK: 1328866

Matrix: Water

Associated Lab Samples: 60162755001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	02/17/14 10:23	

LABORATORY CONTROL SAMPLE: 1328867

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	211	107	85-115	

SAMPLE DUPLICATE: 1328868

Parameter	Units	60162746001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	113	119	5	17	

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QUALITY CONTROL DATA

Project: BRIDGETON TB-1 TANK 3 315-MSD

Pace Project No.: 60162755

QC Batch: WETA/28159

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60162755001

METHOD BLANK: 1328926

Matrix: Water

Associated Lab Samples: 60162755001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/12/14 11:04	

LABORATORY CONTROL SAMPLE: 1328927

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1328928

Parameter	Units	60162736006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.7	87	90-110	M1

MATRIX SPIKE SAMPLE: 1328929

Parameter	Units	60162749002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	30.7	20	45.5	74	90-110	M1

SAMPLE DUPLICATE: 1328930

Parameter	Units	60162756001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	4.5	4.5	1	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON TB-1 TANK 3 315-MSD

Pace Project No.: 60162755

QC Batch:	WETA/28196	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60162755001		

METHOD BLANK: 1330094 Matrix: Water
Associated Lab Samples: 60162755001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/17/14 11:32	

LABORATORY CONTROL SAMPLE: 1330095

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	52.6	105	90-110	

MATRIX SPIKE SAMPLE: 1330096

Parameter	Units	60162472005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	3180	2500	5630	98	90-110	

MATRIX SPIKE SAMPLE: 1330098

Parameter	Units	60162605001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	10900	5000	15400	91	90-110	

SAMPLE DUPLICATE: 1330097

Parameter	Units	60162524002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	3880	4010	3	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON TB-1 TANK 3 315-MSD

Pace Project No.: 60162755

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON TB-1 TANK 3 315-MSD

Pace Project No.: 60162755

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60162755001	TB-1 TANK 3 315-MSD	EPA 200.7	MPRP/26146	EPA 200.7	ICP/19981
60162755001	TB-1 TANK 3 315-MSD	EPA 200.7	MPRP/26171	EPA 200.7	ICP/19997
60162755001	TB-1 TANK 3 315-MSD	EPA 245.1	MERP/8130	EPA 245.1	MERC/8084
60162755001	TB-1 TANK 3 315-MSD	EPA 245.1	MERP/8128	EPA 245.1	MERC/8085
60162755001	TB-1 TANK 3 315-MSD	EPA 625	OEXT/42713	EPA 625	MSSV/13590
60162755001	TB-1 TANK 3 315-MSD	EPA 624 Low	MSV/59425		
60162755002	TRIP BLANK	EPA 624 Low	MSV/59425		
60162755001	TB-1 TANK 3 315-MSD	EPA 1664A	WET/46131		
60162755001	TB-1 TANK 3 315-MSD	EPA 1664A	WET/46132		
60162755001	TB-1 TANK 3 315-MSD	SM 2540D	WET/46125		
60162755001	TB-1 TANK 3 315-MSD	SM 4500-H+B	WET/46171		
60162755001	TB-1 TANK 3 315-MSD	SM 5210B	WET/46086	SM 5210B	WET/46207
60162755001	TB-1 TANK 3 315-MSD	EPA 350.1	WETA/28159		
60162755001	TB-1 TANK 3 315-MSD	EPA 410.4	WETA/28196		

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WO#: 60162755



60162755



Sample Condition Upon Receipt

Client Name: Berry Eng

Courier: Fed Ex UPS USPS Client Commercial Pace Other xxroad

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.

Cooler Temperature: 5.8

Temperature should be above freezing to 6°C

Date and initials of person examining contents: 2/12/14

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>Bod Pit</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>Added 2.5 ml of HNO3 to BPSN. pH 6.0/4.0 Added 2.0 ml of H2SO4 to BPS. PH 6.0/2.0</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: <u>VOA</u> , coliform, TOC, <u>O&G</u> , WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>pv</u> Lot # of added preservative: <u>12513 / 12514</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Pace Trip Blank lot # (if purchased): <u>11113-3</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>WV</u>

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: [Signature]

February 25, 2014

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

RE: Project: BRIDGETON LF 316-215
Pace Project No.: 60162763

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 12, 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 022514 to correct total metals reports.

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 316-215

Pace Project No.: 60162763

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-215

Pace Project No.: 60162763

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60162763001	316-215	Water	02/11/14 11:00	02/12/14 02:25
60162763002	TRIP BLANK	Water	02/11/14 11:00	02/12/14 02:25

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-215

Pace Project No.: 60162763

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60162763001	316-215	EPA 200.7	JGP	15
		EPA 200.7	TJT	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	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
		60162763002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-215

Pace Project No.: 60162763

Sample: 316-215		Lab ID: 60162763001	Collected: 02/11/14 11:00	Received: 02/12/14 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	8410 ug/L		750	2	02/13/14 09:45	02/14/14 12:15	7429-90-5	
Antimony	ND ug/L		100	2	02/13/14 09:45	02/14/14 12:15	7440-36-0	D3
Arsenic	1240 ug/L		50.0	1	02/13/14 09:45	02/14/14 12:12	7440-38-2	
Beryllium	ND ug/L		5.0	1	02/13/14 09:45	02/14/14 12:12	7440-41-7	
Cadmium	ND ug/L		25.0	1	02/13/14 09:45	02/14/14 12:12	7440-43-9	
Chromium	300 ug/L		25.0	1	02/13/14 09:45	02/14/14 12:12	7440-47-3	
Cobalt	62.4 ug/L		25.0	1	02/13/14 09:45	02/14/14 12:12	7440-48-4	
Copper	ND ug/L		50.0	1	02/13/14 09:45	02/14/14 12:12	7440-50-8	
Iron	840000 ug/L		250	1	02/13/14 09:45	02/14/14 12:12	7439-89-6	
Lead	118 ug/L		25.0	1	02/13/14 09:45	02/14/14 12:12	7439-92-1	
Nickel	156 ug/L		25.0	1	02/13/14 09:45	02/14/14 12:12	7440-02-0	
Selenium	ND ug/L		75.0	1	02/13/14 09:45	02/14/14 12:12	7782-49-2	
Silver	ND ug/L		35.0	1	02/13/14 09:45	02/14/14 12:12	7440-22-4	
Thallium	ND ug/L		100	1	02/13/14 09:45	02/14/14 12:12	7440-28-0	
Zinc	7320 ug/L		500	2	02/13/14 09:45	02/14/14 12:15	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	2680 ug/L		750	2	02/18/14 09:45	02/18/14 16:26	7429-90-5	
Antimony, Dissolved	55.5 ug/L		50.0	1	02/18/14 09:45	02/18/14 16:24	7440-36-0	
Arsenic, Dissolved	998 ug/L		50.0	1	02/18/14 09:45	02/18/14 16:24	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	02/18/14 09:45	02/18/14 16:24	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	02/18/14 09:45	02/18/14 16:24	7440-43-9	
Chromium, Dissolved	214 ug/L		25.0	1	02/18/14 09:45	02/18/14 16:24	7440-47-3	
Cobalt, Dissolved	32.4 ug/L		25.0	1	02/18/14 09:45	02/18/14 16:24	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	02/18/14 09:45	02/18/14 16:24	7440-50-8	
Iron, Dissolved	568000 ug/L		250	1	02/18/14 09:45	02/18/14 16:24	7439-89-6	
Lead, Dissolved	61.6 ug/L		25.0	1	02/18/14 09:45	02/18/14 16:24	7439-92-1	
Nickel, Dissolved	91.0 ug/L		25.0	1	02/18/14 09:45	02/18/14 16:24	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	02/18/14 09:45	02/18/14 16:24	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	02/18/14 09:45	02/18/14 16:24	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	02/18/14 09:45	02/18/14 16:24	7440-28-0	
Zinc, Dissolved	5480 ug/L		500	2	02/18/14 09:45	02/18/14 16:26	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	17.7 ug/L		6.0	1	02/12/14 16:00	02/13/14 10:16	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	02/12/14 16:00	02/13/14 11:01	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	02/13/14 00:00	02/14/14 10:18	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	02/13/14 00:00	02/14/14 10:18	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	02/13/14 00:00	02/14/14 10:18	77-47-4	
Hexachloroethane	ND ug/L		1000	2	02/13/14 00:00	02/14/14 10:18	67-72-1	
Naphthalene	1190 ug/L		1000	2	02/13/14 00:00	02/14/14 10:18	91-20-3	
Nitrobenzene	ND ug/L		1000	2	02/13/14 00:00	02/14/14 10:18	98-95-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-215

Pace Project No.: 60162763

Sample: 316-215	Lab ID: 60162763001	Collected: 02/11/14 11:00	Received: 02/12/14 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	02/13/14 00:00	02/14/14 10:18	87-86-5	
Phenol	15500 ug/L		1000	2	02/13/14 00:00	02/14/14 10:18	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	02/13/14 00:00	02/14/14 10:18	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	02/13/14 00:00	02/14/14 10:18	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	174 %		33-120	2	02/13/14 00:00	02/14/14 10:18	4165-60-0	S0
2-Fluorobiphenyl (S)	97 %		39-120	2	02/13/14 00:00	02/14/14 10:18	321-60-8	
Terphenyl-d14 (S)	96 %		45-120	2	02/13/14 00:00	02/14/14 10:18	1718-51-0	
Phenol-d6 (S)	40 %		11-120	2	02/13/14 00:00	02/14/14 10:18	13127-88-3	
2-Fluorophenol (S)	49 %		17-120	2	02/13/14 00:00	02/14/14 10:18	367-12-4	
2,4,6-Tribromophenol (S)	116 %		39-120	2	02/13/14 00:00	02/14/14 10:18	118-79-6	
624 Volatile Organics								
Analytical Method: EPA 624 Low								
Acetone	128000 ug/L		2000	200		02/14/14 12:59	67-64-1	N2
Benzene	ND ug/L		200	200		02/14/14 12:59	71-43-2	
Bromodichloromethane	ND ug/L		200	200		02/14/14 12:59	75-27-4	
Bromoform	ND ug/L		200	200		02/14/14 12:59	75-25-2	
Bromomethane	ND ug/L		1000	200		02/14/14 12:59	74-83-9	
2-Butanone (MEK)	90400 ug/L		2000	200		02/14/14 12:59	78-93-3	N2
Carbon tetrachloride	ND ug/L		200	200		02/14/14 12:59	56-23-5	
Chloroethane	ND ug/L		200	200		02/14/14 12:59	75-00-3	
Chloroform	ND ug/L		200	200		02/14/14 12:59	67-66-3	
1,4-Dichlorobenzene	874 ug/L		200	200		02/14/14 12:59	106-46-7	
1,2-Dichloroethane	ND ug/L		200	200		02/14/14 12:59	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200	200		02/14/14 12:59	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		200	200		02/14/14 12:59	156-60-5	
Ethylbenzene	ND ug/L		200	200		02/14/14 12:59	100-41-4	
Methylene chloride	ND ug/L		200	200		02/14/14 12:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	4850 ug/L		2000	200		02/14/14 12:59	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		02/14/14 12:59	79-34-5	N2
Tetrachloroethene	ND ug/L		200	200		02/14/14 12:59	127-18-4	
Toluene	ND ug/L		200	200		02/14/14 12:59	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		02/14/14 12:59	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		02/14/14 12:59	79-00-5	
Trichloroethene	ND ug/L		200	200		02/14/14 12:59	79-01-6	
Vinyl chloride	ND ug/L		200	200		02/14/14 12:59	75-01-4	
Xylene (Total)	ND ug/L		600	200		02/14/14 12:59	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	97 %		80-120	200		02/14/14 12:59	460-00-4	
Toluene-d8 (S)	102 %		80-120	200		02/14/14 12:59	2037-26-5	
1,2-Dichloroethane-d4 (S)	99 %		80-120	200		02/14/14 12:59	17060-07-0	
Preservation pH	6.0		1.0	200		02/14/14 12:59		
HEM, Oil and Grease								
Analytical Method: EPA 1664A								
Oil and Grease	1100 mg/L		5.0	1		02/18/14 07:28		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-215

Pace Project No.: 60162763

Sample: 316-215		Lab ID: 60162763001	Collected: 02/11/14 11:00	Received: 02/12/14 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	8.3	mg/L	5.0	1		02/18/14 07:22		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	4020	mg/L	5.0	1		02/13/14 13:36		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.5	Std. Units	0.10	1		02/17/14 13:25		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	36200	mg/L	2.0	1	02/13/14 09:37	02/18/14 12:39		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	718	mg/L	20.0	200		02/12/14 11:37	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	63500	mg/L	5000	500		02/17/14 12:02		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-215

Pace Project No.: 60162763

Sample: TRIP BLANK		Lab ID: 60162763002	Collected: 02/11/14 11:00	Received: 02/12/14 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		02/14/14 13:29	67-64-1	N2
Benzene	ND ug/L		1.0	1		02/14/14 13:29	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		02/14/14 13:29	75-27-4	
Bromoform	ND ug/L		1.0	1		02/14/14 13:29	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/14/14 13:29	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		02/14/14 13:29	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		02/14/14 13:29	56-23-5	
Chloroethane	ND ug/L		1.0	1		02/14/14 13:29	75-00-3	
Chloroform	ND ug/L		1.0	1		02/14/14 13:29	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		02/14/14 13:29	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		02/14/14 13:29	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		02/14/14 13:29	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		02/14/14 13:29	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		02/14/14 13:29	100-41-4	
Methylene chloride	ND ug/L		1.0	1		02/14/14 13:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		02/14/14 13:29	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		02/14/14 13:29	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		02/14/14 13:29	127-18-4	
Toluene	ND ug/L		1.0	1		02/14/14 13:29	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		02/14/14 13:29	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		02/14/14 13:29	79-00-5	
Trichloroethene	ND ug/L		1.0	1		02/14/14 13:29	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		02/14/14 13:29	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		02/14/14 13:29	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	1		02/14/14 13:29	460-00-4	
Toluene-d8 (S)	102 %		80-120	1		02/14/14 13:29	2037-26-5	
1,2-Dichloroethane-d4 (S)	94 %		80-120	1		02/14/14 13:29	17060-07-0	
Preservation pH	6.0		1.0	1		02/14/14 13:29		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-215

Pace Project No.: 60162763

QC Batch: MERP/8130

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60162763001

METHOD BLANK: 1329221

Matrix: Water

Associated Lab Samples: 60162763001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/13/14 09:31	

LABORATORY CONTROL SAMPLE: 1329222

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1329223 1329224

Parameter	Units	60161465018		MS		MSD		MS		MSD		% Rec		Max		Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD				
Mercury	ug/L	8.2	5	5	5	13.5	13.4	106	105	70-130	0	20				

MATRIX SPIKE SAMPLE: 1329260

Parameter	Units	60162743001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.1	83	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-215

Pace Project No.: 60162763

QC Batch: MERP/8128	Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1	Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60162763001	

METHOD BLANK: 1329206 Matrix: Water
Associated Lab Samples: 60162763001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/13/14 10:36	

LABORATORY CONTROL SAMPLE: 1329207

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: 1329208 1329209

Parameter	Units	60162664001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Mercury, Dissolved	ug/L	ND	150	150	98.1	98.7	65	66	70-130	1	20	M1	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-215
Pace Project No.: 60162763

QC Batch: MPRP/26146 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60162763001

METHOD BLANK: 1329396 Matrix: Water
Associated Lab Samples: 60162763001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	02/14/14 10:17	
Antimony	ug/L	ND	10.0	02/14/14 10:17	
Arsenic	ug/L	ND	10.0	02/14/14 10:17	
Beryllium	ug/L	ND	1.0	02/14/14 10:17	
Cadmium	ug/L	ND	5.0	02/14/14 10:17	
Chromium	ug/L	ND	5.0	02/14/14 10:17	
Cobalt	ug/L	ND	5.0	02/14/14 10:17	
Copper	ug/L	ND	10.0	02/14/14 10:17	
Iron	ug/L	ND	50.0	02/14/14 10:17	
Lead	ug/L	ND	5.0	02/14/14 10:17	
Nickel	ug/L	ND	5.0	02/14/14 10:17	
Selenium	ug/L	ND	15.0	02/14/14 10:17	
Silver	ug/L	ND	7.0	02/14/14 10:17	
Thallium	ug/L	ND	20.0	02/14/14 10:17	
Zinc	ug/L	ND	50.0	02/14/14 10:17	

LABORATORY CONTROL SAMPLE: 1329397

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	11300	113	85-115	
Antimony	ug/L	1000	1010	101	85-115	
Arsenic	ug/L	1000	962	96	85-115	
Beryllium	ug/L	1000	1140	114	85-115	
Cadmium	ug/L	1000	990	99	85-115	
Chromium	ug/L	1000	989	99	85-115	
Cobalt	ug/L	1000	1010	101	85-115	
Copper	ug/L	1000	984	98	85-115	
Iron	ug/L	10000	11400	114	85-115	
Lead	ug/L	1000	1020	102	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1000	100	85-115	
Silver	ug/L	500	477	95	85-115	
Thallium	ug/L	1000	1000	100	85-115	
Zinc	ug/L	1000	997	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1329398 1329399

Parameter	Units	60161800004		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum	ug/L	1900	10000	10000	11700	11700	98	98	70-130	0	8		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-215

Pace Project No.: 60162763

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1329398												1329399											
Parameter	Units	60161800004		MS	MSD	MS		MSD	% Rec		Max		Qual										
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	RPD	RPD											
Antimony	ug/L	749	1000	1000	1000	1740	1720	99	97	70-130	1	7											
Arsenic	ug/L	698	1000	1000	1000	1650	1630	96	93	70-130	1	10											
Beryllium	ug/L	362	1000	1000	1000	1370	1360	100	99	70-130	1	7											
Cadmium	ug/L	532	1000	1000	1000	1510	1490	98	96	70-130	2	10											
Chromium	ug/L	785	1000	1000	1000	1760	1750	98	97	70-130	1	10											
Cobalt	ug/L	638	1000	1000	1000	1640	1610	100	97	70-130	2	6											
Copper	ug/L	326	1000	1000	1000	1290	1280	97	95	70-130	1	11											
Iron	ug/L	791	10000	10000	10000	10800	10700	100	99	70-130	0	10											
Lead	ug/L	556	1000	1000	1000	1560	1530	100	97	70-130	2	10											
Nickel	ug/L	2560	1000	1000	1000	3520	3460	96	90	70-130	2	10											
Selenium	ug/L	1810	1000	1000	1000	2790	2740	98	94	70-130	2	10											
Silver	ug/L	287	500	500	500	751	745	93	92	70-130	1	10											
Thallium	ug/L	753	1000	1000	1000	1740	1710	98	96	70-130	1	6											
Zinc	ug/L	265	1000	1000	1000	1260	1230	99	97	70-130	2	11											

MATRIX SPIKE SAMPLE: 1329400											
Parameter	Units	60162622001		Spike	MS	MS		% Rec		Qualifiers	
		Result	Conc.	Conc.	Result	% Rec	Limits				
Aluminum	ug/L			105	10000			99		70-130	
Antimony	ug/L				1000			103		70-130	
Arsenic	ug/L				1000			99		70-130	
Beryllium	ug/L				1000			99		70-130	
Cadmium	ug/L				1000			100		70-130	
Chromium	ug/L				1000			96		70-130	
Cobalt	ug/L				1000			98		70-130	
Copper	ug/L				1000			98		70-130	
Iron	ug/L			52.0	10000			99		70-130	
Lead	ug/L				1000			97		70-130	
Nickel	ug/L				1000			99		70-130	
Selenium	ug/L				1000			102		70-130	
Silver	ug/L				500			96		70-130	
Thallium	ug/L				1000			95		70-130	
Zinc	ug/L				1000			96		70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-215

Pace Project No.: 60162763

QC Batch: MPRP/26171 Analysis Method: EPA 200.7
 QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
 Associated Lab Samples: 60162763001

METHOD BLANK: 1331054 Matrix: Water

Associated Lab Samples: 60162763001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	02/18/14 16:08	
Antimony, Dissolved	ug/L	ND	10.0	02/18/14 16:08	
Arsenic, Dissolved	ug/L	ND	10.0	02/18/14 16:08	
Beryllium, Dissolved	ug/L	ND	1.0	02/18/14 16:08	
Cadmium, Dissolved	ug/L	ND	5.0	02/18/14 16:08	
Chromium, Dissolved	ug/L	ND	5.0	02/18/14 16:08	
Cobalt, Dissolved	ug/L	ND	5.0	02/18/14 16:08	
Copper, Dissolved	ug/L	ND	10.0	02/18/14 16:08	
Iron, Dissolved	ug/L	ND	50.0	02/18/14 16:08	
Lead, Dissolved	ug/L	ND	5.0	02/18/14 16:08	
Nickel, Dissolved	ug/L	ND	5.0	02/18/14 16:08	
Selenium, Dissolved	ug/L	ND	15.0	02/18/14 16:08	
Silver, Dissolved	ug/L	ND	7.0	02/18/14 16:08	
Thallium, Dissolved	ug/L	ND	20.0	02/18/14 16:08	
Zinc, Dissolved	ug/L	ND	50.0	02/18/14 16:08	

LABORATORY CONTROL SAMPLE: 1331055

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	988	99	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	1030	103	85-115	
Copper, Dissolved	ug/L	1000	1000	100	85-115	
Iron, Dissolved	ug/L	10000	9900	99	85-115	
Lead, Dissolved	ug/L	1000	1070	107	85-115	
Nickel, Dissolved	ug/L	1000	1060	106	85-115	
Selenium, Dissolved	ug/L	1000	1030	103	85-115	
Silver, Dissolved	ug/L	500	498	100	85-115	
Thallium, Dissolved	ug/L	1000	1070	107	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1331056 1331057

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result						
Aluminum, Dissolved	ug/L	3290	50000	50000	54100	54200	102	102	70-130	0	8

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-215

Pace Project No.: 60162763

Parameter	Units	60162755001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max	RPD	Qual
		Result	Conc.	Spike	Conc.	Result	Result	% Rec	% Rec								
Antimony, Dissolved	ug/L	52.2	5000	5000	5000	5410	5440	107	108	70-130	1	7					
Arsenic, Dissolved	ug/L	726	5000	5000	5000	6020	6150	106	108	70-130	2	10					
Beryllium, Dissolved	ug/L	ND	5000	5000	5000	4890	4840	98	97	70-130	1	7					
Cadmium, Dissolved	ug/L	ND	5000	5000	5000	5280	5280	105	105	70-130	0	10					
Chromium, Dissolved	ug/L	176	5000	5000	5000	4950	4930	95	95	70-130	0	10					
Cobalt, Dissolved	ug/L	40.1	5000	5000	5000	4940	4920	98	98	70-130	0	6					
Copper, Dissolved	ug/L	ND	5000	5000	5000	5230	5200	104	104	70-130	1	11					
Iron, Dissolved	ug/L	764000	50000	50000	50000	700000	777000	-128	25	70-130	10	10	M1				
Lead, Dissolved	ug/L	93.0	5000	5000	5000	4850	4810	95	94	70-130	1	10					
Nickel, Dissolved	ug/L	120	5000	5000	5000	5050	5020	99	98	70-130	1	10					
Selenium, Dissolved	ug/L	ND	5000	5000	5000	5980	6040	118	119	70-130	1	10					
Silver, Dissolved	ug/L	ND	2500	2500	2500	2620	2610	104	103	70-130	0	10					
Thallium, Dissolved	ug/L	ND	5000	5000	5000	4400	4330	88	87	70-130	2	6					
Zinc, Dissolved	ug/L	8070	5000	5000	5000	11700	12600	73	90	70-130	7	11					

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-215

Pace Project No.: 60162763

QC Batch: MSV/59425 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60162763001, 60162763002

METHOD BLANK: 1330132 Matrix: Water

Associated Lab Samples: 60162763001, 60162763002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/14/14 11:44	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/14/14 11:44	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	02/14/14 11:44	
1,2-Dichloroethane	ug/L	ND	1.0	02/14/14 11:44	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/14/14 11:44	
2-Butanone (MEK)	ug/L	ND	10.0	02/14/14 11:44	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/14/14 11:44	N2
Acetone	ug/L	ND	10.0	02/14/14 11:44	N2
Benzene	ug/L	ND	1.0	02/14/14 11:44	
Bromodichloromethane	ug/L	ND	1.0	02/14/14 11:44	
Bromoform	ug/L	ND	1.0	02/14/14 11:44	
Bromomethane	ug/L	ND	5.0	02/14/14 11:44	
Carbon tetrachloride	ug/L	ND	1.0	02/14/14 11:44	
Chloroethane	ug/L	ND	1.0	02/14/14 11:44	
Chloroform	ug/L	ND	1.0	02/14/14 11:44	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/14/14 11:44	N2
Ethylbenzene	ug/L	ND	1.0	02/14/14 11:44	
Methylene chloride	ug/L	ND	1.0	02/14/14 11:44	
Tetrachloroethene	ug/L	ND	1.0	02/14/14 11:44	
Toluene	ug/L	ND	1.0	02/14/14 11:44	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/14/14 11:44	
Trichloroethene	ug/L	ND	1.0	02/14/14 11:44	
Vinyl chloride	ug/L	ND	1.0	02/14/14 11:44	
Xylene (Total)	ug/L	ND	3.0	02/14/14 11:44	N2
1,2-Dichloroethane-d4 (S)	%	96	80-120	02/14/14 11:44	
4-Bromofluorobenzene (S)	%	99	80-120	02/14/14 11:44	
Toluene-d8 (S)	%	102	80-120	02/14/14 11:44	

LABORATORY CONTROL SAMPLE: 1330133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.1	100	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	18.2	91	59-138	N2
1,1,2-Trichloroethane	ug/L	20	18.9	94	69-127	
1,2-Dichloroethane	ug/L	20	18.9	94	71-129	
1,4-Dichlorobenzene	ug/L	20	19.7	98	68-124	
2-Butanone (MEK)	ug/L	100	92.2	92	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	90.2	90	61-120	N2
Acetone	ug/L	100	63.4	63	40-160	N2
Benzene	ug/L	20	19.0	95	73-129	
Bromodichloromethane	ug/L	20	19.7	98	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-215

Pace Project No.: 60162763

LABORATORY CONTROL SAMPLE: 1330133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.8	99	52-123	
Bromomethane	ug/L	20	13.9	70	10-160	
Carbon tetrachloride	ug/L	20	21.6	108	70-140	
Chloroethane	ug/L	20	20.9	104	42-160	
Chloroform	ug/L	20	19.8	99	60-120	
cis-1,2-Dichloroethene	ug/L	20	19.9	99	70-125	N2
Ethylbenzene	ug/L	20	21.1	106	66-133	
Methylene chloride	ug/L	20	18.4	92	56-135	
Tetrachloroethene	ug/L	20	21.3	107	64-143	
Toluene	ug/L	20	18.6	93	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.3	101	67-149	
Trichloroethene	ug/L	20	18.0	90	71-130	
Vinyl chloride	ug/L	20	20.3	102	41-160	
Xylene (Total)	ug/L	60	60.2	100	67-130	N2
1,2-Dichloroethane-d4 (S)	%			95	80-120	
4-Bromofluorobenzene (S)	%			96	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1330134

Parameter	Units	60162763001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4330	108	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3510	88	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	3810	95	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3670	92	49-155	
1,4-Dichlorobenzene	ug/L	874	4000	4750	97	18-147	
2-Butanone (MEK)	ug/L	90400	20000	100000	48	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	4850	20000	20000	76	40-160	N2
Acetone	ug/L	128000	20000	136000	41	40-160	N2
Benzene	ug/L	ND	4000	3900	97	37-151	
Bromodichloromethane	ug/L	ND	4000	3710	93	35-155	
Bromoform	ug/L	ND	4000	3590	90	45-133	
Bromomethane	ug/L	ND	4000	3020	76	10-160	
Carbon tetrachloride	ug/L	ND	4000	4680	117	70-140	
Chloroethane	ug/L	ND	4000	4500	113	14-160	
Chloroform	ug/L	ND	4000	3850	96	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3970	99	19-160	N2
Ethylbenzene	ug/L	ND	4000	3980	98	37-154	
Methylene chloride	ug/L	ND	4000	3660	90	15-156	
Tetrachloroethene	ug/L	ND	4000	4350	109	64-148	
Toluene	ug/L	ND	4000	3650	91	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4280	107	54-156	
Trichloroethene	ug/L	ND	4000	3670	92	71-157	
Vinyl chloride	ug/L	ND	4000	4770	119	10-160	
Xylene (Total)	ug/L	ND	12000	11800	99	12-153	N2
1,2-Dichloroethane-d4 (S)	%				96	80-120	
4-Bromofluorobenzene (S)	%				97	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-215

Pace Project No.: 60162763

MATRIX SPIKE SAMPLE:		1330134					
Parameter	Units	60162763001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S) Preservation pH	%	6.0	6.0	6.0	101	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-215
Pace Project No.: 60162763

QC Batch: OEXT/42713 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60162763001

METHOD BLANK: 1329323 Matrix: Water
Associated Lab Samples: 60162763001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/14/14 08:55	
2,4,6-Trichlorophenol	ug/L	ND	5.0	02/14/14 08:55	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	02/14/14 08:55	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/14/14 08:55	
Hexachlorocyclopentadiene	ug/L	ND	5.0	02/14/14 08:55	
Hexachloroethane	ug/L	ND	5.0	02/14/14 08:55	
Naphthalene	ug/L	ND	5.0	02/14/14 08:55	
Nitrobenzene	ug/L	ND	5.0	02/14/14 08:55	
Pentachlorophenol	ug/L	ND	5.0	02/14/14 08:55	
Phenol	ug/L	ND	5.0	02/14/14 08:55	
2,4,6-Tribromophenol (S)	%	113	39-120	02/14/14 08:55	
2-Fluorobiphenyl (S)	%	89	39-120	02/14/14 08:55	
2-Fluorophenol (S)	%	38	17-120	02/14/14 08:55	
Nitrobenzene-d5 (S)	%	105	33-120	02/14/14 08:55	
Phenol-d6 (S)	%	27	11-120	02/14/14 08:55	
Terphenyl-d14 (S)	%	111	45-120	02/14/14 08:55	

LABORATORY CONTROL SAMPLE: 1329324

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	44.0	88	46-120	
2,4,6-Trichlorophenol	ug/L	50	44.0	88	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	46.5	93	40-133	
Hexachloro-1,3-butadiene	ug/L	50	47.3	95	44-116	
Hexachlorocyclopentadiene	ug/L	100	77.2	77	24-120	
Hexachloroethane	ug/L	50	38.8	78	43-113	
Naphthalene	ug/L	50	44.0	88	48-120	
Nitrobenzene	ug/L	50	48.5	97	48-120	
Pentachlorophenol	ug/L	50	47.2	94	47-120	
Phenol	ug/L	50	13.6	27	16-112	
2,4,6-Tribromophenol (S)	%			101	39-120	
2-Fluorobiphenyl (S)	%			85	39-120	
2-Fluorophenol (S)	%			38	17-120	
Nitrobenzene-d5 (S)	%			101	33-120	
Phenol-d6 (S)	%			27	11-120	
Terphenyl-d14 (S)	%			91	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-215

Pace Project No.: 60162763

MATRIX SPIKE SAMPLE:		1329325					
Parameter	Units	60162755001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3930	79	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4790	96	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4520J	90	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4170	83	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	7910	79	11-120	
Hexachloroethane	ug/L	ND	5000	3900	78	40-113	
Naphthalene	ug/L	ND	5000	4000	80	45-120	
Nitrobenzene	ug/L	ND	5000	6300	126	38-120	M1
Pentachlorophenol	ug/L	ND	5000	5120	102	43-135	
Phenol	ug/L	11000	5000	9530	-30	13-112	M1
2,4,6-Tribromophenol (S)	%				108	39-120	
2-Fluorobiphenyl (S)	%				87	39-120	
2-Fluorophenol (S)	%				43	17-120	
Nitrobenzene-d5 (S)	%				141	33-120	S0
Phenol-d6 (S)	%				31	11-120	
Terphenyl-d14 (S)	%				86	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-215

Pace Project No.: 60162763

QC Batch:	WET/46131	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60162763001		

METHOD BLANK: 1329730 Matrix: Water

Associated Lab Samples: 60162763001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/18/14 07:24	

LABORATORY CONTROL SAMPLE: 1329731

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	37.5	94	78-114	

MATRIX SPIKE SAMPLE: 1329732

Parameter	Units	60162470001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	50.6	44	89.2	88	78-114	

SAMPLE DUPLICATE: 1329733

Parameter	Units	60162660001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	33.1	36.3	9	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-215

Pace Project No.: 60162763

QC Batch:	WET/46132	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60162763001		

METHOD BLANK: 1329742 Matrix: Water
Associated Lab Samples: 60162763001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	02/18/14 07:21	

LABORATORY CONTROL SAMPLE: 1329743

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	21.9	110	64-132	

MATRIX SPIKE SAMPLE: 1329744

Parameter	Units	60162470001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	12.5	22	24.5	55	64-132	M1

SAMPLE DUPLICATE: 1329745

Parameter	Units	60162660001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	8.1	9.6	17	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-215

Pace Project No.: 60162763

QC Batch:	WET/46125	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	60162763001		

METHOD BLANK: 1329570 Matrix: Water

Associated Lab Samples: 60162763001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	02/13/14 13:34	

SAMPLE DUPLICATE: 1329571

Parameter	Units	60162793001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 1329572

Parameter	Units	60162843001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	236	244	3	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-215

Pace Project No.: 60162763

QC Batch: WET/46171 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60162763001

SAMPLE DUPLICATE: 1330865

Parameter	Units	60162755001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.1	5.2	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-215

Pace Project No.: 60162763

QC Batch: WET/46115

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60162763001

METHOD BLANK: 1329343

Matrix: Water

Associated Lab Samples: 60162763001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	02/18/14 11:59	

LABORATORY CONTROL SAMPLE: 1329344

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	210	106	85-115	

SAMPLE DUPLICATE: 1329565

Parameter	Units	60162811001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	852	846	1	17	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-215

Pace Project No.: 60162763

QC Batch:	WETA/28159	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60162763001		

METHOD BLANK: 1328926 Matrix: Water
Associated Lab Samples: 60162763001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/12/14 11:04	

LABORATORY CONTROL SAMPLE: 1328927

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1328928

Parameter	Units	60162736006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.7	87	90-110	M1

MATRIX SPIKE SAMPLE: 1328929

Parameter	Units	60162749002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	30.7	20	45.5	74	90-110	M1

SAMPLE DUPLICATE: 1328930

Parameter	Units	60162756001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	4.5	4.5	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-215

Pace Project No.: 60162763

QC Batch:	WETA/28196	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60162763001		

METHOD BLANK: 1330094 Matrix: Water
Associated Lab Samples: 60162763001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/17/14 11:32	

LABORATORY CONTROL SAMPLE: 1330095

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	52.6	105	90-110	

MATRIX SPIKE SAMPLE: 1330096

Parameter	Units	60162472005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	3180	2500	5630	98	90-110	

MATRIX SPIKE SAMPLE: 1330098

Parameter	Units	60162605001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	10900	5000	15400	91	90-110	

SAMPLE DUPLICATE: 1330097

Parameter	Units	60162524002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	3880	4010	3	25	

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QUALIFIERS

Project: BRIDGETON LF 316-215

Pace Project No.: 60162763

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 316-215

Pace Project No.: 60162763

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60162763001	316-215	EPA 200.7	MPRP/26146	EPA 200.7	ICP/19981
60162763001	316-215	EPA 200.7	MPRP/26171	EPA 200.7	ICP/19997
60162763001	316-215	EPA 245.1	MERP/8130	EPA 245.1	MERC/8084
60162763001	316-215	EPA 245.1	MERP/8128	EPA 245.1	MERC/8085
60162763001	316-215	EPA 625	OEXT/42713	EPA 625	MSSV/13590
60162763001	316-215	EPA 624 Low	MSV/59425		
60162763002	TRIP BLANK	EPA 624 Low	MSV/59425		
60162763001	316-215	EPA 1664A	WET/46131		
60162763001	316-215	EPA 1664A	WET/46132		
60162763001	316-215	SM 2540D	WET/46125		
60162763001	316-215	SM 4500-H+B	WET/46171		
60162763001	316-215	SM 5210B	WET/46115	SM 5210B	WET/46206
60162763001	316-215	EPA 350.1	WETA/28159		
60162763001	316-215	EPA 410.4	WETA/28196		

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Sample Condition Upon Receipt

WO#: 60162763



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 2PIC

Thermometer Used: T-238 / T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 2-0

Date and initials of person examining contents: pu 2/12/14

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOD, PH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Includes date/time/ID/analyses Matrix: <u>WT</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>Added 2.5 ml of H₂O₂ to BP32. PH 6.0/4.0</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>Added 2.0 ml of H₂SO₄ to BP33. PH 6.0/3.5</u>
Exceptions: <u>VOA</u> , coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>pu</u> Lot # of added preservative <u>12513</u> <u>12514</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>cover</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MO</u>

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 2/12/14

February 26, 2014

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

RE: Project: BRIDGETON LF 316-216R2
Pace Project No.: 60162845

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 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.

Amended report revised 022614 to correct total metals reported.

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 316-216R2

Pace Project No.: 60162845

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 316-216R2

Pace Project No.: 60162845

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60162845001	316-216R2	Water	02/12/14 11:30	02/13/14 00:50
60162845002	TRIP BLANK	Water	02/12/14 11:30	02/13/14 00:50

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-216R2

Pace Project No.: 60162845

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60162845001	316-216R2	EPA 200.7	JGP	15
		EPA 200.7	TJT	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	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	JMC1	1
		60162845002	TRIP BLANK	EPA 624 Low

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-216R2

Pace Project No.: 60162845

Sample: 316-216R2		Lab ID: 60162845001	Collected: 02/12/14 11:30	Received: 02/13/14 00:50	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	11200 ug/L		750	2	02/13/14 09:45	02/14/14 12:25	7429-90-5	
Antimony	ND ug/L		100	2	02/13/14 09:45	02/14/14 12:25	7440-36-0	D3
Arsenic	1090 ug/L		50.0	1	02/13/14 09:45	02/14/14 12:21	7440-38-2	
Beryllium	ND ug/L		5.0	1	02/13/14 09:45	02/14/14 12:21	7440-41-7	
Cadmium	ND ug/L		25.0	1	02/13/14 09:45	02/14/14 12:21	7440-43-9	
Chromium	307 ug/L		25.0	1	02/13/14 09:45	02/14/14 12:21	7440-47-3	
Cobalt	59.2 ug/L		25.0	1	02/13/14 09:45	02/14/14 12:21	7440-48-4	
Copper	ND ug/L		50.0	1	02/13/14 09:45	02/14/14 12:21	7440-50-8	
Iron	836000 ug/L		250	1	02/13/14 09:45	02/14/14 12:21	7439-89-6	
Lead	138 ug/L		25.0	1	02/13/14 09:45	02/14/14 12:21	7439-92-1	
Nickel	155 ug/L		25.0	1	02/13/14 09:45	02/14/14 12:21	7440-02-0	
Selenium	ND ug/L		75.0	1	02/13/14 09:45	02/14/14 12:21	7782-49-2	
Silver	ND ug/L		35.0	1	02/13/14 09:45	02/14/14 12:21	7440-22-4	
Thallium	ND ug/L		100	1	02/13/14 09:45	02/14/14 12:21	7440-28-0	
Zinc	8370 ug/L		500	2	02/13/14 09:45	02/14/14 12:25	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	2740 ug/L		750	2	02/19/14 11:48	02/19/14 17:23	7429-90-5	
Antimony, Dissolved	ND ug/L		100	2	02/19/14 11:48	02/26/14 09:23	7440-36-0	
Arsenic, Dissolved	986 ug/L		50.0	1	02/19/14 11:48	02/19/14 17:21	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	02/19/14 11:48	02/19/14 17:21	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	02/19/14 11:48	02/19/14 17:21	7440-43-9	
Chromium, Dissolved	256 ug/L		25.0	1	02/19/14 11:48	02/19/14 17:21	7440-47-3	
Cobalt, Dissolved	37.6 ug/L		25.0	1	02/19/14 11:48	02/19/14 17:21	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	02/19/14 11:48	02/19/14 17:21	7440-50-8	
Iron, Dissolved	678000 ug/L		250	1	02/19/14 11:48	02/19/14 17:21	7439-89-6	
Lead, Dissolved	76.8 ug/L		25.0	1	02/19/14 11:48	02/19/14 17:21	7439-92-1	
Nickel, Dissolved	103 ug/L		25.0	1	02/19/14 11:48	02/19/14 17:21	7440-02-0	
Selenium, Dissolved	ND ug/L		150	2	02/19/14 11:48	02/26/14 09:23	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	02/19/14 11:48	02/19/14 17:21	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	02/19/14 11:48	02/19/14 17:21	7440-28-0	
Zinc, Dissolved	7360 ug/L		500	2	02/19/14 11:48	02/19/14 17:23	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND ug/L		6.0	1	02/13/14 14:30	02/14/14 13:29	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	02/19/14 14:45	02/20/14 12:04	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	02/18/14 00:00	02/19/14 13:45	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	02/18/14 00:00	02/19/14 13:45	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	02/18/14 00:00	02/19/14 13:45	77-47-4	
Hexachloroethane	ND ug/L		1000	2	02/18/14 00:00	02/19/14 13:45	67-72-1	
Naphthalene	1850 ug/L		1000	2	02/18/14 00:00	02/19/14 13:45	91-20-3	
Nitrobenzene	ND ug/L		1000	2	02/18/14 00:00	02/19/14 13:45	98-95-3	M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-216R2

Pace Project No.: 60162845

Sample: 316-216R2		Lab ID: 60162845001	Collected: 02/12/14 11:30	Received: 02/13/14 00:50	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	02/18/14 00:00	02/19/14 13:45	87-86-5	
Phenol	12300 ug/L		1000	2	02/18/14 00:00	02/19/14 13:45	108-95-2	M1
1,2,4-Trichlorobenzene	ND ug/L		1000	2	02/18/14 00:00	02/19/14 13:45	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	02/18/14 00:00	02/19/14 13:45	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	131 %		33-120	2	02/18/14 00:00	02/19/14 13:45	4165-60-0	S0
2-Fluorobiphenyl (S)	84 %		39-120	2	02/18/14 00:00	02/19/14 13:45	321-60-8	
Terphenyl-d14 (S)	90 %		45-120	2	02/18/14 00:00	02/19/14 13:45	1718-51-0	
Phenol-d6 (S)	35 %		11-120	2	02/18/14 00:00	02/19/14 13:45	13127-88-3	
2-Fluorophenol (S)	46 %		17-120	2	02/18/14 00:00	02/19/14 13:45	367-12-4	
2,4,6-Tribromophenol (S)	94 %		39-120	2	02/18/14 00:00	02/19/14 13:45	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	125000 ug/L		2000	200		02/14/14 13:59	67-64-1	N2
Benzene	ND ug/L		200	200		02/14/14 13:59	71-43-2	
Bromodichloromethane	ND ug/L		200	200		02/14/14 13:59	75-27-4	
Bromoform	ND ug/L		200	200		02/14/14 13:59	75-25-2	
Bromomethane	ND ug/L		1000	200		02/14/14 13:59	74-83-9	
2-Butanone (MEK)	84600 ug/L		2000	200		02/14/14 13:59	78-93-3	N2
Carbon tetrachloride	ND ug/L		200	200		02/14/14 13:59	56-23-5	
Chloroethane	ND ug/L		200	200		02/14/14 13:59	75-00-3	
Chloroform	ND ug/L		200	200		02/14/14 13:59	67-66-3	
1,4-Dichlorobenzene	1950 ug/L		200	200		02/14/14 13:59	106-46-7	
1,2-Dichloroethane	ND ug/L		200	200		02/14/14 13:59	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200	200		02/14/14 13:59	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		200	200		02/14/14 13:59	156-60-5	
Ethylbenzene	309 ug/L		200	200		02/14/14 13:59	100-41-4	
Methylene chloride	ND ug/L		200	200		02/14/14 13:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	3850 ug/L		2000	200		02/14/14 13:59	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		02/14/14 13:59	79-34-5	N2
Tetrachloroethene	ND ug/L		200	200		02/14/14 13:59	127-18-4	
Toluene	ND ug/L		200	200		02/14/14 13:59	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		02/14/14 13:59	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		02/14/14 13:59	79-00-5	
Trichloroethene	ND ug/L		200	200		02/14/14 13:59	79-01-6	
Vinyl chloride	ND ug/L		200	200		02/14/14 13:59	75-01-4	
Xylene (Total)	1320 ug/L		600	200		02/14/14 13:59	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	96 %		80-120	200		02/14/14 13:59	460-00-4	
Toluene-d8 (S)	99 %		80-120	200		02/14/14 13:59	2037-26-5	
1,2-Dichloroethane-d4 (S)	94 %		80-120	200		02/14/14 13:59	17060-07-0	
Preservation pH	6.0		1.0	200		02/14/14 13:59		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	453 mg/L		5.0	1		02/18/14 15:23		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-216R2

Pace Project No.: 60162845

Sample: 316-216R2		Lab ID: 60162845001	Collected: 02/12/14 11:30	Received: 02/13/14 00:50	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		02/20/14 07:06		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	3380	mg/L	5.0	1		02/14/14 13:12		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.5	Std. Units	0.10	1		02/17/14 13:25		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	33400	mg/L	2.0	1	02/14/14 10:35	02/19/14 15:01		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	710	mg/L	20.0	200		02/18/14 11:31	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	63300	mg/L	5000	500		02/20/14 07:22		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-216R2

Pace Project No.: 60162845

Sample: TRIP BLANK		Lab ID: 60162845002	Collected: 02/12/14 11:30	Received: 02/13/14 00:50	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		02/14/14 14:14	67-64-1	N2
Benzene	ND ug/L		1.0	1		02/14/14 14:14	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		02/14/14 14:14	75-27-4	
Bromoform	ND ug/L		1.0	1		02/14/14 14:14	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/14/14 14:14	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		02/18/14 10:27	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		02/14/14 14:14	56-23-5	
Chloroethane	ND ug/L		1.0	1		02/14/14 14:14	75-00-3	
Chloroform	ND ug/L		1.0	1		02/14/14 14:14	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		02/14/14 14:14	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		02/14/14 14:14	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		02/14/14 14:14	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		02/14/14 14:14	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		02/14/14 14:14	100-41-4	
Methylene chloride	ND ug/L		1.0	1		02/14/14 14:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		02/14/14 14:14	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		02/14/14 14:14	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		02/14/14 14:14	127-18-4	
Toluene	ND ug/L		1.0	1		02/14/14 14:14	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		02/14/14 14:14	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		02/14/14 14:14	79-00-5	
Trichloroethene	ND ug/L		1.0	1		02/14/14 14:14	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		02/14/14 14:14	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		02/14/14 14:14	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	97 %		80-120	1		02/14/14 14:14	460-00-4	
Toluene-d8 (S)	101 %		80-120	1		02/14/14 14:14	2037-26-5	
1,2-Dichloroethane-d4 (S)	93 %		80-120	1		02/14/14 14:14	17060-07-0	
Preservation pH	6.0		1.0	1		02/14/14 14:14		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-216R2

Pace Project No.: 60162845

QC Batch: MERP/8136

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60162845001

METHOD BLANK: 1329738

Matrix: Water

Associated Lab Samples: 60162845001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/14/14 13:25	

LABORATORY CONTROL SAMPLE: 1329739

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1329740 1329741

Parameter	Units	60162861002		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	ND	Spike Conc.	Conc.	Result	Result	% Rec	% Rec						
Mercury	ug/L	ND	5	5	5	4.0	4.0	80	80	70-130	1	20			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-216R2

Pace Project No.: 60162845

QC Batch: MERP/8150

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60162845001

METHOD BLANK: 1332031

Matrix: Water

Associated Lab Samples: 60162845001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/20/14 12:00	

LABORATORY CONTROL SAMPLE: 1332032

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1332033 1332034

Parameter	Units	60162845001		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	ND	Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec	RPD	RPD				
Mercury, Dissolved	ug/L	ND	150	150	160	152	106	101	70-130	6	20			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-216R2

Pace Project No.: 60162845

QC Batch: MPRP/26146 Analysis Method: EPA 200.7
 QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
 Associated Lab Samples: 60162845001

METHOD BLANK: 1329396 Matrix: Water

Associated Lab Samples: 60162845001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	02/14/14 10:17	
Antimony	ug/L	ND	10.0	02/14/14 10:17	
Arsenic	ug/L	ND	10.0	02/14/14 10:17	
Beryllium	ug/L	ND	1.0	02/14/14 10:17	
Cadmium	ug/L	ND	5.0	02/14/14 10:17	
Chromium	ug/L	ND	5.0	02/14/14 10:17	
Cobalt	ug/L	ND	5.0	02/14/14 10:17	
Copper	ug/L	ND	10.0	02/14/14 10:17	
Iron	ug/L	ND	50.0	02/14/14 10:17	
Lead	ug/L	ND	5.0	02/14/14 10:17	
Nickel	ug/L	ND	5.0	02/14/14 10:17	
Selenium	ug/L	ND	15.0	02/14/14 10:17	
Silver	ug/L	ND	7.0	02/14/14 10:17	
Thallium	ug/L	ND	20.0	02/14/14 10:17	
Zinc	ug/L	ND	50.0	02/14/14 10:17	

LABORATORY CONTROL SAMPLE: 1329397

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	11300	113	85-115	
Antimony	ug/L	1000	1010	101	85-115	
Arsenic	ug/L	1000	962	96	85-115	
Beryllium	ug/L	1000	1140	114	85-115	
Cadmium	ug/L	1000	990	99	85-115	
Chromium	ug/L	1000	989	99	85-115	
Cobalt	ug/L	1000	1010	101	85-115	
Copper	ug/L	1000	984	98	85-115	
Iron	ug/L	10000	11400	114	85-115	
Lead	ug/L	1000	1020	102	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1000	100	85-115	
Silver	ug/L	500	477	95	85-115	
Thallium	ug/L	1000	1000	100	85-115	
Zinc	ug/L	1000	997	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1329398 1329399

Parameter	Units	60161800004		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum	ug/L	1900	10000	10000	11700	11700	98	98	70-130	0	8		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-216R2

Pace Project No.: 60162845

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1329398 1329399												
Parameter	Units	60161800004		MS	MSD	MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Antimony	ug/L	749	1000	1000	1740	1720	99	97	70-130	1	7	
Arsenic	ug/L	698	1000	1000	1650	1630	96	93	70-130	1	10	
Beryllium	ug/L	362	1000	1000	1370	1360	100	99	70-130	1	7	
Cadmium	ug/L	532	1000	1000	1510	1490	98	96	70-130	2	10	
Chromium	ug/L	785	1000	1000	1760	1750	98	97	70-130	1	10	
Cobalt	ug/L	638	1000	1000	1640	1610	100	97	70-130	2	6	
Copper	ug/L	326	1000	1000	1290	1280	97	95	70-130	1	11	
Iron	ug/L	791	10000	10000	10800	10700	100	99	70-130	0	10	
Lead	ug/L	556	1000	1000	1560	1530	100	97	70-130	2	10	
Nickel	ug/L	2560	1000	1000	3520	3460	96	90	70-130	2	10	
Selenium	ug/L	1810	1000	1000	2790	2740	98	94	70-130	2	10	
Silver	ug/L	287	500	500	751	745	93	92	70-130	1	10	
Thallium	ug/L	753	1000	1000	1740	1710	98	96	70-130	1	6	
Zinc	ug/L	265	1000	1000	1260	1230	99	97	70-130	2	11	

MATRIX SPIKE SAMPLE: 1329400								
Parameter	Units	60162622001		Spike Conc.	MS	MS	% Rec Limits	Qualifiers
		Result	Conc.		Result	% Rec		
Aluminum	ug/L		105	10000	10000	99	70-130	
Antimony	ug/L			1000	1030	103	70-130	
Arsenic	ug/L			1000	998	99	70-130	
Beryllium	ug/L			1000	993	99	70-130	
Cadmium	ug/L			1000	1000	100	70-130	
Chromium	ug/L			1000	965	96	70-130	
Cobalt	ug/L			1000	980	98	70-130	
Copper	ug/L			1000	980	98	70-130	
Iron	ug/L		52.0	10000	9930	99	70-130	
Lead	ug/L			1000	974	97	70-130	
Nickel	ug/L			1000	990	99	70-130	
Selenium	ug/L			1000	1020	102	70-130	
Silver	ug/L			500	479	96	70-130	
Thallium	ug/L			1000	947	95	70-130	
Zinc	ug/L			1000	966	96	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-216R2

Pace Project No.: 60162845

QC Batch:	MPRP/26195	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60162845001		

METHOD BLANK: 1331781 Matrix: Water

Associated Lab Samples: 60162845001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	02/19/14 17:19	
Antimony, Dissolved	ug/L	ND	10.0	02/19/14 17:19	
Arsenic, Dissolved	ug/L	ND	10.0	02/19/14 17:19	
Beryllium, Dissolved	ug/L	ND	1.0	02/19/14 17:19	
Cadmium, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Chromium, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Cobalt, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Copper, Dissolved	ug/L	ND	10.0	02/19/14 17:19	
Iron, Dissolved	ug/L	ND	50.0	02/19/14 17:19	
Lead, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Nickel, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Selenium, Dissolved	ug/L	ND	15.0	02/19/14 17:19	
Silver, Dissolved	ug/L	ND	7.0	02/19/14 17:19	
Thallium, Dissolved	ug/L	ND	20.0	02/19/14 17:19	
Zinc, Dissolved	ug/L	ND	50.0	02/19/14 17:19	

LABORATORY CONTROL SAMPLE: 1331782

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	1050	105	85-115	
Arsenic, Dissolved	ug/L	1000	1000	100	85-115	
Beryllium, Dissolved	ug/L	1000	997	100	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	1020	102	85-115	
Iron, Dissolved	ug/L	10000	9650	96	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	1060	106	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: 1331783 1331784

Parameter	Units	60162942001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum, Dissolved	ug/L	2690	50000	50000	54700	53600	104	102	70-130	2	8		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-216R2

Pace Project No.: 60162845

Parameter	60162942001		MS		MSD		MS		MSD		Max	
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Antimony, Dissolved	ug/L	50.8	5000	5000	5510	5510	109	109	70-130	0	7	
Arsenic, Dissolved	ug/L	917	5000	5000	6520	6540	112	112	70-130	0	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	4840	4800	97	96	70-130	1	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5520	5590	110	111	70-130	1	10	
Chromium, Dissolved	ug/L	262	5000	5000	5280	5230	100	99	70-130	1	10	
Cobalt, Dissolved	ug/L	33.1	5000	5000	5040	5120	100	102	70-130	2	6	
Copper, Dissolved	ug/L	ND	5000	5000	5320	5240	106	105	70-130	1	11	
Iron, Dissolved	ug/L	648000	50000	50000	674000	602000	52	-92	70-130	11	10	M1, R1
Lead, Dissolved	ug/L	89.8	5000	5000	4800	4820	94	95	70-130	1	10	
Nickel, Dissolved	ug/L	94.4	5000	5000	5060	5060	99	99	70-130	0	10	
Selenium, Dissolved	ug/L	ND	5000	5000	6220	6200	123	123	70-130	0	10	
Silver, Dissolved	ug/L	ND	2500	2500	2640	2580	106	103	70-130	2	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4340	4470	87	89	70-130	3	6	
Zinc, Dissolved	ug/L	8120	5000	5000	13000	12500	97	88	70-130	4	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-216R2

Pace Project No.: 60162845

QC Batch: MSV/59425 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60162845001, 60162845002

METHOD BLANK: 1330132 Matrix: Water

Associated Lab Samples: 60162845001, 60162845002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/14/14 11:44	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/14/14 11:44	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	02/14/14 11:44	
1,2-Dichloroethane	ug/L	ND	1.0	02/14/14 11:44	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/14/14 11:44	
2-Butanone (MEK)	ug/L	ND	10.0	02/14/14 11:44	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/14/14 11:44	N2
Acetone	ug/L	ND	10.0	02/14/14 11:44	N2
Benzene	ug/L	ND	1.0	02/14/14 11:44	
Bromodichloromethane	ug/L	ND	1.0	02/14/14 11:44	
Bromoform	ug/L	ND	1.0	02/14/14 11:44	
Bromomethane	ug/L	ND	5.0	02/14/14 11:44	
Carbon tetrachloride	ug/L	ND	1.0	02/14/14 11:44	
Chloroethane	ug/L	ND	1.0	02/14/14 11:44	
Chloroform	ug/L	ND	1.0	02/14/14 11:44	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/14/14 11:44	N2
Ethylbenzene	ug/L	ND	1.0	02/14/14 11:44	
Methylene chloride	ug/L	ND	1.0	02/14/14 11:44	
Tetrachloroethene	ug/L	ND	1.0	02/14/14 11:44	
Toluene	ug/L	ND	1.0	02/14/14 11:44	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/14/14 11:44	
Trichloroethene	ug/L	ND	1.0	02/14/14 11:44	
Vinyl chloride	ug/L	ND	1.0	02/14/14 11:44	
Xylene (Total)	ug/L	ND	3.0	02/14/14 11:44	N2
1,2-Dichloroethane-d4 (S)	%	96	80-120	02/14/14 11:44	
4-Bromofluorobenzene (S)	%	99	80-120	02/14/14 11:44	
Toluene-d8 (S)	%	102	80-120	02/14/14 11:44	

LABORATORY CONTROL SAMPLE: 1330133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.1	100	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	18.2	91	59-138	N2
1,1,2-Trichloroethane	ug/L	20	18.9	94	69-127	
1,2-Dichloroethane	ug/L	20	18.9	94	71-129	
1,4-Dichlorobenzene	ug/L	20	19.7	98	68-124	
2-Butanone (MEK)	ug/L	100	92.2	92	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	90.2	90	61-120	N2
Acetone	ug/L	100	63.4	63	40-160	N2
Benzene	ug/L	20	19.0	95	73-129	
Bromodichloromethane	ug/L	20	19.7	98	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-216R2

Pace Project No.: 60162845

LABORATORY CONTROL SAMPLE: 1330133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.8	99	52-123	
Bromomethane	ug/L	20	13.9	70	10-160	
Carbon tetrachloride	ug/L	20	21.6	108	70-140	
Chloroethane	ug/L	20	20.9	104	42-160	
Chloroform	ug/L	20	19.8	99	60-120	
cis-1,2-Dichloroethene	ug/L	20	19.9	99	70-125	N2
Ethylbenzene	ug/L	20	21.1	106	66-133	
Methylene chloride	ug/L	20	18.4	92	56-135	
Tetrachloroethene	ug/L	20	21.3	107	64-143	
Toluene	ug/L	20	18.6	93	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.3	101	67-149	
Trichloroethene	ug/L	20	18.0	90	71-130	
Vinyl chloride	ug/L	20	20.3	102	41-160	
Xylene (Total)	ug/L	60	60.2	100	67-130	N2
1,2-Dichloroethane-d4 (S)	%			95	80-120	
4-Bromofluorobenzene (S)	%			96	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1330134

Parameter	Units	60162763001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4330	108	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3510	88	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	3810	95	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3670	92	49-155	
1,4-Dichlorobenzene	ug/L	874	4000	4750	97	18-147	
2-Butanone (MEK)	ug/L	90400	20000	100000	48	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	4850	20000	20000	76	40-160	N2
Acetone	ug/L	128000	20000	136000	41	40-160	N2
Benzene	ug/L	ND	4000	3900	97	37-151	
Bromodichloromethane	ug/L	ND	4000	3710	93	35-155	
Bromoform	ug/L	ND	4000	3590	90	45-133	
Bromomethane	ug/L	ND	4000	3020	76	10-160	
Carbon tetrachloride	ug/L	ND	4000	4680	117	70-140	
Chloroethane	ug/L	ND	4000	4500	113	14-160	
Chloroform	ug/L	ND	4000	3850	96	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3970	99	19-160	N2
Ethylbenzene	ug/L	ND	4000	3980	98	37-154	
Methylene chloride	ug/L	ND	4000	3660	90	15-156	
Tetrachloroethene	ug/L	ND	4000	4350	109	64-148	
Toluene	ug/L	ND	4000	3650	91	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4280	107	54-156	
Trichloroethene	ug/L	ND	4000	3670	92	71-157	
Vinyl chloride	ug/L	ND	4000	4770	119	10-160	
Xylene (Total)	ug/L	ND	12000	11800	99	12-153	N2
1,2-Dichloroethane-d4 (S)	%				96	80-120	
4-Bromofluorobenzene (S)	%				97	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-216R2

Pace Project No.: 60162845

MATRIX SPIKE SAMPLE:		1330134					
Parameter	Units	60162763001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S) Preservation pH	%	6.0	6.0	6.0	101	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-216R2

Pace Project No.: 60162845

QC Batch:	MSV/59461	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60162845002		

METHOD BLANK: 1331185 Matrix: Water

Associated Lab Samples: 60162845002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Butanone (MEK)	ug/L	ND	10.0	02/18/14 10:12	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	02/18/14 10:12	
4-Bromofluorobenzene (S)	%	100	80-120	02/18/14 10:12	
Toluene-d8 (S)	%	100	80-120	02/18/14 10:12	

LABORATORY CONTROL SAMPLE: 1331186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Butanone (MEK)	ug/L	100	93.9	94	48-142	N2
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			102	80-120	

MATRIX SPIKE SAMPLE: 1331187

Parameter	Units	60163031001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
2-Butanone (MEK)	ug/L	112000	20000	132000	99	40-160	N2
1,2-Dichloroethane-d4 (S)	%				103	80-120	
4-Bromofluorobenzene (S)	%				97	80-120	
Toluene-d8 (S)	%				97	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-216R2

Pace Project No.: 60162845

QC Batch:	OEXT/42756	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60162845001		

METHOD BLANK: 1330998 Matrix: Water

Associated Lab Samples: 60162845001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/19/14 12:01	
2,4,6-Trichlorophenol	ug/L	ND	5.0	02/19/14 12:01	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	02/19/14 12:01	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/19/14 12:01	
Hexachlorocyclopentadiene	ug/L	ND	5.0	02/19/14 12:01	
Hexachloroethane	ug/L	ND	5.0	02/19/14 12:01	
Naphthalene	ug/L	ND	5.0	02/19/14 12:01	
Nitrobenzene	ug/L	ND	5.0	02/19/14 12:01	
Pentachlorophenol	ug/L	ND	5.0	02/19/14 12:01	
Phenol	ug/L	ND	5.0	02/19/14 12:01	
2,4,6-Tribromophenol (S)	%	74	39-120	02/19/14 12:01	
2-Fluorobiphenyl (S)	%	75	39-120	02/19/14 12:01	
2-Fluorophenol (S)	%	54	17-120	02/19/14 12:01	
Nitrobenzene-d5 (S)	%	73	33-120	02/19/14 12:01	
Phenol-d6 (S)	%	36	11-120	02/19/14 12:01	
Terphenyl-d14 (S)	%	81	45-120	02/19/14 12:01	

LABORATORY CONTROL SAMPLE: 1330999

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	36.2	72	46-120	
2,4,6-Trichlorophenol	ug/L	50	39.4	79	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	46.6	93	40-133	
Hexachloro-1,3-butadiene	ug/L	50	30.1	60	44-116	
Hexachlorocyclopentadiene	ug/L	100	65.7	66	24-120	
Hexachloroethane	ug/L	50	38.4	77	43-113	
Naphthalene	ug/L	50	37.5	75	48-120	
Nitrobenzene	ug/L	50	29.9	60	48-120	
Pentachlorophenol	ug/L	50	44.7	89	47-120	
Phenol	ug/L	50	14.9	30	16-112	
2,4,6-Tribromophenol (S)	%			88	39-120	
2-Fluorobiphenyl (S)	%			77	39-120	
2-Fluorophenol (S)	%			45	17-120	
Nitrobenzene-d5 (S)	%			59	33-120	
Phenol-d6 (S)	%			30	11-120	
Terphenyl-d14 (S)	%			82	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-216R2

Pace Project No.: 60162845

MATRIX SPIKE SAMPLE:		1331000					
Parameter	Units	60162845001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3650	73	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	3880	78	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	3910J	78	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4000	80	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	5430	54	11-120	
Hexachloroethane	ug/L	ND	5000	4350	87	40-113	
Naphthalene	ug/L	1850	5000	5310	69	45-120	
Nitrobenzene	ug/L	ND	5000	7160	143	38-120	M1
Pentachlorophenol	ug/L	ND	5000	4020	80	43-135	
Phenol	ug/L	12300	5000	19000	134	13-112	M1
2,4,6-Tribromophenol (S)	%				83	39-120	
2-Fluorobiphenyl (S)	%				72	39-120	
2-Fluorophenol (S)	%				65	17-120	
Nitrobenzene-d5 (S)	%				148	33-120	S0
Phenol-d6 (S)	%				40	11-120	
Terphenyl-d14 (S)	%				77	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-216R2

Pace Project No.: 60162845

QC Batch:	WET/46196	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60162845001		

METHOD BLANK: 1331416 Matrix: Water

Associated Lab Samples: 60162845001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/18/14 15:22	

LABORATORY CONTROL SAMPLE: 1331417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	38.1	95	78-114	

MATRIX SPIKE SAMPLE: 1331418

Parameter	Units	60162610002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	45.5	41.7	89	78-114	

SAMPLE DUPLICATE: 1331419

Parameter	Units	60162631001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	1.3J		18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-216R2

Pace Project No.: 60162845

QC Batch:	WET/46216	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60162845001		

METHOD BLANK: 1332178 Matrix: Water
Associated Lab Samples: 60162845001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	02/20/14 07:05	

LABORATORY CONTROL SAMPLE: 1332179

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	22.2	111	64-132	

MATRIX SPIKE SAMPLE: 1332180

Parameter	Units	5093106002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	3.0J	22.2	18.1	68	64-132	

SAMPLE DUPLICATE: 1332181

Parameter	Units	60162579001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	4.5J		34	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-216R2

Pace Project No.: 60162845

QC Batch: WET/46139

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60162845001

METHOD BLANK: 1329858

Matrix: Water

Associated Lab Samples: 60162845001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	02/14/14 13:07	

SAMPLE DUPLICATE: 1329859

Parameter	Units	60162888001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	106	102	4	10	

SAMPLE DUPLICATE: 1329860

Parameter	Units	5093475001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	323	267	19	10	D6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-216R2

Pace Project No.: 60162845

QC Batch: WET/46171 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60162845001

SAMPLE DUPLICATE: 1330865

Parameter	Units	60162755001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.1	5.2	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-216R2

Pace Project No.: 60162845

QC Batch: WET/46147

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60162845001

METHOD BLANK: 1329954

Matrix: Water

Associated Lab Samples: 60162845001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	02/19/14 14:19	

LABORATORY CONTROL SAMPLE: 1329955

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

SAMPLE DUPLICATE: 1329956

Parameter	Units	60162819002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	41.8	42.6	2	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-216R2

Pace Project No.: 60162845

QC Batch: WETA/28216

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60162845001

METHOD BLANK: 1331102

Matrix: Water

Associated Lab Samples: 60162845001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/18/14 11:00	

LABORATORY CONTROL SAMPLE: 1331103

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	105	90-110	

MATRIX SPIKE SAMPLE: 1331104

Parameter	Units	60162751002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2.2	2	4.0	92	90-110	

MATRIX SPIKE SAMPLE: 1331105

Parameter	Units	60162787002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	3.9	2	5.4	79	90-110	M1

SAMPLE DUPLICATE: 1331106

Parameter	Units	60162819002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	23.0	22.6	2	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-216R2

Pace Project No.: 60162845

QC Batch:	WETA/28224	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60162845001		

METHOD BLANK: 1331260 Matrix: Water
Associated Lab Samples: 60162845001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/20/14 07:12	

LABORATORY CONTROL SAMPLE: 1331261

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	51.6	103	90-110	

MATRIX SPIKE SAMPLE: 1331262

Parameter	Units	60162584001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	53400	25000	74600	85	90-110	M1

MATRIX SPIKE SAMPLE: 1331264

Parameter	Units	60162845001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	63300	25000	85800	90	90-110	

SAMPLE DUPLICATE: 1331263

Parameter	Units	60162678001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	9900	10400	5	25	

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QUALIFIERS

Project: BRIDGETON LF 316-216R2

Pace Project No.: 60162845

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.
- R1 RPD value was outside control limits.
- S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-216R2

Pace Project No.: 60162845

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60162845001	316-216R2	EPA 200.7	MPRP/26146	EPA 200.7	ICP/19981
60162845001	316-216R2	EPA 200.7	MPRP/26195	EPA 200.7	ICP/20009
60162845001	316-216R2	EPA 245.1	MERP/8136	EPA 245.1	MERC/8090
60162845001	316-216R2	EPA 245.1	MERP/8150	EPA 245.1	MERC/8107
60162845001	316-216R2	EPA 625	OEXT/42756	EPA 625	MSSV/13612
60162845001	316-216R2	EPA 624 Low	MSV/59425		
60162845002	TRIP BLANK	EPA 624 Low	MSV/59425		
60162845002	TRIP BLANK	EPA 624 Low	MSV/59461		
60162845001	316-216R2	EPA 1664A	WET/46196		
60162845001	316-216R2	EPA 1664A	WET/46216		
60162845001	316-216R2	SM 2540D	WET/46139		
60162845001	316-216R2	SM 4500-H+B	WET/46171		
60162845001	316-216R2	SM 5210B	WET/46147	SM 5210B	WET/46213
60162845001	316-216R2	EPA 350.1	WETA/28216		
60162845001	316-216R2	EPA 410.4	WETA/28224		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60162845



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 2 PIC

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

Cooler Temperature: 2.0

Temperature should be above freezing to 6°C

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: <u>pu/13/14</u>

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOD pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: <u>VOA</u> coliform, TOC, <u>O&G</u> , WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	14.
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>cover</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MD</u>

pu/13/14
 Added 2.5ml of HNO3 to B222 BPTW. pH 6.0/4.0
 Added 2.0ml of H2SO4 to BPT35. pH 6.0/3.5
 Initial when completed pu Lot # of added preservative 12513
12514

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: 2/13/14

February 21, 2014

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

RE: Project: BRIDGETON LF 316-217
Pace Project No.: 60162942

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 14, 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 316-217

Pace Project No.: 60162942

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-217

Pace Project No.: 60162942

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60162942001	316-217	Water	02/13/14 11:00	02/14/14 01:20
60162942002	TRIP BLANK	Water	02/13/14 11:00	02/14/14 01:20

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-217

Pace Project No.: 60162942

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60162942001	316-217	EPA 200.7	JGP	15
		EPA 200.7	TJT	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	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	JMC1	1
		60162942002	TRIP BLANK	EPA 624 Low

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-217

Pace Project No.: 60162942

Sample: 316-217		Lab ID: 60162942001	Collected: 02/13/14 11:00	Received: 02/14/14 01:20	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	15200 ug/L		750	2	02/19/14 09:30	02/19/14 16:37	7429-90-5	
Antimony	65.6 ug/L		50.0	1	02/19/14 09:30	02/19/14 16:34	7440-36-0	
Arsenic	1160 ug/L		50.0	1	02/19/14 09:30	02/19/14 16:34	7440-38-2	
Beryllium	ND ug/L		5.0	1	02/19/14 09:30	02/19/14 16:34	7440-41-7	
Cadmium	ND ug/L		25.0	1	02/19/14 09:30	02/19/14 16:34	7440-43-9	
Chromium	340 ug/L		25.0	1	02/19/14 09:30	02/19/14 16:34	7440-47-3	
Cobalt	52.9 ug/L		25.0	1	02/19/14 09:30	02/19/14 16:34	7440-48-4	
Copper	ND ug/L		50.0	1	02/19/14 09:30	02/19/14 16:34	7440-50-8	
Iron	931000 ug/L		250	1	02/19/14 09:30	02/19/14 16:34	7439-89-6	
Lead	154 ug/L		25.0	1	02/19/14 09:30	02/19/14 16:34	7439-92-1	
Nickel	144 ug/L		25.0	1	02/19/14 09:30	02/19/14 16:34	7440-02-0	
Selenium	88.6 ug/L		75.0	1	02/19/14 09:30	02/19/14 16:34	7782-49-2	
Silver	ND ug/L		35.0	1	02/19/14 09:30	02/19/14 16:34	7440-22-4	
Thallium	ND ug/L		100	1	02/19/14 09:30	02/19/14 16:34	7440-28-0	
Zinc	10200 ug/L		500	2	02/19/14 09:30	02/19/14 16:37	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	2690 ug/L		750	2	02/19/14 11:48	02/19/14 17:28	7429-90-5	
Antimony, Dissolved	50.8 ug/L		50.0	1	02/19/14 11:48	02/19/14 17:26	7440-36-0	
Arsenic, Dissolved	917 ug/L		50.0	1	02/19/14 11:48	02/19/14 17:26	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	02/19/14 11:48	02/19/14 17:26	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	02/19/14 11:48	02/19/14 17:26	7440-43-9	
Chromium, Dissolved	262 ug/L		25.0	1	02/19/14 11:48	02/19/14 17:26	7440-47-3	
Cobalt, Dissolved	33.1 ug/L		25.0	1	02/19/14 11:48	02/19/14 17:26	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	02/19/14 11:48	02/19/14 17:26	7440-50-8	
Iron, Dissolved	648000 ug/L		250	1	02/19/14 11:48	02/19/14 17:26	7439-89-6	M1, R1
Lead, Dissolved	89.8 ug/L		25.0	1	02/19/14 11:48	02/19/14 17:26	7439-92-1	
Nickel, Dissolved	94.4 ug/L		25.0	1	02/19/14 11:48	02/19/14 17:26	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	02/19/14 11:48	02/19/14 17:26	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	02/19/14 11:48	02/19/14 17:26	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	02/19/14 11:48	02/19/14 17:26	7440-28-0	
Zinc, Dissolved	8120 ug/L		500	2	02/19/14 11:48	02/19/14 17:28	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	26.4 ug/L		6.0	1	02/18/14 09:30	02/18/14 14:20	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	02/19/14 14:45	02/20/14 12:11	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	02/18/14 00:00	02/19/14 14:27	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	02/18/14 00:00	02/19/14 14:27	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	02/18/14 00:00	02/19/14 14:27	77-47-4	
Hexachloroethane	ND ug/L		1000	2	02/18/14 00:00	02/19/14 14:27	67-72-1	
Naphthalene	1670 ug/L		1000	2	02/18/14 00:00	02/19/14 14:27	91-20-3	
Nitrobenzene	ND ug/L		1000	2	02/18/14 00:00	02/19/14 14:27	98-95-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-217

Pace Project No.: 60162942

Sample: 316-217	Lab ID: 60162942001	Collected: 02/13/14 11:00	Received: 02/14/14 01:20	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	02/18/14 00:00	02/19/14 14:27	87-86-5	
Phenol	14900 ug/L		1000	2	02/18/14 00:00	02/19/14 14:27	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	02/18/14 00:00	02/19/14 14:27	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	02/18/14 00:00	02/19/14 14:27	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	151 %		33-120	2	02/18/14 00:00	02/19/14 14:27	4165-60-0	S0
2-Fluorobiphenyl (S)	73 %		39-120	2	02/18/14 00:00	02/19/14 14:27	321-60-8	
Terphenyl-d14 (S)	78 %		45-120	2	02/18/14 00:00	02/19/14 14:27	1718-51-0	
Phenol-d6 (S)	34 %		11-120	2	02/18/14 00:00	02/19/14 14:27	13127-88-3	
2-Fluorophenol (S)	55 %		17-120	2	02/18/14 00:00	02/19/14 14:27	367-12-4	
2,4,6-Tribromophenol (S)	84 %		39-120	2	02/18/14 00:00	02/19/14 14:27	118-79-6	
624 Volatile Organics								
Analytical Method: EPA 624 Low								
Acetone	114000 ug/L		2000	200		02/14/14 14:29	67-64-1	N2
Benzene	ND ug/L		200	200		02/14/14 14:29	71-43-2	
Bromodichloromethane	ND ug/L		200	200		02/14/14 14:29	75-27-4	
Bromoform	ND ug/L		200	200		02/14/14 14:29	75-25-2	
Bromomethane	ND ug/L		1000	200		02/14/14 14:29	74-83-9	
2-Butanone (MEK)	85700 ug/L		2000	200		02/14/14 14:29	78-93-3	N2
Carbon tetrachloride	ND ug/L		200	200		02/14/14 14:29	56-23-5	
Chloroethane	ND ug/L		200	200		02/14/14 14:29	75-00-3	
Chloroform	ND ug/L		200	200		02/14/14 14:29	67-66-3	
1,4-Dichlorobenzene	2000 ug/L		200	200		02/14/14 14:29	106-46-7	
1,2-Dichloroethane	ND ug/L		200	200		02/14/14 14:29	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200	200		02/14/14 14:29	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		200	200		02/14/14 14:29	156-60-5	
Ethylbenzene	ND ug/L		200	200		02/14/14 14:29	100-41-4	
Methylene chloride	ND ug/L		200	200		02/14/14 14:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	3320 ug/L		2000	200		02/14/14 14:29	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		02/14/14 14:29	79-34-5	N2
Tetrachloroethene	ND ug/L		200	200		02/14/14 14:29	127-18-4	
Toluene	ND ug/L		200	200		02/14/14 14:29	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		02/14/14 14:29	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		02/14/14 14:29	79-00-5	
Trichloroethene	ND ug/L		200	200		02/14/14 14:29	79-01-6	
Vinyl chloride	ND ug/L		200	200		02/14/14 14:29	75-01-4	
Xylene (Total)	756 ug/L		600	200		02/14/14 14:29	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	94 %		80-120	200		02/14/14 14:29	460-00-4	HS
Toluene-d8 (S)	100 %		80-120	200		02/14/14 14:29	2037-26-5	
1,2-Dichloroethane-d4 (S)	94 %		80-120	200		02/14/14 14:29	17060-07-0	
Preservation pH	6.0		1.0	200		02/14/14 14:29		
HEM, Oil and Grease								
Analytical Method: EPA 1664A								
Oil and Grease	1140 mg/L		5.0	1		02/20/14 07:08		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-217

Pace Project No.: 60162942

Sample: 316-217		Lab ID: 60162942001	Collected: 02/13/14 11:00	Received: 02/14/14 01:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	14.0	mg/L	5.0	1		02/21/14 07:45		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	3740	mg/L	5.0	1		02/18/14 12:52		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.5	Std. Units	0.10	1		02/17/14 13:25		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	37800	mg/L	2.0	1	02/14/14 18:27	02/19/14 17:14		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	700	mg/L	20.0	200		02/18/14 13:22	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	58800	mg/L	5000	500		02/20/14 07:26		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-217

Pace Project No.: 60162942

Sample: TRIP BLANK		Lab ID: 60162942002	Collected: 02/13/14 11:00	Received: 02/14/14 01:20	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		02/18/14 10:42	67-64-1	N2
Benzene	ND ug/L		1.0	1		02/14/14 14:44	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		02/14/14 14:44	75-27-4	
Bromoform	ND ug/L		1.0	1		02/14/14 14:44	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/14/14 14:44	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		02/18/14 10:42	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		02/14/14 14:44	56-23-5	
Chloroethane	ND ug/L		1.0	1		02/14/14 14:44	75-00-3	
Chloroform	ND ug/L		1.0	1		02/14/14 14:44	67-66-3	
1,4-Dichlorobenzene	1.4 ug/L		1.0	1		02/14/14 14:44	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		02/14/14 14:44	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		02/14/14 14:44	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		02/14/14 14:44	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		02/14/14 14:44	100-41-4	
Methylene chloride	ND ug/L		1.0	1		02/14/14 14:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		02/14/14 14:44	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		02/14/14 14:44	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		02/14/14 14:44	127-18-4	
Toluene	ND ug/L		1.0	1		02/14/14 14:44	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		02/14/14 14:44	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		02/14/14 14:44	79-00-5	
Trichloroethene	ND ug/L		1.0	1		02/14/14 14:44	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		02/14/14 14:44	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		02/14/14 14:44	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	1		02/14/14 14:44	460-00-4	
Toluene-d8 (S)	101 %		80-120	1		02/14/14 14:44	2037-26-5	
1,2-Dichloroethane-d4 (S)	95 %		80-120	1		02/14/14 14:44	17060-07-0	
Preservation pH	6.0		1.0	1		02/14/14 14:44		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-217

Pace Project No.: 60162942

QC Batch: MERP/8139

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60162942001

METHOD BLANK: 1331079

Matrix: Water

Associated Lab Samples: 60162942001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/18/14 14:16	

LABORATORY CONTROL SAMPLE: 1331080

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: 1331081 1331082

Parameter	60162964001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
	Units	Result	Conc.	Conc.								
Mercury	ug/L	ND	5	5	5.2	5.1	104	102	70-130	3	20	

MATRIX SPIKE SAMPLE: 1331189

Parameter	Units	60163015002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	0.95	5	5.9	99	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-217

Pace Project No.: 60162942

QC Batch:	MERP/8150	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60162942001		

METHOD BLANK: 1332031 Matrix: Water
Associated Lab Samples: 60162942001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/20/14 12:00	

LABORATORY CONTROL SAMPLE: 1332032

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1332033 1332034

Parameter	Units	60162845001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	ND	Spike Conc.	Conc.	Result	Result	% Rec	% Rec						
Mercury, Dissolved	ug/L	ND	150	150	160	152	106	101	70-130	6	20				

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-217

Pace Project No.: 60162942

QC Batch:	MPRP/26184	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
Associated Lab Samples:	60162942001		

METHOD BLANK: 1331636 Matrix: Water

Associated Lab Samples: 60162942001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	02/19/14 16:32	
Antimony	ug/L	ND	10.0	02/19/14 16:32	
Arsenic	ug/L	ND	10.0	02/19/14 16:32	
Beryllium	ug/L	ND	1.0	02/19/14 16:32	
Cadmium	ug/L	ND	5.0	02/19/14 16:32	
Chromium	ug/L	ND	5.0	02/19/14 16:32	
Cobalt	ug/L	ND	5.0	02/19/14 16:32	
Copper	ug/L	ND	10.0	02/19/14 16:32	
Iron	ug/L	ND	50.0	02/19/14 16:32	
Lead	ug/L	ND	5.0	02/19/14 16:32	
Nickel	ug/L	ND	5.0	02/19/14 16:32	
Selenium	ug/L	ND	15.0	02/19/14 16:32	
Silver	ug/L	ND	7.0	02/19/14 16:32	
Thallium	ug/L	ND	20.0	02/19/14 16:32	
Zinc	ug/L	ND	50.0	02/19/14 16:32	

LABORATORY CONTROL SAMPLE: 1331637

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10200	102	85-115	
Antimony	ug/L	1000	1070	107	85-115	
Arsenic	ug/L	1000	1040	104	85-115	
Beryllium	ug/L	1000	1010	101	85-115	
Cadmium	ug/L	1000	1080	108	85-115	
Chromium	ug/L	1000	1030	103	85-115	
Cobalt	ug/L	1000	1090	109	85-115	
Copper	ug/L	1000	1010	101	85-115	
Iron	ug/L	10000	9970	100	85-115	
Lead	ug/L	1000	1080	108	85-115	
Nickel	ug/L	1000	1080	108	85-115	
Selenium	ug/L	1000	1070	107	85-115	
Silver	ug/L	500	490	98	85-115	
Thallium	ug/L	1000	1130	113	85-115	
Zinc	ug/L	1000	1070	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1331638 1331639

Parameter	Units	60162942001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Aluminum	ug/L	15200	50000	50000	50000	73300	73400	116	117	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-217

Pace Project No.: 60162942

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1331638		1331639									
Parameter	Units	60162942001	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	RPD	RPD	Qual
		Result	Spike	Spike	Result	Result	% Rec	% Rec	Limits				
Antimony	ug/L	65.6	5000	5000	5620	5570	111	110	70-130	1	7		
Arsenic	ug/L	1160	5000	5000	7130	7080	119	118	70-130	1	10		
Beryllium	ug/L	ND	5000	5000	4860	4870	97	97	70-130	0	7		
Cadmium	ug/L	ND	5000	5000	5690	5640	113	112	70-130	1	10		
Chromium	ug/L	340	5000	5000	5370	5350	101	100	70-130	0	10		
Cobalt	ug/L	52.9	5000	5000	5120	5100	101	101	70-130	0	6		
Copper	ug/L	ND	5000	5000	5320	5300	106	105	70-130	0	11		
Iron	ug/L	931000	50000	50000	990000	982000	118	101	70-130	1	10		
Lead	ug/L	154	5000	5000	4820	4820	93	93	70-130	0	10		
Nickel	ug/L	144	5000	5000	5120	5100	99	99	70-130	0	10		
Selenium	ug/L	88.6	5000	5000	6520	6540	129	129	70-130	0	10		
Silver	ug/L	ND	2500	2500	2630	2630	105	105	70-130	0	10		
Thallium	ug/L	ND	5000	5000	4390	4360	88	87	70-130	1	6		
Zinc	ug/L	10200	5000	5000	15300	15200	102	100	70-130	0	11		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-217

Pace Project No.: 60162942

QC Batch: MPRP/26195 Analysis Method: EPA 200.7
 QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
 Associated Lab Samples: 60162942001

METHOD BLANK: 1331781 Matrix: Water

Associated Lab Samples: 60162942001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	02/19/14 17:19	
Antimony, Dissolved	ug/L	ND	10.0	02/19/14 17:19	
Arsenic, Dissolved	ug/L	ND	10.0	02/19/14 17:19	
Beryllium, Dissolved	ug/L	ND	1.0	02/19/14 17:19	
Cadmium, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Chromium, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Cobalt, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Copper, Dissolved	ug/L	ND	10.0	02/19/14 17:19	
Iron, Dissolved	ug/L	ND	50.0	02/19/14 17:19	
Lead, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Nickel, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Selenium, Dissolved	ug/L	ND	15.0	02/19/14 17:19	
Silver, Dissolved	ug/L	ND	7.0	02/19/14 17:19	
Thallium, Dissolved	ug/L	ND	20.0	02/19/14 17:19	
Zinc, Dissolved	ug/L	ND	50.0	02/19/14 17:19	

LABORATORY CONTROL SAMPLE: 1331782

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	1050	105	85-115	
Arsenic, Dissolved	ug/L	1000	1000	100	85-115	
Beryllium, Dissolved	ug/L	1000	997	100	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	1020	102	85-115	
Iron, Dissolved	ug/L	10000	9650	96	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	1060	106	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: 1331783 1331784

Parameter	Units	60162942001		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result						
Aluminum, Dissolved	ug/L	2690	50000	50000	54700	53600	104	102	70-130	2	8		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-217

Pace Project No.: 60162942

Parameter	Units	1331783		1331784		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		60162942001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Antimony, Dissolved	ug/L	50.8	5000	5000	5510	5510	109	109	70-130	0	7
Arsenic, Dissolved	ug/L	917	5000	5000	6520	6540	112	112	70-130	0	10
Beryllium, Dissolved	ug/L	ND	5000	5000	4840	4800	97	96	70-130	1	7
Cadmium, Dissolved	ug/L	ND	5000	5000	5520	5590	110	111	70-130	1	10
Chromium, Dissolved	ug/L	262	5000	5000	5280	5230	100	99	70-130	1	10
Cobalt, Dissolved	ug/L	33.1	5000	5000	5040	5120	100	102	70-130	2	6
Copper, Dissolved	ug/L	ND	5000	5000	5320	5240	106	105	70-130	1	11
Iron, Dissolved	ug/L	648000	50000	50000	674000	602000	52	-92	70-130	11	10 M1,R1
Lead, Dissolved	ug/L	89.8	5000	5000	4800	4820	94	95	70-130	1	10
Nickel, Dissolved	ug/L	94.4	5000	5000	5060	5060	99	99	70-130	0	10
Selenium, Dissolved	ug/L	ND	5000	5000	6220	6200	123	123	70-130	0	10
Silver, Dissolved	ug/L	ND	2500	2500	2640	2580	106	103	70-130	2	10
Thallium, Dissolved	ug/L	ND	5000	5000	4340	4470	87	89	70-130	3	6
Zinc, Dissolved	ug/L	8120	5000	5000	13000	12500	97	88	70-130	4	11

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-217

Pace Project No.: 60162942

QC Batch: MSV/59425 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60162942001, 60162942002

METHOD BLANK: 1330132 Matrix: Water

Associated Lab Samples: 60162942001, 60162942002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/14/14 11:44	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/14/14 11:44	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	02/14/14 11:44	
1,2-Dichloroethane	ug/L	ND	1.0	02/14/14 11:44	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/14/14 11:44	
2-Butanone (MEK)	ug/L	ND	10.0	02/14/14 11:44	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/14/14 11:44	N2
Acetone	ug/L	ND	10.0	02/14/14 11:44	N2
Benzene	ug/L	ND	1.0	02/14/14 11:44	
Bromodichloromethane	ug/L	ND	1.0	02/14/14 11:44	
Bromoform	ug/L	ND	1.0	02/14/14 11:44	
Bromomethane	ug/L	ND	5.0	02/14/14 11:44	
Carbon tetrachloride	ug/L	ND	1.0	02/14/14 11:44	
Chloroethane	ug/L	ND	1.0	02/14/14 11:44	
Chloroform	ug/L	ND	1.0	02/14/14 11:44	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/14/14 11:44	N2
Ethylbenzene	ug/L	ND	1.0	02/14/14 11:44	
Methylene chloride	ug/L	ND	1.0	02/14/14 11:44	
Tetrachloroethene	ug/L	ND	1.0	02/14/14 11:44	
Toluene	ug/L	ND	1.0	02/14/14 11:44	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/14/14 11:44	
Trichloroethene	ug/L	ND	1.0	02/14/14 11:44	
Vinyl chloride	ug/L	ND	1.0	02/14/14 11:44	
Xylene (Total)	ug/L	ND	3.0	02/14/14 11:44	N2
1,2-Dichloroethane-d4 (S)	%	96	80-120	02/14/14 11:44	
4-Bromofluorobenzene (S)	%	99	80-120	02/14/14 11:44	
Toluene-d8 (S)	%	102	80-120	02/14/14 11:44	

LABORATORY CONTROL SAMPLE: 1330133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.1	100	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	18.2	91	59-138	N2
1,1,2-Trichloroethane	ug/L	20	18.9	94	69-127	
1,2-Dichloroethane	ug/L	20	18.9	94	71-129	
1,4-Dichlorobenzene	ug/L	20	19.7	98	68-124	
2-Butanone (MEK)	ug/L	100	92.2	92	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	90.2	90	61-120	N2
Acetone	ug/L	100	63.4	63	40-160	N2
Benzene	ug/L	20	19.0	95	73-129	
Bromodichloromethane	ug/L	20	19.7	98	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-217

Pace Project No.: 60162942

LABORATORY CONTROL SAMPLE: 1330133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.8	99	52-123	
Bromomethane	ug/L	20	13.9	70	10-160	
Carbon tetrachloride	ug/L	20	21.6	108	70-140	
Chloroethane	ug/L	20	20.9	104	42-160	
Chloroform	ug/L	20	19.8	99	60-120	
cis-1,2-Dichloroethene	ug/L	20	19.9	99	70-125	N2
Ethylbenzene	ug/L	20	21.1	106	66-133	
Methylene chloride	ug/L	20	18.4	92	56-135	
Tetrachloroethene	ug/L	20	21.3	107	64-143	
Toluene	ug/L	20	18.6	93	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.3	101	67-149	
Trichloroethene	ug/L	20	18.0	90	71-130	
Vinyl chloride	ug/L	20	20.3	102	41-160	
Xylene (Total)	ug/L	60	60.2	100	67-130	N2
1,2-Dichloroethane-d4 (S)	%			95	80-120	
4-Bromofluorobenzene (S)	%			96	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1330134

Parameter	Units	60162763001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4330	108	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3510	88	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	3810	95	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3670	92	49-155	
1,4-Dichlorobenzene	ug/L	874	4000	4750	97	18-147	
2-Butanone (MEK)	ug/L	90400	20000	100000	48	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	4850	20000	20000	76	40-160	N2
Acetone	ug/L	128000	20000	136000	41	40-160	N2
Benzene	ug/L	ND	4000	3900	97	37-151	
Bromodichloromethane	ug/L	ND	4000	3710	93	35-155	
Bromoform	ug/L	ND	4000	3590	90	45-133	
Bromomethane	ug/L	ND	4000	3020	76	10-160	
Carbon tetrachloride	ug/L	ND	4000	4680	117	70-140	
Chloroethane	ug/L	ND	4000	4500	113	14-160	
Chloroform	ug/L	ND	4000	3850	96	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3970	99	19-160	N2
Ethylbenzene	ug/L	ND	4000	3980	98	37-154	
Methylene chloride	ug/L	ND	4000	3660	90	15-156	
Tetrachloroethene	ug/L	ND	4000	4350	109	64-148	
Toluene	ug/L	ND	4000	3650	91	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4280	107	54-156	
Trichloroethene	ug/L	ND	4000	3670	92	71-157	
Vinyl chloride	ug/L	ND	4000	4770	119	10-160	
Xylene (Total)	ug/L	ND	12000	11800	99	12-153	N2
1,2-Dichloroethane-d4 (S)	%				96	80-120	
4-Bromofluorobenzene (S)	%				97	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-217

Pace Project No.: 60162942

MATRIX SPIKE SAMPLE:		1330134					
Parameter	Units	60162763001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S) Preservation pH	%	6.0	6.0	6.0	101	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-217

Pace Project No.: 60162942

QC Batch:	MSV/59461	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60162942002		

METHOD BLANK: 1331185 Matrix: Water

Associated Lab Samples: 60162942002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Butanone (MEK)	ug/L	ND	10.0	02/18/14 10:12	N2
Acetone	ug/L	ND	10.0	02/18/14 10:12	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	02/18/14 10:12	
4-Bromofluorobenzene (S)	%	100	80-120	02/18/14 10:12	
Toluene-d8 (S)	%	100	80-120	02/18/14 10:12	

LABORATORY CONTROL SAMPLE: 1331186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Butanone (MEK)	ug/L	100	93.9	94	48-142	N2
Acetone	ug/L	100	68.8	69	40-160	N2
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			102	80-120	

MATRIX SPIKE SAMPLE: 1331187

Parameter	Units	60163031001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
2-Butanone (MEK)	ug/L	112000	20000	132000	99	40-160	N2
Acetone	ug/L	141000	20000	161000	97	40-160	N2
1,2-Dichloroethane-d4 (S)	%				103	80-120	
4-Bromofluorobenzene (S)	%				97	80-120	
Toluene-d8 (S)	%				97	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-217

Pace Project No.: 60162942

QC Batch:	OEXT/42756	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60162942001		

METHOD BLANK: 1330998 Matrix: Water

Associated Lab Samples: 60162942001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/19/14 12:01	
2,4,6-Trichlorophenol	ug/L	ND	5.0	02/19/14 12:01	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	02/19/14 12:01	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/19/14 12:01	
Hexachlorocyclopentadiene	ug/L	ND	5.0	02/19/14 12:01	
Hexachloroethane	ug/L	ND	5.0	02/19/14 12:01	
Naphthalene	ug/L	ND	5.0	02/19/14 12:01	
Nitrobenzene	ug/L	ND	5.0	02/19/14 12:01	
Pentachlorophenol	ug/L	ND	5.0	02/19/14 12:01	
Phenol	ug/L	ND	5.0	02/19/14 12:01	
2,4,6-Tribromophenol (S)	%	74	39-120	02/19/14 12:01	
2-Fluorobiphenyl (S)	%	75	39-120	02/19/14 12:01	
2-Fluorophenol (S)	%	54	17-120	02/19/14 12:01	
Nitrobenzene-d5 (S)	%	73	33-120	02/19/14 12:01	
Phenol-d6 (S)	%	36	11-120	02/19/14 12:01	
Terphenyl-d14 (S)	%	81	45-120	02/19/14 12:01	

LABORATORY CONTROL SAMPLE: 1330999

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	36.2	72	46-120	
2,4,6-Trichlorophenol	ug/L	50	39.4	79	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	46.6	93	40-133	
Hexachloro-1,3-butadiene	ug/L	50	30.1	60	44-116	
Hexachlorocyclopentadiene	ug/L	100	65.7	66	24-120	
Hexachloroethane	ug/L	50	38.4	77	43-113	
Naphthalene	ug/L	50	37.5	75	48-120	
Nitrobenzene	ug/L	50	29.9	60	48-120	
Pentachlorophenol	ug/L	50	44.7	89	47-120	
Phenol	ug/L	50	14.9	30	16-112	
2,4,6-Tribromophenol (S)	%			88	39-120	
2-Fluorobiphenyl (S)	%			77	39-120	
2-Fluorophenol (S)	%			45	17-120	
Nitrobenzene-d5 (S)	%			59	33-120	
Phenol-d6 (S)	%			30	11-120	
Terphenyl-d14 (S)	%			82	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-217

Pace Project No.: 60162942

MATRIX SPIKE SAMPLE:		1331000					
Parameter	Units	60162845001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3650	73	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	3880	78	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	3910J	78	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4000	80	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	5430	54	11-120	
Hexachloroethane	ug/L	ND	5000	4350	87	40-113	
Naphthalene	ug/L	1850	5000	5310	69	45-120	
Nitrobenzene	ug/L	ND	5000	7160	143	38-120	M1
Pentachlorophenol	ug/L	ND	5000	4020	80	43-135	
Phenol	ug/L	12300	5000	19000	134	13-112	M1
2,4,6-Tribromophenol (S)	%				83	39-120	
2-Fluorobiphenyl (S)	%				72	39-120	
2-Fluorophenol (S)	%				65	17-120	
Nitrobenzene-d5 (S)	%				148	33-120	S0
Phenol-d6 (S)	%				40	11-120	
Terphenyl-d14 (S)	%				77	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-217

Pace Project No.: 60162942

QC Batch:	WET/46219	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60162942001		

METHOD BLANK: 1332188 Matrix: Water
Associated Lab Samples: 60162942001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/20/14 07:07	

LABORATORY CONTROL SAMPLE: 1332189

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: 1332190

Parameter	Units	60162864001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	15.3	44	50.2	79	78-114	

SAMPLE DUPLICATE: 1332191

Parameter	Units	60162942001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1140	1180	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-217

Pace Project No.: 60162942

QC Batch:	WET/46241	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60162942001		

METHOD BLANK: 1332886 Matrix: Water
Associated Lab Samples: 60162942001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	02/21/14 07:44	

LABORATORY CONTROL SAMPLE: 1332887

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	22.9	114	64-132	

MATRIX SPIKE SAMPLE: 1332888

Parameter	Units	60162864001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	22	18.6	65	64-132	

SAMPLE DUPLICATE: 1332889

Parameter	Units	60162942001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	14.0	11.2	22	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-217

Pace Project No.: 60162942

QC Batch: WET/46188

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60162942001

METHOD BLANK: 1331254

Matrix: Water

Associated Lab Samples: 60162942001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	02/18/14 12:51	

SAMPLE DUPLICATE: 1331255

Parameter	Units	60162962001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 1331421

Parameter	Units	60162869001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	404	452	11	10	D6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-217

Pace Project No.: 60162942

QC Batch: WET/46171 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60162942001

SAMPLE DUPLICATE: 1330865

Parameter	Units	60162755001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.1	5.2	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-217

Pace Project No.: 60162942

QC Batch: WET/46151

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60162942001

METHOD BLANK: 1330255

Matrix: Water

Associated Lab Samples: 60162942001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	02/19/14 16:31	

LABORATORY CONTROL SAMPLE: 1330256

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	175	88	85-115	

SAMPLE DUPLICATE: 1330257

Parameter	Units	60162965001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	1290	1240	3	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-217

Pace Project No.: 60162942

QC Batch:	WETA/28218	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60162942001		

METHOD BLANK: 1331112 Matrix: Water
Associated Lab Samples: 60162942001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/18/14 13:15	

LABORATORY CONTROL SAMPLE: 1331113

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	105	90-110	

MATRIX SPIKE SAMPLE: 1331114

Parameter	Units	60162937002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.81	2	2.6	88	90-110	M1

MATRIX SPIKE SAMPLE: 1331115

Parameter	Units	60162964001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.33	2	2.3	98	90-110	

SAMPLE DUPLICATE: 1331116

Parameter	Units	60162984004 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-217

Pace Project No.: 60162942

QC Batch: WETA/28224 Analysis Method: EPA 410.4
 QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
 Associated Lab Samples: 60162942001

METHOD BLANK: 1331260 Matrix: Water
 Associated Lab Samples: 60162942001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/20/14 07:12	

LABORATORY CONTROL SAMPLE: 1331261

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	51.6	103	90-110	

MATRIX SPIKE SAMPLE: 1331262

Parameter	Units	60162584001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	53400	25000	74600	85	90-110	M1

MATRIX SPIKE SAMPLE: 1331264

Parameter	Units	60162845001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	63300	25000	85800	90	90-110	

SAMPLE DUPLICATE: 1331263

Parameter	Units	60162678001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	9900	10400	5	25	

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QUALIFIERS

Project: BRIDGETON LF 316-217

Pace Project No.: 60162942

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.

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-217

Pace Project No.: 60162942

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60162942001	316-217	EPA 200.7	MPRP/26184	EPA 200.7	ICP/20007
60162942001	316-217	EPA 200.7	MPRP/26195	EPA 200.7	ICP/20009
60162942001	316-217	EPA 245.1	MERP/8139	EPA 245.1	MERC/8094
60162942001	316-217	EPA 245.1	MERP/8150	EPA 245.1	MERC/8107
60162942001	316-217	EPA 625	OEXT/42756	EPA 625	MSSV/13612
60162942001	316-217	EPA 624 Low	MSV/59425		
60162942002	TRIP BLANK	EPA 624 Low	MSV/59425		
60162942002	TRIP BLANK	EPA 624 Low	MSV/59461		
60162942001	316-217	EPA 1664A	WET/46219		
60162942001	316-217	EPA 1664A	WET/46241		
60162942001	316-217	SM 2540D	WET/46188		
60162942001	316-217	SM 4500-H+B	WET/46171		
60162942001	316-217	SM 5210B	WET/46151	SM 5210B	WET/46246
60162942001	316-217	EPA 350.1	WETA/28218		
60162942001	316-217	EPA 410.4	WETA/28224		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO# : 60162942

 60162942

Client Name: Barr Eng

Courier: Fed Ex UPS USPS Client Commercial Pace Other FX road

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 Samples received on ice, cooling process has begun.

Cooler Temperature: 2-6

Temperature should be above freezing to 6°C

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: PV 2/14/14

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>Bob ppt</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Includes date/time/ID/analyses Matrix:	<u>WT</u>	13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Exceptions: VOA coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	14.
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Pace Trip Blank lot # (if purchased):	<u>cover</u>	15.
Headspace in VOA vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16. <u>5 of 5 D can - Apply this comment on Leachate sample per historical instructions</u>
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MO</u>

Added 2.5 ml of H₂O₂ to BPS. PH 6.0/4.0
 Added 2.0 ml of H₂O₂ to BPS. PH 6.0/3.5
 Initial when completed: PV Lot # of added preservative: 12514
12513

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 2/14/14



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: 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

ITEM#	SAMPLE ID One Character per box. (A-Z, 0-9 / , . -) Sample Ids must be unique	MATRIX	CODE	COLLECTED				SAMPLE TEMP/T COLLECTION	Preservatives											Requeste Analysis Filtered (Y/N)																Residual Chlorine (Y/N)				
				START DATE	START TIME	END DATE	END TIME		# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N		Y/N			
1	316-217 2A64U 1B33U 3A63S 1B33S	OT	G	3/13/14	1100				14	10	4	1	0		1B33N 4.6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2B2u 5D69u 69
2	TRIP BLANK								2	2																												2D69u 02		
3																																								
4																																								
5																																								
6																																								
7																																								
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	<i>Hunter P.S</i>	<i>3/13/14</i>	<i>1600</i>	<i>JASON PETERS</i>	<i>2-13-14</i>	<i>1600</i>	
SITE ADDRESS: BRIDGETON LF				<i>PM PACE</i>	<i>2/14/14</i>	<i>0120</i>	<i>2-c Y Y Y</i>
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:	SIGNATURE of SAMPLER:				
<i>Sam Bircher</i>	<i>Samu</i>				
DATE Signed: <i>2-13-14</i>					

February 21, 2014

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

RE: Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60162985

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 14, 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 UNTREATED COMMINGLED

Pace Project No.: 60162985

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60162985

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60162985001	WEEKLY TCLP 2/13/14	Water	02/13/14 14:00	02/14/14 01:20
60162985002	TRIP BLANK	Water	02/13/14 00:00	02/14/14 01:20

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SAMPLE ANALYTE COUNT

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60162985

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60162985001	WEEKLY TCLP 2/13/14	EPA 8260	JKL	13
		EPA 5030B/8260	JTS	28
		EPA 1664A	DJR	1
		SM 2540B	JMC	1
60162985002	TRIP BLANK	EPA 5030B/8260	JTS	28

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60162985

Sample: WEEKLY TCLP 2/13/14 Lab ID: 60162985001 Collected: 02/13/14 14:00 Received: 02/14/14 01:20 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; 02/19/14 00:00									
Benzene	1410	ug/L	250	500	5		02/19/14 17:01	71-43-2	
2-Butanone (MEK)	101000	ug/L	50000	200000	50		02/19/14 17:16	78-93-3	
Carbon tetrachloride	ND	ug/L	250	500	5		02/19/14 17:01	56-23-5	
Chlorobenzene	ND	ug/L	250	100000	5		02/19/14 17:01	108-90-7	
Chloroform	ND	ug/L	1000	6000	5		02/19/14 17:01	67-66-3	
1,2-Dichloroethane	ND	ug/L	250	500	5		02/19/14 17:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	250	700	5		02/19/14 17:01	75-35-4	
Tetrachloroethene	ND	ug/L	250	700	5		02/19/14 17:01	127-18-4	
Trichloroethene	ND	ug/L	250	500	5		02/19/14 17:01	79-01-6	
Vinyl chloride	ND	ug/L	100	200	5		02/19/14 17:01	75-01-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%	80-120		5		02/19/14 17:01	17060-07-0	
Toluene-d8 (S)	101	%	80-120		5		02/19/14 17:01	2037-26-5	
4-Bromofluorobenzene (S)	99	%	80-120		5		02/19/14 17:01	460-00-4	
8260 MSV									
Analytical Method: EPA 5030B/8260									
Acetone	181000	ug/L	5000		500		02/20/14 13:23	67-64-1	
Benzene	2350	ug/L	500		500		02/20/14 13:23	71-43-2	
Bromodichloromethane	ND	ug/L	500		500		02/20/14 13:23	75-27-4	
Bromoform	ND	ug/L	500		500		02/20/14 13:23	75-25-2	
Bromomethane	ND	ug/L	2500		500		02/20/14 13:23	74-83-9	
2-Butanone (MEK)	105000	ug/L	5000		500		02/20/14 13:23	78-93-3	
Carbon tetrachloride	ND	ug/L	500		500		02/20/14 13:23	56-23-5	
Chloroethane	ND	ug/L	500		500		02/20/14 13:23	75-00-3	
Chloroform	ND	ug/L	500		500		02/20/14 13:23	67-66-3	
1,4-Dichlorobenzene	788	ug/L	500		500		02/20/14 13:23	106-46-7	
1,2-Dichloroethane	ND	ug/L	500		500		02/20/14 13:23	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	500		500		02/20/14 13:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	500		500		02/20/14 13:23	156-60-5	
Ethylbenzene	ND	ug/L	500		500		02/20/14 13:23	100-41-4	
Methylene chloride	ND	ug/L	500		500		02/20/14 13:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5000		500		02/20/14 13:23	108-10-1	
1,1,1,2-Tetrachloroethane	ND	ug/L	500		500		02/20/14 13:23	79-34-5	
Tetrachloroethene	ND	ug/L	500		500		02/20/14 13:23	127-18-4	
Toluene	563	ug/L	500		500		02/20/14 13:23	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	500		500		02/20/14 13:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	500		500		02/20/14 13:23	79-00-5	
Trichloroethene	ND	ug/L	500		500		02/20/14 13:23	79-01-6	
Vinyl chloride	ND	ug/L	500		500		02/20/14 13:23	75-01-4	
Xylene (Total)	ND	ug/L	1500		500		02/20/14 13:23	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		500		02/20/14 13:23	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	80-120		500		02/20/14 13:23	17060-07-0	
Toluene-d8 (S)	100	%	80-120		500		02/20/14 13:23	2037-26-5	
Preservation pH	6.0		0.10		500		02/20/14 13:23		pH

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60162985

Sample: WEEKLY TCLP 2/13/14 Lab ID: 60162985001 Collected: 02/13/14 14:00 Received: 02/14/14 01:20 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	1250	mg/L	5.0		1		02/20/14 07:09		
2540B Total Solids Analytical Method: SM 2540B									
Total Solids	58300	mg/L	5.0		1		02/17/14 10:55		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60162985

Sample: TRIP BLANK		Lab ID: 60162985002	Collected: 02/13/14 00:00	Received: 02/14/14 01:20	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		02/20/14 11:14	67-64-1	
Benzene	ND	ug/L	1.0		1		02/20/14 11:14	71-43-2	
Bromodichloromethane	ND	ug/L	1.0		1		02/20/14 11:14	75-27-4	
Bromoform	ND	ug/L	1.0		1		02/20/14 11:14	75-25-2	
Bromomethane	ND	ug/L	5.0		1		02/20/14 11:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0		1		02/20/14 11:14	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0		1		02/20/14 11:14	56-23-5	
Chloroethane	ND	ug/L	1.0		1		02/20/14 11:14	75-00-3	
Chloroform	ND	ug/L	1.0		1		02/20/14 11:14	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0		1		02/20/14 11:14	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0		1		02/20/14 11:14	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0		1		02/20/14 11:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0		1		02/20/14 11:14	156-60-5	
Ethylbenzene	ND	ug/L	1.0		1		02/20/14 11:14	100-41-4	
Methylene chloride	ND	ug/L	1.0		1		02/20/14 11:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0		1		02/20/14 11:14	108-10-1	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1		02/20/14 11:14	79-34-5	
Tetrachloroethene	ND	ug/L	1.0		1		02/20/14 11:14	127-18-4	
Toluene	ND	ug/L	1.0		1		02/20/14 11:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0		1		02/20/14 11:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0		1		02/20/14 11:14	79-00-5	
Trichloroethene	ND	ug/L	1.0		1		02/20/14 11:14	79-01-6	
Vinyl chloride	ND	ug/L	1.0		1		02/20/14 11:14	75-01-4	
Xylene (Total)	ND	ug/L	3.0		1		02/20/14 11:14	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99 %		80-120		1		02/20/14 11:14	460-00-4	
1,2-Dichloroethane-d4 (S)	103 %		80-120		1		02/20/14 11:14	17060-07-0	
Toluene-d8 (S)	100 %		80-120		1		02/20/14 11:14	2037-26-5	
Preservation pH	1.0		0.10		1		02/20/14 11:14		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60162985

QC Batch:	MSV/59503	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV TCLP
Associated Lab Samples:	60162985001		

METHOD BLANK: 1331849 Matrix: Water

Associated Lab Samples: 60162985001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	02/19/14 14:59	
1,2-Dichloroethane	ug/L	ND	50.0	02/19/14 14:59	
2-Butanone (MEK)	ug/L	ND	1000	02/19/14 14:59	
Benzene	ug/L	ND	50.0	02/19/14 14:59	
Carbon tetrachloride	ug/L	ND	50.0	02/19/14 14:59	
Chlorobenzene	ug/L	ND	50.0	02/19/14 14:59	
Chloroform	ug/L	ND	200	02/19/14 14:59	
Tetrachloroethene	ug/L	ND	50.0	02/19/14 14:59	
Trichloroethene	ug/L	ND	50.0	02/19/14 14:59	
Vinyl chloride	ug/L	ND	20.0	02/19/14 14:59	
1,2-Dichloroethane-d4 (S)	%	102	80-120	02/19/14 14:59	
4-Bromofluorobenzene (S)	%	98	80-120	02/19/14 14:59	
Toluene-d8 (S)	%	100	80-120	02/19/14 14:59	

LABORATORY CONTROL SAMPLE: 1331850

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	1000	981	98	70-127	
1,2-Dichloroethane	ug/L	1000	961	96	72-122	
2-Butanone (MEK)	ug/L	5000	4690	94	69-124	
Benzene	ug/L	1000	887	89	73-122	
Carbon tetrachloride	ug/L	1000	905	91	73-125	
Chlorobenzene	ug/L	1000	909	91	80-120	
Chloroform	ug/L	1000	924	92	76-120	
Tetrachloroethene	ug/L	1000	952	95	79-122	
Trichloroethene	ug/L	1000	933	93	76-120	
Vinyl chloride	ug/L	1000	1110	111	57-140	
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			101	80-120	

MATRIX SPIKE SAMPLE: 1331851

Parameter	Units	60163089001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	1000	1050	105	66-142	
1,2-Dichloroethane	ug/L	ND	1000	1050	105	53-144	
2-Butanone (MEK)	ug/L	ND	5000	4830	97	54-127	
Benzene	ug/L	86.3	1000	1020	94	48-150	
Carbon tetrachloride	ug/L	ND	1000	988	99	68-145	
Chlorobenzene	ug/L	ND	1000	988	99	68-131	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60162985

MATRIX SPIKE SAMPLE:		1331851		60163089001		Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Limits				
Chloroform	ug/L	ND	1000	985	99	69-126				
Tetrachloroethene	ug/L	ND	1000	1050	105	66-139				
Trichloroethene	ug/L	ND	1000	994	99	67-130				
Vinyl chloride	ug/L	ND	1000	1090	109	47-159				
1,2-Dichloroethane-d4 (S)	%				100	80-120				
4-Bromofluorobenzene (S)	%				103	80-120				
Toluene-d8 (S)	%				101	80-120				

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60162985

QC Batch: MSV/59523

Analysis Method: EPA 5030B/8260

QC Batch Method: EPA 5030B/8260

Analysis Description: 8260 MSV Water 10 mL Purge

Associated Lab Samples: 60162985001, 60162985002

METHOD BLANK: 1332381

Matrix: Water

Associated Lab Samples: 60162985001, 60162985002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/20/14 10:57	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/20/14 10:57	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/20/14 10:57	
1,2-Dichloroethane	ug/L	ND	1.0	02/20/14 10:57	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/20/14 10:57	
2-Butanone (MEK)	ug/L	ND	10.0	02/20/14 10:57	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/20/14 10:57	
Acetone	ug/L	ND	10.0	02/20/14 10:57	
Benzene	ug/L	ND	1.0	02/20/14 10:57	
Bromodichloromethane	ug/L	ND	1.0	02/20/14 10:57	
Bromoform	ug/L	ND	1.0	02/20/14 10:57	
Bromomethane	ug/L	ND	5.0	02/20/14 10:57	
Carbon tetrachloride	ug/L	ND	1.0	02/20/14 10:57	
Chloroethane	ug/L	ND	1.0	02/20/14 10:57	
Chloroform	ug/L	ND	1.0	02/20/14 10:57	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/20/14 10:57	
Ethylbenzene	ug/L	ND	1.0	02/20/14 10:57	
Methylene chloride	ug/L	ND	1.0	02/20/14 10:57	
Tetrachloroethene	ug/L	ND	1.0	02/20/14 10:57	
Toluene	ug/L	ND	1.0	02/20/14 10:57	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/20/14 10:57	
Trichloroethene	ug/L	ND	1.0	02/20/14 10:57	
Vinyl chloride	ug/L	ND	1.0	02/20/14 10:57	
Xylene (Total)	ug/L	ND	3.0	02/20/14 10:57	
1,2-Dichloroethane-d4 (S)	%	103	80-120	02/20/14 10:57	
4-Bromofluorobenzene (S)	%	101	80-120	02/20/14 10:57	
Toluene-d8 (S)	%	101	80-120	02/20/14 10:57	

LABORATORY CONTROL SAMPLE: 1332382

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.7	104	75-124	
1,1,2,2-Tetrachloroethane	ug/L	20	20.2	101	73-120	
1,1,2-Trichloroethane	ug/L	20	20.9	105	76-120	
1,2-Dichloroethane	ug/L	20	21.9	110	72-122	
1,4-Dichlorobenzene	ug/L	20	20.7	104	80-120	
2-Butanone (MEK)	ug/L	100	100	100	69-124	
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.8	93	72-123	
Acetone	ug/L	100	121	121	60-126	
Benzene	ug/L	20	19.6	98	73-122	
Bromodichloromethane	ug/L	20	19.5	97	73-120	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60162985

LABORATORY CONTROL SAMPLE: 1332382

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.1	96	74-120	
Bromomethane	ug/L	20	18.8	94	40-146	
Carbon tetrachloride	ug/L	20	20.8	104	73-125	
Chloroethane	ug/L	20	17.9	89	56-159	
Chloroform	ug/L	20	20.5	103	76-120	
cis-1,2-Dichloroethene	ug/L	20	20.9	104	69-120	
Ethylbenzene	ug/L	20	21.2	106	76-123	
Methylene chloride	ug/L	20	18.0	90	71-123	
Tetrachloroethene	ug/L	20	22.6	113	79-122	
Toluene	ug/L	20	20.3	101	76-122	
trans-1,2-Dichloroethene	ug/L	20	19.7	99	78-126	
Trichloroethene	ug/L	20	20.5	102	76-120	
Vinyl chloride	ug/L	20	17.8	89	57-140	
Xylene (Total)	ug/L	60	63.7	106	76-122	
1,2-Dichloroethane-d4 (S)	%			103	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60162985

QC Batch:	WET/46219	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60162985001		

METHOD BLANK: 1332188 Matrix: Water
Associated Lab Samples: 60162985001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/20/14 07:07	

LABORATORY CONTROL SAMPLE: 1332189

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: 1332190

Parameter	Units	60162864001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	15.3	44	50.2	79	78-114	

SAMPLE DUPLICATE: 1332191

Parameter	Units	60162942001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1140	1180	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60162985

QC Batch: WET/46166

Analysis Method: SM 2540B

QC Batch Method: SM 2540B

Analysis Description: 2540B Total Solids

Associated Lab Samples: 60162985001

METHOD BLANK: 1330829

Matrix: Water

Associated Lab Samples: 60162985001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	5.0	02/17/14 10:45	

LABORATORY CONTROL SAMPLE: 1330830

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	1000	1000	100	80-120	

SAMPLE DUPLICATE: 1330831

Parameter	Units	60162738001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	11900	11900	0	10	

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QUALIFIERS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60162985

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/59523

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

ANALYTE QUALIFIERS

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60162985

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60162985001	WEEKLY TCLP 2/13/14	EPA 8260	MSV/59503		
60162985001	WEEKLY TCLP 2/13/14	EPA 5030B/8260	MSV/59523		
60162985002	TRIP BLANK	EPA 5030B/8260	MSV/59523		
60162985001	WEEKLY TCLP 2/13/14	EPA 1664A	WET/46219		
60162985001	WEEKLY TCLP 2/13/14	SM 2540B	WET/46166		

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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: 2/19/14
 Analyst: CEM

Batch: 6139 3
 Balance ID: 6009XB Reviewed by: _____

	A	B	C	D	E	F	G	H	I	J	K	L	M	
Sample Number	Weight of Beaker (g)	Weight of Sample & Beaker (g)	Weight of Filtrate Container (g)	Weight of 142-mm TCLP Filter (g)	Weight of Waste Beaker After Filtration (g)	Weight of Filtrate & Container (g)	Weight of Filter and Solid Phase After Filtration (g)	Weight of Filtrate (g) <small>(E - C)</small>	Weight of Waste Filtered (g) <small>(E - B)</small>	Percent WET Solids <small>$\frac{(I - H)}{I \times 0.01}$</small>	DRY Weight #1 of Solid Phase plus Filter (g)	DRY Weight #2 of Solid Phase plus Filter (g) (1)	Percent DRY Solids <small>$\frac{(L - D)}{I \times 0.01}$</small>	If Multiphase, Are Phases Compatible (2)
60162985001	111.0	241.8	278.2	1.3	113.2	403.9	3.8	40.1	125.0	2.3%	1.6	1.6	0.2%	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 2/19/14

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 = $\frac{\text{mL of leachate required}}{20 \times \text{Percent solids}} \times 100$



Sample Condition Upon Receipt

WO#: 60162985



Client Name: Barr

Courier: Fed Ex UPS USPS Client Commercial Pace Other read

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 APC

Thermometer Used: T-239 / T-194 Type of Ice: Ice Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 3.6

Temperature should be above freezing to 6°C

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: PC 2/14/14

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Exceptions: <input checked="" type="checkbox"/> VOA coliform, TOC, <input checked="" type="checkbox"/> O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased): <u>cover</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MO</u>

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

Person Contacted: _____ Date/Time: _____
Comments/ Resolution: Waiver - analyzed full suite Request

Project Manager Review: _____ Date: 2/14/14

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:	
Phone: Fax:		Project Name: BRIDGETON UNTREATED COMMINGLED		Pace Project Manager: Angie Brown 913-563-1402	
Requested Due Date/TAT:		Project Number:		Pace Profile #: PROFILE 6787-LINE 6	
REGULATORY AGENCY					
<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____					
Site Location				MO	
STATE:					

ITEM #	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	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.					
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	8260 Volatiles **	TCLP Volatiles *	Total Solids/water matrix			Oil and Grease	TCLP SEMI-VOLATILES	TCLP RCRA 8	TCLP HERBICIDES	TCLP PESTICIDES
					DATE	TIME	DATE	TIME																					
1	weekly TCLP 2/13/14		G	18PSU	24633	2/13/14	1600	11	2									X	X	X	X	3069	X	X	X	X	** total VOCs Bridgeton List		
2																											* footnote %dry solids TCLP		
3																											2064 HTR		
4																											MONTHLY = FULL TCLP SUITE		
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Hunter King	2/13/14	1600	Jason Peters & P... PRS	2-13-14	1600	3.6 Y N Y
					2/14/14	0120	

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 King				
DATE Signed (MM/DD/YY):	2/13/14				

February 24, 2014

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

RE: Project: BRIDGETON LF 316-MSD
Pace Project No.: 60163024

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-MSD

Pace Project No.: 60163024

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-MSD

Pace Project No.: 60163024

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60163024001	316-MSD	Water	02/14/14 12:30	02/15/14 01:20
60163024002	TRIP BLANK	Water	02/14/14 08:00	02/15/14 01:20

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-MSD

Pace Project No.: 60163024

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60163024001	316-MSD	EPA 200.7	JGP	15
		EPA 200.7	TJT	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	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
		60163024002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-MSD

Pace Project No.: 60163024

Sample: 316-MSD		Lab ID: 60163024001	Collected: 02/14/14 12:30	Received: 02/15/14 01:20	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	15100 ug/L		750	2	02/19/14 09:30	02/19/14 16:55	7429-90-5	
Antimony	96.4 ug/L		50.0	1	02/19/14 09:30	02/19/14 16:53	7440-36-0	
Arsenic	1130 ug/L		50.0	1	02/19/14 09:30	02/19/14 16:53	7440-38-2	
Beryllium	ND ug/L		5.0	1	02/19/14 09:30	02/19/14 16:53	7440-41-7	
Cadmium	ND ug/L		25.0	1	02/19/14 09:30	02/19/14 16:53	7440-43-9	
Chromium	274 ug/L		25.0	1	02/19/14 09:30	02/19/14 16:53	7440-47-3	
Cobalt	57.2 ug/L		25.0	1	02/19/14 09:30	02/19/14 16:53	7440-48-4	
Copper	ND ug/L		50.0	1	02/19/14 09:30	02/19/14 16:53	7440-50-8	
Iron	937000 ug/L		250	1	02/19/14 09:30	02/19/14 16:53	7439-89-6	
Lead	120 ug/L		25.0	1	02/19/14 09:30	02/19/14 16:53	7439-92-1	
Nickel	133 ug/L		25.0	1	02/19/14 09:30	02/19/14 16:53	7440-02-0	
Selenium	78.0 ug/L		75.0	1	02/19/14 09:30	02/19/14 16:53	7782-49-2	
Silver	ND ug/L		35.0	1	02/19/14 09:30	02/19/14 16:53	7440-22-4	
Thallium	ND ug/L		100	1	02/19/14 09:30	02/19/14 16:53	7440-28-0	
Zinc	6050 ug/L		500	2	02/19/14 09:30	02/19/14 16:55	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	2550 ug/L		750	2	02/19/14 11:48	02/19/14 17:46	7429-90-5	
Antimony, Dissolved	61.6 ug/L		50.0	1	02/19/14 11:48	02/19/14 17:44	7440-36-0	
Arsenic, Dissolved	932 ug/L		50.0	1	02/19/14 11:48	02/19/14 17:44	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	02/19/14 11:48	02/19/14 17:44	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	02/19/14 11:48	02/19/14 17:44	7440-43-9	
Chromium, Dissolved	203 ug/L		25.0	1	02/19/14 11:48	02/19/14 17:44	7440-47-3	
Cobalt, Dissolved	41.4 ug/L		25.0	1	02/19/14 11:48	02/19/14 17:44	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	02/19/14 11:48	02/19/14 17:44	7440-50-8	
Iron, Dissolved	632000 ug/L		250	1	02/19/14 11:48	02/19/14 17:44	7439-89-6	
Lead, Dissolved	68.0 ug/L		25.0	1	02/19/14 11:48	02/19/14 17:44	7439-92-1	
Nickel, Dissolved	99.1 ug/L		25.0	1	02/19/14 11:48	02/19/14 17:44	7440-02-0	
Selenium, Dissolved	77.0 ug/L		75.0	1	02/19/14 11:48	02/19/14 17:44	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	02/19/14 11:48	02/19/14 17:44	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	02/19/14 11:48	02/19/14 17:44	7440-28-0	
Zinc, Dissolved	5150 ug/L		500	2	02/19/14 11:48	02/19/14 17:46	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	6.4 ug/L		6.0	1	02/18/14 09:30	02/18/14 14:22	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	02/19/14 14:45	02/20/14 12:13	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	02/20/14 00:00	02/21/14 13:08	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	02/20/14 00:00	02/21/14 13:08	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	02/20/14 00:00	02/21/14 13:08	77-47-4	
Hexachloroethane	ND ug/L		1000	2	02/20/14 00:00	02/21/14 13:08	67-72-1	
Naphthalene	ND ug/L		1000	2	02/20/14 00:00	02/21/14 13:08	91-20-3	
Nitrobenzene	ND ug/L		1000	2	02/20/14 00:00	02/21/14 13:08	98-95-3	M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-MSD

Pace Project No.: 60163024

Sample: 316-MSD		Lab ID: 60163024001	Collected: 02/14/14 12:30	Received: 02/15/14 01:20	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	02/20/14 00:00	02/21/14 13:08	87-86-5	
Phenol	9500 ug/L		1000	2	02/20/14 00:00	02/21/14 13:08	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	02/20/14 00:00	02/21/14 13:08	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	02/20/14 00:00	02/21/14 13:08	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	155 %		33-120	2	02/20/14 00:00	02/21/14 13:08	4165-60-0	S0
2-Fluorobiphenyl (S)	89 %		39-120	2	02/20/14 00:00	02/21/14 13:08	321-60-8	
Terphenyl-d14 (S)	89 %		45-120	2	02/20/14 00:00	02/21/14 13:08	1718-51-0	
Phenol-d6 (S)	31 %		11-120	2	02/20/14 00:00	02/21/14 13:08	13127-88-3	
2-Fluorophenol (S)	45 %		17-120	2	02/20/14 00:00	02/21/14 13:08	367-12-4	
2,4,6-Tribromophenol (S)	96 %		39-120	2	02/20/14 00:00	02/21/14 13:08	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	155000 ug/L		2000	200		02/18/14 11:58	67-64-1	N2
Benzene	ND ug/L		200	200		02/18/14 11:58	71-43-2	
Bromodichloromethane	ND ug/L		200	200		02/18/14 11:58	75-27-4	
Bromoform	ND ug/L		200	200		02/18/14 11:58	75-25-2	
Bromomethane	ND ug/L		1000	200		02/18/14 11:58	74-83-9	
2-Butanone (MEK)	123000 ug/L		2000	200		02/18/14 11:58	78-93-3	N2
Carbon tetrachloride	ND ug/L		200	200		02/18/14 11:58	56-23-5	
Chloroethane	ND ug/L		200	200		02/18/14 11:58	75-00-3	
Chloroform	ND ug/L		200	200		02/18/14 11:58	67-66-3	
1,4-Dichlorobenzene	302 ug/L		200	200		02/18/14 11:58	106-46-7	
1,2-Dichloroethane	ND ug/L		200	200		02/18/14 11:58	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200	200		02/18/14 11:58	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		200	200		02/18/14 11:58	156-60-5	
Ethylbenzene	ND ug/L		200	200		02/18/14 11:58	100-41-4	
Methylene chloride	ND ug/L		200	200		02/18/14 11:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	3580 ug/L		2000	200		02/18/14 11:58	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		02/18/14 11:58	79-34-5	N2
Tetrachloroethene	ND ug/L		200	200		02/18/14 11:58	127-18-4	
Toluene	ND ug/L		200	200		02/18/14 11:58	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		02/18/14 11:58	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		02/18/14 11:58	79-00-5	
Trichloroethene	ND ug/L		200	200		02/18/14 11:58	79-01-6	
Vinyl chloride	ND ug/L		200	200		02/18/14 11:58	75-01-4	
Xylene (Total)	ND ug/L		600	200		02/18/14 11:58	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	98 %		80-120	200		02/18/14 11:58	460-00-4	
Toluene-d8 (S)	97 %		80-120	200		02/18/14 11:58	2037-26-5	
1,2-Dichloroethane-d4 (S)	104 %		80-120	200		02/18/14 11:58	17060-07-0	
Preservation pH	6.0		1.0	200		02/18/14 11:58		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	990 mg/L		5.0	1		02/21/14 15:10		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-MSD

Pace Project No.: 60163024

Sample: 316-MSD		Lab ID: 60163024001	Collected: 02/14/14 12:30	Received: 02/15/14 01:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	12.1	mg/L	5.0	1		02/24/14 12:41		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	4140	mg/L	5.0	1		02/20/14 08:59		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	7.6	Std. Units	0.10	1		02/17/14 13:25		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	26600	mg/L	2.0	1	02/15/14 14:33	02/20/14 14:14		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	561	mg/L	20.0	200		02/18/14 13:36	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	56900	mg/L	5000	500		02/21/14 07:11		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-MSD

Pace Project No.: 60163024

Sample: TRIP BLANK		Lab ID: 60163024002	Collected: 02/14/14 08:00	Received: 02/15/14 01:20	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		02/18/14 10:57	67-64-1	N2
Benzene	ND ug/L		1.0	1		02/18/14 10:57	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		02/18/14 10:57	75-27-4	
Bromoform	ND ug/L		1.0	1		02/18/14 10:57	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/18/14 10:57	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		02/18/14 10:57	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		02/18/14 10:57	56-23-5	
Chloroethane	ND ug/L		1.0	1		02/18/14 10:57	75-00-3	
Chloroform	ND ug/L		1.0	1		02/18/14 10:57	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		02/18/14 10:57	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		02/18/14 10:57	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		02/18/14 10:57	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		02/18/14 10:57	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		02/18/14 10:57	100-41-4	
Methylene chloride	ND ug/L		1.0	1		02/18/14 10:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		02/18/14 10:57	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		02/18/14 10:57	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		02/18/14 10:57	127-18-4	
Toluene	ND ug/L		1.0	1		02/18/14 10:57	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		02/18/14 10:57	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		02/18/14 10:57	79-00-5	
Trichloroethene	ND ug/L		1.0	1		02/18/14 10:57	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		02/18/14 10:57	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		02/18/14 10:57	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	102 %		80-120	1		02/18/14 10:57	460-00-4	
Toluene-d8 (S)	94 %		80-120	1		02/18/14 10:57	2037-26-5	
1,2-Dichloroethane-d4 (S)	102 %		80-120	1		02/18/14 10:57	17060-07-0	
Preservation pH	6.0		1.0	1		02/18/14 10:57		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-MSD
Pace Project No.: 60163024

QC Batch: MERP/8139 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 60163024001

METHOD BLANK: 1331079 Matrix: Water
Associated Lab Samples: 60163024001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/18/14 14:16	

LABORATORY CONTROL SAMPLE: 1331080

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: 1331081 1331082

Parameter	60162964001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
	Units	Result	Conc.	Conc.								
Mercury	ug/L	ND	5	5	5.2	5.1	104	102	70-130	3	20	

MATRIX SPIKE SAMPLE: 1331189

Parameter	Units	60163015002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	0.95	5	5.9	99	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-MSD

Pace Project No.: 60163024

QC Batch: MERP/8150 Analysis Method: EPA 245.1
 QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury - Dissolved
 Associated Lab Samples: 60163024001

METHOD BLANK: 1332031 Matrix: Water
 Associated Lab Samples: 60163024001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/20/14 12:00	

LABORATORY CONTROL SAMPLE: 1332032

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1332033 1332034

Parameter	Units	60162845001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury, Dissolved	ug/L	ND	150	150	160	152	106	101	70-130	6	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-MSD
Pace Project No.: 60163024

QC Batch: MPRP/26184 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60163024001

METHOD BLANK: 1331636 Matrix: Water
Associated Lab Samples: 60163024001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	02/19/14 16:32	
Antimony	ug/L	ND	10.0	02/19/14 16:32	
Arsenic	ug/L	ND	10.0	02/19/14 16:32	
Beryllium	ug/L	ND	1.0	02/19/14 16:32	
Cadmium	ug/L	ND	5.0	02/19/14 16:32	
Chromium	ug/L	ND	5.0	02/19/14 16:32	
Cobalt	ug/L	ND	5.0	02/19/14 16:32	
Copper	ug/L	ND	10.0	02/19/14 16:32	
Iron	ug/L	ND	50.0	02/19/14 16:32	
Lead	ug/L	ND	5.0	02/19/14 16:32	
Nickel	ug/L	ND	5.0	02/19/14 16:32	
Selenium	ug/L	ND	15.0	02/19/14 16:32	
Silver	ug/L	ND	7.0	02/19/14 16:32	
Thallium	ug/L	ND	20.0	02/19/14 16:32	
Zinc	ug/L	ND	50.0	02/19/14 16:32	

LABORATORY CONTROL SAMPLE: 1331637

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10200	102	85-115	
Antimony	ug/L	1000	1070	107	85-115	
Arsenic	ug/L	1000	1040	104	85-115	
Beryllium	ug/L	1000	1010	101	85-115	
Cadmium	ug/L	1000	1080	108	85-115	
Chromium	ug/L	1000	1030	103	85-115	
Cobalt	ug/L	1000	1090	109	85-115	
Copper	ug/L	1000	1010	101	85-115	
Iron	ug/L	10000	9970	100	85-115	
Lead	ug/L	1000	1080	108	85-115	
Nickel	ug/L	1000	1080	108	85-115	
Selenium	ug/L	1000	1070	107	85-115	
Silver	ug/L	500	490	98	85-115	
Thallium	ug/L	1000	1130	113	85-115	
Zinc	ug/L	1000	1070	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1331638 1331639

Parameter	Units	60162942001		MS		MSD		% Rec	% Rec	% Rec	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result					
Aluminum	ug/L	15200	50000	50000	73300	73400	116	117	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-MSD

Pace Project No.: 60163024

Parameter	Units	60162942001		1331638		1331639		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Antimony	ug/L	65.6	5000	5000	5620	5570	111	110	70-130	1	7			
Arsenic	ug/L	1160	5000	5000	7130	7080	119	118	70-130	1	10			
Beryllium	ug/L	ND	5000	5000	4860	4870	97	97	70-130	0	7			
Cadmium	ug/L	ND	5000	5000	5690	5640	113	112	70-130	1	10			
Chromium	ug/L	340	5000	5000	5370	5350	101	100	70-130	0	10			
Cobalt	ug/L	52.9	5000	5000	5120	5100	101	101	70-130	0	6			
Copper	ug/L	ND	5000	5000	5320	5300	106	105	70-130	0	11			
Iron	ug/L	931000	50000	50000	990000	982000	118	101	70-130	1	10			
Lead	ug/L	154	5000	5000	4820	4820	93	93	70-130	0	10			
Nickel	ug/L	144	5000	5000	5120	5100	99	99	70-130	0	10			
Selenium	ug/L	88.6	5000	5000	6520	6540	129	129	70-130	0	10			
Silver	ug/L	ND	2500	2500	2630	2630	105	105	70-130	0	10			
Thallium	ug/L	ND	5000	5000	4390	4360	88	87	70-130	1	6			
Zinc	ug/L	10200	5000	5000	15300	15200	102	100	70-130	0	11			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-MSD
Pace Project No.: 60163024

QC Batch: MPRP/26195 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60163024001

METHOD BLANK: 1331781 Matrix: Water
Associated Lab Samples: 60163024001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	02/19/14 17:19	
Antimony, Dissolved	ug/L	ND	10.0	02/19/14 17:19	
Arsenic, Dissolved	ug/L	ND	10.0	02/19/14 17:19	
Beryllium, Dissolved	ug/L	ND	1.0	02/19/14 17:19	
Cadmium, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Chromium, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Cobalt, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Copper, Dissolved	ug/L	ND	10.0	02/19/14 17:19	
Iron, Dissolved	ug/L	ND	50.0	02/19/14 17:19	
Lead, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Nickel, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Selenium, Dissolved	ug/L	ND	15.0	02/19/14 17:19	
Silver, Dissolved	ug/L	ND	7.0	02/19/14 17:19	
Thallium, Dissolved	ug/L	ND	20.0	02/19/14 17:19	
Zinc, Dissolved	ug/L	ND	50.0	02/19/14 17:19	

LABORATORY CONTROL SAMPLE: 1331782

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	1050	105	85-115	
Arsenic, Dissolved	ug/L	1000	1000	100	85-115	
Beryllium, Dissolved	ug/L	1000	997	100	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	1020	102	85-115	
Iron, Dissolved	ug/L	10000	9650	96	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	1060	106	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: 1331783 1331784

Parameter	Units	60162942001		MS		MSD		% Rec	% Rec	% Rec	Max	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	Result					
Aluminum, Dissolved	ug/L	2690	50000	50000	54700	53600	104	102	70-130	2	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-MSD

Pace Project No.: 60163024

Parameter	60162942001		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Antimony, Dissolved	ug/L	50.8	5000	5000	5510	5510	109	109	70-130	0	7		
Arsenic, Dissolved	ug/L	917	5000	5000	6520	6540	112	112	70-130	0	10		
Beryllium, Dissolved	ug/L	ND	5000	5000	4840	4800	97	96	70-130	1	7		
Cadmium, Dissolved	ug/L	ND	5000	5000	5520	5590	110	111	70-130	1	10		
Chromium, Dissolved	ug/L	262	5000	5000	5280	5230	100	99	70-130	1	10		
Cobalt, Dissolved	ug/L	33.1	5000	5000	5040	5120	100	102	70-130	2	6		
Copper, Dissolved	ug/L	ND	5000	5000	5320	5240	106	105	70-130	1	11		
Iron, Dissolved	ug/L	648000	50000	50000	674000	602000	52	-92	70-130	11	10	M1, R1	
Lead, Dissolved	ug/L	89.8	5000	5000	4800	4820	94	95	70-130	1	10		
Nickel, Dissolved	ug/L	94.4	5000	5000	5060	5060	99	99	70-130	0	10		
Selenium, Dissolved	ug/L	ND	5000	5000	6220	6200	123	123	70-130	0	10		
Silver, Dissolved	ug/L	ND	2500	2500	2640	2580	106	103	70-130	2	10		
Thallium, Dissolved	ug/L	ND	5000	5000	4340	4470	87	89	70-130	3	6		
Zinc, Dissolved	ug/L	8120	5000	5000	13000	12500	97	88	70-130	4	11		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-MSD

Pace Project No.: 60163024

QC Batch: MSV/59461 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60163024001, 60163024002

METHOD BLANK: 1331185 Matrix: Water

Associated Lab Samples: 60163024001, 60163024002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/18/14 10:12	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/18/14 10:12	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	02/18/14 10:12	
1,2-Dichloroethane	ug/L	ND	1.0	02/18/14 10:12	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/18/14 10:12	
2-Butanone (MEK)	ug/L	ND	10.0	02/18/14 10:12	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/18/14 10:12	N2
Acetone	ug/L	ND	10.0	02/18/14 10:12	N2
Benzene	ug/L	ND	1.0	02/18/14 10:12	
Bromodichloromethane	ug/L	ND	1.0	02/18/14 10:12	
Bromoform	ug/L	ND	1.0	02/18/14 10:12	
Bromomethane	ug/L	ND	5.0	02/18/14 10:12	
Carbon tetrachloride	ug/L	ND	1.0	02/18/14 10:12	
Chloroethane	ug/L	ND	1.0	02/18/14 10:12	
Chloroform	ug/L	ND	1.0	02/18/14 10:12	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/18/14 10:12	N2
Ethylbenzene	ug/L	ND	1.0	02/18/14 10:12	
Methylene chloride	ug/L	ND	1.0	02/18/14 10:12	
Tetrachloroethene	ug/L	ND	1.0	02/18/14 10:12	
Toluene	ug/L	ND	1.0	02/18/14 10:12	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/18/14 10:12	
Trichloroethene	ug/L	ND	1.0	02/18/14 10:12	
Vinyl chloride	ug/L	ND	1.0	02/18/14 10:12	
Xylene (Total)	ug/L	ND	3.0	02/18/14 10:12	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	02/18/14 10:12	
4-Bromofluorobenzene (S)	%	100	80-120	02/18/14 10:12	
Toluene-d8 (S)	%	100	80-120	02/18/14 10:12	

LABORATORY CONTROL SAMPLE: 1331186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.7	98	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	59-138	N2
1,1,2-Trichloroethane	ug/L	20	18.9	95	69-127	
1,2-Dichloroethane	ug/L	20	18.8	94	71-129	
1,4-Dichlorobenzene	ug/L	20	19.9	99	68-124	
2-Butanone (MEK)	ug/L	100	93.9	94	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	98.3	98	61-120	N2
Acetone	ug/L	100	68.8	69	40-160	N2
Benzene	ug/L	20	19.3	96	73-129	
Bromodichloromethane	ug/L	20	23.5	117	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-MSD

Pace Project No.: 60163024

LABORATORY CONTROL SAMPLE: 1331186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	22.1	111	52-123	
Bromomethane	ug/L	20	15.6	78	10-160	
Carbon tetrachloride	ug/L	20	21.4	107	70-140	
Chloroethane	ug/L	20	21.9	109	42-160	
Chloroform	ug/L	20	19.5	98	60-120	
cis-1,2-Dichloroethene	ug/L	20	19.7	98	70-125	N2
Ethylbenzene	ug/L	20	20.3	101	66-133	
Methylene chloride	ug/L	20	18.2	91	56-135	
Tetrachloroethene	ug/L	20	21.5	108	64-143	
Toluene	ug/L	20	18.0	90	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.9	104	67-149	
Trichloroethene	ug/L	20	20.9	104	71-130	
Vinyl chloride	ug/L	20	20.9	105	41-160	
Xylene (Total)	ug/L	60	60.7	101	67-130	N2
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			102	80-120	

MATRIX SPIKE SAMPLE: 1331187

Parameter	Units	60163031001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3930	98	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4140	104	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4260	107	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3990	100	49-155	
1,4-Dichlorobenzene	ug/L	1010	4000	4830	95	18-147	
2-Butanone (MEK)	ug/L	112000	20000	132000	99	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	3570	20000	22800	96	40-160	N2
Acetone	ug/L	141000	20000	161000	97	40-160	N2
Benzene	ug/L	ND	4000	3850	95	37-151	
Bromodichloromethane	ug/L	ND	4000	3890	97	35-155	
Bromoform	ug/L	ND	4000	4360	109	45-133	
Bromomethane	ug/L	ND	4000	2370	59	10-160	
Carbon tetrachloride	ug/L	ND	4000	4520	113	70-140	
Chloroethane	ug/L	ND	4000	4200	105	14-160	
Chloroform	ug/L	ND	4000	4000	100	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3950	99	19-160	N2
Ethylbenzene	ug/L	ND	4000	4070	100	37-154	
Methylene chloride	ug/L	ND	4000	3540	88	15-156	
Tetrachloroethene	ug/L	ND	4000	4430	111	64-148	
Toluene	ug/L	ND	4000	3590	89	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4100	102	54-156	
Trichloroethene	ug/L	ND	4000	3580	89	71-157	
Vinyl chloride	ug/L	ND	4000	4540	113	10-160	
Xylene (Total)	ug/L	ND	12000	11900	99	12-153	N2
1,2-Dichloroethane-d4 (S)	%				103	80-120	
4-Bromofluorobenzene (S)	%				97	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-MSD

Pace Project No.: 60163024

MATRIX SPIKE SAMPLE:		1331187					
Parameter	Units	60163031001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S) Preservation pH	%	6.0	6.0	6.0	97	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-MSD

Pace Project No.: 60163024

QC Batch:	OEXT/42791	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60163024001		

METHOD BLANK: 1332201 Matrix: Water

Associated Lab Samples: 60163024001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/21/14 08:59	
2,4,6-Trichlorophenol	ug/L	ND	5.0	02/21/14 08:59	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	02/21/14 08:59	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/21/14 08:59	
Hexachlorocyclopentadiene	ug/L	ND	5.0	02/21/14 08:59	
Hexachloroethane	ug/L	ND	5.0	02/21/14 08:59	
Naphthalene	ug/L	ND	5.0	02/21/14 08:59	
Nitrobenzene	ug/L	ND	5.0	02/21/14 08:59	
Pentachlorophenol	ug/L	ND	5.0	02/21/14 08:59	
Phenol	ug/L	ND	5.0	02/21/14 08:59	
2,4,6-Tribromophenol (S)	%	70	39-120	02/21/14 08:59	
2-Fluorobiphenyl (S)	%	66	39-120	02/21/14 08:59	
2-Fluorophenol (S)	%	40	17-120	02/21/14 08:59	
Nitrobenzene-d5 (S)	%	75	33-120	02/21/14 08:59	
Phenol-d6 (S)	%	24	11-120	02/21/14 08:59	
Terphenyl-d14 (S)	%	84	45-120	02/21/14 08:59	

LABORATORY CONTROL SAMPLE: 1332202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	43.3	87	46-120	
2,4,6-Trichlorophenol	ug/L	50	36.2	72	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	45.9	92	40-133	
Hexachloro-1,3-butadiene	ug/L	50	40.7	81	44-116	
Hexachlorocyclopentadiene	ug/L	100	61.6	62	24-120	
Hexachloroethane	ug/L	50	35.8	72	43-113	
Naphthalene	ug/L	50	43.5	87	48-120	
Nitrobenzene	ug/L	50	43.5	87	48-120	
Pentachlorophenol	ug/L	50	41.2	82	47-120	
Phenol	ug/L	50	13.4	27	16-112	
2,4,6-Tribromophenol (S)	%			81	39-120	
2-Fluorobiphenyl (S)	%			75	39-120	
2-Fluorophenol (S)	%			42	17-120	
Nitrobenzene-d5 (S)	%			87	33-120	
Phenol-d6 (S)	%			27	11-120	
Terphenyl-d14 (S)	%			84	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-MSD

Pace Project No.: 60163024

MATRIX SPIKE SAMPLE:		1332203					
Parameter	Units	60163024001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	4380	88	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4310	86	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4610J	92	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4270	85	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	5410	54	11-120	
Hexachloroethane	ug/L	ND	5000	4110	82	40-113	
Naphthalene	ug/L	ND	5000	4960	92	45-120	
Nitrobenzene	ug/L	ND	5000	7400	148	38-120	M1
Pentachlorophenol	ug/L	ND	5000	5420	108	43-135	
Phenol	ug/L	9500	5000	14800	107	13-112	
2,4,6-Tribromophenol (S)	%				87	39-120	
2-Fluorobiphenyl (S)	%				82	39-120	
2-Fluorophenol (S)	%				50	17-120	
Nitrobenzene-d5 (S)	%				166	33-120	S0
Phenol-d6 (S)	%				36	11-120	
Terphenyl-d14 (S)	%				100	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-MSD

Pace Project No.: 60163024

QC Batch:	WET/46272	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60163024001		

METHOD BLANK: 1333424 Matrix: Water
Associated Lab Samples: 60163024001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/21/14 15:07	

LABORATORY CONTROL SAMPLE: 1333425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	36.5	91	78-114	

MATRIX SPIKE SAMPLE: 1333426

Parameter	Units	60163024001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	990	160	1160	107	78-114	

SAMPLE DUPLICATE: 1333427

Parameter	Units	60163031001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	750	773	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-MSD

Pace Project No.: 60163024

QC Batch:	WET/46289	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60163024001		

METHOD BLANK: 1334395 Matrix: Water
Associated Lab Samples: 60163024001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	02/24/14 12:41	

LABORATORY CONTROL SAMPLE: 1334396

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	20.6	103	64-132	

MATRIX SPIKE SAMPLE: 1334397

Parameter	Units	60163024001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	12.1	80	90.8	98	64-132	

SAMPLE DUPLICATE: 1334398

Parameter	Units	60163031001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	6.8	8.0	16	34	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-MSD

Pace Project No.: 60163024

QC Batch: WET/46199

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60163024001

METHOD BLANK: 1331494

Matrix: Water

Associated Lab Samples: 60163024001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	02/20/14 08:57	

SAMPLE DUPLICATE: 1331495

Parameter	Units	60163079011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	444	558	23	10	D6

SAMPLE DUPLICATE: 1331496

Parameter	Units	60163083001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3300	3960	18	10	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-MSD

Pace Project No.: 60163024

QC Batch: WET/46171 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60163024001

SAMPLE DUPLICATE: 1330865

Parameter	Units	60162755001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.1	5.2	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-MSD

Pace Project No.: 60163024

QC Batch: WET/46157

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60163024001

METHOD BLANK: 1330751

Matrix: Water

Associated Lab Samples: 60163024001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	02/20/14 14:07	

LABORATORY CONTROL SAMPLE: 1330752

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	204	103	85-115	

SAMPLE DUPLICATE: 1330753

Parameter	Units	60163024001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	26600	29200	9	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-MSD

Pace Project No.: 60163024

QC Batch:	WETA/28218	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60163024001		

METHOD BLANK: 1331112 Matrix: Water
Associated Lab Samples: 60163024001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/18/14 13:15	

LABORATORY CONTROL SAMPLE: 1331113

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	105	90-110	

MATRIX SPIKE SAMPLE: 1331114

Parameter	Units	60162937002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.81	2	2.6	88	90-110	M1

MATRIX SPIKE SAMPLE: 1331115

Parameter	Units	60162964001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.33	2	2.3	98	90-110	

SAMPLE DUPLICATE: 1331116

Parameter	Units	60162984004 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-MSD

Pace Project No.: 60163024

QC Batch: WETA/28251 Analysis Method: EPA 410.4
 QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
 Associated Lab Samples: 60163024001

METHOD BLANK: 1332196 Matrix: Water
 Associated Lab Samples: 60163024001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/21/14 07:08	

LABORATORY CONTROL SAMPLE: 1332197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	50.3	101	90-110	

MATRIX SPIKE SAMPLE: 1332198

Parameter	Units	60162835005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	3040	1250	4150	89	90-110	M1

MATRIX SPIKE SAMPLE: 1332200

Parameter	Units	60163148001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	56700	25000	79600	91	90-110	

SAMPLE DUPLICATE: 1332199

Parameter	Units	60163031001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	54400	54400	0	25	

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QUALIFIERS

Project: BRIDGETON LF 316-MSD

Pace Project No.: 60163024

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.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-MSD

Pace Project No.: 60163024

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60163024001	316-MSD	EPA 200.7	MPRP/26184	EPA 200.7	ICP/20007
60163024001	316-MSD	EPA 200.7	MPRP/26195	EPA 200.7	ICP/20009
60163024001	316-MSD	EPA 245.1	MERP/8139	EPA 245.1	MERC/8094
60163024001	316-MSD	EPA 245.1	MERP/8150	EPA 245.1	MERC/8107
60163024001	316-MSD	EPA 625	OEXT/42791	EPA 625	MSSV/13624
60163024001	316-MSD	EPA 624 Low	MSV/59461		
60163024002	TRIP BLANK	EPA 624 Low	MSV/59461		
60163024001	316-MSD	EPA 1664A	WET/46272		
60163024001	316-MSD	EPA 1664A	WET/46289		
60163024001	316-MSD	SM 2540D	WET/46199		
60163024001	316-MSD	SM 4500-H+B	WET/46171		
60163024001	316-MSD	SM 5210B	WET/46157	SM 5210B	WET/46237
60163024001	316-MSD	EPA 350.1	WETA/28218		
60163024001	316-MSD	EPA 410.4	WETA/28251		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60163024



Client Name: Barr Eng

Courier: Fed Ex UPS USPS Client Commercial Pace Other axroad

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 2PIC

Thermometer Used: T-238 / T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 1-4

Date and initials of person examining contents: pu 2/15/14

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOD PH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>Added 2.5 ml of HNO3 to SP32. PH 6.0/4.6</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>Added 2.0 ml of H2SO4 to SP35. PH 6.0/3.5</u>
Exceptions: <u>VOA</u> coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>pu</u> Lot # of added preservative <u>12514</u> <u>12517</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>cover</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MO</u>

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 ARB

Date: 2/15/14

February 24, 2014

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

RE: Project: BRIDGETON LF 316-218
Pace Project No.: 60163031

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 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 316-218

Pace Project No.: 60163031

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 316-218

Pace Project No.: 60163031

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60163031001	316-218	Water	02/14/14 11:00	02/15/14 01:20
60163031002	TRIP BLANK	Water	02/14/14 08:00	02/15/14 01:20

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-218

Pace Project No.: 60163031

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60163031001	316-218	EPA 200.7	JGP	15
		EPA 200.7	TJT	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	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
		60163031002	TRIP BLANK	EPA 624 Low

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-218

Pace Project No.: 60163031

Sample: 316-218		Lab ID: 60163031001	Collected: 02/14/14 11:00	Received: 02/15/14 01:20	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	12800	ug/L	750	2	02/19/14 09:30	02/19/14 17:00	7429-90-5	
Antimony	72.6	ug/L	50.0	1	02/19/14 09:30	02/19/14 16:58	7440-36-0	
Arsenic	1150	ug/L	50.0	1	02/19/14 09:30	02/19/14 16:58	7440-38-2	
Beryllium	ND	ug/L	5.0	1	02/19/14 09:30	02/19/14 16:58	7440-41-7	
Cadmium	ND	ug/L	25.0	1	02/19/14 09:30	02/19/14 16:58	7440-43-9	
Chromium	332	ug/L	25.0	1	02/19/14 09:30	02/19/14 16:58	7440-47-3	
Cobalt	54.5	ug/L	25.0	1	02/19/14 09:30	02/19/14 16:58	7440-48-4	
Copper	ND	ug/L	50.0	1	02/19/14 09:30	02/19/14 16:58	7440-50-8	
Iron	915000	ug/L	250	1	02/19/14 09:30	02/19/14 16:58	7439-89-6	
Lead	131	ug/L	25.0	1	02/19/14 09:30	02/19/14 16:58	7439-92-1	
Nickel	145	ug/L	25.0	1	02/19/14 09:30	02/19/14 16:58	7440-02-0	
Selenium	87.8	ug/L	75.0	1	02/19/14 09:30	02/19/14 16:58	7782-49-2	
Silver	ND	ug/L	35.0	1	02/19/14 09:30	02/19/14 16:58	7440-22-4	
Thallium	ND	ug/L	100	1	02/19/14 09:30	02/19/14 16:58	7440-28-0	
Zinc	9530	ug/L	500	2	02/19/14 09:30	02/19/14 17:00	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	2570	ug/L	750	2	02/19/14 11:48	02/19/14 17:51	7429-90-5	
Antimony, Dissolved	ND	ug/L	50.0	1	02/19/14 11:48	02/19/14 17:49	7440-36-0	
Arsenic, Dissolved	895	ug/L	50.0	1	02/19/14 11:48	02/19/14 17:49	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	02/19/14 11:48	02/19/14 17:49	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	02/19/14 11:48	02/19/14 17:49	7440-43-9	
Chromium, Dissolved	234	ug/L	25.0	1	02/19/14 11:48	02/19/14 17:49	7440-47-3	
Cobalt, Dissolved	36.2	ug/L	25.0	1	02/19/14 11:48	02/19/14 17:49	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	02/19/14 11:48	02/19/14 17:49	7440-50-8	
Iron, Dissolved	590000	ug/L	250	1	02/19/14 11:48	02/19/14 17:49	7439-89-6	
Lead, Dissolved	79.8	ug/L	25.0	1	02/19/14 11:48	02/19/14 17:49	7439-92-1	
Nickel, Dissolved	98.1	ug/L	25.0	1	02/19/14 11:48	02/19/14 17:49	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	02/19/14 11:48	02/19/14 17:49	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	02/19/14 11:48	02/19/14 17:49	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	02/19/14 11:48	02/19/14 17:49	7440-28-0	
Zinc, Dissolved	7530	ug/L	500	2	02/19/14 11:48	02/19/14 17:51	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	7.6	ug/L	6.0	1	02/18/14 09:30	02/18/14 14:24	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	02/19/14 14:45	02/20/14 12:15	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	02/20/14 00:00	02/21/14 13:29	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	02/20/14 00:00	02/21/14 13:29	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	02/20/14 00:00	02/21/14 13:29	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	02/20/14 00:00	02/21/14 13:29	67-72-1	
Naphthalene	ND	ug/L	1000	2	02/20/14 00:00	02/21/14 13:29	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	02/20/14 00:00	02/21/14 13:29	98-95-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-218

Pace Project No.: 60163031

Sample: 316-218		Lab ID: 60163031001	Collected: 02/14/14 11:00	Received: 02/15/14 01:20	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	02/20/14 00:00	02/21/14 13:29	87-86-5	
Phenol	6430 ug/L		1000	2	02/20/14 00:00	02/21/14 13:29	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	02/20/14 00:00	02/21/14 13:29	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	02/20/14 00:00	02/21/14 13:29	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	133 %		33-120	2	02/20/14 00:00	02/21/14 13:29	4165-60-0	S0
2-Fluorobiphenyl (S)	77 %		39-120	2	02/20/14 00:00	02/21/14 13:29	321-60-8	
Terphenyl-d14 (S)	88 %		45-120	2	02/20/14 00:00	02/21/14 13:29	1718-51-0	
Phenol-d6 (S)	23 %		11-120	2	02/20/14 00:00	02/21/14 13:29	13127-88-3	
2-Fluorophenol (S)	32 %		17-120	2	02/20/14 00:00	02/21/14 13:29	367-12-4	
2,4,6-Tribromophenol (S)	80 %		39-120	2	02/20/14 00:00	02/21/14 13:29	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	141000 ug/L		2000	200		02/18/14 12:13	67-64-1	N2
Benzene	ND ug/L		200	200		02/18/14 12:13	71-43-2	
Bromodichloromethane	ND ug/L		200	200		02/18/14 12:13	75-27-4	
Bromoform	ND ug/L		200	200		02/18/14 12:13	75-25-2	
Bromomethane	ND ug/L		1000	200		02/18/14 12:13	74-83-9	
2-Butanone (MEK)	112000 ug/L		2000	200		02/18/14 12:13	78-93-3	N2
Carbon tetrachloride	ND ug/L		200	200		02/18/14 12:13	56-23-5	
Chloroethane	ND ug/L		200	200		02/18/14 12:13	75-00-3	
Chloroform	ND ug/L		200	200		02/18/14 12:13	67-66-3	
1,4-Dichlorobenzene	1010 ug/L		200	200		02/18/14 12:13	106-46-7	
1,2-Dichloroethane	ND ug/L		200	200		02/18/14 12:13	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200	200		02/18/14 12:13	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		200	200		02/18/14 12:13	156-60-5	
Ethylbenzene	ND ug/L		200	200		02/18/14 12:13	100-41-4	
Methylene chloride	ND ug/L		200	200		02/18/14 12:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	3570 ug/L		2000	200		02/18/14 12:13	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		02/18/14 12:13	79-34-5	N2
Tetrachloroethene	ND ug/L		200	200		02/18/14 12:13	127-18-4	
Toluene	ND ug/L		200	200		02/18/14 12:13	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		02/18/14 12:13	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		02/18/14 12:13	79-00-5	
Trichloroethene	ND ug/L		200	200		02/18/14 12:13	79-01-6	
Vinyl chloride	ND ug/L		200	200		02/18/14 12:13	75-01-4	
Xylene (Total)	ND ug/L		600	200		02/18/14 12:13	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	99 %		80-120	200		02/18/14 12:13	460-00-4	
Toluene-d8 (S)	96 %		80-120	200		02/18/14 12:13	2037-26-5	
1,2-Dichloroethane-d4 (S)	103 %		80-120	200		02/18/14 12:13	17060-07-0	
Preservation pH	6.0		1.0	200		02/18/14 12:13		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	750 mg/L		5.0	1		02/21/14 15:10		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-218

Pace Project No.: 60163031

Sample: 316-218		Lab ID: 60163031001	Collected: 02/14/14 11:00	Received: 02/15/14 01:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	6.8	mg/L	5.0	1		02/24/14 12:42		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	3540	mg/L	5.0	1		02/20/14 08:59		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.5	Std. Units	0.10	1		02/17/14 13:25		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	29500	mg/L	2.0	1	02/15/14 12:08	02/20/14 15:19		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	678	mg/L	20.0	200		02/18/14 13:42	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	54400	mg/L	5000	500		02/21/14 07:14		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-218

Pace Project No.: 60163031

Sample: TRIP BLANK		Lab ID: 60163031002	Collected: 02/14/14 08:00	Received: 02/15/14 01:20	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		02/18/14 11:12	67-64-1	N2
Benzene	ND ug/L		1.0	1		02/18/14 11:12	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		02/18/14 11:12	75-27-4	
Bromoform	ND ug/L		1.0	1		02/18/14 11:12	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/18/14 11:12	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		02/18/14 11:12	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		02/18/14 11:12	56-23-5	
Chloroethane	ND ug/L		1.0	1		02/18/14 11:12	75-00-3	
Chloroform	ND ug/L		1.0	1		02/18/14 11:12	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		02/18/14 11:12	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		02/18/14 11:12	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		02/18/14 11:12	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		02/18/14 11:12	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		02/18/14 11:12	100-41-4	
Methylene chloride	ND ug/L		1.0	1		02/18/14 11:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		02/18/14 11:12	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		02/18/14 11:12	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		02/18/14 11:12	127-18-4	
Toluene	ND ug/L		1.0	1		02/18/14 11:12	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		02/18/14 11:12	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		02/18/14 11:12	79-00-5	
Trichloroethene	ND ug/L		1.0	1		02/18/14 11:12	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		02/18/14 11:12	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		02/18/14 11:12	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	1		02/18/14 11:12	460-00-4	
Toluene-d8 (S)	95 %		80-120	1		02/18/14 11:12	2037-26-5	
1,2-Dichloroethane-d4 (S)	102 %		80-120	1		02/18/14 11:12	17060-07-0	
Preservation pH	6.0		1.0	1		02/18/14 11:12		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-218

Pace Project No.: 60163031

QC Batch: MERP/8139

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60163031001

METHOD BLANK: 1331079

Matrix: Water

Associated Lab Samples: 60163031001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/18/14 14:16	

LABORATORY CONTROL SAMPLE: 1331080

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: 1331081 1331082

Parameter	60162964001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Mercury	ug/L	ND	5	5	5.2	5.1	104	102	70-130	3	20	

MATRIX SPIKE SAMPLE: 1331189

Parameter	Units	60163015002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	0.95	5	5.9	99	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-218

Pace Project No.: 60163031

QC Batch: MERP/8150

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60163031001

METHOD BLANK: 1332031

Matrix: Water

Associated Lab Samples: 60163031001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/20/14 12:00	

LABORATORY CONTROL SAMPLE: 1332032

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1332033 1332034

Parameter	Units	60162845001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Spike Conc.	MSD Result						
Mercury, Dissolved	ug/L	ND	150	150	150	152	106	101	70-130	6	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-218
Pace Project No.: 60163031

QC Batch: MPRP/26184 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60163031001

METHOD BLANK: 1331636 Matrix: Water
Associated Lab Samples: 60163031001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	02/19/14 16:32	
Antimony	ug/L	ND	10.0	02/19/14 16:32	
Arsenic	ug/L	ND	10.0	02/19/14 16:32	
Beryllium	ug/L	ND	1.0	02/19/14 16:32	
Cadmium	ug/L	ND	5.0	02/19/14 16:32	
Chromium	ug/L	ND	5.0	02/19/14 16:32	
Cobalt	ug/L	ND	5.0	02/19/14 16:32	
Copper	ug/L	ND	10.0	02/19/14 16:32	
Iron	ug/L	ND	50.0	02/19/14 16:32	
Lead	ug/L	ND	5.0	02/19/14 16:32	
Nickel	ug/L	ND	5.0	02/19/14 16:32	
Selenium	ug/L	ND	15.0	02/19/14 16:32	
Silver	ug/L	ND	7.0	02/19/14 16:32	
Thallium	ug/L	ND	20.0	02/19/14 16:32	
Zinc	ug/L	ND	50.0	02/19/14 16:32	

LABORATORY CONTROL SAMPLE: 1331637

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10200	102	85-115	
Antimony	ug/L	1000	1070	107	85-115	
Arsenic	ug/L	1000	1040	104	85-115	
Beryllium	ug/L	1000	1010	101	85-115	
Cadmium	ug/L	1000	1080	108	85-115	
Chromium	ug/L	1000	1030	103	85-115	
Cobalt	ug/L	1000	1090	109	85-115	
Copper	ug/L	1000	1010	101	85-115	
Iron	ug/L	10000	9970	100	85-115	
Lead	ug/L	1000	1080	108	85-115	
Nickel	ug/L	1000	1080	108	85-115	
Selenium	ug/L	1000	1070	107	85-115	
Silver	ug/L	500	490	98	85-115	
Thallium	ug/L	1000	1130	113	85-115	
Zinc	ug/L	1000	1070	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1331638 1331639

Parameter	Units	60162942001		MS		MSD		% Rec	% Rec	% Rec	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result					
Aluminum	ug/L	15200	50000	50000	73300	73400	116	117	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-218

Pace Project No.: 60163031

Parameter	Units	60162942001		1331638		1331639		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Antimony	ug/L	65.6	5000	5000	5620	5570	111	110	70-130	1	7			
Arsenic	ug/L	1160	5000	5000	7130	7080	119	118	70-130	1	10			
Beryllium	ug/L	ND	5000	5000	4860	4870	97	97	70-130	0	7			
Cadmium	ug/L	ND	5000	5000	5690	5640	113	112	70-130	1	10			
Chromium	ug/L	340	5000	5000	5370	5350	101	100	70-130	0	10			
Cobalt	ug/L	52.9	5000	5000	5120	5100	101	101	70-130	0	6			
Copper	ug/L	ND	5000	5000	5320	5300	106	105	70-130	0	11			
Iron	ug/L	931000	50000	50000	990000	982000	118	101	70-130	1	10			
Lead	ug/L	154	5000	5000	4820	4820	93	93	70-130	0	10			
Nickel	ug/L	144	5000	5000	5120	5100	99	99	70-130	0	10			
Selenium	ug/L	88.6	5000	5000	6520	6540	129	129	70-130	0	10			
Silver	ug/L	ND	2500	2500	2630	2630	105	105	70-130	0	10			
Thallium	ug/L	ND	5000	5000	4390	4360	88	87	70-130	1	6			
Zinc	ug/L	10200	5000	5000	15300	15200	102	100	70-130	0	11			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-218
Pace Project No.: 60163031

QC Batch: MPRP/26195 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60163031001

METHOD BLANK: 1331781 Matrix: Water
Associated Lab Samples: 60163031001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	02/19/14 17:19	
Antimony, Dissolved	ug/L	ND	10.0	02/19/14 17:19	
Arsenic, Dissolved	ug/L	ND	10.0	02/19/14 17:19	
Beryllium, Dissolved	ug/L	ND	1.0	02/19/14 17:19	
Cadmium, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Chromium, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Cobalt, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Copper, Dissolved	ug/L	ND	10.0	02/19/14 17:19	
Iron, Dissolved	ug/L	ND	50.0	02/19/14 17:19	
Lead, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Nickel, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Selenium, Dissolved	ug/L	ND	15.0	02/19/14 17:19	
Silver, Dissolved	ug/L	ND	7.0	02/19/14 17:19	
Thallium, Dissolved	ug/L	ND	20.0	02/19/14 17:19	
Zinc, Dissolved	ug/L	ND	50.0	02/19/14 17:19	

LABORATORY CONTROL SAMPLE: 1331782

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	1050	105	85-115	
Arsenic, Dissolved	ug/L	1000	1000	100	85-115	
Beryllium, Dissolved	ug/L	1000	997	100	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	1020	102	85-115	
Iron, Dissolved	ug/L	10000	9650	96	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	1060	106	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: 1331783 1331784

Parameter	Units	60162942001		MS		MSD		% Rec	% Rec	% Rec	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result					
Aluminum, Dissolved	ug/L	2690	50000	50000	54700	53600	104	102	70-130	2	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-218

Pace Project No.: 60163031

Parameter	60162942001		MS		MSD		MS		MSD		Max	
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Antimony, Dissolved	ug/L	50.8	5000	5000	5510	5510	109	109	70-130	0	7	
Arsenic, Dissolved	ug/L	917	5000	5000	6520	6540	112	112	70-130	0	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	4840	4800	97	96	70-130	1	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5520	5590	110	111	70-130	1	10	
Chromium, Dissolved	ug/L	262	5000	5000	5280	5230	100	99	70-130	1	10	
Cobalt, Dissolved	ug/L	33.1	5000	5000	5040	5120	100	102	70-130	2	6	
Copper, Dissolved	ug/L	ND	5000	5000	5320	5240	106	105	70-130	1	11	
Iron, Dissolved	ug/L	648000	50000	50000	674000	602000	52	-92	70-130	11	10	M1, R1
Lead, Dissolved	ug/L	89.8	5000	5000	4800	4820	94	95	70-130	1	10	
Nickel, Dissolved	ug/L	94.4	5000	5000	5060	5060	99	99	70-130	0	10	
Selenium, Dissolved	ug/L	ND	5000	5000	6220	6200	123	123	70-130	0	10	
Silver, Dissolved	ug/L	ND	2500	2500	2640	2580	106	103	70-130	2	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4340	4470	87	89	70-130	3	6	
Zinc, Dissolved	ug/L	8120	5000	5000	13000	12500	97	88	70-130	4	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-218

Pace Project No.: 60163031

QC Batch: MSV/59461 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60163031001, 60163031002

METHOD BLANK: 1331185 Matrix: Water

Associated Lab Samples: 60163031001, 60163031002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/18/14 10:12	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/18/14 10:12	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	02/18/14 10:12	
1,2-Dichloroethane	ug/L	ND	1.0	02/18/14 10:12	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/18/14 10:12	
2-Butanone (MEK)	ug/L	ND	10.0	02/18/14 10:12	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/18/14 10:12	N2
Acetone	ug/L	ND	10.0	02/18/14 10:12	N2
Benzene	ug/L	ND	1.0	02/18/14 10:12	
Bromodichloromethane	ug/L	ND	1.0	02/18/14 10:12	
Bromoform	ug/L	ND	1.0	02/18/14 10:12	
Bromomethane	ug/L	ND	5.0	02/18/14 10:12	
Carbon tetrachloride	ug/L	ND	1.0	02/18/14 10:12	
Chloroethane	ug/L	ND	1.0	02/18/14 10:12	
Chloroform	ug/L	ND	1.0	02/18/14 10:12	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/18/14 10:12	N2
Ethylbenzene	ug/L	ND	1.0	02/18/14 10:12	
Methylene chloride	ug/L	ND	1.0	02/18/14 10:12	
Tetrachloroethene	ug/L	ND	1.0	02/18/14 10:12	
Toluene	ug/L	ND	1.0	02/18/14 10:12	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/18/14 10:12	
Trichloroethene	ug/L	ND	1.0	02/18/14 10:12	
Vinyl chloride	ug/L	ND	1.0	02/18/14 10:12	
Xylene (Total)	ug/L	ND	3.0	02/18/14 10:12	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	02/18/14 10:12	
4-Bromofluorobenzene (S)	%	100	80-120	02/18/14 10:12	
Toluene-d8 (S)	%	100	80-120	02/18/14 10:12	

LABORATORY CONTROL SAMPLE: 1331186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.7	98	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	59-138	N2
1,1,2-Trichloroethane	ug/L	20	18.9	95	69-127	
1,2-Dichloroethane	ug/L	20	18.8	94	71-129	
1,4-Dichlorobenzene	ug/L	20	19.9	99	68-124	
2-Butanone (MEK)	ug/L	100	93.9	94	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	98.3	98	61-120	N2
Acetone	ug/L	100	68.8	69	40-160	N2
Benzene	ug/L	20	19.3	96	73-129	
Bromodichloromethane	ug/L	20	23.5	117	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-218

Pace Project No.: 60163031

LABORATORY CONTROL SAMPLE: 1331186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	22.1	111	52-123	
Bromomethane	ug/L	20	15.6	78	10-160	
Carbon tetrachloride	ug/L	20	21.4	107	70-140	
Chloroethane	ug/L	20	21.9	109	42-160	
Chloroform	ug/L	20	19.5	98	60-120	
cis-1,2-Dichloroethene	ug/L	20	19.7	98	70-125	N2
Ethylbenzene	ug/L	20	20.3	101	66-133	
Methylene chloride	ug/L	20	18.2	91	56-135	
Tetrachloroethene	ug/L	20	21.5	108	64-143	
Toluene	ug/L	20	18.0	90	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.9	104	67-149	
Trichloroethene	ug/L	20	20.9	104	71-130	
Vinyl chloride	ug/L	20	20.9	105	41-160	
Xylene (Total)	ug/L	60	60.7	101	67-130	N2
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			102	80-120	

MATRIX SPIKE SAMPLE: 1331187

Parameter	Units	60163031001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3930	98	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4140	104	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4260	107	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3990	100	49-155	
1,4-Dichlorobenzene	ug/L	1010	4000	4830	95	18-147	
2-Butanone (MEK)	ug/L	112000	20000	132000	99	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	3570	20000	22800	96	40-160	N2
Acetone	ug/L	141000	20000	161000	97	40-160	N2
Benzene	ug/L	ND	4000	3850	95	37-151	
Bromodichloromethane	ug/L	ND	4000	3890	97	35-155	
Bromoform	ug/L	ND	4000	4360	109	45-133	
Bromomethane	ug/L	ND	4000	2370	59	10-160	
Carbon tetrachloride	ug/L	ND	4000	4520	113	70-140	
Chloroethane	ug/L	ND	4000	4200	105	14-160	
Chloroform	ug/L	ND	4000	4000	100	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3950	99	19-160	N2
Ethylbenzene	ug/L	ND	4000	4070	100	37-154	
Methylene chloride	ug/L	ND	4000	3540	88	15-156	
Tetrachloroethene	ug/L	ND	4000	4430	111	64-148	
Toluene	ug/L	ND	4000	3590	89	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4100	102	54-156	
Trichloroethene	ug/L	ND	4000	3580	89	71-157	
Vinyl chloride	ug/L	ND	4000	4540	113	10-160	
Xylene (Total)	ug/L	ND	12000	11900	99	12-153	N2
1,2-Dichloroethane-d4 (S)	%				103	80-120	
4-Bromofluorobenzene (S)	%				97	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-218

Pace Project No.: 60163031

MATRIX SPIKE SAMPLE:		1331187					
Parameter	Units	60163031001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S) Preservation pH	%	6.0	6.0	6.0	97	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-218

Pace Project No.: 60163031

QC Batch:	OEXT/42791	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60163031001		

METHOD BLANK: 1332201 Matrix: Water

Associated Lab Samples: 60163031001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/21/14 08:59	
2,4,6-Trichlorophenol	ug/L	ND	5.0	02/21/14 08:59	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	02/21/14 08:59	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/21/14 08:59	
Hexachlorocyclopentadiene	ug/L	ND	5.0	02/21/14 08:59	
Hexachloroethane	ug/L	ND	5.0	02/21/14 08:59	
Naphthalene	ug/L	ND	5.0	02/21/14 08:59	
Nitrobenzene	ug/L	ND	5.0	02/21/14 08:59	
Pentachlorophenol	ug/L	ND	5.0	02/21/14 08:59	
Phenol	ug/L	ND	5.0	02/21/14 08:59	
2,4,6-Tribromophenol (S)	%	70	39-120	02/21/14 08:59	
2-Fluorobiphenyl (S)	%	66	39-120	02/21/14 08:59	
2-Fluorophenol (S)	%	40	17-120	02/21/14 08:59	
Nitrobenzene-d5 (S)	%	75	33-120	02/21/14 08:59	
Phenol-d6 (S)	%	24	11-120	02/21/14 08:59	
Terphenyl-d14 (S)	%	84	45-120	02/21/14 08:59	

LABORATORY CONTROL SAMPLE: 1332202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	43.3	87	46-120	
2,4,6-Trichlorophenol	ug/L	50	36.2	72	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	45.9	92	40-133	
Hexachloro-1,3-butadiene	ug/L	50	40.7	81	44-116	
Hexachlorocyclopentadiene	ug/L	100	61.6	62	24-120	
Hexachloroethane	ug/L	50	35.8	72	43-113	
Naphthalene	ug/L	50	43.5	87	48-120	
Nitrobenzene	ug/L	50	43.5	87	48-120	
Pentachlorophenol	ug/L	50	41.2	82	47-120	
Phenol	ug/L	50	13.4	27	16-112	
2,4,6-Tribromophenol (S)	%			81	39-120	
2-Fluorobiphenyl (S)	%			75	39-120	
2-Fluorophenol (S)	%			42	17-120	
Nitrobenzene-d5 (S)	%			87	33-120	
Phenol-d6 (S)	%			27	11-120	
Terphenyl-d14 (S)	%			84	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-218

Pace Project No.: 60163031

MATRIX SPIKE SAMPLE:		1332203		60163024001		Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Result	% Rec	Limits	Qualifiers	
1,2,4-Trichlorobenzene	ug/L	ND	5000	4380	88			44-120		
2,4,6-Trichlorophenol	ug/L	ND	5000	4310	86			50-120		
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4610J	92			10-160		
Hexachloro-1,3-butadiene	ug/L	ND	5000	4270	85			39-116		
Hexachlorocyclopentadiene	ug/L	ND	10000	5410	54			11-120		
Hexachloroethane	ug/L	ND	5000	4110	82			40-113		
Naphthalene	ug/L	ND	5000	4960	92			45-120		
Nitrobenzene	ug/L	ND	5000	7400	148			38-120	M1	
Pentachlorophenol	ug/L	ND	5000	5420	108			43-135		
Phenol	ug/L	9500	5000	14800	107			13-112		
2,4,6-Tribromophenol (S)	%				87			39-120		
2-Fluorobiphenyl (S)	%				82			39-120		
2-Fluorophenol (S)	%				50			17-120		
Nitrobenzene-d5 (S)	%				166			33-120	S0	
Phenol-d6 (S)	%				36			11-120		
Terphenyl-d14 (S)	%				100			45-120		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-218

Pace Project No.: 60163031

QC Batch:	WET/46272	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60163031001		

METHOD BLANK: 1333424 Matrix: Water

Associated Lab Samples: 60163031001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/21/14 15:07	

LABORATORY CONTROL SAMPLE: 1333425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	36.5	91	78-114	

MATRIX SPIKE SAMPLE: 1333426

Parameter	Units	60163024001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	990	160	1160	107	78-114	

SAMPLE DUPLICATE: 1333427

Parameter	Units	60163031001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	750	773	3	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-218

Pace Project No.: 60163031

QC Batch:	WET/46289	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60163031001		

METHOD BLANK: 1334395 Matrix: Water
Associated Lab Samples: 60163031001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	02/24/14 12:41	

LABORATORY CONTROL SAMPLE: 1334396

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	20.6	103	64-132	

MATRIX SPIKE SAMPLE: 1334397

Parameter	Units	60163024001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	12.1	80	90.8	98	64-132	

SAMPLE DUPLICATE: 1334398

Parameter	Units	60163031001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	6.8	8.0	16	34	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-218

Pace Project No.: 60163031

QC Batch: WET/46199

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60163031001

METHOD BLANK: 1331494

Matrix: Water

Associated Lab Samples: 60163031001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	02/20/14 08:57	

SAMPLE DUPLICATE: 1331495

Parameter	Units	60163079011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	444	558	23	10	D6

SAMPLE DUPLICATE: 1331496

Parameter	Units	60163083001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3300	3960	18	10	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-218

Pace Project No.: 60163031

QC Batch: WET/46171 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60163031001

SAMPLE DUPLICATE: 1330865

Parameter	Units	60162755001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.1	5.2	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-218

Pace Project No.: 60163031

QC Batch: WET/46156

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60163031001

METHOD BLANK: 1330600

Matrix: Water

Associated Lab Samples: 60163031001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	02/20/14 14:43	

LABORATORY CONTROL SAMPLE: 1330601

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	182	92	85-115	

SAMPLE DUPLICATE: 1330602

Parameter	Units	60162943001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	20.7	21.4	3	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-218

Pace Project No.: 60163031

QC Batch: WETA/28218

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60163031001

METHOD BLANK: 1331112

Matrix: Water

Associated Lab Samples: 60163031001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/18/14 13:15	

LABORATORY CONTROL SAMPLE: 1331113

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	105	90-110	

MATRIX SPIKE SAMPLE: 1331114

Parameter	Units	60162937002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.81	2	2.6	88	90-110	M1

MATRIX SPIKE SAMPLE: 1331115

Parameter	Units	60162964001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.33	2	2.3	98	90-110	

SAMPLE DUPLICATE: 1331116

Parameter	Units	60162984004 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-218

Pace Project No.: 60163031

QC Batch:	WETA/28251	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60163031001		

METHOD BLANK: 1332196 Matrix: Water
Associated Lab Samples: 60163031001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/21/14 07:08	

LABORATORY CONTROL SAMPLE: 1332197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	50.3	101	90-110	

MATRIX SPIKE SAMPLE: 1332198

Parameter	Units	60162835005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	3040	1250	4150	89	90-110	M1

MATRIX SPIKE SAMPLE: 1332200

Parameter	Units	60163148001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	56700	25000	79600	91	90-110	

SAMPLE DUPLICATE: 1332199

Parameter	Units	60163031001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	54400	54400	0	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-218

Pace Project No.: 60163031

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.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-218

Pace Project No.: 60163031

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60163031001	316-218	EPA 200.7	MPRP/26184	EPA 200.7	ICP/20007
60163031001	316-218	EPA 200.7	MPRP/26195	EPA 200.7	ICP/20009
60163031001	316-218	EPA 245.1	MERP/8139	EPA 245.1	MERC/8094
60163031001	316-218	EPA 245.1	MERP/8150	EPA 245.1	MERC/8107
60163031001	316-218	EPA 625	OEXT/42791	EPA 625	MSSV/13624
60163031001	316-218	EPA 624 Low	MSV/59461		
60163031002	TRIP BLANK	EPA 624 Low	MSV/59461		
60163031001	316-218	EPA 1664A	WET/46272		
60163031001	316-218	EPA 1664A	WET/46289		
60163031001	316-218	SM 2540D	WET/46199		
60163031001	316-218	SM 4500-H+B	WET/46171		
60163031001	316-218	SM 5210B	WET/46156	SM 5210B	WET/46248
60163031001	316-218	EPA 350.1	WETA/28218		
60163031001	316-218	EPA 410.4	WETA/28251		

REPORT OF LABORATORY ANALYSIS

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WO#: 60163031



60163031



Sample Condition Upon Receipt

Client Name: Barr Engineering

Courier: Fed Ex UPS USPS Client Commercial Pace Other X-20-95

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.

Cooler Temperature: 1.4

(circle one)

Date and initials of person examining contents: 2/15/14 [Signature]

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOB, ph</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>W</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Exceptions: <u>VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>[Signature]</u> Lot # of added preservative
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>covered</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MO</u>

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: mu be [Signature]

Date: 2/15/14



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: AMY HARGROVE/BRIAN POWER		Regulatory Agency
Address:		Copy To: SCOTT FEDAK/FEEZOR		Company Name: REPUBLIC SERVICES		
Email To:		DANA BAKER/MARGARET TREANOR -BARR		Address: BRIDGETON, MO 63044		State / Location
Phone: (816) 285-8410 Fax		Purchase Order No. PO 3727110		Pace Quote Reference: 130426 7588		
Requested Due Date/TAT: 10 Day (Default)		Client Project ID: BRIDGETON LF		Pace Project Manager: Brown, Angie		Missouri
		Container Order Number:		Pace Profile #: 6787 LINE 2		

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				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analyses Test Y/N	Requested Analysis Filtered (Y/N)														Residual Chlorine (Y/N)	001603031
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	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							
				DATE	TIME	DATE	TIME																													
1	316-2182A644, 3A635, 2B124	OT	G	2/14/14	1100			14	10	4	1	0	BP24, 5D69U	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	BP3A	BP35 ²⁻⁰ 021			
2	TRIP BLANK							2	2				2 D69U																				022			
3																																				
4																																				
5																																				
6																																				
7																																				
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				<i>Hunter Kis</i>		2/14/14	11035	<i>Kenneth Leach</i>		2/14/14	11035																									
SITE ADDRESS: BRIDGETON LF								<i>Ed Brockett / Pace</i>		2/15/14	0120	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: <i>Sam Bircher</i>							
SIGNATURE of SAMPLER: <i>[Signature]</i>			DATE Signed: <i>2-14-14</i>				

February 24, 2014

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

RE: Project: BRIDGETON LF 316-219
Pace Project No.: 60163083

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 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 316-219

Pace Project No.: 60163083

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-219

Pace Project No.: 60163083

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60163083001	316-219	Water	02/15/14 16:45	02/17/14 13:25
60163083002	TRIP BLANK	Water	02/15/14 16:45	02/17/14 13:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-219

Pace Project No.: 60163083

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60163083001	316-219	EPA 200.7	JGP	15
		EPA 200.7	TJT	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	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	NDL	1
		SM 5210B	RAH	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC	1
		60163083002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-219

Pace Project No.: 60163083

Sample: 316-219		Lab ID: 60163083001	Collected: 02/15/14 16:45	Received: 02/17/14 13:25	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	7720 ug/L		750	2	02/19/14 09:30	02/19/14 17:05	7429-90-5	
Antimony	64.8 ug/L		50.0	1	02/19/14 09:30	02/19/14 17:03	7440-36-0	
Arsenic	1080 ug/L		50.0	1	02/19/14 09:30	02/19/14 17:03	7440-38-2	
Beryllium	ND ug/L		5.0	1	02/19/14 09:30	02/19/14 17:03	7440-41-7	
Cadmium	ND ug/L		25.0	1	02/19/14 09:30	02/19/14 17:03	7440-43-9	
Chromium	309 ug/L		25.0	1	02/19/14 09:30	02/19/14 17:03	7440-47-3	
Cobalt	47.8 ug/L		25.0	1	02/19/14 09:30	02/19/14 17:03	7440-48-4	
Copper	ND ug/L		50.0	1	02/19/14 09:30	02/19/14 17:03	7440-50-8	
Iron	874000 ug/L		250	1	02/19/14 09:30	02/19/14 17:03	7439-89-6	
Lead	121 ug/L		25.0	1	02/19/14 09:30	02/19/14 17:03	7439-92-1	
Nickel	130 ug/L		25.0	1	02/19/14 09:30	02/19/14 17:03	7440-02-0	
Selenium	ND ug/L		75.0	1	02/19/14 09:30	02/19/14 17:03	7782-49-2	
Silver	ND ug/L		35.0	1	02/19/14 09:30	02/19/14 17:03	7440-22-4	
Thallium	ND ug/L		100	1	02/19/14 09:30	02/19/14 17:03	7440-28-0	
Zinc	9430 ug/L		500	2	02/19/14 09:30	02/19/14 17:05	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	2850 ug/L		750	2	02/19/14 11:48	02/19/14 17:56	7429-90-5	
Antimony, Dissolved	56.0 ug/L		50.0	1	02/19/14 11:48	02/19/14 17:53	7440-36-0	
Arsenic, Dissolved	903 ug/L		50.0	1	02/19/14 11:48	02/19/14 17:53	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	02/19/14 11:48	02/19/14 17:53	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	02/19/14 11:48	02/19/14 17:53	7440-43-9	
Chromium, Dissolved	251 ug/L		25.0	1	02/19/14 11:48	02/19/14 17:53	7440-47-3	
Cobalt, Dissolved	37.9 ug/L		25.0	1	02/19/14 11:48	02/19/14 17:53	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	02/19/14 11:48	02/19/14 17:53	7440-50-8	
Iron, Dissolved	646000 ug/L		250	1	02/19/14 11:48	02/19/14 17:53	7439-89-6	
Lead, Dissolved	85.2 ug/L		25.0	1	02/19/14 11:48	02/19/14 17:53	7439-92-1	
Nickel, Dissolved	98.6 ug/L		25.0	1	02/19/14 11:48	02/19/14 17:53	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	02/19/14 11:48	02/19/14 17:53	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	02/19/14 11:48	02/19/14 17:53	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	02/19/14 11:48	02/19/14 17:53	7440-28-0	
Zinc, Dissolved	8200 ug/L		500	2	02/19/14 11:48	02/19/14 17:56	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND ug/L		6.0	1	02/18/14 09:30	02/18/14 14:27	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	02/19/14 14:45	02/20/14 12:17	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	02/20/14 00:00	02/21/14 13:50	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	02/20/14 00:00	02/21/14 13:50	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	02/20/14 00:00	02/21/14 13:50	77-47-4	
Hexachloroethane	ND ug/L		1000	2	02/20/14 00:00	02/21/14 13:50	67-72-1	
Naphthalene	ND ug/L		1000	2	02/20/14 00:00	02/21/14 13:50	91-20-3	
Nitrobenzene	ND ug/L		1000	2	02/20/14 00:00	02/21/14 13:50	98-95-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-219

Pace Project No.: 60163083

Sample: 316-219		Lab ID: 60163083001	Collected: 02/15/14 16:45	Received: 02/17/14 13:25	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	02/20/14 00:00	02/21/14 13:50	87-86-5	
Phenol	8280 ug/L		1000	2	02/20/14 00:00	02/21/14 13:50	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	02/20/14 00:00	02/21/14 13:50	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	02/20/14 00:00	02/21/14 13:50	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	125 %		33-120	2	02/20/14 00:00	02/21/14 13:50	4165-60-0	S0
2-Fluorobiphenyl (S)	71 %		39-120	2	02/20/14 00:00	02/21/14 13:50	321-60-8	
Terphenyl-d14 (S)	87 %		45-120	2	02/20/14 00:00	02/21/14 13:50	1718-51-0	
Phenol-d6 (S)	32 %		11-120	2	02/20/14 00:00	02/21/14 13:50	13127-88-3	
2-Fluorophenol (S)	48 %		17-120	2	02/20/14 00:00	02/21/14 13:50	367-12-4	
2,4,6-Tribromophenol (S)	79 %		39-120	2	02/20/14 00:00	02/21/14 13:50	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	134000 ug/L		2000	200		02/18/14 12:43	67-64-1	N2
Benzene	ND ug/L		200	200		02/18/14 12:43	71-43-2	
Bromodichloromethane	ND ug/L		200	200		02/18/14 12:43	75-27-4	
Bromoform	ND ug/L		200	200		02/18/14 12:43	75-25-2	
Bromomethane	ND ug/L		1000	200		02/18/14 12:43	74-83-9	
2-Butanone (MEK)	87800 ug/L		2000	200		02/18/14 12:43	78-93-3	N2
Carbon tetrachloride	ND ug/L		200	200		02/18/14 12:43	56-23-5	
Chloroethane	ND ug/L		200	200		02/18/14 12:43	75-00-3	
Chloroform	ND ug/L		200	200		02/18/14 12:43	67-66-3	
1,4-Dichlorobenzene	944 ug/L		200	200		02/18/14 12:43	106-46-7	
1,2-Dichloroethane	ND ug/L		200	200		02/18/14 12:43	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200	200		02/18/14 12:43	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		200	200		02/18/14 12:43	156-60-5	
Ethylbenzene	ND ug/L		200	200		02/18/14 12:43	100-41-4	
Methylene chloride	ND ug/L		200	200		02/18/14 12:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	2800 ug/L		2000	200		02/18/14 12:43	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		02/18/14 12:43	79-34-5	N2
Tetrachloroethene	ND ug/L		200	200		02/18/14 12:43	127-18-4	
Toluene	ND ug/L		200	200		02/18/14 12:43	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		02/18/14 12:43	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		02/18/14 12:43	79-00-5	
Trichloroethene	ND ug/L		200	200		02/18/14 12:43	79-01-6	
Vinyl chloride	ND ug/L		200	200		02/18/14 12:43	75-01-4	
Xylene (Total)	ND ug/L		600	200		02/18/14 12:43	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	93 %		80-120	200		02/18/14 12:43	460-00-4	
Toluene-d8 (S)	98 %		80-120	200		02/18/14 12:43	2037-26-5	
1,2-Dichloroethane-d4 (S)	102 %		80-120	200		02/18/14 12:43	17060-07-0	
Preservation pH	6.0		1.0	200		02/18/14 12:43		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	590 mg/L		5.0	1		02/21/14 15:11		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-219

Pace Project No.: 60163083

Sample: 316-219		Lab ID: 60163083001	Collected: 02/15/14 16:45	Received: 02/17/14 13:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	6.4 mg/L		5.0	1		02/24/14 12:42		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	3300 mg/L		5.0	1		02/20/14 09:00		D6
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4 Std. Units		0.10	1		02/20/14 14:09		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	23800 mg/L		2.0	1	02/17/14 14:07	02/22/14 12:54		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	694 mg/L		20.0	200		02/18/14 13:46	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	53000 mg/L		5000	500		02/21/14 07:15		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-219

Pace Project No.: 60163083

Sample: TRIP BLANK		Lab ID: 60163083002	Collected: 02/15/14 16:45	Received: 02/17/14 13:25	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		02/18/14 11:27	67-64-1	N2
Benzene	ND ug/L		1.0	1		02/18/14 11:27	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		02/18/14 11:27	75-27-4	
Bromoform	ND ug/L		1.0	1		02/18/14 11:27	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/18/14 11:27	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		02/18/14 11:27	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		02/18/14 11:27	56-23-5	
Chloroethane	ND ug/L		1.0	1		02/18/14 11:27	75-00-3	
Chloroform	ND ug/L		1.0	1		02/18/14 11:27	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		02/18/14 11:27	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		02/18/14 11:27	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		02/18/14 11:27	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		02/18/14 11:27	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		02/18/14 11:27	100-41-4	
Methylene chloride	ND ug/L		1.0	1		02/18/14 11:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		02/18/14 11:27	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		02/18/14 11:27	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		02/18/14 11:27	127-18-4	
Toluene	ND ug/L		1.0	1		02/18/14 11:27	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		02/18/14 11:27	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		02/18/14 11:27	79-00-5	
Trichloroethene	ND ug/L		1.0	1		02/18/14 11:27	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		02/18/14 11:27	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		02/18/14 11:27	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	1		02/18/14 11:27	460-00-4	
Toluene-d8 (S)	94 %		80-120	1		02/18/14 11:27	2037-26-5	
1,2-Dichloroethane-d4 (S)	104 %		80-120	1		02/18/14 11:27	17060-07-0	
Preservation pH	6.0		1.0	1		02/18/14 11:27		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-219

Pace Project No.: 60163083

QC Batch: MERP/8139

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60163083001

METHOD BLANK: 1331079

Matrix: Water

Associated Lab Samples: 60163083001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/18/14 14:16	

LABORATORY CONTROL SAMPLE: 1331080

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: 1331081 1331082

Parameter	Units	60162964001		1331081		1331082		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Mercury	ug/L	ND	5	5	5.2	5.1	104	102	70-130	3	20

MATRIX SPIKE SAMPLE: 1331189

Parameter	Units	60163015002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	0.95	5	5.9	99	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-219

Pace Project No.: 60163083

QC Batch:	MERP/8150	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60163083001		

METHOD BLANK: 1332031 Matrix: Water
Associated Lab Samples: 60163083001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/20/14 12:00	

LABORATORY CONTROL SAMPLE: 1332032

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1332033 1332034

Parameter	Units	60162845001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury, Dissolved	ug/L	ND	150	150	160	152	106	101	70-130	6	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-219
Pace Project No.: 60163083

QC Batch: MPRP/26184 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60163083001

METHOD BLANK: 1331636 Matrix: Water
Associated Lab Samples: 60163083001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	02/19/14 16:32	
Antimony	ug/L	ND	10.0	02/19/14 16:32	
Arsenic	ug/L	ND	10.0	02/19/14 16:32	
Beryllium	ug/L	ND	1.0	02/19/14 16:32	
Cadmium	ug/L	ND	5.0	02/19/14 16:32	
Chromium	ug/L	ND	5.0	02/19/14 16:32	
Cobalt	ug/L	ND	5.0	02/19/14 16:32	
Copper	ug/L	ND	10.0	02/19/14 16:32	
Iron	ug/L	ND	50.0	02/19/14 16:32	
Lead	ug/L	ND	5.0	02/19/14 16:32	
Nickel	ug/L	ND	5.0	02/19/14 16:32	
Selenium	ug/L	ND	15.0	02/19/14 16:32	
Silver	ug/L	ND	7.0	02/19/14 16:32	
Thallium	ug/L	ND	20.0	02/19/14 16:32	
Zinc	ug/L	ND	50.0	02/19/14 16:32	

LABORATORY CONTROL SAMPLE: 1331637

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10200	102	85-115	
Antimony	ug/L	1000	1070	107	85-115	
Arsenic	ug/L	1000	1040	104	85-115	
Beryllium	ug/L	1000	1010	101	85-115	
Cadmium	ug/L	1000	1080	108	85-115	
Chromium	ug/L	1000	1030	103	85-115	
Cobalt	ug/L	1000	1090	109	85-115	
Copper	ug/L	1000	1010	101	85-115	
Iron	ug/L	10000	9970	100	85-115	
Lead	ug/L	1000	1080	108	85-115	
Nickel	ug/L	1000	1080	108	85-115	
Selenium	ug/L	1000	1070	107	85-115	
Silver	ug/L	500	490	98	85-115	
Thallium	ug/L	1000	1130	113	85-115	
Zinc	ug/L	1000	1070	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1331638 1331639

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60162942001 Result	Spike Conc.	Spike Conc.	MS Result						
Aluminum	ug/L	15200	50000	50000	73300	73400	116	117	70-130	0	8

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-219

Pace Project No.: 60163083

Parameter	Units	60162942001		1331638		1331639		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Antimony	ug/L	65.6	5000	5000	5620	5570	111	110	70-130	1	7			
Arsenic	ug/L	1160	5000	5000	7130	7080	119	118	70-130	1	10			
Beryllium	ug/L	ND	5000	5000	4860	4870	97	97	70-130	0	7			
Cadmium	ug/L	ND	5000	5000	5690	5640	113	112	70-130	1	10			
Chromium	ug/L	340	5000	5000	5370	5350	101	100	70-130	0	10			
Cobalt	ug/L	52.9	5000	5000	5120	5100	101	101	70-130	0	6			
Copper	ug/L	ND	5000	5000	5320	5300	106	105	70-130	0	11			
Iron	ug/L	931000	50000	50000	990000	982000	118	101	70-130	1	10			
Lead	ug/L	154	5000	5000	4820	4820	93	93	70-130	0	10			
Nickel	ug/L	144	5000	5000	5120	5100	99	99	70-130	0	10			
Selenium	ug/L	88.6	5000	5000	6520	6540	129	129	70-130	0	10			
Silver	ug/L	ND	2500	2500	2630	2630	105	105	70-130	0	10			
Thallium	ug/L	ND	5000	5000	4390	4360	88	87	70-130	1	6			
Zinc	ug/L	10200	5000	5000	15300	15200	102	100	70-130	0	11			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-219
Pace Project No.: 60163083

QC Batch: MPRP/26195 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60163083001

METHOD BLANK: 1331781 Matrix: Water
Associated Lab Samples: 60163083001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	02/19/14 17:19	
Antimony, Dissolved	ug/L	ND	10.0	02/19/14 17:19	
Arsenic, Dissolved	ug/L	ND	10.0	02/19/14 17:19	
Beryllium, Dissolved	ug/L	ND	1.0	02/19/14 17:19	
Cadmium, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Chromium, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Cobalt, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Copper, Dissolved	ug/L	ND	10.0	02/19/14 17:19	
Iron, Dissolved	ug/L	ND	50.0	02/19/14 17:19	
Lead, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Nickel, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Selenium, Dissolved	ug/L	ND	15.0	02/19/14 17:19	
Silver, Dissolved	ug/L	ND	7.0	02/19/14 17:19	
Thallium, Dissolved	ug/L	ND	20.0	02/19/14 17:19	
Zinc, Dissolved	ug/L	ND	50.0	02/19/14 17:19	

LABORATORY CONTROL SAMPLE: 1331782

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	1050	105	85-115	
Arsenic, Dissolved	ug/L	1000	1000	100	85-115	
Beryllium, Dissolved	ug/L	1000	997	100	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	1020	102	85-115	
Iron, Dissolved	ug/L	10000	9650	96	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	1060	106	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: 1331783 1331784

Parameter	Units	60162942001		MS		MSD		% Rec	% Rec	% Rec	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result					
Aluminum, Dissolved	ug/L	2690	50000	50000	54700	53600	104	102	70-130	2	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-219

Pace Project No.: 60163083

Parameter	60162942001		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Antimony, Dissolved	ug/L	50.8	5000	5000	5510	5510	109	109	70-130	0	7		
Arsenic, Dissolved	ug/L	917	5000	5000	6520	6540	112	112	70-130	0	10		
Beryllium, Dissolved	ug/L	ND	5000	5000	4840	4800	97	96	70-130	1	7		
Cadmium, Dissolved	ug/L	ND	5000	5000	5520	5590	110	111	70-130	1	10		
Chromium, Dissolved	ug/L	262	5000	5000	5280	5230	100	99	70-130	1	10		
Cobalt, Dissolved	ug/L	33.1	5000	5000	5040	5120	100	102	70-130	2	6		
Copper, Dissolved	ug/L	ND	5000	5000	5320	5240	106	105	70-130	1	11		
Iron, Dissolved	ug/L	648000	50000	50000	674000	602000	52	-92	70-130	11	10	M1, R1	
Lead, Dissolved	ug/L	89.8	5000	5000	4800	4820	94	95	70-130	1	10		
Nickel, Dissolved	ug/L	94.4	5000	5000	5060	5060	99	99	70-130	0	10		
Selenium, Dissolved	ug/L	ND	5000	5000	6220	6200	123	123	70-130	0	10		
Silver, Dissolved	ug/L	ND	2500	2500	2640	2580	106	103	70-130	2	10		
Thallium, Dissolved	ug/L	ND	5000	5000	4340	4470	87	89	70-130	3	6		
Zinc, Dissolved	ug/L	8120	5000	5000	13000	12500	97	88	70-130	4	11		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-219

Pace Project No.: 60163083

QC Batch: MSV/59461 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60163083001, 60163083002

METHOD BLANK: 1331185 Matrix: Water

Associated Lab Samples: 60163083001, 60163083002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/18/14 10:12	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/18/14 10:12	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	02/18/14 10:12	
1,2-Dichloroethane	ug/L	ND	1.0	02/18/14 10:12	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/18/14 10:12	
2-Butanone (MEK)	ug/L	ND	10.0	02/18/14 10:12	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/18/14 10:12	N2
Acetone	ug/L	ND	10.0	02/18/14 10:12	N2
Benzene	ug/L	ND	1.0	02/18/14 10:12	
Bromodichloromethane	ug/L	ND	1.0	02/18/14 10:12	
Bromoform	ug/L	ND	1.0	02/18/14 10:12	
Bromomethane	ug/L	ND	5.0	02/18/14 10:12	
Carbon tetrachloride	ug/L	ND	1.0	02/18/14 10:12	
Chloroethane	ug/L	ND	1.0	02/18/14 10:12	
Chloroform	ug/L	ND	1.0	02/18/14 10:12	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/18/14 10:12	N2
Ethylbenzene	ug/L	ND	1.0	02/18/14 10:12	
Methylene chloride	ug/L	ND	1.0	02/18/14 10:12	
Tetrachloroethene	ug/L	ND	1.0	02/18/14 10:12	
Toluene	ug/L	ND	1.0	02/18/14 10:12	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/18/14 10:12	
Trichloroethene	ug/L	ND	1.0	02/18/14 10:12	
Vinyl chloride	ug/L	ND	1.0	02/18/14 10:12	
Xylene (Total)	ug/L	ND	3.0	02/18/14 10:12	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	02/18/14 10:12	
4-Bromofluorobenzene (S)	%	100	80-120	02/18/14 10:12	
Toluene-d8 (S)	%	100	80-120	02/18/14 10:12	

LABORATORY CONTROL SAMPLE: 1331186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.7	98	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	59-138	N2
1,1,2-Trichloroethane	ug/L	20	18.9	95	69-127	
1,2-Dichloroethane	ug/L	20	18.8	94	71-129	
1,4-Dichlorobenzene	ug/L	20	19.9	99	68-124	
2-Butanone (MEK)	ug/L	100	93.9	94	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	98.3	98	61-120	N2
Acetone	ug/L	100	68.8	69	40-160	N2
Benzene	ug/L	20	19.3	96	73-129	
Bromodichloromethane	ug/L	20	23.5	117	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-219

Pace Project No.: 60163083

LABORATORY CONTROL SAMPLE: 1331186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	22.1	111	52-123	
Bromomethane	ug/L	20	15.6	78	10-160	
Carbon tetrachloride	ug/L	20	21.4	107	70-140	
Chloroethane	ug/L	20	21.9	109	42-160	
Chloroform	ug/L	20	19.5	98	60-120	
cis-1,2-Dichloroethene	ug/L	20	19.7	98	70-125	N2
Ethylbenzene	ug/L	20	20.3	101	66-133	
Methylene chloride	ug/L	20	18.2	91	56-135	
Tetrachloroethene	ug/L	20	21.5	108	64-143	
Toluene	ug/L	20	18.0	90	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.9	104	67-149	
Trichloroethene	ug/L	20	20.9	104	71-130	
Vinyl chloride	ug/L	20	20.9	105	41-160	
Xylene (Total)	ug/L	60	60.7	101	67-130	N2
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			102	80-120	

MATRIX SPIKE SAMPLE: 1331187

Parameter	Units	60163031001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3930	98	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4140	104	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4260	107	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3990	100	49-155	
1,4-Dichlorobenzene	ug/L	1010	4000	4830	95	18-147	
2-Butanone (MEK)	ug/L	112000	20000	132000	99	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	3570	20000	22800	96	40-160	N2
Acetone	ug/L	141000	20000	161000	97	40-160	N2
Benzene	ug/L	ND	4000	3850	95	37-151	
Bromodichloromethane	ug/L	ND	4000	3890	97	35-155	
Bromoform	ug/L	ND	4000	4360	109	45-133	
Bromomethane	ug/L	ND	4000	2370	59	10-160	
Carbon tetrachloride	ug/L	ND	4000	4520	113	70-140	
Chloroethane	ug/L	ND	4000	4200	105	14-160	
Chloroform	ug/L	ND	4000	4000	100	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3950	99	19-160	N2
Ethylbenzene	ug/L	ND	4000	4070	100	37-154	
Methylene chloride	ug/L	ND	4000	3540	88	15-156	
Tetrachloroethene	ug/L	ND	4000	4430	111	64-148	
Toluene	ug/L	ND	4000	3590	89	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4100	102	54-156	
Trichloroethene	ug/L	ND	4000	3580	89	71-157	
Vinyl chloride	ug/L	ND	4000	4540	113	10-160	
Xylene (Total)	ug/L	ND	12000	11900	99	12-153	N2
1,2-Dichloroethane-d4 (S)	%				103	80-120	
4-Bromofluorobenzene (S)	%				97	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-219

Pace Project No.: 60163083

MATRIX SPIKE SAMPLE:		1331187					
Parameter	Units	60163031001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S) Preservation pH	%	6.0	6.0	6.0	97	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-219
Pace Project No.: 60163083

QC Batch: OEXT/42791 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60163083001

METHOD BLANK: 1332201 Matrix: Water
Associated Lab Samples: 60163083001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/21/14 08:59	
2,4,6-Trichlorophenol	ug/L	ND	5.0	02/21/14 08:59	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	02/21/14 08:59	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/21/14 08:59	
Hexachlorocyclopentadiene	ug/L	ND	5.0	02/21/14 08:59	
Hexachloroethane	ug/L	ND	5.0	02/21/14 08:59	
Naphthalene	ug/L	ND	5.0	02/21/14 08:59	
Nitrobenzene	ug/L	ND	5.0	02/21/14 08:59	
Pentachlorophenol	ug/L	ND	5.0	02/21/14 08:59	
Phenol	ug/L	ND	5.0	02/21/14 08:59	
2,4,6-Tribromophenol (S)	%	70	39-120	02/21/14 08:59	
2-Fluorobiphenyl (S)	%	66	39-120	02/21/14 08:59	
2-Fluorophenol (S)	%	40	17-120	02/21/14 08:59	
Nitrobenzene-d5 (S)	%	75	33-120	02/21/14 08:59	
Phenol-d6 (S)	%	24	11-120	02/21/14 08:59	
Terphenyl-d14 (S)	%	84	45-120	02/21/14 08:59	

LABORATORY CONTROL SAMPLE: 1332202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	43.3	87	46-120	
2,4,6-Trichlorophenol	ug/L	50	36.2	72	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	45.9	92	40-133	
Hexachloro-1,3-butadiene	ug/L	50	40.7	81	44-116	
Hexachlorocyclopentadiene	ug/L	100	61.6	62	24-120	
Hexachloroethane	ug/L	50	35.8	72	43-113	
Naphthalene	ug/L	50	43.5	87	48-120	
Nitrobenzene	ug/L	50	43.5	87	48-120	
Pentachlorophenol	ug/L	50	41.2	82	47-120	
Phenol	ug/L	50	13.4	27	16-112	
2,4,6-Tribromophenol (S)	%			81	39-120	
2-Fluorobiphenyl (S)	%			75	39-120	
2-Fluorophenol (S)	%			42	17-120	
Nitrobenzene-d5 (S)	%			87	33-120	
Phenol-d6 (S)	%			27	11-120	
Terphenyl-d14 (S)	%			84	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-219

Pace Project No.: 60163083

MATRIX SPIKE SAMPLE:		1332203					
Parameter	Units	60163024001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	4380	88	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4310	86	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4610J	92	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4270	85	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	5410	54	11-120	
Hexachloroethane	ug/L	ND	5000	4110	82	40-113	
Naphthalene	ug/L	ND	5000	4960	92	45-120	
Nitrobenzene	ug/L	ND	5000	7400	148	38-120	M1
Pentachlorophenol	ug/L	ND	5000	5420	108	43-135	
Phenol	ug/L	9500	5000	14800	107	13-112	
2,4,6-Tribromophenol (S)	%				87	39-120	
2-Fluorobiphenyl (S)	%				82	39-120	
2-Fluorophenol (S)	%				50	17-120	
Nitrobenzene-d5 (S)	%				166	33-120	S0
Phenol-d6 (S)	%				36	11-120	
Terphenyl-d14 (S)	%				100	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-219

Pace Project No.: 60163083

QC Batch:	WET/46272	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60163083001		

METHOD BLANK: 1333424 Matrix: Water

Associated Lab Samples: 60163083001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/21/14 15:07	

LABORATORY CONTROL SAMPLE: 1333425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	36.5	91	78-114	

MATRIX SPIKE SAMPLE: 1333426

Parameter	Units	60163024001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	990	160	1160	107	78-114	

SAMPLE DUPLICATE: 1333427

Parameter	Units	60163031001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	750	773	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-219

Pace Project No.: 60163083

QC Batch: WET/46289

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60163083001

METHOD BLANK: 1334395

Matrix: Water

Associated Lab Samples: 60163083001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	02/24/14 12:41	

LABORATORY CONTROL SAMPLE: 1334396

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	20.6	103	64-132	

MATRIX SPIKE SAMPLE: 1334397

Parameter	Units	60163024001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	12.1	80	90.8	98	64-132	

SAMPLE DUPLICATE: 1334398

Parameter	Units	60163031001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	6.8	8.0	16	34	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-219

Pace Project No.: 60163083

QC Batch: WET/46199

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60163083001

METHOD BLANK: 1331494

Matrix: Water

Associated Lab Samples: 60163083001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	02/20/14 08:57	

SAMPLE DUPLICATE: 1331495

Parameter	Units	60163079011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	444	558	23	10	D6

SAMPLE DUPLICATE: 1331496

Parameter	Units	60163083001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3300	3960	18	10	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-219

Pace Project No.: 60163083

QC Batch:	WET/46234	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
Associated Lab Samples:	60163083001		

SAMPLE DUPLICATE: 1332560

Parameter	Units	60163148001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.4	5.4	0	5	H6

SAMPLE DUPLICATE: 1332561

Parameter	Units	60163149004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.0	7.0	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-219

Pace Project No.: 60163083

QC Batch: WET/46174

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60163083001

METHOD BLANK: 1330955

Matrix: Water

Associated Lab Samples: 60163083001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	02/22/14 12:43	

LABORATORY CONTROL SAMPLE: 1330956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	197	99	85-115	

SAMPLE DUPLICATE: 1330957

Parameter	Units	60163080002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	756	604	22	17	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-219

Pace Project No.: 60163083

QC Batch:	WETA/28218	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60163083001		

METHOD BLANK: 1331112 Matrix: Water
Associated Lab Samples: 60163083001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/18/14 13:15	

LABORATORY CONTROL SAMPLE: 1331113

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	105	90-110	

MATRIX SPIKE SAMPLE: 1331114

Parameter	Units	60162937002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.81	2	2.6	88	90-110	M1

MATRIX SPIKE SAMPLE: 1331115

Parameter	Units	60162964001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.33	2	2.3	98	90-110	

SAMPLE DUPLICATE: 1331116

Parameter	Units	60162984004 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-219

Pace Project No.: 60163083

QC Batch: WETA/28251 Analysis Method: EPA 410.4
 QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
 Associated Lab Samples: 60163083001

METHOD BLANK: 1332196 Matrix: Water
 Associated Lab Samples: 60163083001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/21/14 07:08	

LABORATORY CONTROL SAMPLE: 1332197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	50.3	101	90-110	

MATRIX SPIKE SAMPLE: 1332198

Parameter	Units	60162835005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	3040	1250	4150	89	90-110	M1

MATRIX SPIKE SAMPLE: 1332200

Parameter	Units	60163148001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	56700	25000	79600	91	90-110	

SAMPLE DUPLICATE: 1332199

Parameter	Units	60163031001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	54400	54400	0	25	

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QUALIFIERS

Project: BRIDGETON LF 316-219

Pace Project No.: 60163083

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.

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 316-219

Pace Project No.: 60163083

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60163083001	316-219	EPA 200.7	MPRP/26184	EPA 200.7	ICP/20007
60163083001	316-219	EPA 200.7	MPRP/26195	EPA 200.7	ICP/20009
60163083001	316-219	EPA 245.1	MERP/8139	EPA 245.1	MERC/8094
60163083001	316-219	EPA 245.1	MERP/8150	EPA 245.1	MERC/8107
60163083001	316-219	EPA 625	OEXT/42791	EPA 625	MSSV/13624
60163083001	316-219	EPA 624 Low	MSV/59461		
60163083002	TRIP BLANK	EPA 624 Low	MSV/59461		
60163083001	316-219	EPA 1664A	WET/46272		
60163083001	316-219	EPA 1664A	WET/46289		
60163083001	316-219	SM 2540D	WET/46199		
60163083001	316-219	SM 4500-H+B	WET/46234		
60163083001	316-219	SM 5210B	WET/46174	SM 5210B	WET/46296
60163083001	316-219	EPA 350.1	WETA/28218		
60163083001	316-219	EPA 410.4	WETA/28251		

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Sample Condition Upon Receipt

WO#: 60163083
Barcode with number 60163083

Client Name: Barr Eng.

Courier: Fed Ex [] UPS [] USPS [] Client [] Commercial [X] Pace [] Other [X]

Tracking #: Pace Shipping Label Used? Yes [] No [X]

Custody Seal on Cooler/Box Present: Yes [X] No [] Seals intact: Yes [X] No []

Packing Material: Bubble Wrap [X] Bubble Bags [] Foam [] None [] Other []

Thermometer Used: T-239 / T-194 Type of Ice: Wet [X] Blue [] None [] Samples received on ice, cooling process has begun.

Cooler Temperature: 2.4
Temperature should be above freezing to 6°C

Date and initials of person examining contents: JD 2/17/14 1340

Table with 17 rows of inspection items and checkboxes. Items include Chain of Custody, Short Hold Time analyses, Rush Turn Around Time, etc.

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: [Signature] Date: 2/17

February 24, 2014

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

RE: Project: BRIDGETON LF 316-220R2
Pace Project No.: 60163084

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 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 316-220R2

Pace Project No.: 60163084

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-220R2

Pace Project No.: 60163084

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60163084001	316-220R2	Water	02/16/14 15:45	02/17/14 13:25
60163084002	TRIP BLANK	Water	02/16/14 15:45	02/17/14 13:25

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-220R2

Pace Project No.: 60163084

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60163084001	316-220R2	EPA 200.7	JGP	15
		EPA 200.7	TJT	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	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	NDL	1
		SM 5210B	RAH	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC	1
		60163084002	TRIP BLANK	EPA 624 Low

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-220R2

Pace Project No.: 60163084

Sample: 316-220R2								
Lab ID: 60163084001		Collected: 02/16/14 15:45		Received: 02/17/14 13:25		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	5590	ug/L	750	2	02/19/14 09:30	02/19/14 17:14	7429-90-5	
Antimony	78.9	ug/L	50.0	1	02/19/14 09:30	02/19/14 17:12	7440-36-0	
Arsenic	1020	ug/L	50.0	1	02/19/14 09:30	02/19/14 17:12	7440-38-2	
Beryllium	ND	ug/L	5.0	1	02/19/14 09:30	02/19/14 17:12	7440-41-7	
Cadmium	ND	ug/L	25.0	1	02/19/14 09:30	02/19/14 17:12	7440-43-9	
Chromium	290	ug/L	25.0	1	02/19/14 09:30	02/19/14 17:12	7440-47-3	
Cobalt	40.1	ug/L	25.0	1	02/19/14 09:30	02/19/14 17:12	7440-48-4	
Copper	ND	ug/L	50.0	1	02/19/14 09:30	02/19/14 17:12	7440-50-8	
Iron	836000	ug/L	250	1	02/19/14 09:30	02/19/14 17:12	7439-89-6	
Lead	128	ug/L	25.0	1	02/19/14 09:30	02/19/14 17:12	7439-92-1	
Nickel	116	ug/L	25.0	1	02/19/14 09:30	02/19/14 17:12	7440-02-0	
Selenium	80.4	ug/L	75.0	1	02/19/14 09:30	02/19/14 17:12	7782-49-2	
Silver	ND	ug/L	35.0	1	02/19/14 09:30	02/19/14 17:12	7440-22-4	
Thallium	ND	ug/L	100	1	02/19/14 09:30	02/19/14 17:12	7440-28-0	
Zinc	9280	ug/L	500	2	02/19/14 09:30	02/19/14 17:14	7440-66-6	
200.7 Metals, Dissolved (LF)								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Aluminum, Dissolved	2470	ug/L	750	2	02/19/14 11:48	02/19/14 18:01	7429-90-5	
Antimony, Dissolved	59.8	ug/L	50.0	1	02/19/14 11:48	02/19/14 17:58	7440-36-0	
Arsenic, Dissolved	804	ug/L	50.0	1	02/19/14 11:48	02/19/14 17:58	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	02/19/14 11:48	02/19/14 17:58	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	02/19/14 11:48	02/19/14 17:58	7440-43-9	
Chromium, Dissolved	226	ug/L	25.0	1	02/19/14 11:48	02/19/14 17:58	7440-47-3	
Cobalt, Dissolved	31.4	ug/L	25.0	1	02/19/14 11:48	02/19/14 17:58	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	02/19/14 11:48	02/19/14 17:58	7440-50-8	
Iron, Dissolved	617000	ug/L	250	1	02/19/14 11:48	02/19/14 17:58	7439-89-6	
Lead, Dissolved	75.8	ug/L	25.0	1	02/19/14 11:48	02/19/14 17:58	7439-92-1	
Nickel, Dissolved	84.3	ug/L	25.0	1	02/19/14 11:48	02/19/14 17:58	7440-02-0	
Selenium, Dissolved	77.8	ug/L	75.0	1	02/19/14 11:48	02/19/14 17:58	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	02/19/14 11:48	02/19/14 17:58	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	02/19/14 11:48	02/19/14 17:58	7440-28-0	
Zinc, Dissolved	7690	ug/L	500	2	02/19/14 11:48	02/19/14 18:01	7440-66-6	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury	ND	ug/L	6.0	1	02/18/14 09:30	02/18/14 14:29	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	02/19/14 14:45	02/20/14 12:20	7439-97-6	
625 MSSV								
Analytical Method: EPA 625 Preparation Method: EPA 625								
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	02/20/14 00:00	02/21/14 14:11	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	02/20/14 00:00	02/21/14 14:11	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	02/20/14 00:00	02/21/14 14:11	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	02/20/14 00:00	02/21/14 14:11	67-72-1	
Naphthalene	1610	ug/L	1000	2	02/20/14 00:00	02/21/14 14:11	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	02/20/14 00:00	02/21/14 14:11	98-95-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-220R2

Pace Project No.: 60163084

Sample: 316-220R2		Lab ID: 60163084001	Collected: 02/16/14 15:45	Received: 02/17/14 13:25	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	02/20/14 00:00	02/21/14 14:11	87-86-5	
Phenol	10200 ug/L		1000	2	02/20/14 00:00	02/21/14 14:11	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	02/20/14 00:00	02/21/14 14:11	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	02/20/14 00:00	02/21/14 14:11	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	167 %		33-120	2	02/20/14 00:00	02/21/14 14:11	4165-60-0	S0
2-Fluorobiphenyl (S)	80 %		39-120	2	02/20/14 00:00	02/21/14 14:11	321-60-8	
Terphenyl-d14 (S)	88 %		45-120	2	02/20/14 00:00	02/21/14 14:11	1718-51-0	
Phenol-d6 (S)	32 %		11-120	2	02/20/14 00:00	02/21/14 14:11	13127-88-3	
2-Fluorophenol (S)	47 %		17-120	2	02/20/14 00:00	02/21/14 14:11	367-12-4	
2,4,6-Tribromophenol (S)	85 %		39-120	2	02/20/14 00:00	02/21/14 14:11	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	127000 ug/L		2000	200		02/18/14 12:58	67-64-1	N2
Benzene	ND ug/L		200	200		02/18/14 12:58	71-43-2	
Bromodichloromethane	ND ug/L		200	200		02/18/14 12:58	75-27-4	
Bromoform	ND ug/L		200	200		02/18/14 12:58	75-25-2	
Bromomethane	ND ug/L		1000	200		02/18/14 12:58	74-83-9	
2-Butanone (MEK)	88300 ug/L		2000	200		02/18/14 12:58	78-93-3	N2
Carbon tetrachloride	ND ug/L		200	200		02/18/14 12:58	56-23-5	
Chloroethane	ND ug/L		200	200		02/18/14 12:58	75-00-3	
Chloroform	ND ug/L		200	200		02/18/14 12:58	67-66-3	
1,4-Dichlorobenzene	1320 ug/L		200	200		02/18/14 12:58	106-46-7	
1,2-Dichloroethane	ND ug/L		200	200		02/18/14 12:58	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200	200		02/18/14 12:58	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		200	200		02/18/14 12:58	156-60-5	
Ethylbenzene	ND ug/L		200	200		02/18/14 12:58	100-41-4	
Methylene chloride	ND ug/L		200	200		02/18/14 12:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	4020 ug/L		2000	200		02/18/14 12:58	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		02/18/14 12:58	79-34-5	N2
Tetrachloroethene	ND ug/L		200	200		02/18/14 12:58	127-18-4	
Toluene	ND ug/L		200	200		02/18/14 12:58	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		02/18/14 12:58	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		02/18/14 12:58	79-00-5	
Trichloroethene	ND ug/L		200	200		02/18/14 12:58	79-01-6	
Vinyl chloride	ND ug/L		200	200		02/18/14 12:58	75-01-4	
Xylene (Total)	ND ug/L		600	200		02/18/14 12:58	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	94 %		80-120	200		02/18/14 12:58	460-00-4	
Toluene-d8 (S)	100 %		80-120	200		02/18/14 12:58	2037-26-5	
1,2-Dichloroethane-d4 (S)	94 %		80-120	200		02/18/14 12:58	17060-07-0	
Preservation pH	6.0		1.0	200		02/18/14 12:58		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1400 mg/L		5.0	1		02/21/14 15:11		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-220R2

Pace Project No.: 60163084

Sample: 316-220R2		Lab ID: 60163084001	Collected: 02/16/14 15:45	Received: 02/17/14 13:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	ND	mg/L	5.0	1		02/24/14 12:42		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	3220	mg/L	5.0	1		02/20/14 09:00		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4	Std. Units	0.10	1		02/20/14 14:09		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	20200	mg/L	2.0	1	02/17/14 14:10	02/22/14 12:56		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	656	mg/L	20.0	200		02/18/14 13:47	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	56800	mg/L	5000	500		02/21/14 07:15		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-220R2

Pace Project No.: 60163084

Sample: TRIP BLANK		Lab ID: 60163084002	Collected: 02/16/14 15:45	Received: 02/17/14 13:25	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		02/18/14 11:43	67-64-1	N2
Benzene	ND ug/L		1.0	1		02/18/14 11:43	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		02/18/14 11:43	75-27-4	
Bromoform	ND ug/L		1.0	1		02/18/14 11:43	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/18/14 11:43	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		02/18/14 11:43	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		02/18/14 11:43	56-23-5	
Chloroethane	ND ug/L		1.0	1		02/18/14 11:43	75-00-3	
Chloroform	ND ug/L		1.0	1		02/18/14 11:43	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		02/18/14 11:43	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		02/18/14 11:43	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		02/18/14 11:43	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		02/18/14 11:43	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		02/18/14 11:43	100-41-4	
Methylene chloride	ND ug/L		1.0	1		02/18/14 11:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		02/18/14 11:43	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		02/18/14 11:43	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		02/18/14 11:43	127-18-4	
Toluene	ND ug/L		1.0	1		02/18/14 11:43	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		02/18/14 11:43	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		02/18/14 11:43	79-00-5	
Trichloroethene	ND ug/L		1.0	1		02/18/14 11:43	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		02/18/14 11:43	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		02/18/14 11:43	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101 %		80-120	1		02/18/14 11:43	460-00-4	
Toluene-d8 (S)	97 %		80-120	1		02/18/14 11:43	2037-26-5	
1,2-Dichloroethane-d4 (S)	101 %		80-120	1		02/18/14 11:43	17060-07-0	
Preservation pH	6.0		1.0	1		02/18/14 11:43		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-220R2

Pace Project No.: 60163084

QC Batch: MERP/8139

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60163084001

METHOD BLANK: 1331079

Matrix: Water

Associated Lab Samples: 60163084001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/18/14 14:16	

LABORATORY CONTROL SAMPLE: 1331080

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: 1331081 1331082

Parameter	Units	60162964001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	ND	Spike Conc.	Conc.	Result	Result	% Rec	% Rec						
Mercury	ug/L	ND	5	5	5.2	5.1	104	102	70-130	3	20				

MATRIX SPIKE SAMPLE: 1331189

Parameter	Units	60163015002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	0.95	5	5.9	99	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-220R2

Pace Project No.: 60163084

QC Batch: MERP/8150 Analysis Method: EPA 245.1
 QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury - Dissolved
 Associated Lab Samples: 60163084001

METHOD BLANK: 1332031 Matrix: Water
 Associated Lab Samples: 60163084001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/20/14 12:00	

LABORATORY CONTROL SAMPLE: 1332032

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1332033 1332034

Parameter	Units	60162845001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury, Dissolved	ug/L	ND	150	150	160	152	106	101	70-130	6	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-220R2
Pace Project No.: 60163084

QC Batch: MPRP/26184 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60163084001

METHOD BLANK: 1331636 Matrix: Water
Associated Lab Samples: 60163084001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	02/19/14 16:32	
Antimony	ug/L	ND	10.0	02/19/14 16:32	
Arsenic	ug/L	ND	10.0	02/19/14 16:32	
Beryllium	ug/L	ND	1.0	02/19/14 16:32	
Cadmium	ug/L	ND	5.0	02/19/14 16:32	
Chromium	ug/L	ND	5.0	02/19/14 16:32	
Cobalt	ug/L	ND	5.0	02/19/14 16:32	
Copper	ug/L	ND	10.0	02/19/14 16:32	
Iron	ug/L	ND	50.0	02/19/14 16:32	
Lead	ug/L	ND	5.0	02/19/14 16:32	
Nickel	ug/L	ND	5.0	02/19/14 16:32	
Selenium	ug/L	ND	15.0	02/19/14 16:32	
Silver	ug/L	ND	7.0	02/19/14 16:32	
Thallium	ug/L	ND	20.0	02/19/14 16:32	
Zinc	ug/L	ND	50.0	02/19/14 16:32	

LABORATORY CONTROL SAMPLE: 1331637

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10200	102	85-115	
Antimony	ug/L	1000	1070	107	85-115	
Arsenic	ug/L	1000	1040	104	85-115	
Beryllium	ug/L	1000	1010	101	85-115	
Cadmium	ug/L	1000	1080	108	85-115	
Chromium	ug/L	1000	1030	103	85-115	
Cobalt	ug/L	1000	1090	109	85-115	
Copper	ug/L	1000	1010	101	85-115	
Iron	ug/L	10000	9970	100	85-115	
Lead	ug/L	1000	1080	108	85-115	
Nickel	ug/L	1000	1080	108	85-115	
Selenium	ug/L	1000	1070	107	85-115	
Silver	ug/L	500	490	98	85-115	
Thallium	ug/L	1000	1130	113	85-115	
Zinc	ug/L	1000	1070	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1331638 1331639

Parameter	Units	60162942001		MS		MSD		% Rec	% Rec	% Rec	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result					
Aluminum	ug/L	15200	50000	50000	73300	73400	116	117	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-220R2

Pace Project No.: 60163084

Parameter	Units	60162942001		1331638		1331639		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Antimony	ug/L	65.6	5000	5000	5620	5570	111	110	70-130	1	7			
Arsenic	ug/L	1160	5000	5000	7130	7080	119	118	70-130	1	10			
Beryllium	ug/L	ND	5000	5000	4860	4870	97	97	70-130	0	7			
Cadmium	ug/L	ND	5000	5000	5690	5640	113	112	70-130	1	10			
Chromium	ug/L	340	5000	5000	5370	5350	101	100	70-130	0	10			
Cobalt	ug/L	52.9	5000	5000	5120	5100	101	101	70-130	0	6			
Copper	ug/L	ND	5000	5000	5320	5300	106	105	70-130	0	11			
Iron	ug/L	931000	50000	50000	990000	982000	118	101	70-130	1	10			
Lead	ug/L	154	5000	5000	4820	4820	93	93	70-130	0	10			
Nickel	ug/L	144	5000	5000	5120	5100	99	99	70-130	0	10			
Selenium	ug/L	88.6	5000	5000	6520	6540	129	129	70-130	0	10			
Silver	ug/L	ND	2500	2500	2630	2630	105	105	70-130	0	10			
Thallium	ug/L	ND	5000	5000	4390	4360	88	87	70-130	1	6			
Zinc	ug/L	10200	5000	5000	15300	15200	102	100	70-130	0	11			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-220R2

Pace Project No.: 60163084

QC Batch:	MPRP/26195	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60163084001		

METHOD BLANK: 1331781 Matrix: Water

Associated Lab Samples: 60163084001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	02/19/14 17:19	
Antimony, Dissolved	ug/L	ND	10.0	02/19/14 17:19	
Arsenic, Dissolved	ug/L	ND	10.0	02/19/14 17:19	
Beryllium, Dissolved	ug/L	ND	1.0	02/19/14 17:19	
Cadmium, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Chromium, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Cobalt, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Copper, Dissolved	ug/L	ND	10.0	02/19/14 17:19	
Iron, Dissolved	ug/L	ND	50.0	02/19/14 17:19	
Lead, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Nickel, Dissolved	ug/L	ND	5.0	02/19/14 17:19	
Selenium, Dissolved	ug/L	ND	15.0	02/19/14 17:19	
Silver, Dissolved	ug/L	ND	7.0	02/19/14 17:19	
Thallium, Dissolved	ug/L	ND	20.0	02/19/14 17:19	
Zinc, Dissolved	ug/L	ND	50.0	02/19/14 17:19	

LABORATORY CONTROL SAMPLE: 1331782

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	1050	105	85-115	
Arsenic, Dissolved	ug/L	1000	1000	100	85-115	
Beryllium, Dissolved	ug/L	1000	997	100	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	1020	102	85-115	
Iron, Dissolved	ug/L	10000	9650	96	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	1060	106	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: 1331783 1331784

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result						
Aluminum, Dissolved	ug/L	2690	50000	50000	54700	104	102	70-130	2	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-220R2

Pace Project No.: 60163084

Parameter	60162942001		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Antimony, Dissolved	ug/L	50.8	5000	5000	5510	5510	109	109	70-130	0	7		
Arsenic, Dissolved	ug/L	917	5000	5000	6520	6540	112	112	70-130	0	10		
Beryllium, Dissolved	ug/L	ND	5000	5000	4840	4800	97	96	70-130	1	7		
Cadmium, Dissolved	ug/L	ND	5000	5000	5520	5590	110	111	70-130	1	10		
Chromium, Dissolved	ug/L	262	5000	5000	5280	5230	100	99	70-130	1	10		
Cobalt, Dissolved	ug/L	33.1	5000	5000	5040	5120	100	102	70-130	2	6		
Copper, Dissolved	ug/L	ND	5000	5000	5320	5240	106	105	70-130	1	11		
Iron, Dissolved	ug/L	648000	50000	50000	674000	602000	52	-92	70-130	11	10	M1, R1	
Lead, Dissolved	ug/L	89.8	5000	5000	4800	4820	94	95	70-130	1	10		
Nickel, Dissolved	ug/L	94.4	5000	5000	5060	5060	99	99	70-130	0	10		
Selenium, Dissolved	ug/L	ND	5000	5000	6220	6200	123	123	70-130	0	10		
Silver, Dissolved	ug/L	ND	2500	2500	2640	2580	106	103	70-130	2	10		
Thallium, Dissolved	ug/L	ND	5000	5000	4340	4470	87	89	70-130	3	6		
Zinc, Dissolved	ug/L	8120	5000	5000	13000	12500	97	88	70-130	4	11		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-220R2

Pace Project No.: 60163084

QC Batch: MSV/59461 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60163084001, 60163084002

METHOD BLANK: 1331185 Matrix: Water

Associated Lab Samples: 60163084001, 60163084002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/18/14 10:12	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/18/14 10:12	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	02/18/14 10:12	
1,2-Dichloroethane	ug/L	ND	1.0	02/18/14 10:12	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/18/14 10:12	
2-Butanone (MEK)	ug/L	ND	10.0	02/18/14 10:12	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/18/14 10:12	N2
Acetone	ug/L	ND	10.0	02/18/14 10:12	N2
Benzene	ug/L	ND	1.0	02/18/14 10:12	
Bromodichloromethane	ug/L	ND	1.0	02/18/14 10:12	
Bromoform	ug/L	ND	1.0	02/18/14 10:12	
Bromomethane	ug/L	ND	5.0	02/18/14 10:12	
Carbon tetrachloride	ug/L	ND	1.0	02/18/14 10:12	
Chloroethane	ug/L	ND	1.0	02/18/14 10:12	
Chloroform	ug/L	ND	1.0	02/18/14 10:12	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/18/14 10:12	N2
Ethylbenzene	ug/L	ND	1.0	02/18/14 10:12	
Methylene chloride	ug/L	ND	1.0	02/18/14 10:12	
Tetrachloroethene	ug/L	ND	1.0	02/18/14 10:12	
Toluene	ug/L	ND	1.0	02/18/14 10:12	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/18/14 10:12	
Trichloroethene	ug/L	ND	1.0	02/18/14 10:12	
Vinyl chloride	ug/L	ND	1.0	02/18/14 10:12	
Xylene (Total)	ug/L	ND	3.0	02/18/14 10:12	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	02/18/14 10:12	
4-Bromofluorobenzene (S)	%	100	80-120	02/18/14 10:12	
Toluene-d8 (S)	%	100	80-120	02/18/14 10:12	

LABORATORY CONTROL SAMPLE: 1331186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.7	98	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	59-138	N2
1,1,2-Trichloroethane	ug/L	20	18.9	95	69-127	
1,2-Dichloroethane	ug/L	20	18.8	94	71-129	
1,4-Dichlorobenzene	ug/L	20	19.9	99	68-124	
2-Butanone (MEK)	ug/L	100	93.9	94	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	98.3	98	61-120	N2
Acetone	ug/L	100	68.8	69	40-160	N2
Benzene	ug/L	20	19.3	96	73-129	
Bromodichloromethane	ug/L	20	23.5	117	63-129	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-220R2

Pace Project No.: 60163084

LABORATORY CONTROL SAMPLE: 1331186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	22.1	111	52-123	
Bromomethane	ug/L	20	15.6	78	10-160	
Carbon tetrachloride	ug/L	20	21.4	107	70-140	
Chloroethane	ug/L	20	21.9	109	42-160	
Chloroform	ug/L	20	19.5	98	60-120	
cis-1,2-Dichloroethene	ug/L	20	19.7	98	70-125	N2
Ethylbenzene	ug/L	20	20.3	101	66-133	
Methylene chloride	ug/L	20	18.2	91	56-135	
Tetrachloroethene	ug/L	20	21.5	108	64-143	
Toluene	ug/L	20	18.0	90	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.9	104	67-149	
Trichloroethene	ug/L	20	20.9	104	71-130	
Vinyl chloride	ug/L	20	20.9	105	41-160	
Xylene (Total)	ug/L	60	60.7	101	67-130	N2
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			102	80-120	

MATRIX SPIKE SAMPLE: 1331187

Parameter	Units	60163031001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3930	98	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4140	104	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4260	107	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3990	100	49-155	
1,4-Dichlorobenzene	ug/L	1010	4000	4830	95	18-147	
2-Butanone (MEK)	ug/L	112000	20000	132000	99	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	3570	20000	22800	96	40-160	N2
Acetone	ug/L	141000	20000	161000	97	40-160	N2
Benzene	ug/L	ND	4000	3850	95	37-151	
Bromodichloromethane	ug/L	ND	4000	3890	97	35-155	
Bromoform	ug/L	ND	4000	4360	109	45-133	
Bromomethane	ug/L	ND	4000	2370	59	10-160	
Carbon tetrachloride	ug/L	ND	4000	4520	113	70-140	
Chloroethane	ug/L	ND	4000	4200	105	14-160	
Chloroform	ug/L	ND	4000	4000	100	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3950	99	19-160	N2
Ethylbenzene	ug/L	ND	4000	4070	100	37-154	
Methylene chloride	ug/L	ND	4000	3540	88	15-156	
Tetrachloroethene	ug/L	ND	4000	4430	111	64-148	
Toluene	ug/L	ND	4000	3590	89	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4100	102	54-156	
Trichloroethene	ug/L	ND	4000	3580	89	71-157	
Vinyl chloride	ug/L	ND	4000	4540	113	10-160	
Xylene (Total)	ug/L	ND	12000	11900	99	12-153	N2
1,2-Dichloroethane-d4 (S)	%				103	80-120	
4-Bromofluorobenzene (S)	%				97	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-220R2

Pace Project No.: 60163084

MATRIX SPIKE SAMPLE:		1331187					
Parameter	Units	60163031001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S) Preservation pH	%	6.0	6.0	6.0	97	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-220R2

Pace Project No.: 60163084

QC Batch:	OEXT/42791	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60163084001		

METHOD BLANK: 1332201 Matrix: Water

Associated Lab Samples: 60163084001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/21/14 08:59	
2,4,6-Trichlorophenol	ug/L	ND	5.0	02/21/14 08:59	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	02/21/14 08:59	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/21/14 08:59	
Hexachlorocyclopentadiene	ug/L	ND	5.0	02/21/14 08:59	
Hexachloroethane	ug/L	ND	5.0	02/21/14 08:59	
Naphthalene	ug/L	ND	5.0	02/21/14 08:59	
Nitrobenzene	ug/L	ND	5.0	02/21/14 08:59	
Pentachlorophenol	ug/L	ND	5.0	02/21/14 08:59	
Phenol	ug/L	ND	5.0	02/21/14 08:59	
2,4,6-Tribromophenol (S)	%	70	39-120	02/21/14 08:59	
2-Fluorobiphenyl (S)	%	66	39-120	02/21/14 08:59	
2-Fluorophenol (S)	%	40	17-120	02/21/14 08:59	
Nitrobenzene-d5 (S)	%	75	33-120	02/21/14 08:59	
Phenol-d6 (S)	%	24	11-120	02/21/14 08:59	
Terphenyl-d14 (S)	%	84	45-120	02/21/14 08:59	

LABORATORY CONTROL SAMPLE: 1332202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	43.3	87	46-120	
2,4,6-Trichlorophenol	ug/L	50	36.2	72	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	45.9	92	40-133	
Hexachloro-1,3-butadiene	ug/L	50	40.7	81	44-116	
Hexachlorocyclopentadiene	ug/L	100	61.6	62	24-120	
Hexachloroethane	ug/L	50	35.8	72	43-113	
Naphthalene	ug/L	50	43.5	87	48-120	
Nitrobenzene	ug/L	50	43.5	87	48-120	
Pentachlorophenol	ug/L	50	41.2	82	47-120	
Phenol	ug/L	50	13.4	27	16-112	
2,4,6-Tribromophenol (S)	%			81	39-120	
2-Fluorobiphenyl (S)	%			75	39-120	
2-Fluorophenol (S)	%			42	17-120	
Nitrobenzene-d5 (S)	%			87	33-120	
Phenol-d6 (S)	%			27	11-120	
Terphenyl-d14 (S)	%			84	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-220R2

Pace Project No.: 60163084

MATRIX SPIKE SAMPLE:		1332203		60163024001		Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Result	% Rec	Limits	Qualifiers	
1,2,4-Trichlorobenzene	ug/L	ND	5000	4380	88			44-120		
2,4,6-Trichlorophenol	ug/L	ND	5000	4310	86			50-120		
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4610J	92			10-160		
Hexachloro-1,3-butadiene	ug/L	ND	5000	4270	85			39-116		
Hexachlorocyclopentadiene	ug/L	ND	10000	5410	54			11-120		
Hexachloroethane	ug/L	ND	5000	4110	82			40-113		
Naphthalene	ug/L	ND	5000	4960	92			45-120		
Nitrobenzene	ug/L	ND	5000	7400	148			38-120	M1	
Pentachlorophenol	ug/L	ND	5000	5420	108			43-135		
Phenol	ug/L	9500	5000	14800	107			13-112		
2,4,6-Tribromophenol (S)	%				87			39-120		
2-Fluorobiphenyl (S)	%				82			39-120		
2-Fluorophenol (S)	%				50			17-120		
Nitrobenzene-d5 (S)	%				166			33-120	S0	
Phenol-d6 (S)	%				36			11-120		
Terphenyl-d14 (S)	%				100			45-120		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-220R2

Pace Project No.: 60163084

QC Batch:	WET/46272	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60163084001		

METHOD BLANK: 1333424 Matrix: Water
Associated Lab Samples: 60163084001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/21/14 15:07	

LABORATORY CONTROL SAMPLE: 1333425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	36.5	91	78-114	

MATRIX SPIKE SAMPLE: 1333426

Parameter	Units	60163024001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	990	160	1160	107	78-114	

SAMPLE DUPLICATE: 1333427

Parameter	Units	60163031001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	750	773	3	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-220R2

Pace Project No.: 60163084

QC Batch: WET/46289

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60163084001

METHOD BLANK: 1334395

Matrix: Water

Associated Lab Samples: 60163084001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	02/24/14 12:41	

LABORATORY CONTROL SAMPLE: 1334396

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	20.6	103	64-132	

MATRIX SPIKE SAMPLE: 1334397

Parameter	Units	60163024001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	12.1	80	90.8	98	64-132	

SAMPLE DUPLICATE: 1334398

Parameter	Units	60163031001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	6.8	8.0	16	34	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-220R2

Pace Project No.: 60163084

QC Batch: WET/46199

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60163084001

METHOD BLANK: 1331494

Matrix: Water

Associated Lab Samples: 60163084001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	02/20/14 08:57	

SAMPLE DUPLICATE: 1331495

Parameter	Units	60163079011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	444	558	23	10	D6

SAMPLE DUPLICATE: 1331496

Parameter	Units	60163083001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3300	3960	18	10	D6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-220R2

Pace Project No.: 60163084

QC Batch: WET/46234

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Associated Lab Samples: 60163084001

SAMPLE DUPLICATE: 1332560

Parameter	Units	60163148001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.4	5.4	0	5	H6

SAMPLE DUPLICATE: 1332561

Parameter	Units	60163149004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.0	7.0	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-220R2

Pace Project No.: 60163084

QC Batch: WET/46174

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60163084001

METHOD BLANK: 1330955

Matrix: Water

Associated Lab Samples: 60163084001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	02/22/14 12:43	

LABORATORY CONTROL SAMPLE: 1330956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	197	99	85-115	

SAMPLE DUPLICATE: 1330957

Parameter	Units	60163080002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	756	604	22	17	D6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-220R2

Pace Project No.: 60163084

QC Batch: WETA/28218

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60163084001

METHOD BLANK: 1331112

Matrix: Water

Associated Lab Samples: 60163084001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/18/14 13:15	

LABORATORY CONTROL SAMPLE: 1331113

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	105	90-110	

MATRIX SPIKE SAMPLE: 1331114

Parameter	Units	60162937002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.81	2	2.6	88	90-110	M1

MATRIX SPIKE SAMPLE: 1331115

Parameter	Units	60162964001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.33	2	2.3	98	90-110	

SAMPLE DUPLICATE: 1331116

Parameter	Units	60162984004 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-220R2

Pace Project No.: 60163084

QC Batch:	WETA/28251	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60163084001		

METHOD BLANK: 1332196 Matrix: Water
Associated Lab Samples: 60163084001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/21/14 07:08	

LABORATORY CONTROL SAMPLE: 1332197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	50.3	101	90-110	

MATRIX SPIKE SAMPLE: 1332198

Parameter	Units	60162835005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	3040	1250	4150	89	90-110	M1

MATRIX SPIKE SAMPLE: 1332200

Parameter	Units	60163148001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	56700	25000	79600	91	90-110	

SAMPLE DUPLICATE: 1332199

Parameter	Units	60163031001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	54400	54400	0	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-220R2

Pace Project No.: 60163084

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.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-220R2

Pace Project No.: 60163084

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60163084001	316-220R2	EPA 200.7	MPRP/26184	EPA 200.7	ICP/20007
60163084001	316-220R2	EPA 200.7	MPRP/26195	EPA 200.7	ICP/20009
60163084001	316-220R2	EPA 245.1	MERP/8139	EPA 245.1	MERC/8094
60163084001	316-220R2	EPA 245.1	MERP/8150	EPA 245.1	MERC/8107
60163084001	316-220R2	EPA 625	OEXT/42791	EPA 625	MSSV/13624
60163084001	316-220R2	EPA 624 Low	MSV/59461		
60163084002	TRIP BLANK	EPA 624 Low	MSV/59461		
60163084001	316-220R2	EPA 1664A	WET/46272		
60163084001	316-220R2	EPA 1664A	WET/46289		
60163084001	316-220R2	SM 2540D	WET/46199		
60163084001	316-220R2	SM 4500-H+B	WET/46234		
60163084001	316-220R2	SM 5210B	WET/46174	SM 5210B	WET/46296
60163084001	316-220R2	EPA 350.1	WETA/28218		
60163084001	316-220R2	EPA 410.4	WETA/28251		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60163084
60163084

Client Name: Barr Eng.

Courier: Fed Ex UPS USPS Client Commercial Pace Other *X/R*

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: Yes Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 3.4
Temperature should be above freezing to 6°C

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: JD 2/17/14 1340

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOD / pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>water</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>BFS + BSN not able to be preserved</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>JD</u> Lot # of added preservative
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>covered</u>		15.
Headspace in VOA vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16. <u>3 of 5 same vials have headspace.</u>
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>IL</u>

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: BC for (AKB) Date: 2/17



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		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 TRENOR -BARR	Address: BRIDGETON, MO 63044			
Email To:	Purchase Order No. PO 3727110	Pace Quote Reference: 130426_7588	Regulatory Agency		
Phone: (816) 285-8410 Fax	Client Project ID: BRIDGETON LF	Pace Project Manager: Brown, Angie	State / Location		
Requested Due Date/TAT: 10 Day (Default)	Container Order Number:	Pace Profile #: 6787 LINE 2	Missouri		

ITEM#	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique</small>	MATRIX CODE <small>(see valid codes to left)</small>	SAMPLE TYPE <small>(G=GRAB C=COMP)</small>	COLLECTED				SAMPLE TEMP AT COLLECTION	Requested Analysis Filtered (Y/N)											Residual Chlorine (Y/N)																					
				START DATE	START TIME	END DATE	END TIME		# OF CONTAINERS	Preservatives	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																		
1	316-220R2	OT	G			2/16/15	15:45	14	10	4	1	0						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
2	TRIP BLANK							2	2																		X														
3																																									
4																																									
5																																									
6																																									
7																																									
8																																									
9																																									
10																																									
11																																									
12																																									

0016309A

2(BP2W) 1(BS3W) 3 (AL3S)

1(BS3S) 1(BS2W) 2(AN) 5(DPW) or
2(AN) 002

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
SITE CONTACT: BILL ABERNATHY 314-502-1299	Hunter King	2/17/14	8:50	Bill Abernathy 412	2-17-14	8:45	
SITE ADDRESS: BRIDGETON LF				Jimmy King	2/17/14	13:25	3A 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: Hunter King	SIGNATURE of SAMPLER: Hunter King				
DATE Signed: 2/16/14					

February 26, 2014

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

RE: Project: BRIDGETON LF 316-221
Pace Project No.: 60163148

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 19, 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 316-221

Pace Project No.: 60163148

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 316-221

Pace Project No.: 60163148

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60163148001	316-221	Water	02/17/14 10:58	02/19/14 02:20
60163148002	TRIP BLANK	Water	02/17/14 10:58	02/19/14 02:20

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-221

Pace Project No.: 60163148

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60163148001	316-221	EPA 200.7	TJT	15
		EPA 200.7	TJT	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	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	NDL	1
		SM 5210B	RAH	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC	1
60163148002	TRIP BLANK	EPA 624 Low	EAK	28

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-221

Pace Project No.: 60163148

Sample: 316-221		Lab ID: 60163148001	Collected: 02/17/14 10:58	Received: 02/19/14 02:20	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	8740 ug/L		750	2	02/21/14 11:50	02/24/14 12:45	7429-90-5	
Antimony	113 ug/L		50.0	1	02/21/14 11:50	02/24/14 12:42	7440-36-0	
Arsenic	1360 ug/L		50.0	1	02/21/14 11:50	02/24/14 12:42	7440-38-2	
Beryllium	ND ug/L		5.0	1	02/21/14 11:50	02/24/14 12:42	7440-41-7	
Cadmium	27.2 ug/L		25.0	1	02/21/14 11:50	02/24/14 12:42	7440-43-9	
Chromium	311 ug/L		25.0	1	02/21/14 11:50	02/24/14 12:42	7440-47-3	
Cobalt	50.8 ug/L		25.0	1	02/21/14 11:50	02/24/14 12:42	7440-48-4	
Copper	ND ug/L		50.0	1	02/21/14 11:50	02/24/14 12:42	7440-50-8	
Iron	955000 ug/L		250	1	02/21/14 11:50	02/24/14 12:42	7439-89-6	M1
Lead	118 ug/L		25.0	1	02/21/14 11:50	02/24/14 12:42	7439-92-1	
Nickel	135 ug/L		25.0	1	02/21/14 11:50	02/24/14 12:42	7440-02-0	
Selenium	90.4 ug/L		75.0	1	02/21/14 11:50	02/24/14 12:42	7782-49-2	
Silver	ND ug/L		35.0	1	02/21/14 11:50	02/24/14 12:42	7440-22-4	
Thallium	ND ug/L		100	1	02/21/14 11:50	02/24/14 12:42	7440-28-0	
Zinc	8690 ug/L		500	2	02/21/14 11:50	02/24/14 12:45	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	2460 ug/L		750	2	02/24/14 14:15	02/25/14 10:01	7429-90-5	
Antimony, Dissolved	57.8 ug/L		50.0	1	02/24/14 14:15	02/25/14 09:59	7440-36-0	
Arsenic, Dissolved	1090 ug/L		50.0	1	02/24/14 14:15	02/25/14 09:59	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	02/24/14 14:15	02/25/14 09:59	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	02/24/14 14:15	02/25/14 09:59	7440-43-9	
Chromium, Dissolved	252 ug/L		25.0	1	02/24/14 14:15	02/25/14 09:59	7440-47-3	
Cobalt, Dissolved	40.9 ug/L		25.0	1	02/24/14 14:15	02/25/14 09:59	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	02/24/14 14:15	02/25/14 09:59	7440-50-8	
Iron, Dissolved	740000 ug/L		250	1	02/24/14 14:15	02/25/14 09:59	7439-89-6	M1
Lead, Dissolved	74.0 ug/L		25.0	1	02/24/14 14:15	02/25/14 09:59	7439-92-1	
Nickel, Dissolved	108 ug/L		25.0	1	02/24/14 14:15	02/25/14 09:59	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	02/24/14 14:15	02/25/14 09:59	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	02/24/14 14:15	02/25/14 09:59	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	02/24/14 14:15	02/25/14 09:59	7440-28-0	
Zinc, Dissolved	7070 ug/L		500	2	02/24/14 14:15	02/25/14 10:01	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND ug/L		6.0	1	02/24/14 09:30	02/24/14 14:44	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	02/24/14 14:00	02/25/14 10:13	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	02/21/14 00:00	02/24/14 12:31	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	02/21/14 00:00	02/24/14 12:31	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	02/21/14 00:00	02/24/14 12:31	77-47-4	
Hexachloroethane	ND ug/L		1000	2	02/21/14 00:00	02/24/14 12:31	67-72-1	
Naphthalene	1750 ug/L		1000	2	02/21/14 00:00	02/24/14 12:31	91-20-3	
Nitrobenzene	ND ug/L		1000	2	02/21/14 00:00	02/24/14 12:31	98-95-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-221

Pace Project No.: 60163148

Sample: 316-221	Lab ID: 60163148001	Collected: 02/17/14 10:58	Received: 02/19/14 02:20	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	02/21/14 00:00	02/24/14 12:31	87-86-5	
Phenol	12500 ug/L		1000	2	02/21/14 00:00	02/24/14 12:31	108-95-2	M1
1,2,4-Trichlorobenzene	ND ug/L		1000	2	02/21/14 00:00	02/24/14 12:31	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	02/21/14 00:00	02/24/14 12:31	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	175 %		33-120	2	02/21/14 00:00	02/24/14 12:31	4165-60-0	S0
2-Fluorobiphenyl (S)	74 %		39-120	2	02/21/14 00:00	02/24/14 12:31	321-60-8	
Terphenyl-d14 (S)	85 %		45-120	2	02/21/14 00:00	02/24/14 12:31	1718-51-0	
Phenol-d6 (S)	30 %		11-120	2	02/21/14 00:00	02/24/14 12:31	13127-88-3	
2-Fluorophenol (S)	40 %		17-120	2	02/21/14 00:00	02/24/14 12:31	367-12-4	
2,4,6-Tribromophenol (S)	95 %		39-120	2	02/21/14 00:00	02/24/14 12:31	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	156000 ug/L		2000	200		02/21/14 20:33	67-64-1	M1,N2
Benzene	ND ug/L		200	200		02/21/14 20:33	71-43-2	
Bromodichloromethane	ND ug/L		200	200		02/21/14 20:33	75-27-4	
Bromoform	ND ug/L		200	200		02/21/14 20:33	75-25-2	
Bromomethane	ND ug/L		1000	200		02/21/14 20:33	74-83-9	
2-Butanone (MEK)	90200 ug/L		2000	200		02/21/14 20:33	78-93-3	M1,N2
Carbon tetrachloride	ND ug/L		200	200		02/21/14 20:33	56-23-5	
Chloroethane	ND ug/L		200	200		02/21/14 20:33	75-00-3	
Chloroform	ND ug/L		200	200		02/21/14 20:33	67-66-3	
1,4-Dichlorobenzene	983 ug/L		200	200		02/21/14 20:33	106-46-7	
1,2-Dichloroethane	ND ug/L		200	200		02/21/14 20:33	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200	200		02/21/14 20:33	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		200	200		02/21/14 20:33	156-60-5	
Ethylbenzene	ND ug/L		200	200		02/21/14 20:33	100-41-4	
Methylene chloride	ND ug/L		200	200		02/21/14 20:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	5050 ug/L		2000	200		02/21/14 20:33	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		02/21/14 20:33	79-34-5	N2
Tetrachloroethene	ND ug/L		200	200		02/21/14 20:33	127-18-4	
Toluene	ND ug/L		200	200		02/21/14 20:33	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		02/21/14 20:33	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		02/21/14 20:33	79-00-5	
Trichloroethene	ND ug/L		200	200		02/21/14 20:33	79-01-6	
Vinyl chloride	ND ug/L		200	200		02/21/14 20:33	75-01-4	
Xylene (Total)	ND ug/L		600	200		02/21/14 20:33	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	98 %		80-120	200		02/21/14 20:33	460-00-4	
Toluene-d8 (S)	99 %		80-120	200		02/21/14 20:33	2037-26-5	
1,2-Dichloroethane-d4 (S)	96 %		80-120	200		02/21/14 20:33	17060-07-0	
Preservation pH	6.0		1.0	200		02/21/14 20:33		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1120 mg/L		5.0	1		02/25/14 11:05		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-221

Pace Project No.: 60163148

Sample: 316-221		Lab ID: 60163148001	Collected: 02/17/14 10:58	Received: 02/19/14 02:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	14.8	mg/L	5.0	1		02/26/14 10:15		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	3520	mg/L	5.0	1		02/21/14 11:35		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4	Std. Units	0.10	1		02/20/14 14:09		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	35100	mg/L	2.0	1	02/19/14 08:59	02/24/14 13:29		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	733	mg/L	20.0	200		02/21/14 11:35	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	56700	mg/L	5000	500		02/21/14 07:32		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-221

Pace Project No.: 60163148

Sample: TRIP BLANK		Lab ID: 60163148002	Collected: 02/17/14 10:58	Received: 02/19/14 02:20	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		02/21/14 20:17	67-64-1	N2
Benzene	ND ug/L		1.0	1		02/21/14 20:17	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		02/21/14 20:17	75-27-4	
Bromoform	ND ug/L		1.0	1		02/21/14 20:17	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/21/14 20:17	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		02/21/14 20:17	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		02/21/14 20:17	56-23-5	
Chloroethane	ND ug/L		1.0	1		02/21/14 20:17	75-00-3	
Chloroform	ND ug/L		1.0	1		02/21/14 20:17	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		02/21/14 20:17	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		02/21/14 20:17	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		02/21/14 20:17	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		02/21/14 20:17	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		02/21/14 20:17	100-41-4	
Methylene chloride	ND ug/L		1.0	1		02/21/14 20:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		02/21/14 20:17	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		02/21/14 20:17	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		02/21/14 20:17	127-18-4	
Toluene	ND ug/L		1.0	1		02/21/14 20:17	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		02/21/14 20:17	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		02/21/14 20:17	79-00-5	
Trichloroethene	ND ug/L		1.0	1		02/21/14 20:17	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		02/21/14 20:17	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		02/21/14 20:17	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	1		02/21/14 20:17	460-00-4	
Toluene-d8 (S)	105 %		80-120	1		02/21/14 20:17	2037-26-5	
1,2-Dichloroethane-d4 (S)	103 %		80-120	1		02/21/14 20:17	17060-07-0	
Preservation pH	6.0		1.0	1		02/21/14 20:17		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-221

Pace Project No.: 60163148

QC Batch: MERP/8165 Analysis Method: EPA 245.1
 QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
 Associated Lab Samples: 60163148001

METHOD BLANK: 1334271 Matrix: Water
 Associated Lab Samples: 60163148001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/24/14 14:39	

LABORATORY CONTROL SAMPLE: 1334272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334273 1334274

Parameter	Units	60163148001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	
Mercury	ug/L	ND	150	150	152	151	102	100	70-130	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334275 1334276

Parameter	Units	60163516001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	
Mercury	ug/L	ND	150	150	190	168	127	112	70-130	12	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-221

Pace Project No.: 60163148

QC Batch:	MERP/8166	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60163148001		

METHOD BLANK: 1334467 Matrix: Water
Associated Lab Samples: 60163148001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/25/14 10:09	

LABORATORY CONTROL SAMPLE: 1334468

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.9	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334469 1334470

Parameter	Units	60163148001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury, Dissolved	ug/L	ND	150	150	158	153	106	102	70-130	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334471 1334472

Parameter	Units	60163516001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury, Dissolved	ug/L	ND	150	150	161	158	107	105	70-130	2	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-221
Pace Project No.: 60163148

QC Batch: MPRP/26213 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60163148001

METHOD BLANK: 1333098 Matrix: Water
Associated Lab Samples: 60163148001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	02/24/14 12:36	
Antimony	ug/L	ND	10.0	02/24/14 12:36	
Arsenic	ug/L	ND	10.0	02/24/14 12:36	
Beryllium	ug/L	ND	1.0	02/24/14 12:36	
Cadmium	ug/L	ND	5.0	02/24/14 12:36	
Chromium	ug/L	ND	5.0	02/24/14 12:36	
Cobalt	ug/L	ND	5.0	02/24/14 12:36	
Copper	ug/L	ND	10.0	02/24/14 12:36	
Iron	ug/L	ND	50.0	02/24/14 12:36	
Lead	ug/L	ND	5.0	02/24/14 12:36	
Nickel	ug/L	ND	5.0	02/24/14 12:36	
Selenium	ug/L	ND	15.0	02/24/14 12:36	
Silver	ug/L	ND	7.0	02/24/14 12:36	
Thallium	ug/L	ND	20.0	02/24/14 12:36	
Zinc	ug/L	ND	50.0	02/24/14 12:36	

LABORATORY CONTROL SAMPLE: 1333099

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10100	101	85-115	
Antimony	ug/L	1000	1040	104	85-115	
Arsenic	ug/L	1000	1020	102	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1050	105	85-115	
Chromium	ug/L	1000	1020	102	85-115	
Cobalt	ug/L	1000	1060	106	85-115	
Copper	ug/L	1000	1020	102	85-115	
Iron	ug/L	10000	9960	100	85-115	
Lead	ug/L	1000	1080	108	85-115	
Nickel	ug/L	1000	1070	107	85-115	
Selenium	ug/L	1000	1040	104	85-115	
Silver	ug/L	500	508	102	85-115	
Thallium	ug/L	1000	1080	108	85-115	
Zinc	ug/L	1000	1060	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1333100 1333101

Parameter	Units	60163148001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum	ug/L	8740	50000	50000	64200	63900	111	110	70-130	0	8		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-221

Pace Project No.: 60163148

Parameter	Units	60163148001		1333100		1333101		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Antimony	ug/L	113	5000	5000	5620	5660	110	111	70-130	1	7			
Arsenic	ug/L	1360	5000	5000	7200	7200	117	117	70-130	0	10			
Beryllium	ug/L	ND	5000	5000	4930	4980	99	100	70-130	1	7			
Cadmium	ug/L	27.2	5000	5000	5660	5700	113	114	70-130	1	10			
Chromium	ug/L	311	5000	5000	5340	5340	100	101	70-130	0	10			
Cobalt	ug/L	50.8	5000	5000	5100	5140	101	102	70-130	1	6			
Copper	ug/L	ND	5000	5000	5360	5420	107	108	70-130	1	11			
Iron	ug/L	955000	50000	50000	964000	963000	19	16	70-130	0	10	M1		
Lead	ug/L	118	5000	5000	4860	4890	95	95	70-130	1	10			
Nickel	ug/L	135	5000	5000	5100	5140	99	100	70-130	1	10			
Selenium	ug/L	90.4	5000	5000	6480	6500	128	128	70-130	0	10			
Silver	ug/L	ND	2500	2500	2750	2750	110	109	70-130	0	10			
Thallium	ug/L	ND	5000	5000	4300	4330	86	87	70-130	1	6			
Zinc	ug/L	8690	5000	5000	13400	13400	94	93	70-130	0	11			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-221
Pace Project No.: 60163148

QC Batch: MPRP/26231 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60163148001

METHOD BLANK: 1334434 Matrix: Water
Associated Lab Samples: 60163148001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	02/25/14 09:55	
Antimony, Dissolved	ug/L	ND	10.0	02/25/14 09:55	
Arsenic, Dissolved	ug/L	ND	10.0	02/25/14 09:55	
Beryllium, Dissolved	ug/L	ND	1.0	02/25/14 09:55	
Cadmium, Dissolved	ug/L	ND	5.0	02/25/14 09:55	
Chromium, Dissolved	ug/L	ND	5.0	02/25/14 09:55	
Cobalt, Dissolved	ug/L	ND	5.0	02/25/14 09:55	
Copper, Dissolved	ug/L	ND	10.0	02/25/14 09:55	
Iron, Dissolved	ug/L	ND	50.0	02/25/14 09:55	
Lead, Dissolved	ug/L	ND	5.0	02/25/14 09:55	
Nickel, Dissolved	ug/L	ND	5.0	02/25/14 09:55	
Selenium, Dissolved	ug/L	ND	15.0	02/25/14 09:55	
Silver, Dissolved	ug/L	ND	7.0	02/25/14 09:55	
Thallium, Dissolved	ug/L	ND	20.0	02/25/14 09:55	
Zinc, Dissolved	ug/L	ND	50.0	02/25/14 09:55	

LABORATORY CONTROL SAMPLE: 1334435

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	1030	103	85-115	
Arsenic, Dissolved	ug/L	1000	969	97	85-115	
Beryllium, Dissolved	ug/L	1000	1040	104	85-115	
Cadmium, Dissolved	ug/L	1000	1030	103	85-115	
Chromium, Dissolved	ug/L	1000	1030	103	85-115	
Cobalt, Dissolved	ug/L	1000	1040	104	85-115	
Copper, Dissolved	ug/L	1000	1010	101	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	1020	102	85-115	
Silver, Dissolved	ug/L	500	501	100	85-115	
Thallium, Dissolved	ug/L	1000	1080	108	85-115	
Zinc, Dissolved	ug/L	1000	1000	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334436 1334437

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result						
Aluminum, Dissolved	ug/L	2460	50000	50000	55700	106	107	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-221

Pace Project No.: 60163148

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334436												1334437	
Parameter	Units	60163148001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual	
		Result	Conc.	Spike	Spike								Result
Antimony, Dissolved	ug/L	57.8	5000	5000	5000	5520	5550	109	110	70-130	1	7	
Arsenic, Dissolved	ug/L	1090	5000	5000	5000	6550	6460	109	107	70-130	1	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	5000	5060	5120	101	102	70-130	1	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5000	5560	5580	111	112	70-130	0	10	
Chromium, Dissolved	ug/L	252	5000	5000	5000	5320	5310	101	101	70-130	0	10	
Cobalt, Dissolved	ug/L	40.9	5000	5000	5000	4960	4960	98	98	70-130	0	6	
Copper, Dissolved	ug/L	ND	5000	5000	5000	5300	5320	106	106	70-130	0	11	
Iron, Dissolved	ug/L	740000	50000	50000	50000	788000	761000	95	42	70-130	3	10 M1	
Lead, Dissolved	ug/L	74.0	5000	5000	5000	4790	4800	94	95	70-130	0	10	
Nickel, Dissolved	ug/L	108	5000	5000	5000	5080	5090	99	100	70-130	0	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5000	6200	6200	123	122	70-130	0	10	
Silver, Dissolved	ug/L	ND	2500	2500	2500	2700	2700	108	108	70-130	0	10	
Thallium, Dissolved	ug/L	ND	5000	5000	5000	4360	4410	87	88	70-130	1	6	
Zinc, Dissolved	ug/L	7070	5000	5000	5000	11700	11500	93	89	70-130	1	11	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334438												1334439	
Parameter	Units	60163516001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual	
		Result	Conc.	Spike	Spike								Result
Aluminum, Dissolved	ug/L	2840	50000	50000	50000	56200	56500	107	107	70-130	0	8	
Antimony, Dissolved	ug/L	77.2	5000	5000	5000	5460	5440	108	107	70-130	0	7	
Arsenic, Dissolved	ug/L	824	5000	5000	5000	6130	6140	106	106	70-130	0	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	5000	5090	5090	102	102	70-130	0	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5000	5530	5520	111	110	70-130	0	10	
Chromium, Dissolved	ug/L	253	5000	5000	5000	5270	5300	100	101	70-130	1	10	
Cobalt, Dissolved	ug/L	39.9	5000	5000	5000	4850	4850	96	96	70-130	0	6	
Copper, Dissolved	ug/L	ND	5000	5000	5000	5260	5260	105	105	70-130	0	11	
Iron, Dissolved	ug/L	810000	50000	50000	50000	844000	816000	67	13	70-130	3	10 M1	
Lead, Dissolved	ug/L	99.7	5000	5000	5000	4730	4730	93	93	70-130	0	10	
Nickel, Dissolved	ug/L	111	5000	5000	5000	5040	5030	98	98	70-130	0	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5000	6170	6090	122	120	70-130	1	10	
Silver, Dissolved	ug/L	ND	2500	2500	2500	2650	2670	106	107	70-130	0	10	
Thallium, Dissolved	ug/L	ND	5000	5000	5000	4360	4370	87	87	70-130	0	6	
Zinc, Dissolved	ug/L	8540	5000	5000	5000	13000	12600	90	81	70-130	4	11	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-221

Pace Project No.: 60163148

QC Batch: MSV/59574 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60163148001, 60163148002

METHOD BLANK: 1333678 Matrix: Water

Associated Lab Samples: 60163148001, 60163148002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/21/14 19:45	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/21/14 19:45	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	02/21/14 19:45	
1,2-Dichloroethane	ug/L	ND	1.0	02/21/14 19:45	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/21/14 19:45	
2-Butanone (MEK)	ug/L	ND	10.0	02/21/14 19:45	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/21/14 19:45	N2
Acetone	ug/L	ND	10.0	02/21/14 19:45	N2
Benzene	ug/L	ND	1.0	02/21/14 19:45	
Bromodichloromethane	ug/L	ND	1.0	02/21/14 19:45	
Bromoform	ug/L	ND	1.0	02/21/14 19:45	
Bromomethane	ug/L	ND	5.0	02/21/14 19:45	
Carbon tetrachloride	ug/L	ND	1.0	02/21/14 19:45	
Chloroethane	ug/L	ND	1.0	02/21/14 19:45	
Chloroform	ug/L	ND	1.0	02/21/14 19:45	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/21/14 19:45	N2
Ethylbenzene	ug/L	ND	1.0	02/21/14 19:45	
Methylene chloride	ug/L	ND	1.0	02/21/14 19:45	
Tetrachloroethene	ug/L	ND	1.0	02/21/14 19:45	
Toluene	ug/L	ND	1.0	02/21/14 19:45	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/21/14 19:45	
Trichloroethene	ug/L	ND	1.0	02/21/14 19:45	
Vinyl chloride	ug/L	ND	1.0	02/21/14 19:45	
Xylene (Total)	ug/L	ND	3.0	02/21/14 19:45	N2
1,2-Dichloroethane-d4 (S)	%	90	80-120	02/21/14 19:45	
4-Bromofluorobenzene (S)	%	99	80-120	02/21/14 19:45	
Toluene-d8 (S)	%	106	80-120	02/21/14 19:45	

LABORATORY CONTROL SAMPLE: 1333679

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.7	98	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	16.9	85	59-138	N2
1,1,2-Trichloroethane	ug/L	20	19.4	97	69-127	
1,2-Dichloroethane	ug/L	20	18.9	95	71-129	
1,4-Dichlorobenzene	ug/L	20	17.8	89	68-124	
2-Butanone (MEK)	ug/L	100	77.0	77	48-142	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	95.9	96	61-120	N2
Acetone	ug/L	100	74.9	75	40-160	N2
Benzene	ug/L	20	19.8	99	73-129	
Bromodichloromethane	ug/L	20	19.7	98	63-129	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-221

Pace Project No.: 60163148

LABORATORY CONTROL SAMPLE: 1333679

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.2	101	52-123	
Bromomethane	ug/L	20	18.4	92	10-160	
Carbon tetrachloride	ug/L	20	20.8	104	70-140	
Chloroethane	ug/L	20	18.1	91	42-160	
Chloroform	ug/L	20	20.0	100	60-120	
cis-1,2-Dichloroethene	ug/L	20	19.2	96	70-125	N2
Ethylbenzene	ug/L	20	18.3	92	66-133	
Methylene chloride	ug/L	20	20.0	100	56-135	
Tetrachloroethene	ug/L	20	18.7	93	64-143	
Toluene	ug/L	20	19.0	95	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.6	98	67-149	
Trichloroethene	ug/L	20	19.2	96	71-130	
Vinyl chloride	ug/L	20	18.6	93	41-160	
Xylene (Total)	ug/L	60	56.0	93	67-130	N2
1,2-Dichloroethane-d4 (S)	%			103	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			103	80-120	

MATRIX SPIKE SAMPLE: 1333680

Parameter	Units	60163148001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3960	99	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3530	88	46-157	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4220	106	52-150	
1,2-Dichloroethane	ug/L	ND	4000	3700	93	49-155	
1,4-Dichlorobenzene	ug/L	983	4000	4220	81	18-147	
2-Butanone (MEK)	ug/L	90200	20000	94200	20	40-160	M1,N2
4-Methyl-2-pentanone (MIBK)	ug/L	5050	20000	24100	95	40-160	N2
Acetone	ug/L	156000	20000	143000	-67	40-160	M1,N2
Benzene	ug/L	ND	4000	3790	94	37-151	
Bromodichloromethane	ug/L	ND	4000	3850	96	35-155	
Bromoform	ug/L	ND	4000	4240	106	45-133	
Bromomethane	ug/L	ND	4000	3640	91	10-160	
Carbon tetrachloride	ug/L	ND	4000	4310	108	70-140	
Chloroethane	ug/L	ND	4000	3600	90	14-160	
Chloroform	ug/L	ND	4000	3790	95	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3720	93	19-160	N2
Ethylbenzene	ug/L	ND	4000	3650	89	37-154	
Methylene chloride	ug/L	ND	4000	3810	95	15-156	
Tetrachloroethene	ug/L	ND	4000	3920	98	64-148	
Toluene	ug/L	ND	4000	3730	92	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	3700	93	54-156	
Trichloroethene	ug/L	ND	4000	4060	102	71-157	
Vinyl chloride	ug/L	ND	4000	3830	96	10-160	
Xylene (Total)	ug/L	ND	12000	11500	96	12-153	N2
1,2-Dichloroethane-d4 (S)	%				100	80-120	
4-Bromofluorobenzene (S)	%				96	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-221

Pace Project No.: 60163148

MATRIX SPIKE SAMPLE:		1333680					
Parameter	Units	60163148001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S) Preservation pH	%	6.0	6.0	6.0	98	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-221

Pace Project No.: 60163148

QC Batch:	OEXT/42819	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60163148001		

METHOD BLANK: 1332960 Matrix: Water

Associated Lab Samples: 60163148001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/24/14 09:25	
2,4,6-Trichlorophenol	ug/L	ND	5.0	02/24/14 09:25	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	02/24/14 09:25	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/24/14 09:25	
Hexachlorocyclopentadiene	ug/L	ND	5.0	02/24/14 09:25	
Hexachloroethane	ug/L	ND	5.0	02/24/14 09:25	
Naphthalene	ug/L	ND	5.0	02/24/14 09:25	
Nitrobenzene	ug/L	ND	5.0	02/24/14 09:25	
Pentachlorophenol	ug/L	ND	5.0	02/24/14 09:25	
Phenol	ug/L	ND	5.0	02/24/14 09:25	
2,4,6-Tribromophenol (S)	%	91	39-120	02/24/14 09:25	
2-Fluorobiphenyl (S)	%	72	39-120	02/24/14 09:25	
2-Fluorophenol (S)	%	44	17-120	02/24/14 09:25	
Nitrobenzene-d5 (S)	%	88	33-120	02/24/14 09:25	
Phenol-d6 (S)	%	28	11-120	02/24/14 09:25	
Terphenyl-d14 (S)	%	89	45-120	02/24/14 09:25	

LABORATORY CONTROL SAMPLE: 1332961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	38.2	76	46-120	
2,4,6-Trichlorophenol	ug/L	50	36.3	73	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	46.8	94	40-133	
Hexachloro-1,3-butadiene	ug/L	50	43.7	87	44-116	
Hexachlorocyclopentadiene	ug/L	100	66.9	67	24-120	
Hexachloroethane	ug/L	50	38.6	77	43-113	
Naphthalene	ug/L	50	39.0	78	48-120	
Nitrobenzene	ug/L	50	41.1	82	48-120	
Pentachlorophenol	ug/L	50	40.1	80	47-120	
Phenol	ug/L	50	13.7	27	16-112	
2,4,6-Tribromophenol (S)	%			92	39-120	
2-Fluorobiphenyl (S)	%			72	39-120	
2-Fluorophenol (S)	%			44	17-120	
Nitrobenzene-d5 (S)	%			84	33-120	
Phenol-d6 (S)	%			29	11-120	
Terphenyl-d14 (S)	%			85	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-221

Pace Project No.: 60163148

MATRIX SPIKE SAMPLE:		1332962					
Parameter	Units	60163148001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3220	64	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	3340	67	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	3420J	68	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3550	71	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	5780	58	11-120	
Hexachloroethane	ug/L	ND	5000	3780	76	40-113	
Naphthalene	ug/L	1750	5000	4260	50	45-120	
Nitrobenzene	ug/L	ND	5000	5890	118	38-120	
Pentachlorophenol	ug/L	ND	5000	3420	68	43-135	
Phenol	ug/L	12500	5000	11400	-23	13-112	M1
2,4,6-Tribromophenol (S)	%				78	39-120	
2-Fluorobiphenyl (S)	%				63	39-120	
2-Fluorophenol (S)	%				39	17-120	
Nitrobenzene-d5 (S)	%				126	33-120	S0
Phenol-d6 (S)	%				29	11-120	
Terphenyl-d14 (S)	%				71	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-221

Pace Project No.: 60163148

QC Batch:	WET/46316	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60163148001		

METHOD BLANK: 1334861 Matrix: Water

Associated Lab Samples: 60163148001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/25/14 11:04	

LABORATORY CONTROL SAMPLE: 1334862

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	36.9	92	78-114	

MATRIX SPIKE SAMPLE: 1334863

Parameter	Units	60163148001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	1120	174	1290	98	78-114	

SAMPLE DUPLICATE: 1334864

Parameter	Units	60163286001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1740	1600	8	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-221

Pace Project No.: 60163148

QC Batch: WET/46331

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60163148001

METHOD BLANK: 1335166

Matrix: Water

Associated Lab Samples: 60163148001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	02/26/14 10:15	

LABORATORY CONTROL SAMPLE: 1335167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	20.2	101	64-132	

MATRIX SPIKE SAMPLE: 1335168

Parameter	Units	60163148001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	14.8	87	110	110	64-132	

SAMPLE DUPLICATE: 1335169

Parameter	Units	60163286001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	24.2	29.2	19	34	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-221

Pace Project No.: 60163148

QC Batch: WET/46251

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60163148001

METHOD BLANK: 1332940

Matrix: Water

Associated Lab Samples: 60163148001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	02/21/14 11:33	

SAMPLE DUPLICATE: 1332941

Parameter	Units	60163123010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	700	627	11	10	D6

SAMPLE DUPLICATE: 1332942

Parameter	Units	60163148001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3520	3880	10	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-221

Pace Project No.: 60163148

QC Batch:	WET/46234	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
Associated Lab Samples:	60163148001		

SAMPLE DUPLICATE: 1332560

Parameter	Units	60163148001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.4	5.4	0	5	H6

SAMPLE DUPLICATE: 1332561

Parameter	Units	60163149004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.0	7.0	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-221

Pace Project No.: 60163148

QC Batch: WET/46205

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60163148001

METHOD BLANK: 1331555

Matrix: Water

Associated Lab Samples: 60163148001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	02/24/14 13:09	

LABORATORY CONTROL SAMPLE: 1331556

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	204	103	85-115	

SAMPLE DUPLICATE: 1331557

Parameter	Units	60163094001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	8.3	10.1	20	17	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-221

Pace Project No.: 60163148

QC Batch: WETA/28273

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60163148001

METHOD BLANK: 1333153

Matrix: Water

Associated Lab Samples: 60163148001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/21/14 11:16	

LABORATORY CONTROL SAMPLE: 1333154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	105	90-110	

MATRIX SPIKE SAMPLE: 1333155

Parameter	Units	60163098002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.0	98	90-110	

MATRIX SPIKE SAMPLE: 1333156

Parameter	Units	60163126002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	14.9	10	23.5	86	90-110	M1

SAMPLE DUPLICATE: 1333157

Parameter	Units	60163148001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	733	743	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-221

Pace Project No.: 60163148

QC Batch:	WETA/28251	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60163148001		

METHOD BLANK: 1332196 Matrix: Water
Associated Lab Samples: 60163148001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/21/14 07:08	

LABORATORY CONTROL SAMPLE: 1332197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	50.3	101	90-110	

MATRIX SPIKE SAMPLE: 1332198

Parameter	Units	60162835005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	3040	1250	4150	89	90-110	M1

MATRIX SPIKE SAMPLE: 1332200

Parameter	Units	60163148001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	56700	25000	79600	91	90-110	

SAMPLE DUPLICATE: 1332199

Parameter	Units	60163031001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	54400	54400	0	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-221

Pace Project No.: 60163148

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.

SAMPLE QUALIFIERS

Sample: 60163148001

[1] The samples were received outside of required temperature range. Analysis was completed upon client approval.

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-221

Pace Project No.: 60163148

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60163148001	316-221	EPA 200.7	MPRP/26213	EPA 200.7	ICP/20026
60163148001	316-221	EPA 200.7	MPRP/26231	EPA 200.7	ICP/20034
60163148001	316-221	EPA 245.1	MERP/8165	EPA 245.1	MERC/8116
60163148001	316-221	EPA 245.1	MERP/8166	EPA 245.1	MERC/8122
60163148001	316-221	EPA 625	OEXT/42819	EPA 625	MSSV/13638
60163148001	316-221	EPA 624 Low	MSV/59574		
60163148002	TRIP BLANK	EPA 624 Low	MSV/59574		
60163148001	316-221	EPA 1664A	WET/46316		
60163148001	316-221	EPA 1664A	WET/46331		
60163148001	316-221	SM 2540D	WET/46251		
60163148001	316-221	SM 4500-H+B	WET/46234		
60163148001	316-221	SM 5210B	WET/46205	SM 5210B	WET/46320
60163148001	316-221	EPA 350.1	WETA/28273		
60163148001	316-221	EPA 410.4	WETA/28251		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60163148
60163148

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 2PIC

Thermometer Used: T-239 / T-194 Type of Ice: Yes Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 14.4
Temperature should be above freezing to 6°C

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: 2/19/14

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOD PH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. <u>All of the ice in cooler</u>
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12. <u>melted.</u>
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Includes date/time/ID/analyses Matrix:	<u>WT</u>	13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>Added 2.5 ml of HNO3 to BP3N. PH 6.0/14.0</u> <u>Added 2.0 ml of HNO4 to BP35. PH 6.0/3.0</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed <u>pv</u> Lot # of added preservative <u>12513</u> <u>12514</u>
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased):		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MD</u>

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

Person Contacted: Barr Date/Time: _____

Comments/ Resolution: -email RE TEMP

Project Manager Review: _____

Date: 2/19/14

February 26, 2014

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

RE: Project: BRIDGETON LF 316-222
Pace Project No.: 60163160

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 19, 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 316-222

Pace Project No.: 60163160

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-222

Pace Project No.: 60163160

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60163160001	316-222	Water	02/18/14 10:30	02/19/14 02:20
60163160002	TRIP BLANK	Water	02/18/14 00:00	02/19/14 02:20

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-222

Pace Project No.: 60163160

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60163160001	316-222	EPA 200.7	TJT	15
		EPA 200.7	TJT	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	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	JMC1	1
		SM 5210B	RAH	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC	1
		60163160002	TRIP BLANK	EPA 624 Low

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-222

Pace Project No.: 60163160

Sample: 316-222		Lab ID: 60163160001	Collected: 02/18/14 10:30	Received: 02/19/14 02:20	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	13500	ug/L	1120	3	02/21/14 11:50	02/24/14 14:55	7429-90-5	
Antimony	89.9	ug/L	50.0	1	02/21/14 11:50	02/24/14 12:57	7440-36-0	
Arsenic	1420	ug/L	50.0	1	02/21/14 11:50	02/24/14 12:57	7440-38-2	
Beryllium	ND	ug/L	5.0	1	02/21/14 11:50	02/24/14 12:57	7440-41-7	
Cadmium	27.8	ug/L	25.0	1	02/21/14 11:50	02/24/14 12:57	7440-43-9	
Chromium	362	ug/L	25.0	1	02/21/14 11:50	02/24/14 12:57	7440-47-3	
Cobalt	64.2	ug/L	25.0	1	02/21/14 11:50	02/24/14 12:57	7440-48-4	
Copper	ND	ug/L	50.0	1	02/21/14 11:50	02/24/14 12:57	7440-50-8	
Iron	116000	ug/L	250	1	02/21/14 11:50	02/24/14 12:57	7439-89-6	
Lead	166	ug/L	25.0	1	02/21/14 11:50	02/24/14 12:57	7439-92-1	
Nickel	167	ug/L	25.0	1	02/21/14 11:50	02/24/14 12:57	7440-02-0	
Selenium	96.8	ug/L	75.0	1	02/21/14 11:50	02/24/14 12:57	7782-49-2	
Silver	ND	ug/L	35.0	1	02/21/14 11:50	02/24/14 12:57	7440-22-4	
Thallium	ND	ug/L	200	2	02/21/14 11:50	02/24/14 12:59	7440-28-0	D3
Zinc	10400	ug/L	750	3	02/21/14 11:50	02/24/14 14:55	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	2940	ug/L	750	2	02/24/14 14:15	02/25/14 10:15	7429-90-5	
Antimony, Dissolved	70.0	ug/L	50.0	1	02/24/14 14:15	02/25/14 10:13	7440-36-0	
Arsenic, Dissolved	983	ug/L	50.0	1	02/24/14 14:15	02/25/14 10:13	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	02/24/14 14:15	02/25/14 10:13	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	02/24/14 14:15	02/25/14 10:13	7440-43-9	
Chromium, Dissolved	253	ug/L	25.0	1	02/24/14 14:15	02/25/14 10:13	7440-47-3	
Cobalt, Dissolved	40.6	ug/L	25.0	1	02/24/14 14:15	02/25/14 10:13	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	02/24/14 14:15	02/25/14 10:13	7440-50-8	
Iron, Dissolved	786000	ug/L	250	1	02/24/14 14:15	02/25/14 10:13	7439-89-6	
Lead, Dissolved	83.1	ug/L	25.0	1	02/24/14 14:15	02/25/14 10:13	7439-92-1	
Nickel, Dissolved	112	ug/L	25.0	1	02/24/14 14:15	02/25/14 10:13	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	02/24/14 14:15	02/25/14 10:13	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	02/24/14 14:15	02/25/14 10:13	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	02/24/14 14:15	02/25/14 10:13	7440-28-0	
Zinc, Dissolved	7380	ug/L	500	2	02/24/14 14:15	02/25/14 10:15	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	30.3	ug/L	6.0	1	02/24/14 09:30	02/24/14 14:50	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	02/24/14 14:00	02/25/14 10:20	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	02/21/14 00:00	02/24/14 12:51	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	02/21/14 00:00	02/24/14 12:51	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	02/21/14 00:00	02/24/14 12:51	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	02/21/14 00:00	02/24/14 12:51	67-72-1	
Naphthalene	1870	ug/L	1000	2	02/21/14 00:00	02/24/14 12:51	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	02/21/14 00:00	02/24/14 12:51	98-95-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-222

Pace Project No.: 60163160

Sample: 316-222	Lab ID: 60163160001	Collected: 02/18/14 10:30	Received: 02/19/14 02:20	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	02/21/14 00:00	02/24/14 12:51	87-86-5	
Phenol	14500 ug/L		1000	2	02/21/14 00:00	02/24/14 12:51	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	02/21/14 00:00	02/24/14 12:51	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	02/21/14 00:00	02/24/14 12:51	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	177 %		33-120	2	02/21/14 00:00	02/24/14 12:51	4165-60-0	S0
2-Fluorobiphenyl (S)	77 %		39-120	2	02/21/14 00:00	02/24/14 12:51	321-60-8	
Terphenyl-d14 (S)	84 %		45-120	2	02/21/14 00:00	02/24/14 12:51	1718-51-0	
Phenol-d6 (S)	29 %		11-120	2	02/21/14 00:00	02/24/14 12:51	13127-88-3	
2-Fluorophenol (S)	41 %		17-120	2	02/21/14 00:00	02/24/14 12:51	367-12-4	
2,4,6-Tribromophenol (S)	99 %		39-120	2	02/21/14 00:00	02/24/14 12:51	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	166000 ug/L		2000	200		02/25/14 10:22	67-64-1	N2
Benzene	ND ug/L		200	200		02/25/14 10:22	71-43-2	
Bromodichloromethane	ND ug/L		200	200		02/25/14 10:22	75-27-4	
Bromoform	ND ug/L		200	200		02/25/14 10:22	75-25-2	
Bromomethane	ND ug/L		1000	200		02/25/14 10:22	74-83-9	
2-Butanone (MEK)	96500 ug/L		2000	200		02/25/14 10:22	78-93-3	N2
Carbon tetrachloride	ND ug/L		200	200		02/25/14 10:22	56-23-5	
Chloroethane	ND ug/L		200	200		02/25/14 10:22	75-00-3	
Chloroform	ND ug/L		200	200		02/25/14 10:22	67-66-3	
1,4-Dichlorobenzene	703 ug/L		200	200		02/25/14 10:22	106-46-7	
1,2-Dichloroethane	ND ug/L		200	200		02/25/14 10:22	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200	200		02/25/14 10:22	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		200	200		02/25/14 10:22	156-60-5	
Ethylbenzene	ND ug/L		200	200		02/25/14 10:22	100-41-4	
Methylene chloride	ND ug/L		200	200		02/25/14 10:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	3160 ug/L		2000	200		02/25/14 10:22	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		02/25/14 10:22	79-34-5	N2
Tetrachloroethene	ND ug/L		200	200		02/25/14 10:22	127-18-4	
Toluene	ND ug/L		200	200		02/25/14 10:22	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		02/25/14 10:22	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		02/25/14 10:22	79-00-5	
Trichloroethene	ND ug/L		200	200		02/25/14 10:22	79-01-6	
Vinyl chloride	ND ug/L		200	200		02/25/14 10:22	75-01-4	
Xylene (Total)	ND ug/L		600	200		02/25/14 10:22	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101 %		80-120	200		02/25/14 10:22	460-00-4	
Toluene-d8 (S)	107 %		80-120	200		02/25/14 10:22	2037-26-5	
1,2-Dichloroethane-d4 (S)	93 %		80-120	200		02/25/14 10:22	17060-07-0	
Preservation pH	6.0		1.0	200		02/25/14 10:22		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1430 mg/L		5.0	1		02/25/14 11:05		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-222

Pace Project No.: 60163160

Sample: 316-222		Lab ID: 60163160001	Collected: 02/18/14 10:30	Received: 02/19/14 02:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	64.8	mg/L	5.0	1		02/26/14 10:16		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	2620	mg/L	5.0	1		02/21/14 11:37		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4	Std. Units	0.10	1		02/22/14 08:00		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	22100	mg/L	2.0	1	02/20/14 10:07	02/25/14 12:44		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	737	mg/L	20.0	200		02/21/14 11:38	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	60600	mg/L	5000	500		02/21/14 07:33		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-222

Pace Project No.: 60163160

Sample: TRIP BLANK		Lab ID: 60163160002	Collected: 02/18/14 00:00	Received: 02/19/14 02:20	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		02/25/14 14:35	67-64-1	N2
Benzene	ND ug/L		1.0	1		02/25/14 14:35	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		02/25/14 14:35	75-27-4	
Bromoform	ND ug/L		1.0	1		02/25/14 14:35	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/25/14 14:35	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		02/25/14 14:35	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		02/25/14 14:35	56-23-5	
Chloroethane	ND ug/L		1.0	1		02/25/14 14:35	75-00-3	
Chloroform	ND ug/L		1.0	1		02/25/14 14:35	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		02/25/14 14:35	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		02/25/14 14:35	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		02/25/14 14:35	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		02/25/14 14:35	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		02/25/14 14:35	100-41-4	
Methylene chloride	ND ug/L		1.0	1		02/25/14 14:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		02/25/14 14:35	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		02/25/14 14:35	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		02/25/14 14:35	127-18-4	
Toluene	ND ug/L		1.0	1		02/25/14 14:35	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		02/25/14 14:35	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		02/25/14 14:35	79-00-5	
Trichloroethene	ND ug/L		1.0	1		02/25/14 14:35	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		02/25/14 14:35	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		02/25/14 14:35	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101 %		80-120	1		02/25/14 14:35	460-00-4	
Toluene-d8 (S)	107 %		80-120	1		02/25/14 14:35	2037-26-5	
1,2-Dichloroethane-d4 (S)	94 %		80-120	1		02/25/14 14:35	17060-07-0	
Preservation pH	6.0		1.0	1		02/25/14 14:35		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-222

Pace Project No.: 60163160

QC Batch: MERP/8165

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60163160001

METHOD BLANK: 1334271

Matrix: Water

Associated Lab Samples: 60163160001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/24/14 14:39	

LABORATORY CONTROL SAMPLE: 1334272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334273 1334274

Parameter	Units	60163148001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Mercury	ug/L	ND	150	150	152	151	102	100	70-130	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334275 1334276

Parameter	Units	60163516001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Mercury	ug/L	ND	150	190	150	168	127	112	70-130	12	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-222

Pace Project No.: 60163160

QC Batch: MERP/8166 Analysis Method: EPA 245.1
 QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury - Dissolved
 Associated Lab Samples: 60163160001

METHOD BLANK: 1334467 Matrix: Water
 Associated Lab Samples: 60163160001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/25/14 10:09	

LABORATORY CONTROL SAMPLE: 1334468

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.9	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334469 1334470

Parameter	Units	60163148001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Mercury, Dissolved	ug/L	ND	150	150	158	153	106	102	70-130	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334471 1334472

Parameter	Units	60163516001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Mercury, Dissolved	ug/L	ND	150	150	161	158	107	105	70-130	2	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-222
Pace Project No.: 60163160

QC Batch: MPRP/26213 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60163160001

METHOD BLANK: 1333098 Matrix: Water
Associated Lab Samples: 60163160001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	02/24/14 12:36	
Antimony	ug/L	ND	10.0	02/24/14 12:36	
Arsenic	ug/L	ND	10.0	02/24/14 12:36	
Beryllium	ug/L	ND	1.0	02/24/14 12:36	
Cadmium	ug/L	ND	5.0	02/24/14 12:36	
Chromium	ug/L	ND	5.0	02/24/14 12:36	
Cobalt	ug/L	ND	5.0	02/24/14 12:36	
Copper	ug/L	ND	10.0	02/24/14 12:36	
Iron	ug/L	ND	50.0	02/24/14 12:36	
Lead	ug/L	ND	5.0	02/24/14 12:36	
Nickel	ug/L	ND	5.0	02/24/14 12:36	
Selenium	ug/L	ND	15.0	02/24/14 12:36	
Silver	ug/L	ND	7.0	02/24/14 12:36	
Thallium	ug/L	ND	20.0	02/24/14 12:36	
Zinc	ug/L	ND	50.0	02/24/14 12:36	

LABORATORY CONTROL SAMPLE: 1333099

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10100	101	85-115	
Antimony	ug/L	1000	1040	104	85-115	
Arsenic	ug/L	1000	1020	102	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1050	105	85-115	
Chromium	ug/L	1000	1020	102	85-115	
Cobalt	ug/L	1000	1060	106	85-115	
Copper	ug/L	1000	1020	102	85-115	
Iron	ug/L	10000	9960	100	85-115	
Lead	ug/L	1000	1080	108	85-115	
Nickel	ug/L	1000	1070	107	85-115	
Selenium	ug/L	1000	1040	104	85-115	
Silver	ug/L	500	508	102	85-115	
Thallium	ug/L	1000	1080	108	85-115	
Zinc	ug/L	1000	1060	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1333100 1333101

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60163148001 Result	Spike Conc.	Spike Conc.	MS Result						
Aluminum	ug/L	8740	50000	50000	64200	63900	111	110	70-130	0	8

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-222

Pace Project No.: 60163160

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1333100		1333101									
Parameter	Units	60163148001	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	RPD	RPD	Qual
		Result	Spike	Spike	Result	Result	% Rec	% Rec	Limits				
Antimony	ug/L	113	5000	5000	5620	5660	110	111	70-130	1	7		
Arsenic	ug/L	1360	5000	5000	7200	7200	117	117	70-130	0	10		
Beryllium	ug/L	ND	5000	5000	4930	4980	99	100	70-130	1	7		
Cadmium	ug/L	27.2	5000	5000	5660	5700	113	114	70-130	1	10		
Chromium	ug/L	311	5000	5000	5340	5340	100	101	70-130	0	10		
Cobalt	ug/L	50.8	5000	5000	5100	5140	101	102	70-130	1	6		
Copper	ug/L	ND	5000	5000	5360	5420	107	108	70-130	1	11		
Iron	ug/L	955000	50000	50000	964000	963000	19	16	70-130	0	10	M1	
Lead	ug/L	118	5000	5000	4860	4890	95	95	70-130	1	10		
Nickel	ug/L	135	5000	5000	5100	5140	99	100	70-130	1	10		
Selenium	ug/L	90.4	5000	5000	6480	6500	128	128	70-130	0	10		
Silver	ug/L	ND	2500	2500	2750	2750	110	109	70-130	0	10		
Thallium	ug/L	ND	5000	5000	4300	4330	86	87	70-130	1	6		
Zinc	ug/L	8690	5000	5000	13400	13400	94	93	70-130	0	11		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-222
Pace Project No.: 60163160

QC Batch: MPRP/26231 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60163160001

METHOD BLANK: 1334434 Matrix: Water
Associated Lab Samples: 60163160001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	02/25/14 09:55	
Antimony, Dissolved	ug/L	ND	10.0	02/25/14 09:55	
Arsenic, Dissolved	ug/L	ND	10.0	02/25/14 09:55	
Beryllium, Dissolved	ug/L	ND	1.0	02/25/14 09:55	
Cadmium, Dissolved	ug/L	ND	5.0	02/25/14 09:55	
Chromium, Dissolved	ug/L	ND	5.0	02/25/14 09:55	
Cobalt, Dissolved	ug/L	ND	5.0	02/25/14 09:55	
Copper, Dissolved	ug/L	ND	10.0	02/25/14 09:55	
Iron, Dissolved	ug/L	ND	50.0	02/25/14 09:55	
Lead, Dissolved	ug/L	ND	5.0	02/25/14 09:55	
Nickel, Dissolved	ug/L	ND	5.0	02/25/14 09:55	
Selenium, Dissolved	ug/L	ND	15.0	02/25/14 09:55	
Silver, Dissolved	ug/L	ND	7.0	02/25/14 09:55	
Thallium, Dissolved	ug/L	ND	20.0	02/25/14 09:55	
Zinc, Dissolved	ug/L	ND	50.0	02/25/14 09:55	

LABORATORY CONTROL SAMPLE: 1334435

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	1030	103	85-115	
Arsenic, Dissolved	ug/L	1000	969	97	85-115	
Beryllium, Dissolved	ug/L	1000	1040	104	85-115	
Cadmium, Dissolved	ug/L	1000	1030	103	85-115	
Chromium, Dissolved	ug/L	1000	1030	103	85-115	
Cobalt, Dissolved	ug/L	1000	1040	104	85-115	
Copper, Dissolved	ug/L	1000	1010	101	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	1020	102	85-115	
Silver, Dissolved	ug/L	500	501	100	85-115	
Thallium, Dissolved	ug/L	1000	1080	108	85-115	
Zinc, Dissolved	ug/L	1000	1000	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334436 1334437

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result						
Aluminum, Dissolved	ug/L	2460	50000	50000	55700	106	107	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-222

Pace Project No.: 60163160

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334436												1334437	
Parameter	Units	60163148001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual	
		Result	Conc.	Spike	Spike								Result
Antimony, Dissolved	ug/L	57.8	5000	5000	5000	5520	5550	109	110	70-130	1	7	
Arsenic, Dissolved	ug/L	1090	5000	5000	5000	6550	6460	109	107	70-130	1	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	5000	5060	5120	101	102	70-130	1	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5000	5560	5580	111	112	70-130	0	10	
Chromium, Dissolved	ug/L	252	5000	5000	5000	5320	5310	101	101	70-130	0	10	
Cobalt, Dissolved	ug/L	40.9	5000	5000	5000	4960	4960	98	98	70-130	0	6	
Copper, Dissolved	ug/L	ND	5000	5000	5000	5300	5320	106	106	70-130	0	11	
Iron, Dissolved	ug/L	740000	50000	50000	50000	788000	761000	95	42	70-130	3	10 M1	
Lead, Dissolved	ug/L	74.0	5000	5000	5000	4790	4800	94	95	70-130	0	10	
Nickel, Dissolved	ug/L	108	5000	5000	5000	5080	5090	99	100	70-130	0	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5000	6200	6200	123	122	70-130	0	10	
Silver, Dissolved	ug/L	ND	2500	2500	2500	2700	2700	108	108	70-130	0	10	
Thallium, Dissolved	ug/L	ND	5000	5000	5000	4360	4410	87	88	70-130	1	6	
Zinc, Dissolved	ug/L	7070	5000	5000	5000	11700	11500	93	89	70-130	1	11	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334438												1334439	
Parameter	Units	60163516001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual	
		Result	Conc.	Spike	Spike								Result
Aluminum, Dissolved	ug/L	2840	50000	50000	50000	56200	56500	107	107	70-130	0	8	
Antimony, Dissolved	ug/L	77.2	5000	5000	5000	5460	5440	108	107	70-130	0	7	
Arsenic, Dissolved	ug/L	824	5000	5000	5000	6130	6140	106	106	70-130	0	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	5000	5090	5090	102	102	70-130	0	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5000	5530	5520	111	110	70-130	0	10	
Chromium, Dissolved	ug/L	253	5000	5000	5000	5270	5300	100	101	70-130	1	10	
Cobalt, Dissolved	ug/L	39.9	5000	5000	5000	4850	4850	96	96	70-130	0	6	
Copper, Dissolved	ug/L	ND	5000	5000	5000	5260	5260	105	105	70-130	0	11	
Iron, Dissolved	ug/L	810000	50000	50000	50000	844000	816000	67	13	70-130	3	10 M1	
Lead, Dissolved	ug/L	99.7	5000	5000	5000	4730	4730	93	93	70-130	0	10	
Nickel, Dissolved	ug/L	111	5000	5000	5000	5040	5030	98	98	70-130	0	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5000	6170	6090	122	120	70-130	1	10	
Silver, Dissolved	ug/L	ND	2500	2500	2500	2650	2670	106	107	70-130	0	10	
Thallium, Dissolved	ug/L	ND	5000	5000	5000	4360	4370	87	87	70-130	0	6	
Zinc, Dissolved	ug/L	8540	5000	5000	5000	13000	12600	90	81	70-130	4	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-222

Pace Project No.: 60163160

QC Batch: MSV/59603 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60163160001, 60163160002

METHOD BLANK: 1334739 Matrix: Water

Associated Lab Samples: 60163160001, 60163160002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/25/14 10:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/25/14 10:06	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	02/25/14 10:06	
1,2-Dichloroethane	ug/L	ND	1.0	02/25/14 10:06	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/25/14 10:06	
2-Butanone (MEK)	ug/L	ND	10.0	02/25/14 10:06	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/25/14 10:06	N2
Acetone	ug/L	ND	10.0	02/25/14 10:06	N2
Benzene	ug/L	ND	1.0	02/25/14 10:06	
Bromodichloromethane	ug/L	ND	1.0	02/25/14 10:06	
Bromoform	ug/L	ND	1.0	02/25/14 10:06	
Bromomethane	ug/L	ND	5.0	02/25/14 10:06	
Carbon tetrachloride	ug/L	ND	1.0	02/25/14 10:06	
Chloroethane	ug/L	ND	1.0	02/25/14 10:06	
Chloroform	ug/L	ND	1.0	02/25/14 10:06	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/25/14 10:06	N2
Ethylbenzene	ug/L	ND	1.0	02/25/14 10:06	
Methylene chloride	ug/L	ND	1.0	02/25/14 10:06	
Tetrachloroethene	ug/L	ND	1.0	02/25/14 10:06	
Toluene	ug/L	ND	1.0	02/25/14 10:06	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/25/14 10:06	
Trichloroethene	ug/L	ND	1.0	02/25/14 10:06	
Vinyl chloride	ug/L	ND	1.0	02/25/14 10:06	
Xylene (Total)	ug/L	ND	3.0	02/25/14 10:06	N2
1,2-Dichloroethane-d4 (S)	%	91	80-120	02/25/14 10:06	
4-Bromofluorobenzene (S)	%	104	80-120	02/25/14 10:06	
Toluene-d8 (S)	%	108	80-120	02/25/14 10:06	

LABORATORY CONTROL SAMPLE: 1334740

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.0	105	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	21.8	109	67-127	N2
1,1,2-Trichloroethane	ug/L	20	21.9	110	67-124	
1,2-Dichloroethane	ug/L	20	18.8	94	70-126	
1,4-Dichlorobenzene	ug/L	20	20.7	103	74-120	
2-Butanone (MEK)	ug/L	100	102	102	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	120	120	59-131	N2
Acetone	ug/L	100	98.5	98	38-134	N2
Benzene	ug/L	20	19.1	96	75-120	
Bromodichloromethane	ug/L	20	21.3	107	68-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-222

Pace Project No.: 60163160

LABORATORY CONTROL SAMPLE: 1334740

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	22.5	112	65-127	
Bromomethane	ug/L	20	21.4	107	13-157	
Carbon tetrachloride	ug/L	20	19.2	96	70-131	
Chloroethane	ug/L	20	20.3	102	47-133	
Chloroform	ug/L	20	22.0	110	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.9	105	68-127	N2
Ethylbenzene	ug/L	20	19.2	96	74-122	
Methylene chloride	ug/L	20	22.1	110	64-129	
Tetrachloroethene	ug/L	20	18.1	90	73-125	
Toluene	ug/L	20	20.5	103	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.9	105	66-129	
Trichloroethene	ug/L	20	19.8	99	71-123	
Vinyl chloride	ug/L	20	19.7	98	43-129	
Xylene (Total)	ug/L	60	58.0	97	75-121	N2
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			103	80-120	

MATRIX SPIKE SAMPLE: 1334741

Parameter	Units	60163516001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3940	98	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3890	93	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4440	111	52-143	
1,2-Dichloroethane	ug/L	ND	4000	3610	90	49-144	
1,4-Dichlorobenzene	ug/L	723	4000	4510	95	33-140	
2-Butanone (MEK)	ug/L	63900	20000	99600	179	40-160	M1,N2
4-Methyl-2-pentanone (MIBK)	ug/L	3180	20000	28300	125	40-160	N2
Acetone	ug/L	129000	20000	145000	82	10-160	N2
Benzene	ug/L	ND	4000	3880	97	37-151	
Bromodichloromethane	ug/L	ND	4000	4110	103	35-142	
Bromoform	ug/L	ND	4000	4470	112	45-142	
Bromomethane	ug/L	ND	4000	3980	99	10-158	
Carbon tetrachloride	ug/L	ND	4000	4240	106	70-140	
Chloroethane	ug/L	ND	4000	3940	98	19-152	
Chloroform	ug/L	ND	4000	4220	105	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	4130	103	34-147	N2
Ethylbenzene	ug/L	ND	4000	3760	93	40-142	
Methylene chloride	ug/L	ND	4000	4500	113	31-144	
Tetrachloroethene	ug/L	ND	4000	3830	96	64-148	
Toluene	ug/L	ND	4000	4210	105	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4090	102	54-151	
Trichloroethene	ug/L	ND	4000	4110	103	71-149	
Vinyl chloride	ug/L	ND	4000	3970	99	22-146	
Xylene (Total)	ug/L	ND	12000	11900	99	37-144	N2
1,2-Dichloroethane-d4 (S)	%				95	80-120	
4-Bromofluorobenzene (S)	%				96	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-222

Pace Project No.: 60163160

MATRIX SPIKE SAMPLE:		1334741					
Parameter	Units	60163516001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S) Preservation pH	%	6.0	6.0	6.0	105	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-222

Pace Project No.: 60163160

QC Batch:	OEXT/42819	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60163160001		

METHOD BLANK: 1332960 Matrix: Water

Associated Lab Samples: 60163160001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/24/14 09:25	
2,4,6-Trichlorophenol	ug/L	ND	5.0	02/24/14 09:25	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	02/24/14 09:25	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/24/14 09:25	
Hexachlorocyclopentadiene	ug/L	ND	5.0	02/24/14 09:25	
Hexachloroethane	ug/L	ND	5.0	02/24/14 09:25	
Naphthalene	ug/L	ND	5.0	02/24/14 09:25	
Nitrobenzene	ug/L	ND	5.0	02/24/14 09:25	
Pentachlorophenol	ug/L	ND	5.0	02/24/14 09:25	
Phenol	ug/L	ND	5.0	02/24/14 09:25	
2,4,6-Tribromophenol (S)	%	91	39-120	02/24/14 09:25	
2-Fluorobiphenyl (S)	%	72	39-120	02/24/14 09:25	
2-Fluorophenol (S)	%	44	17-120	02/24/14 09:25	
Nitrobenzene-d5 (S)	%	88	33-120	02/24/14 09:25	
Phenol-d6 (S)	%	28	11-120	02/24/14 09:25	
Terphenyl-d14 (S)	%	89	45-120	02/24/14 09:25	

LABORATORY CONTROL SAMPLE: 1332961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	38.2	76	46-120	
2,4,6-Trichlorophenol	ug/L	50	36.3	73	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	46.8	94	40-133	
Hexachloro-1,3-butadiene	ug/L	50	43.7	87	44-116	
Hexachlorocyclopentadiene	ug/L	100	66.9	67	24-120	
Hexachloroethane	ug/L	50	38.6	77	43-113	
Naphthalene	ug/L	50	39.0	78	48-120	
Nitrobenzene	ug/L	50	41.1	82	48-120	
Pentachlorophenol	ug/L	50	40.1	80	47-120	
Phenol	ug/L	50	13.7	27	16-112	
2,4,6-Tribromophenol (S)	%			92	39-120	
2-Fluorobiphenyl (S)	%			72	39-120	
2-Fluorophenol (S)	%			44	17-120	
Nitrobenzene-d5 (S)	%			84	33-120	
Phenol-d6 (S)	%			29	11-120	
Terphenyl-d14 (S)	%			85	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-222

Pace Project No.: 60163160

MATRIX SPIKE SAMPLE:		1332962					
Parameter	Units	60163148001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3220	64	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	3340	67	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	3420J	68	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3550	71	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	5780	58	11-120	
Hexachloroethane	ug/L	ND	5000	3780	76	40-113	
Naphthalene	ug/L	1750	5000	4260	50	45-120	
Nitrobenzene	ug/L	ND	5000	5890	118	38-120	
Pentachlorophenol	ug/L	ND	5000	3420	68	43-135	
Phenol	ug/L	12500	5000	11400	-23	13-112	M1
2,4,6-Tribromophenol (S)	%				78	39-120	
2-Fluorobiphenyl (S)	%				63	39-120	
2-Fluorophenol (S)	%				39	17-120	
Nitrobenzene-d5 (S)	%				126	33-120	S0
Phenol-d6 (S)	%				29	11-120	
Terphenyl-d14 (S)	%				71	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-222

Pace Project No.: 60163160

QC Batch:	WET/46316	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60163160001		

METHOD BLANK: 1334861 Matrix: Water

Associated Lab Samples: 60163160001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/25/14 11:04	

LABORATORY CONTROL SAMPLE: 1334862

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	36.9	92	78-114	

MATRIX SPIKE SAMPLE: 1334863

Parameter	Units	60163148001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	1120	174	1290	98	78-114	

SAMPLE DUPLICATE: 1334864

Parameter	Units	60163286001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1740	1600	8	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-222

Pace Project No.: 60163160

QC Batch:	WET/46331	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60163160001		

METHOD BLANK: 1335166 Matrix: Water
Associated Lab Samples: 60163160001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	02/26/14 10:15	

LABORATORY CONTROL SAMPLE: 1335167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	20.2	101	64-132	

MATRIX SPIKE SAMPLE: 1335168

Parameter	Units	60163148001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	14.8	87	110	110	64-132	

SAMPLE DUPLICATE: 1335169

Parameter	Units	60163286001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	24.2	29.2	19	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-222

Pace Project No.: 60163160

QC Batch: WET/46251

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60163160001

METHOD BLANK: 1332940

Matrix: Water

Associated Lab Samples: 60163160001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	02/21/14 11:33	

SAMPLE DUPLICATE: 1332941

Parameter	Units	60163123010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	700	627	11	10	D6

SAMPLE DUPLICATE: 1332942

Parameter	Units	60163148001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3520	3880	10	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-222

Pace Project No.: 60163160

QC Batch: WET/46275 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60163160001

SAMPLE DUPLICATE: 1333706

Parameter	Units	60163169001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.5	8.4	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-222

Pace Project No.: 60163160

QC Batch: WET/46221

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60163160001

METHOD BLANK: 1332261

Matrix: Water

Associated Lab Samples: 60163160001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	02/25/14 10:44	

LABORATORY CONTROL SAMPLE: 1332262

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	179	90	85-115	

SAMPLE DUPLICATE: 1332263

Parameter	Units	60163157002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	93.9	105	11	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-222

Pace Project No.: 60163160

QC Batch:	WETA/28273	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60163160001		

METHOD BLANK: 1333153 Matrix: Water
Associated Lab Samples: 60163160001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/21/14 11:16	

LABORATORY CONTROL SAMPLE: 1333154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	105	90-110	

MATRIX SPIKE SAMPLE: 1333155

Parameter	Units	60163098002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.0	98	90-110	

MATRIX SPIKE SAMPLE: 1333156

Parameter	Units	60163126002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	14.9	10	23.5	86	90-110	M1

SAMPLE DUPLICATE: 1333157

Parameter	Units	60163148001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	733	743	1	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-222

Pace Project No.: 60163160

QC Batch:	WETA/28251	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60163160001		

METHOD BLANK: 1332196 Matrix: Water
Associated Lab Samples: 60163160001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/21/14 07:08	

LABORATORY CONTROL SAMPLE: 1332197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	50.3	101	90-110	

MATRIX SPIKE SAMPLE: 1332198

Parameter	Units	60162835005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	3040	1250	4150	89	90-110	M1

MATRIX SPIKE SAMPLE: 1332200

Parameter	Units	60163148001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	56700	25000	79600	91	90-110	

SAMPLE DUPLICATE: 1332199

Parameter	Units	60163031001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	54400	54400	0	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-222

Pace Project No.: 60163160

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 316-222

Pace Project No.: 60163160

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60163160001	316-222	EPA 200.7	MPRP/26213	EPA 200.7	ICP/20026
60163160001	316-222	EPA 200.7	MPRP/26231	EPA 200.7	ICP/20034
60163160001	316-222	EPA 245.1	MERP/8165	EPA 245.1	MERC/8116
60163160001	316-222	EPA 245.1	MERP/8166	EPA 245.1	MERC/8122
60163160001	316-222	EPA 625	OEXT/42819	EPA 625	MSSV/13638
60163160001	316-222	EPA 624 Low	MSV/59603		
60163160002	TRIP BLANK	EPA 624 Low	MSV/59603		
60163160001	316-222	EPA 1664A	WET/46316		
60163160001	316-222	EPA 1664A	WET/46331		
60163160001	316-222	SM 2540D	WET/46251		
60163160001	316-222	SM 4500-H+B	WET/46275		
60163160001	316-222	SM 5210B	WET/46221	SM 5210B	WET/46326
60163160001	316-222	EPA 350.1	WETA/28273		
60163160001	316-222	EPA 410.4	WETA/28251		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60163160
Barcode
60163160

Client Name: Bahr Engineering

Courier: Fed Ex [] UPS [] USPS [] Client [] Commercial [] Pace [] Other [x] x-roads

Tracking #: Pace Shipping Label Used? Yes [] No [x]

Custody Seal on Cooler/Box Present: Yes [x] No [] Seals intact: Yes [x] No []

Packing Material: Bubble Wrap [] Bubble Bags [x] Foam [x] None [] Other []

Thermometer Used: T-239 / T-194 Type of Ice: Wet [x] Blue [] None [] Samples received on ice, cooling process has begun.

Cooler Temperature: 3.0

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: 2/19/14

Temperature should be above freezing to 6°C

Table with 17 rows and 2 columns. Row 1: Chain of Custody present: [x] Yes [] No [] N/A. Row 2: Chain of Custody filled out: [x] Yes [] No [] N/A. Row 3: Chain of Custody relinquished: [x] Yes [] No [] N/A. Row 4: Sampler name & signature on COC: [x] Yes [] No [] N/A. Row 5: Samples arrived within holding time: [x] Yes [] No [] N/A. Row 6: Short Hold Time analyses (<72hr): [x] Yes [] No [] N/A. Row 7: Rush Turn Around Time requested: [] Yes [x] No [] N/A. Row 8: Sufficient volume: [x] Yes [] No [] N/A. Row 9: Correct containers used: [x] Yes [] No [] N/A. Row 10: Pace containers used: [x] Yes [] No [] N/A. Row 11: Containers intact: [x] Yes [] No [] N/A. Row 12: Unpreserved 5035A soils frozen w/in 48hrs? [] Yes [] No [x] N/A. Row 13: Filtered volume received for dissolved tests? [] Yes [] No [x] N/A. Row 14: Sample labels match COC: [x] Yes [] No [] N/A. Row 15: Includes date/time/ID/analyses Matrix: [] Yes [] No [] N/A. Row 16: All containers needing preservation have been checked: [x] Yes [] No [] N/A. Row 17: All containers needing preservation are found to be in compliance with EPA recommendation: [] Yes [x] No [] N/A. Row 18: Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics: [x] Yes [] No. Row 19: Trip Blank present: [x] Yes [] No [] N/A. Row 20: Pace Trip Blank lot # (if purchased): 071513-3. Row 21: Headspace in VOA vials (>6mm): [] Yes [x] No [] N/A. Row 22: Project sampled in USDA Regulated Area: [] Yes [] No [x] N/A. Row 23: List State: MO.

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date: 2/19/14

February 27, 2014

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

RE: Project: BRIDGETON LF 316-223R4
Pace Project No.: 60163286

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 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,



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 316-223R4

Pace Project No.: 60163286

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 316-223R4

Pace Project No.: 60163286

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60163286001	316-223R4	Water	02/19/14 14:30	02/20/14 01:25
60163286002	TRIP BLANK	Water	02/19/14 00:00	02/20/14 01:25

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-223R4

Pace Project No.: 60163286

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60163286001	316-223R4	EPA 200.7	TJT	15
		EPA 200.7	TJT	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	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	JMC1	1
		60163286002	TRIP BLANK	EPA 624 Low

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-223R4

Pace Project No.: 60163286

Sample: 316-223R4 Lab ID: 60163286001 Collected: 02/19/14 14:30 Received: 02/20/14 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	12900	ug/L	750	2	02/21/14 11:50	02/24/14 13:11	7429-90-5	
Antimony	102	ug/L	50.0	1	02/21/14 11:50	02/24/14 13:04	7440-36-0	
Arsenic	1240	ug/L	50.0	1	02/21/14 11:50	02/24/14 13:04	7440-38-2	
Beryllium	ND	ug/L	5.0	1	02/21/14 11:50	02/24/14 13:04	7440-41-7	
Cadmium	ND	ug/L	25.0	1	02/21/14 11:50	02/24/14 13:04	7440-43-9	
Chromium	342	ug/L	25.0	1	02/21/14 11:50	02/24/14 13:04	7440-47-3	
Cobalt	64.4	ug/L	25.0	1	02/21/14 11:50	02/24/14 13:04	7440-48-4	
Copper	ND	ug/L	50.0	1	02/21/14 11:50	02/24/14 13:04	7440-50-8	
Iron	1190000	ug/L	250	1	02/21/14 11:50	02/24/14 13:04	7439-89-6	
Lead	197	ug/L	25.0	1	02/21/14 11:50	02/24/14 13:04	7439-92-1	
Nickel	173	ug/L	25.0	1	02/21/14 11:50	02/24/14 13:04	7440-02-0	
Selenium	91.0	ug/L	75.0	1	02/21/14 11:50	02/24/14 13:04	7782-49-2	
Silver	ND	ug/L	35.0	1	02/21/14 11:50	02/24/14 13:04	7440-22-4	
Thallium	ND	ug/L	100	1	02/21/14 11:50	02/24/14 13:04	7440-28-0	
Zinc	11100	ug/L	500	2	02/21/14 11:50	02/24/14 13:11	7440-66-6	
200.7 Metals, Dissolved (LF) Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Aluminum, Dissolved	3310	ug/L	750	2	02/24/14 14:15	02/25/14 10:27	7429-90-5	
Antimony, Dissolved	64.6	ug/L	50.0	1	02/24/14 14:15	02/25/14 10:25	7440-36-0	
Arsenic, Dissolved	912	ug/L	50.0	1	02/24/14 14:15	02/25/14 10:25	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	02/24/14 14:15	02/25/14 10:25	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	02/24/14 14:15	02/25/14 10:25	7440-43-9	
Chromium, Dissolved	247	ug/L	25.0	1	02/24/14 14:15	02/25/14 10:25	7440-47-3	
Cobalt, Dissolved	41.1	ug/L	25.0	1	02/24/14 14:15	02/25/14 10:25	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	02/24/14 14:15	02/25/14 10:25	7440-50-8	
Iron, Dissolved	764000	ug/L	250	1	02/24/14 14:15	02/25/14 10:25	7439-89-6	
Lead, Dissolved	119	ug/L	25.0	1	02/24/14 14:15	02/25/14 10:25	7439-92-1	
Nickel, Dissolved	115	ug/L	25.0	1	02/24/14 14:15	02/25/14 10:25	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	02/24/14 14:15	02/25/14 10:25	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	02/24/14 14:15	02/25/14 10:25	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	02/24/14 14:15	02/25/14 10:25	7440-28-0	
Zinc, Dissolved	8700	ug/L	500	2	02/24/14 14:15	02/25/14 10:27	7440-66-6	
245.1 Mercury Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury	12.7	ug/L	6.0	1	02/24/14 09:30	02/24/14 14:55	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	02/24/14 14:00	02/25/14 10:24	7439-97-6	
625 MSSV Analytical Method: EPA 625 Preparation Method: EPA 625								
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	02/21/14 00:00	02/24/14 13:12	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	02/21/14 00:00	02/24/14 13:12	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	02/21/14 00:00	02/24/14 13:12	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	02/21/14 00:00	02/24/14 13:12	67-72-1	
Naphthalene	5890	ug/L	1000	2	02/21/14 00:00	02/24/14 13:12	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	02/21/14 00:00	02/24/14 13:12	98-95-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-223R4

Pace Project No.: 60163286

Sample: 316-223R4	Lab ID: 60163286001	Collected: 02/19/14 14:30	Received: 02/20/14 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	02/21/14 00:00	02/24/14 13:12	87-86-5	
Phenol	14900 ug/L		1000	2	02/21/14 00:00	02/24/14 13:12	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	02/21/14 00:00	02/24/14 13:12	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	02/21/14 00:00	02/24/14 13:12	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	209 %		33-120	2	02/21/14 00:00	02/24/14 13:12	4165-60-0	S0
2-Fluorobiphenyl (S)	68 %		39-120	2	02/21/14 00:00	02/24/14 13:12	321-60-8	
Terphenyl-d14 (S)	75 %		45-120	2	02/21/14 00:00	02/24/14 13:12	1718-51-0	
Phenol-d6 (S)	34 %		11-120	2	02/21/14 00:00	02/24/14 13:12	13127-88-3	
2-Fluorophenol (S)	43 %		17-120	2	02/21/14 00:00	02/24/14 13:12	367-12-4	
2,4,6-Tribromophenol (S)	82 %		39-120	2	02/21/14 00:00	02/24/14 13:12	118-79-6	
624 Volatile Organics								
Analytical Method: EPA 624 Low								
Acetone	179000 ug/L		2000	200		02/25/14 10:54	67-64-1	N2
Benzene	ND ug/L		200	200		02/25/14 10:54	71-43-2	
Bromodichloromethane	ND ug/L		200	200		02/25/14 10:54	75-27-4	
Bromoform	ND ug/L		200	200		02/25/14 10:54	75-25-2	
Bromomethane	ND ug/L		1000	200		02/25/14 10:54	74-83-9	
2-Butanone (MEK)	97300 ug/L		2000	200		02/25/14 10:54	78-93-3	N2
Carbon tetrachloride	ND ug/L		200	200		02/25/14 10:54	56-23-5	
Chloroethane	ND ug/L		200	200		02/25/14 10:54	75-00-3	
Chloroform	ND ug/L		200	200		02/25/14 10:54	67-66-3	
1,4-Dichlorobenzene	1970 ug/L		200	200		02/25/14 10:54	106-46-7	
1,2-Dichloroethane	ND ug/L		200	200		02/25/14 10:54	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200	200		02/25/14 10:54	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		200	200		02/25/14 10:54	156-60-5	
Ethylbenzene	425 ug/L		200	200		02/25/14 10:54	100-41-4	
Methylene chloride	ND ug/L		200	200		02/25/14 10:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	6230 ug/L		2000	200		02/25/14 10:54	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		02/25/14 10:54	79-34-5	N2
Tetrachloroethene	ND ug/L		200	200		02/25/14 10:54	127-18-4	
Toluene	ND ug/L		200	200		02/25/14 10:54	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		02/25/14 10:54	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		02/25/14 10:54	79-00-5	
Trichloroethene	ND ug/L		200	200		02/25/14 10:54	79-01-6	
Vinyl chloride	ND ug/L		200	200		02/25/14 10:54	75-01-4	
Xylene (Total)	1670 ug/L		600	200		02/25/14 10:54	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101 %		80-120	200		02/25/14 10:54	460-00-4	
Toluene-d8 (S)	108 %		80-120	200		02/25/14 10:54	2037-26-5	
1,2-Dichloroethane-d4 (S)	92 %		80-120	200		02/25/14 10:54	17060-07-0	
Preservation pH	6.0		1.0	200		02/25/14 10:54		
HEM, Oil and Grease								
Analytical Method: EPA 1664A								
Oil and Grease	1740 mg/L		5.0	1		02/25/14 11:06		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-223R4

Pace Project No.: 60163286

Sample: 316-223R4		Lab ID: 60163286001	Collected: 02/19/14 14:30	Received: 02/20/14 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	24.2	mg/L	5.0	1		02/26/14 10:16		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	4640	mg/L	5.0	1		02/24/14 07:47		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.3	Std. Units	0.10	1		02/22/14 09:31		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	20400	mg/L	2.0	1	02/21/14 10:52	02/26/14 15:10		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	713	mg/L	20.0	200		02/21/14 11:41	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	53500	mg/L	5000	500		02/25/14 08:47		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-223R4

Pace Project No.: 60163286

Sample: TRIP BLANK		Lab ID: 60163286002	Collected: 02/19/14 00:00	Received: 02/20/14 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		02/25/14 11:10	67-64-1	N2
Benzene	ND ug/L		1.0	1		02/25/14 11:10	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		02/25/14 11:10	75-27-4	
Bromoform	ND ug/L		1.0	1		02/25/14 11:10	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/25/14 11:10	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		02/25/14 11:10	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		02/25/14 11:10	56-23-5	
Chloroethane	ND ug/L		1.0	1		02/25/14 11:10	75-00-3	
Chloroform	ND ug/L		1.0	1		02/25/14 11:10	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		02/25/14 11:10	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		02/25/14 11:10	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		02/25/14 11:10	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		02/25/14 11:10	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		02/25/14 11:10	100-41-4	
Methylene chloride	ND ug/L		1.0	1		02/25/14 11:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		02/25/14 11:10	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		02/25/14 11:10	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		02/25/14 11:10	127-18-4	
Toluene	ND ug/L		1.0	1		02/25/14 11:10	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		02/25/14 11:10	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		02/25/14 11:10	79-00-5	
Trichloroethene	ND ug/L		1.0	1		02/25/14 11:10	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		02/25/14 11:10	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		02/25/14 11:10	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	103 %		80-120	1		02/25/14 11:10	460-00-4	
Toluene-d8 (S)	107 %		80-120	1		02/25/14 11:10	2037-26-5	
1,2-Dichloroethane-d4 (S)	93 %		80-120	1		02/25/14 11:10	17060-07-0	
Preservation pH	6.0		1.0	1		02/25/14 11:10		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-223R4

Pace Project No.: 60163286

QC Batch: MERP/8165

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60163286001

METHOD BLANK: 1334271

Matrix: Water

Associated Lab Samples: 60163286001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/24/14 14:39	

LABORATORY CONTROL SAMPLE: 1334272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334273 1334274

Parameter	Units	60163148001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Spike Conc.	MSD Result						
Mercury	ug/L	ND	150	150	152	151	102	100	70-130	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334275 1334276

Parameter	Units	60163516001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Spike Conc.	MSD Result						
Mercury	ug/L	ND	150	190	150	168	127	112	70-130	12	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-223R4

Pace Project No.: 60163286

QC Batch: MERP/8166

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60163286001

METHOD BLANK: 1334467

Matrix: Water

Associated Lab Samples: 60163286001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/25/14 10:09	

LABORATORY CONTROL SAMPLE: 1334468

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.9	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334469 1334470

Parameter	Units	60163148001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Mercury, Dissolved	ug/L	ND	150	150	158	153	106	102	70-130	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334471 1334472

Parameter	Units	60163516001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Mercury, Dissolved	ug/L	ND	150	150	161	158	107	105	70-130	2	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-223R4
Pace Project No.: 60163286

QC Batch: MPRP/26213 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60163286001

METHOD BLANK: 1333098 Matrix: Water
Associated Lab Samples: 60163286001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	02/24/14 12:36	
Antimony	ug/L	ND	10.0	02/24/14 12:36	
Arsenic	ug/L	ND	10.0	02/24/14 12:36	
Beryllium	ug/L	ND	1.0	02/24/14 12:36	
Cadmium	ug/L	ND	5.0	02/24/14 12:36	
Chromium	ug/L	ND	5.0	02/24/14 12:36	
Cobalt	ug/L	ND	5.0	02/24/14 12:36	
Copper	ug/L	ND	10.0	02/24/14 12:36	
Iron	ug/L	ND	50.0	02/24/14 12:36	
Lead	ug/L	ND	5.0	02/24/14 12:36	
Nickel	ug/L	ND	5.0	02/24/14 12:36	
Selenium	ug/L	ND	15.0	02/24/14 12:36	
Silver	ug/L	ND	7.0	02/24/14 12:36	
Thallium	ug/L	ND	20.0	02/24/14 12:36	
Zinc	ug/L	ND	50.0	02/24/14 12:36	

LABORATORY CONTROL SAMPLE: 1333099

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10100	101	85-115	
Antimony	ug/L	1000	1040	104	85-115	
Arsenic	ug/L	1000	1020	102	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1050	105	85-115	
Chromium	ug/L	1000	1020	102	85-115	
Cobalt	ug/L	1000	1060	106	85-115	
Copper	ug/L	1000	1020	102	85-115	
Iron	ug/L	10000	9960	100	85-115	
Lead	ug/L	1000	1080	108	85-115	
Nickel	ug/L	1000	1070	107	85-115	
Selenium	ug/L	1000	1040	104	85-115	
Silver	ug/L	500	508	102	85-115	
Thallium	ug/L	1000	1080	108	85-115	
Zinc	ug/L	1000	1060	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1333100 1333101

Parameter	Units	60163148001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Aluminum	ug/L	8740	50000	50000	50000	64200	63900	111	110	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-223R4

Pace Project No.: 60163286

Parameter	Units	60163148001		1333100		1333101		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Antimony	ug/L	113	5000	5000	5620	5660	110	111	70-130	1	7			
Arsenic	ug/L	1360	5000	5000	7200	7200	117	117	70-130	0	10			
Beryllium	ug/L	ND	5000	5000	4930	4980	99	100	70-130	1	7			
Cadmium	ug/L	27.2	5000	5000	5660	5700	113	114	70-130	1	10			
Chromium	ug/L	311	5000	5000	5340	5340	100	101	70-130	0	10			
Cobalt	ug/L	50.8	5000	5000	5100	5140	101	102	70-130	1	6			
Copper	ug/L	ND	5000	5000	5360	5420	107	108	70-130	1	11			
Iron	ug/L	955000	50000	50000	964000	963000	19	16	70-130	0	10	M1		
Lead	ug/L	118	5000	5000	4860	4890	95	95	70-130	1	10			
Nickel	ug/L	135	5000	5000	5100	5140	99	100	70-130	1	10			
Selenium	ug/L	90.4	5000	5000	6480	6500	128	128	70-130	0	10			
Silver	ug/L	ND	2500	2500	2750	2750	110	109	70-130	0	10			
Thallium	ug/L	ND	5000	5000	4300	4330	86	87	70-130	1	6			
Zinc	ug/L	8690	5000	5000	13400	13400	94	93	70-130	0	11			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-223R4
Pace Project No.: 60163286

QC Batch: MPRP/26231 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60163286001

METHOD BLANK: 1334434 Matrix: Water
Associated Lab Samples: 60163286001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	02/25/14 09:55	
Antimony, Dissolved	ug/L	ND	10.0	02/25/14 09:55	
Arsenic, Dissolved	ug/L	ND	10.0	02/25/14 09:55	
Beryllium, Dissolved	ug/L	ND	1.0	02/25/14 09:55	
Cadmium, Dissolved	ug/L	ND	5.0	02/25/14 09:55	
Chromium, Dissolved	ug/L	ND	5.0	02/25/14 09:55	
Cobalt, Dissolved	ug/L	ND	5.0	02/25/14 09:55	
Copper, Dissolved	ug/L	ND	10.0	02/25/14 09:55	
Iron, Dissolved	ug/L	ND	50.0	02/25/14 09:55	
Lead, Dissolved	ug/L	ND	5.0	02/25/14 09:55	
Nickel, Dissolved	ug/L	ND	5.0	02/25/14 09:55	
Selenium, Dissolved	ug/L	ND	15.0	02/25/14 09:55	
Silver, Dissolved	ug/L	ND	7.0	02/25/14 09:55	
Thallium, Dissolved	ug/L	ND	20.0	02/25/14 09:55	
Zinc, Dissolved	ug/L	ND	50.0	02/25/14 09:55	

LABORATORY CONTROL SAMPLE: 1334435

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	1030	103	85-115	
Arsenic, Dissolved	ug/L	1000	969	97	85-115	
Beryllium, Dissolved	ug/L	1000	1040	104	85-115	
Cadmium, Dissolved	ug/L	1000	1030	103	85-115	
Chromium, Dissolved	ug/L	1000	1030	103	85-115	
Cobalt, Dissolved	ug/L	1000	1040	104	85-115	
Copper, Dissolved	ug/L	1000	1010	101	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	1020	102	85-115	
Silver, Dissolved	ug/L	500	501	100	85-115	
Thallium, Dissolved	ug/L	1000	1080	108	85-115	
Zinc, Dissolved	ug/L	1000	1000	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334436 1334437

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result						
Aluminum, Dissolved	ug/L	2460	50000	50000	55700	106	107	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-223R4

Pace Project No.: 60163286

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334436												1334437	
Parameter	Units	60163148001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual	
		Result	Conc.	Spike	Spike								Result
Antimony, Dissolved	ug/L	57.8	5000	5000	5000	5520	5550	109	110	70-130	1	7	
Arsenic, Dissolved	ug/L	1090	5000	5000	5000	6550	6460	109	107	70-130	1	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	5000	5060	5120	101	102	70-130	1	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5000	5560	5580	111	112	70-130	0	10	
Chromium, Dissolved	ug/L	252	5000	5000	5000	5320	5310	101	101	70-130	0	10	
Cobalt, Dissolved	ug/L	40.9	5000	5000	5000	4960	4960	98	98	70-130	0	6	
Copper, Dissolved	ug/L	ND	5000	5000	5000	5300	5320	106	106	70-130	0	11	
Iron, Dissolved	ug/L	740000	50000	50000	50000	788000	761000	95	42	70-130	3	10 M1	
Lead, Dissolved	ug/L	74.0	5000	5000	5000	4790	4800	94	95	70-130	0	10	
Nickel, Dissolved	ug/L	108	5000	5000	5000	5080	5090	99	100	70-130	0	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5000	6200	6200	123	122	70-130	0	10	
Silver, Dissolved	ug/L	ND	2500	2500	2500	2700	2700	108	108	70-130	0	10	
Thallium, Dissolved	ug/L	ND	5000	5000	5000	4360	4410	87	88	70-130	1	6	
Zinc, Dissolved	ug/L	7070	5000	5000	5000	11700	11500	93	89	70-130	1	11	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334438												1334439	
Parameter	Units	60163516001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual	
		Result	Conc.	Spike	Spike								Result
Aluminum, Dissolved	ug/L	2840	50000	50000	50000	56200	56500	107	107	70-130	0	8	
Antimony, Dissolved	ug/L	77.2	5000	5000	5000	5460	5440	108	107	70-130	0	7	
Arsenic, Dissolved	ug/L	824	5000	5000	5000	6130	6140	106	106	70-130	0	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	5000	5090	5090	102	102	70-130	0	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5000	5530	5520	111	110	70-130	0	10	
Chromium, Dissolved	ug/L	253	5000	5000	5000	5270	5300	100	101	70-130	1	10	
Cobalt, Dissolved	ug/L	39.9	5000	5000	5000	4850	4850	96	96	70-130	0	6	
Copper, Dissolved	ug/L	ND	5000	5000	5000	5260	5260	105	105	70-130	0	11	
Iron, Dissolved	ug/L	810000	50000	50000	50000	844000	816000	67	13	70-130	3	10 M1	
Lead, Dissolved	ug/L	99.7	5000	5000	5000	4730	4730	93	93	70-130	0	10	
Nickel, Dissolved	ug/L	111	5000	5000	5000	5040	5030	98	98	70-130	0	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5000	6170	6090	122	120	70-130	1	10	
Silver, Dissolved	ug/L	ND	2500	2500	2500	2650	2670	106	107	70-130	0	10	
Thallium, Dissolved	ug/L	ND	5000	5000	5000	4360	4370	87	87	70-130	0	6	
Zinc, Dissolved	ug/L	8540	5000	5000	5000	13000	12600	90	81	70-130	4	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-223R4

Pace Project No.: 60163286

QC Batch: MSV/59603 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60163286001, 60163286002

METHOD BLANK: 1334739 Matrix: Water

Associated Lab Samples: 60163286001, 60163286002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/25/14 10:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/25/14 10:06	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	02/25/14 10:06	
1,2-Dichloroethane	ug/L	ND	1.0	02/25/14 10:06	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/25/14 10:06	
2-Butanone (MEK)	ug/L	ND	10.0	02/25/14 10:06	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/25/14 10:06	N2
Acetone	ug/L	ND	10.0	02/25/14 10:06	N2
Benzene	ug/L	ND	1.0	02/25/14 10:06	
Bromodichloromethane	ug/L	ND	1.0	02/25/14 10:06	
Bromoform	ug/L	ND	1.0	02/25/14 10:06	
Bromomethane	ug/L	ND	5.0	02/25/14 10:06	
Carbon tetrachloride	ug/L	ND	1.0	02/25/14 10:06	
Chloroethane	ug/L	ND	1.0	02/25/14 10:06	
Chloroform	ug/L	ND	1.0	02/25/14 10:06	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/25/14 10:06	N2
Ethylbenzene	ug/L	ND	1.0	02/25/14 10:06	
Methylene chloride	ug/L	ND	1.0	02/25/14 10:06	
Tetrachloroethene	ug/L	ND	1.0	02/25/14 10:06	
Toluene	ug/L	ND	1.0	02/25/14 10:06	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/25/14 10:06	
Trichloroethene	ug/L	ND	1.0	02/25/14 10:06	
Vinyl chloride	ug/L	ND	1.0	02/25/14 10:06	
Xylene (Total)	ug/L	ND	3.0	02/25/14 10:06	N2
1,2-Dichloroethane-d4 (S)	%	91	80-120	02/25/14 10:06	
4-Bromofluorobenzene (S)	%	104	80-120	02/25/14 10:06	
Toluene-d8 (S)	%	108	80-120	02/25/14 10:06	

LABORATORY CONTROL SAMPLE: 1334740

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.0	105	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	21.8	109	67-127	N2
1,1,2-Trichloroethane	ug/L	20	21.9	110	67-124	
1,2-Dichloroethane	ug/L	20	18.8	94	70-126	
1,4-Dichlorobenzene	ug/L	20	20.7	103	74-120	
2-Butanone (MEK)	ug/L	100	102	102	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	120	120	59-131	N2
Acetone	ug/L	100	98.5	98	38-134	N2
Benzene	ug/L	20	19.1	96	75-120	
Bromodichloromethane	ug/L	20	21.3	107	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-223R4

Pace Project No.: 60163286

LABORATORY CONTROL SAMPLE: 1334740

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	22.5	112	65-127	
Bromomethane	ug/L	20	21.4	107	13-157	
Carbon tetrachloride	ug/L	20	19.2	96	70-131	
Chloroethane	ug/L	20	20.3	102	47-133	
Chloroform	ug/L	20	22.0	110	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.9	105	68-127	N2
Ethylbenzene	ug/L	20	19.2	96	74-122	
Methylene chloride	ug/L	20	22.1	110	64-129	
Tetrachloroethene	ug/L	20	18.1	90	73-125	
Toluene	ug/L	20	20.5	103	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.9	105	66-129	
Trichloroethene	ug/L	20	19.8	99	71-123	
Vinyl chloride	ug/L	20	19.7	98	43-129	
Xylene (Total)	ug/L	60	58.0	97	75-121	N2
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			103	80-120	

MATRIX SPIKE SAMPLE: 1334741

Parameter	Units	60163516001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3940	98	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3890	93	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4440	111	52-143	
1,2-Dichloroethane	ug/L	ND	4000	3610	90	49-144	
1,4-Dichlorobenzene	ug/L	723	4000	4510	95	33-140	
2-Butanone (MEK)	ug/L	63900	20000	99600	179	40-160	M1,N2
4-Methyl-2-pentanone (MIBK)	ug/L	3180	20000	28300	125	40-160	N2
Acetone	ug/L	129000	20000	145000	82	10-160	N2
Benzene	ug/L	ND	4000	3880	97	37-151	
Bromodichloromethane	ug/L	ND	4000	4110	103	35-142	
Bromoform	ug/L	ND	4000	4470	112	45-142	
Bromomethane	ug/L	ND	4000	3980	99	10-158	
Carbon tetrachloride	ug/L	ND	4000	4240	106	70-140	
Chloroethane	ug/L	ND	4000	3940	98	19-152	
Chloroform	ug/L	ND	4000	4220	105	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	4130	103	34-147	N2
Ethylbenzene	ug/L	ND	4000	3760	93	40-142	
Methylene chloride	ug/L	ND	4000	4500	113	31-144	
Tetrachloroethene	ug/L	ND	4000	3830	96	64-148	
Toluene	ug/L	ND	4000	4210	105	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4090	102	54-151	
Trichloroethene	ug/L	ND	4000	4110	103	71-149	
Vinyl chloride	ug/L	ND	4000	3970	99	22-146	
Xylene (Total)	ug/L	ND	12000	11900	99	37-144	N2
1,2-Dichloroethane-d4 (S)	%				95	80-120	
4-Bromofluorobenzene (S)	%				96	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-223R4

Pace Project No.: 60163286

MATRIX SPIKE SAMPLE:		1334741					
Parameter	Units	60163516001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S) Preservation pH	%	6.0	6.0	6.0	105	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-223R4

Pace Project No.: 60163286

QC Batch:	OEXT/42819	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60163286001		

METHOD BLANK: 1332960 Matrix: Water

Associated Lab Samples: 60163286001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/24/14 09:25	
2,4,6-Trichlorophenol	ug/L	ND	5.0	02/24/14 09:25	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	02/24/14 09:25	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/24/14 09:25	
Hexachlorocyclopentadiene	ug/L	ND	5.0	02/24/14 09:25	
Hexachloroethane	ug/L	ND	5.0	02/24/14 09:25	
Naphthalene	ug/L	ND	5.0	02/24/14 09:25	
Nitrobenzene	ug/L	ND	5.0	02/24/14 09:25	
Pentachlorophenol	ug/L	ND	5.0	02/24/14 09:25	
Phenol	ug/L	ND	5.0	02/24/14 09:25	
2,4,6-Tribromophenol (S)	%	91	39-120	02/24/14 09:25	
2-Fluorobiphenyl (S)	%	72	39-120	02/24/14 09:25	
2-Fluorophenol (S)	%	44	17-120	02/24/14 09:25	
Nitrobenzene-d5 (S)	%	88	33-120	02/24/14 09:25	
Phenol-d6 (S)	%	28	11-120	02/24/14 09:25	
Terphenyl-d14 (S)	%	89	45-120	02/24/14 09:25	

LABORATORY CONTROL SAMPLE: 1332961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	38.2	76	46-120	
2,4,6-Trichlorophenol	ug/L	50	36.3	73	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	46.8	94	40-133	
Hexachloro-1,3-butadiene	ug/L	50	43.7	87	44-116	
Hexachlorocyclopentadiene	ug/L	100	66.9	67	24-120	
Hexachloroethane	ug/L	50	38.6	77	43-113	
Naphthalene	ug/L	50	39.0	78	48-120	
Nitrobenzene	ug/L	50	41.1	82	48-120	
Pentachlorophenol	ug/L	50	40.1	80	47-120	
Phenol	ug/L	50	13.7	27	16-112	
2,4,6-Tribromophenol (S)	%			92	39-120	
2-Fluorobiphenyl (S)	%			72	39-120	
2-Fluorophenol (S)	%			44	17-120	
Nitrobenzene-d5 (S)	%			84	33-120	
Phenol-d6 (S)	%			29	11-120	
Terphenyl-d14 (S)	%			85	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-223R4

Pace Project No.: 60163286

MATRIX SPIKE SAMPLE:		1332962					
Parameter	Units	60163148001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3220	64	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	3340	67	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	3420J	68	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3550	71	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	5780	58	11-120	
Hexachloroethane	ug/L	ND	5000	3780	76	40-113	
Naphthalene	ug/L	1750	5000	4260	50	45-120	
Nitrobenzene	ug/L	ND	5000	5890	118	38-120	
Pentachlorophenol	ug/L	ND	5000	3420	68	43-135	
Phenol	ug/L	12500	5000	11400	-23	13-112	M1
2,4,6-Tribromophenol (S)	%				78	39-120	
2-Fluorobiphenyl (S)	%				63	39-120	
2-Fluorophenol (S)	%				39	17-120	
Nitrobenzene-d5 (S)	%				126	33-120	S0
Phenol-d6 (S)	%				29	11-120	
Terphenyl-d14 (S)	%				71	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-223R4

Pace Project No.: 60163286

QC Batch:	WET/46316	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60163286001		

METHOD BLANK: 1334861 Matrix: Water
Associated Lab Samples: 60163286001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/25/14 11:04	

LABORATORY CONTROL SAMPLE: 1334862

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	36.9	92	78-114	

MATRIX SPIKE SAMPLE: 1334863

Parameter	Units	60163148001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	1120	174	1290	98	78-114	

SAMPLE DUPLICATE: 1334864

Parameter	Units	60163286001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1740	1600	8	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-223R4

Pace Project No.: 60163286

QC Batch:	WET/46331	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60163286001		

METHOD BLANK: 1335166 Matrix: Water
Associated Lab Samples: 60163286001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	02/26/14 10:15	

LABORATORY CONTROL SAMPLE: 1335167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	20.2	101	64-132	

MATRIX SPIKE SAMPLE: 1335168

Parameter	Units	60163148001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	14.8	87	110	110	64-132	

SAMPLE DUPLICATE: 1335169

Parameter	Units	60163286001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	24.2	29.2	19	34	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-223R4

Pace Project No.: 60163286

QC Batch: WET/46284

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60163286001

METHOD BLANK: 1334159

Matrix: Water

Associated Lab Samples: 60163286001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	02/24/14 07:43	

SAMPLE DUPLICATE: 1334160

Parameter	Units	60163187003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	192	199	3	10	

SAMPLE DUPLICATE: 1334161

Parameter	Units	60163268002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	14.0	15.0	7	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-223R4

Pace Project No.: 60163286

QC Batch: WET/46279 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60163286001

SAMPLE DUPLICATE: 1333838

Parameter	Units	60163285001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.9	6.9	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-223R4

Pace Project No.: 60163286

QC Batch: WET/46257

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60163286001

METHOD BLANK: 1333046

Matrix: Water

Associated Lab Samples: 60163286001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	02/26/14 14:22	

LABORATORY CONTROL SAMPLE: 1333047

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	171	86	85-115	

SAMPLE DUPLICATE: 1333048

Parameter	Units	60163262002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	4.1	4.0	2	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-223R4

Pace Project No.: 60163286

QC Batch:	WETA/28273	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60163286001		

METHOD BLANK: 1333153 Matrix: Water
Associated Lab Samples: 60163286001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/21/14 11:16	

LABORATORY CONTROL SAMPLE: 1333154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	105	90-110	

MATRIX SPIKE SAMPLE: 1333155

Parameter	Units	60163098002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.0	98	90-110	

MATRIX SPIKE SAMPLE: 1333156

Parameter	Units	60163126002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	14.9	10	23.5	86	90-110	M1

SAMPLE DUPLICATE: 1333157

Parameter	Units	60163148001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	733	743	1	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-223R4

Pace Project No.: 60163286

QC Batch:	WETA/28284	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60163286001		

METHOD BLANK: 1333716 Matrix: Water
Associated Lab Samples: 60163286001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/25/14 08:35	

LABORATORY CONTROL SAMPLE: 1333717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	49.4	99	90-110	

MATRIX SPIKE SAMPLE: 1333718

Parameter	Units	60163014001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	231	100	310	79	90-110	M1

MATRIX SPIKE SAMPLE: 1333720

Parameter	Units	60163075001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	56.5	50	99.4	86	90-110	M1

SAMPLE DUPLICATE: 1333719

Parameter	Units	60162878001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	38.3	40.6	6	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-223R4

Pace Project No.: 60163286

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-223R4

Pace Project No.: 60163286

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60163286001	316-223R4	EPA 200.7	MPRP/26213	EPA 200.7	ICP/20026
60163286001	316-223R4	EPA 200.7	MPRP/26231	EPA 200.7	ICP/20034
60163286001	316-223R4	EPA 245.1	MERP/8165	EPA 245.1	MERC/8116
60163286001	316-223R4	EPA 245.1	MERP/8166	EPA 245.1	MERC/8122
60163286001	316-223R4	EPA 625	OEXT/42819	EPA 625	MSSV/13638
60163286001	316-223R4	EPA 624 Low	MSV/59603		
60163286002	TRIP BLANK	EPA 624 Low	MSV/59603		
60163286001	316-223R4	EPA 1664A	WET/46316		
60163286001	316-223R4	EPA 1664A	WET/46331		
60163286001	316-223R4	SM 2540D	WET/46284		
60163286001	316-223R4	SM 4500-H+B	WET/46279		
60163286001	316-223R4	SM 5210B	WET/46257	SM 5210B	WET/46360
60163286001	316-223R4	EPA 350.1	WETA/28273		
60163286001	316-223R4	EPA 410.4	WETA/28284		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60163286
60163286

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 2PAU

Thermometer Used: T-239 T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 2.4

Temperature should be above freezing to 6°C

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: 2/20/14

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BoDPAH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Includes date/time/ID/analyses Matrix: <u>WT</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>Added 2.5 ml of HNO3 to BPP3N. pH 6.0/4.0 Added 2.0 ml of H2SO4 to BPP3S. pH 6.0/2.0</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, coliform, TOC, <u>O&B</u> , WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>P</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative <u>12513</u> <u>12514</u>
Pace Trip Blank lot # (if purchased): <u>071513-7</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MO</u>

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 2/20/14



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:		Section B Required Project Information:		Section C Invoice Information:		Regulatory Agency	
Company: BARR ENGINEERING		Report To: ED GALBRAITH/BARR		Attention: AMY HARGROVE/BRIAN POWER		Missouri	
Address:		Copy To: SCOTT FEDAK/FEEZOR		Company Name: REPUBLIC SERVICES		State / Location	
		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			

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 Oil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Y/N	Requested Analysis Filtered (Y/N)													Residual Chlorine (Y/N)				
						START		END				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								
						DATE	TIME	DATE	TIME																															
1	316-223R4 2A64U 1B33U 2A635	OT	G			02/19/14	1430	5064U		14	10	4	1	0	1B33S			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			1B33N 2B32U 2A64U 102	
2	TRIP BLANK									2	2																													
3																																								
4																																								
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10																																								
11																																								
12																																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
SITE CONTACT: BILL ABERNATHY 314-502-1299	A Crook / Faenger Engin.	2/19/14	1615	re reports to clients plus past	2/19/14	1615			
SITE ADDRESS: BRIDGETON LF					2/20/14	0125	2.4	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:	[Signature]				
DATE Signed:	02-19-14				

February 28, 2014

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

RE: Project: BRIDGETON LF 316-224R1
Pace Project No.: 60163416

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 21, 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 316-224R1

Pace Project No.: 60163416

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 316-224R1

Pace Project No.: 60163416

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60163416001	316-224R1	Water	02/20/14 09:45	02/21/14 01:05
60163416002	TRIP BLANK	Water	02/20/14 09:45	02/21/14 01:05

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-224R1

Pace Project No.: 60163416

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60163416001	316-224R1	EPA 200.7	JGP, TJT	15
		EPA 200.7	TJT	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	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	RAH	1
		SM 5210B	RAH	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60163416002	TRIP BLANK	EPA 624 Low

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-224R1

Pace Project No.: 60163416

Sample: 316-224R1		Lab ID: 60163416001	Collected: 02/20/14 09:45	Received: 02/21/14 01:05	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	7530 ug/L		750	2	02/27/14 08:55	02/28/14 12:00	7429-90-5	
Antimony	83.4 ug/L		50.0	1	02/27/14 08:55	02/27/14 15:34	7440-36-0	
Arsenic	995 ug/L		50.0	1	02/27/14 08:55	02/27/14 15:34	7440-38-2	
Beryllium	ND ug/L		5.0	1	02/27/14 08:55	02/28/14 11:58	7440-41-7	
Cadmium	ND ug/L		25.0	1	02/27/14 08:55	02/27/14 15:34	7440-43-9	
Chromium	333 ug/L		25.0	1	02/27/14 08:55	02/27/14 15:34	7440-47-3	
Cobalt	48.6 ug/L		25.0	1	02/27/14 08:55	02/27/14 15:34	7440-48-4	
Copper	ND ug/L		50.0	1	02/27/14 08:55	02/27/14 15:34	7440-50-8	
Iron	111000 ug/L		250	1	02/27/14 08:55	02/28/14 11:58	7439-89-6	
Lead	157 ug/L		25.0	1	02/27/14 08:55	02/27/14 15:34	7439-92-1	
Nickel	147 ug/L		25.0	1	02/27/14 08:55	02/27/14 15:34	7440-02-0	
Selenium	79.9 ug/L		75.0	1	02/27/14 08:55	02/27/14 15:34	7782-49-2	
Silver	ND ug/L		35.0	1	02/27/14 08:55	02/27/14 15:34	7440-22-4	
Thallium	ND ug/L		100	1	02/27/14 08:55	02/27/14 15:34	7440-28-0	
Zinc	9430 ug/L		500	2	02/27/14 08:55	02/28/14 12:00	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	3130 ug/L		750	2	02/24/14 14:15	02/25/14 10:32	7429-90-5	
Antimony, Dissolved	59.6 ug/L		50.0	1	02/24/14 14:15	02/25/14 10:30	7440-36-0	
Arsenic, Dissolved	898 ug/L		50.0	1	02/24/14 14:15	02/25/14 10:30	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	02/24/14 14:15	02/25/14 10:30	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	02/24/14 14:15	02/25/14 10:30	7440-43-9	
Chromium, Dissolved	249 ug/L		25.0	1	02/24/14 14:15	02/25/14 10:30	7440-47-3	
Cobalt, Dissolved	39.9 ug/L		25.0	1	02/24/14 14:15	02/25/14 10:30	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	02/24/14 14:15	02/25/14 10:30	7440-50-8	
Iron, Dissolved	830000 ug/L		250	1	02/24/14 14:15	02/25/14 10:30	7439-89-6	
Lead, Dissolved	111 ug/L		25.0	1	02/24/14 14:15	02/25/14 10:30	7439-92-1	
Nickel, Dissolved	119 ug/L		25.0	1	02/24/14 14:15	02/25/14 10:30	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	02/24/14 14:15	02/25/14 10:30	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	02/24/14 14:15	02/25/14 10:30	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	02/24/14 14:15	02/25/14 10:30	7440-28-0	
Zinc, Dissolved	7960 ug/L		500	2	02/24/14 14:15	02/25/14 10:32	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND ug/L		6.0	1	02/24/14 09:30	02/24/14 14:57	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	02/24/14 14:00	02/25/14 10:27	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	02/25/14 00:00	02/26/14 13:13	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	02/25/14 00:00	02/26/14 13:13	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	02/25/14 00:00	02/26/14 13:13	77-47-4	
Hexachloroethane	ND ug/L		1000	2	02/25/14 00:00	02/26/14 13:13	67-72-1	
Naphthalene	1460 ug/L		1000	2	02/25/14 00:00	02/26/14 13:13	91-20-3	
Nitrobenzene	ND ug/L		1000	2	02/25/14 00:00	02/26/14 13:13	98-95-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-224R1

Pace Project No.: 60163416

Sample: 316-224R1	Lab ID: 60163416001	Collected: 02/20/14 09:45	Received: 02/21/14 01:05	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	02/25/14 00:00	02/26/14 13:13	87-86-5	
Phenol	11100 ug/L		1000	2	02/25/14 00:00	02/26/14 13:13	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	02/25/14 00:00	02/26/14 13:13	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	02/25/14 00:00	02/26/14 13:13	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	147 %		33-120	2	02/25/14 00:00	02/26/14 13:13	4165-60-0	S0
2-Fluorobiphenyl (S)	72 %		39-120	2	02/25/14 00:00	02/26/14 13:13	321-60-8	
Terphenyl-d14 (S)	79 %		45-120	2	02/25/14 00:00	02/26/14 13:13	1718-51-0	
Phenol-d6 (S)	30 %		11-120	2	02/25/14 00:00	02/26/14 13:13	13127-88-3	
2-Fluorophenol (S)	40 %		17-120	2	02/25/14 00:00	02/26/14 13:13	367-12-4	
2,4,6-Tribromophenol (S)	81 %		39-120	2	02/25/14 00:00	02/26/14 13:13	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	145000 ug/L		2000	200		02/25/14 15:53	67-64-1	N2
Benzene	ND ug/L		200	200		02/25/14 15:53	71-43-2	
Bromodichloromethane	ND ug/L		200	200		02/25/14 15:53	75-27-4	
Bromoform	ND ug/L		200	200		02/25/14 15:53	75-25-2	
Bromomethane	ND ug/L		1000	200		02/25/14 15:53	74-83-9	
2-Butanone (MEK)	74600 ug/L		2000	200		02/25/14 15:53	78-93-3	N2
Carbon tetrachloride	ND ug/L		200	200		02/25/14 15:53	56-23-5	
Chloroethane	ND ug/L		200	200		02/25/14 15:53	75-00-3	
Chloroform	ND ug/L		200	200		02/25/14 15:53	67-66-3	
1,4-Dichlorobenzene	867 ug/L		200	200		02/25/14 15:53	106-46-7	
1,2-Dichloroethane	ND ug/L		200	200		02/25/14 15:53	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200	200		02/25/14 15:53	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		200	200		02/25/14 15:53	156-60-5	
Ethylbenzene	ND ug/L		200	200		02/25/14 15:53	100-41-4	
Methylene chloride	ND ug/L		200	200		02/25/14 15:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	3670 ug/L		2000	200		02/25/14 15:53	108-10-1	N2
1,1,2,2-Tetrachloroethane	229 ug/L		200	200		02/25/14 15:53	79-34-5	N2
Tetrachloroethene	ND ug/L		200	200		02/25/14 15:53	127-18-4	
Toluene	ND ug/L		200	200		02/25/14 15:53	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		02/25/14 15:53	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		02/25/14 15:53	79-00-5	
Trichloroethene	ND ug/L		200	200		02/25/14 15:53	79-01-6	
Vinyl chloride	ND ug/L		200	200		02/25/14 15:53	75-01-4	
Xylene (Total)	ND ug/L		600	200		02/25/14 15:53	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	102 %		80-120	200		02/25/14 15:53	460-00-4	
Toluene-d8 (S)	105 %		80-120	200		02/25/14 15:53	2037-26-5	
1,2-Dichloroethane-d4 (S)	102 %		80-120	200		02/25/14 15:53	17060-07-0	
Preservation pH	6.0		1.0	200		02/25/14 15:53		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1230 mg/L		5.0	1		02/25/14 11:07		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-224R1

Pace Project No.: 60163416

Sample: 316-224R1		Lab ID: 60163416001	Collected: 02/20/14 09:45	Received: 02/21/14 01:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	18.8	mg/L	5.0	1		02/26/14 10:16		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	5440	mg/L	5.0	1		02/25/14 17:00		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.2	Std. Units	0.10	1		02/22/14 10:21		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	16700	mg/L	2.0	1	02/21/14 16:51	02/26/14 18:03		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	663	mg/L	20.0	200		02/21/14 11:44	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	59700	mg/L	5000	500		02/25/14 08:50		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-224R1

Pace Project No.: 60163416

Sample: TRIP BLANK		Lab ID: 60163416002	Collected: 02/20/14 09:45	Received: 02/21/14 01:05	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		02/25/14 13:00	67-64-1	N2
Benzene	ND ug/L		1.0	1		02/25/14 13:00	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		02/25/14 13:00	75-27-4	
Bromoform	ND ug/L		1.0	1		02/25/14 13:00	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/25/14 13:00	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		02/25/14 13:00	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		02/25/14 13:00	56-23-5	
Chloroethane	ND ug/L		1.0	1		02/25/14 13:00	75-00-3	
Chloroform	ND ug/L		1.0	1		02/25/14 13:00	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		02/25/14 13:00	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		02/25/14 13:00	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		02/25/14 13:00	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		02/25/14 13:00	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		02/25/14 13:00	100-41-4	
Methylene chloride	ND ug/L		1.0	1		02/25/14 13:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		02/25/14 13:00	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		02/25/14 13:00	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		02/25/14 13:00	127-18-4	
Toluene	ND ug/L		1.0	1		02/25/14 13:00	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		02/25/14 13:00	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		02/25/14 13:00	79-00-5	
Trichloroethene	ND ug/L		1.0	1		02/25/14 13:00	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		02/25/14 13:00	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		02/25/14 13:00	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	1		02/25/14 13:00	460-00-4	
Toluene-d8 (S)	107 %		80-120	1		02/25/14 13:00	2037-26-5	
1,2-Dichloroethane-d4 (S)	99 %		80-120	1		02/25/14 13:00	17060-07-0	
Preservation pH	6.0		1.0	1		02/25/14 13:00		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-224R1

Pace Project No.: 60163416

QC Batch: MERP/8165 Analysis Method: EPA 245.1
 QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
 Associated Lab Samples: 60163416001

METHOD BLANK: 1334271 Matrix: Water
 Associated Lab Samples: 60163416001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/24/14 14:39	

LABORATORY CONTROL SAMPLE: 1334272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334273 1334274

Parameter	Units	60163148001 Result	MS		MSD		% Rec		% Rec Limits	Max		Qual
			Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec	RPD		RPD		
Mercury	ug/L	ND	150	150	152	151	102	100	70-130	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334275 1334276

Parameter	Units	60163516001 Result	MS		MSD		% Rec		% Rec Limits	Max		Qual
			Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec	RPD		RPD		
Mercury	ug/L	ND	150	190	168	127	112	70-130	12	20		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-224R1

Pace Project No.: 60163416

QC Batch:	MERP/8166	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60163416001		

METHOD BLANK: 1334467 Matrix: Water
Associated Lab Samples: 60163416001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/25/14 10:09	

LABORATORY CONTROL SAMPLE: 1334468

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.9	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334469 1334470

Parameter	Units	60163148001 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Conc.	Result	Result	% Rec	% Rec						
Mercury, Dissolved	ug/L	ND	150	150	158	153	106	102	70-130	3	20			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334471 1334472

Parameter	Units	60163516001 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Conc.	Result	Result	% Rec	% Rec						
Mercury, Dissolved	ug/L	ND	150	150	161	158	107	105	70-130	2	20			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-224R1
Pace Project No.: 60163416

QC Batch: MPRP/26270 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60163416001

METHOD BLANK: 1335893 Matrix: Water
Associated Lab Samples: 60163416001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	02/27/14 14:21	
Antimony	ug/L	ND	10.0	02/27/14 14:21	
Arsenic	ug/L	ND	10.0	02/27/14 14:21	
Beryllium	ug/L	ND	1.0	02/27/14 14:21	
Cadmium	ug/L	ND	5.0	02/27/14 14:21	
Chromium	ug/L	ND	5.0	02/27/14 14:21	
Cobalt	ug/L	ND	5.0	02/27/14 14:21	
Copper	ug/L	ND	10.0	02/27/14 14:21	
Iron	ug/L	ND	50.0	02/27/14 14:21	
Lead	ug/L	ND	5.0	02/27/14 14:21	
Nickel	ug/L	ND	5.0	02/27/14 14:21	
Selenium	ug/L	ND	15.0	02/27/14 14:21	
Silver	ug/L	ND	7.0	02/27/14 14:21	
Thallium	ug/L	ND	20.0	02/27/14 14:21	
Zinc	ug/L	ND	50.0	02/27/14 14:21	

LABORATORY CONTROL SAMPLE: 1335894

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10000	100	85-115	
Antimony	ug/L	1000	992	99	85-115	
Arsenic	ug/L	1000	961	96	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1000	100	85-115	
Chromium	ug/L	1000	1060	106	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	995	99	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	984	98	85-115	
Silver	ug/L	500	497	99	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	1040	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1335895 1335896

Parameter	Units	60163516001		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.								
Aluminum	ug/L	8850	50000	50000	66000	66500	114	115	70-130	1	8		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-224R1

Pace Project No.: 60163416

Parameter	Units	1335895		1335896		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60163516001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Antimony	ug/L	72.2	5000	5000	5280	5320	104	105	70-130	1	7
Arsenic	ug/L	962	5000	5000	6550	6580	112	112	70-130	1	10
Beryllium	ug/L	ND	5000	5000	5020	5060	100	101	70-130	1	7
Cadmium	ug/L	ND	5000	5000	5280	5340	105	107	70-130	1	10
Chromium	ug/L	344	5000	5000	5420	5460	102	102	70-130	1	10
Cobalt	ug/L	52.4	5000	5000	4880	4930	97	98	70-130	1	6
Copper	ug/L	ND	5000	5000	5200	5240	103	104	70-130	1	11
Iron	ug/L	1110000	50000	50000	1230000	1210000	239	197	70-130	2	10 M1
Lead	ug/L	142	5000	5000	4710	4750	91	92	70-130	1	10
Nickel	ug/L	140	5000	5000	4940	4940	96	96	70-130	0	10
Selenium	ug/L	ND	5000	5000	6080	6090	120	121	70-130	0	10
Silver	ug/L	ND	2500	2500	2640	2650	105	105	70-130	0	10
Thallium	ug/L	ND	5000	5000	4160	4160	83	83	70-130	0	6
Zinc	ug/L	10300	5000	5000	16000	15500	116	105	70-130	3	11

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-224R1
Pace Project No.: 60163416

QC Batch: MPRP/26231 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60163416001

METHOD BLANK: 1334434 Matrix: Water
Associated Lab Samples: 60163416001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	02/25/14 09:55	
Antimony, Dissolved	ug/L	ND	10.0	02/25/14 09:55	
Arsenic, Dissolved	ug/L	ND	10.0	02/25/14 09:55	
Beryllium, Dissolved	ug/L	ND	1.0	02/25/14 09:55	
Cadmium, Dissolved	ug/L	ND	5.0	02/25/14 09:55	
Chromium, Dissolved	ug/L	ND	5.0	02/25/14 09:55	
Cobalt, Dissolved	ug/L	ND	5.0	02/25/14 09:55	
Copper, Dissolved	ug/L	ND	10.0	02/25/14 09:55	
Iron, Dissolved	ug/L	ND	50.0	02/25/14 09:55	
Lead, Dissolved	ug/L	ND	5.0	02/25/14 09:55	
Nickel, Dissolved	ug/L	ND	5.0	02/25/14 09:55	
Selenium, Dissolved	ug/L	ND	15.0	02/25/14 09:55	
Silver, Dissolved	ug/L	ND	7.0	02/25/14 09:55	
Thallium, Dissolved	ug/L	ND	20.0	02/25/14 09:55	
Zinc, Dissolved	ug/L	ND	50.0	02/25/14 09:55	

LABORATORY CONTROL SAMPLE: 1334435

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	1030	103	85-115	
Arsenic, Dissolved	ug/L	1000	969	97	85-115	
Beryllium, Dissolved	ug/L	1000	1040	104	85-115	
Cadmium, Dissolved	ug/L	1000	1030	103	85-115	
Chromium, Dissolved	ug/L	1000	1030	103	85-115	
Cobalt, Dissolved	ug/L	1000	1040	104	85-115	
Copper, Dissolved	ug/L	1000	1010	101	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	1020	102	85-115	
Silver, Dissolved	ug/L	500	501	100	85-115	
Thallium, Dissolved	ug/L	1000	1080	108	85-115	
Zinc, Dissolved	ug/L	1000	1000	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334436 1334437

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result						
Aluminum, Dissolved	ug/L	2460	50000	50000	55700	106	107	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-224R1

Pace Project No.: 60163416

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334436												1334437	
Parameter	Units	60163148001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual	
		Result	Conc.	Spike	Spike								Result
Antimony, Dissolved	ug/L	57.8	5000	5000	5000	5520	5550	109	110	70-130	1	7	
Arsenic, Dissolved	ug/L	1090	5000	5000	5000	6550	6460	109	107	70-130	1	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	5000	5060	5120	101	102	70-130	1	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5000	5560	5580	111	112	70-130	0	10	
Chromium, Dissolved	ug/L	252	5000	5000	5000	5320	5310	101	101	70-130	0	10	
Cobalt, Dissolved	ug/L	40.9	5000	5000	5000	4960	4960	98	98	70-130	0	6	
Copper, Dissolved	ug/L	ND	5000	5000	5000	5300	5320	106	106	70-130	0	11	
Iron, Dissolved	ug/L	740000	50000	50000	50000	788000	761000	95	42	70-130	3	10 M1	
Lead, Dissolved	ug/L	74.0	5000	5000	5000	4790	4800	94	95	70-130	0	10	
Nickel, Dissolved	ug/L	108	5000	5000	5000	5080	5090	99	100	70-130	0	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5000	6200	6200	123	122	70-130	0	10	
Silver, Dissolved	ug/L	ND	2500	2500	2500	2700	2700	108	108	70-130	0	10	
Thallium, Dissolved	ug/L	ND	5000	5000	5000	4360	4410	87	88	70-130	1	6	
Zinc, Dissolved	ug/L	7070	5000	5000	5000	11700	11500	93	89	70-130	1	11	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334438												1334439	
Parameter	Units	60163516001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual	
		Result	Conc.	Spike	Spike								Result
Aluminum, Dissolved	ug/L	2840	50000	50000	50000	56200	56500	107	107	70-130	0	8	
Antimony, Dissolved	ug/L	77.2	5000	5000	5000	5460	5440	108	107	70-130	0	7	
Arsenic, Dissolved	ug/L	824	5000	5000	5000	6130	6140	106	106	70-130	0	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	5000	5090	5090	102	102	70-130	0	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5000	5530	5520	111	110	70-130	0	10	
Chromium, Dissolved	ug/L	253	5000	5000	5000	5270	5300	100	101	70-130	1	10	
Cobalt, Dissolved	ug/L	39.9	5000	5000	5000	4850	4850	96	96	70-130	0	6	
Copper, Dissolved	ug/L	ND	5000	5000	5000	5260	5260	105	105	70-130	0	11	
Iron, Dissolved	ug/L	810000	50000	50000	50000	844000	816000	67	13	70-130	3	10 M1	
Lead, Dissolved	ug/L	99.7	5000	5000	5000	4730	4730	93	93	70-130	0	10	
Nickel, Dissolved	ug/L	111	5000	5000	5000	5040	5030	98	98	70-130	0	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5000	6170	6090	122	120	70-130	1	10	
Silver, Dissolved	ug/L	ND	2500	2500	2500	2650	2670	106	107	70-130	0	10	
Thallium, Dissolved	ug/L	ND	5000	5000	5000	4360	4370	87	87	70-130	0	6	
Zinc, Dissolved	ug/L	8540	5000	5000	5000	13000	12600	90	81	70-130	4	11	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-224R1

Pace Project No.: 60163416

QC Batch: MSV/59603 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60163416001, 60163416002

METHOD BLANK: 1334739 Matrix: Water

Associated Lab Samples: 60163416001, 60163416002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/25/14 10:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/25/14 10:06	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	02/25/14 10:06	
1,2-Dichloroethane	ug/L	ND	1.0	02/25/14 10:06	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/25/14 10:06	
2-Butanone (MEK)	ug/L	ND	10.0	02/25/14 10:06	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/25/14 10:06	N2
Acetone	ug/L	ND	10.0	02/25/14 10:06	N2
Benzene	ug/L	ND	1.0	02/25/14 10:06	
Bromodichloromethane	ug/L	ND	1.0	02/25/14 10:06	
Bromoform	ug/L	ND	1.0	02/25/14 10:06	
Bromomethane	ug/L	ND	5.0	02/25/14 10:06	
Carbon tetrachloride	ug/L	ND	1.0	02/25/14 10:06	
Chloroethane	ug/L	ND	1.0	02/25/14 10:06	
Chloroform	ug/L	ND	1.0	02/25/14 10:06	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/25/14 10:06	N2
Ethylbenzene	ug/L	ND	1.0	02/25/14 10:06	
Methylene chloride	ug/L	ND	1.0	02/25/14 10:06	
Tetrachloroethene	ug/L	ND	1.0	02/25/14 10:06	
Toluene	ug/L	ND	1.0	02/25/14 10:06	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/25/14 10:06	
Trichloroethene	ug/L	ND	1.0	02/25/14 10:06	
Vinyl chloride	ug/L	ND	1.0	02/25/14 10:06	
Xylene (Total)	ug/L	ND	3.0	02/25/14 10:06	N2
1,2-Dichloroethane-d4 (S)	%	91	80-120	02/25/14 10:06	
4-Bromofluorobenzene (S)	%	104	80-120	02/25/14 10:06	
Toluene-d8 (S)	%	108	80-120	02/25/14 10:06	

LABORATORY CONTROL SAMPLE: 1334740

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.0	105	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	21.8	109	67-127	N2
1,1,2-Trichloroethane	ug/L	20	21.9	110	67-124	
1,2-Dichloroethane	ug/L	20	18.8	94	70-126	
1,4-Dichlorobenzene	ug/L	20	20.7	103	74-120	
2-Butanone (MEK)	ug/L	100	102	102	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	120	120	59-131	N2
Acetone	ug/L	100	98.5	98	38-134	N2
Benzene	ug/L	20	19.1	96	75-120	
Bromodichloromethane	ug/L	20	21.3	107	68-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-224R1

Pace Project No.: 60163416

LABORATORY CONTROL SAMPLE: 1334740

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	22.5	112	65-127	
Bromomethane	ug/L	20	21.4	107	13-157	
Carbon tetrachloride	ug/L	20	19.2	96	70-131	
Chloroethane	ug/L	20	20.3	102	47-133	
Chloroform	ug/L	20	22.0	110	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.9	105	68-127	N2
Ethylbenzene	ug/L	20	19.2	96	74-122	
Methylene chloride	ug/L	20	22.1	110	64-129	
Tetrachloroethene	ug/L	20	18.1	90	73-125	
Toluene	ug/L	20	20.5	103	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.9	105	66-129	
Trichloroethene	ug/L	20	19.8	99	71-123	
Vinyl chloride	ug/L	20	19.7	98	43-129	
Xylene (Total)	ug/L	60	58.0	97	75-121	N2
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			103	80-120	

MATRIX SPIKE SAMPLE: 1334741

Parameter	Units	60163516001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3940	98	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3890	93	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4440	111	52-143	
1,2-Dichloroethane	ug/L	ND	4000	3610	90	49-144	
1,4-Dichlorobenzene	ug/L	723	4000	4510	95	33-140	
2-Butanone (MEK)	ug/L	63900	20000	99600	179	40-160	M1,N2
4-Methyl-2-pentanone (MIBK)	ug/L	3180	20000	28300	125	40-160	N2
Acetone	ug/L	129000	20000	145000	82	10-160	N2
Benzene	ug/L	ND	4000	3880	97	37-151	
Bromodichloromethane	ug/L	ND	4000	4110	103	35-142	
Bromoform	ug/L	ND	4000	4470	112	45-142	
Bromomethane	ug/L	ND	4000	3980	99	10-158	
Carbon tetrachloride	ug/L	ND	4000	4240	106	70-140	
Chloroethane	ug/L	ND	4000	3940	98	19-152	
Chloroform	ug/L	ND	4000	4220	105	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	4130	103	34-147	N2
Ethylbenzene	ug/L	ND	4000	3760	93	40-142	
Methylene chloride	ug/L	ND	4000	4500	113	31-144	
Tetrachloroethene	ug/L	ND	4000	3830	96	64-148	
Toluene	ug/L	ND	4000	4210	105	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4090	102	54-151	
Trichloroethene	ug/L	ND	4000	4110	103	71-149	
Vinyl chloride	ug/L	ND	4000	3970	99	22-146	
Xylene (Total)	ug/L	ND	12000	11900	99	37-144	N2
1,2-Dichloroethane-d4 (S)	%				95	80-120	
4-Bromofluorobenzene (S)	%				96	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-224R1

Pace Project No.: 60163416

MATRIX SPIKE SAMPLE:		1334741					
Parameter	Units	60163516001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S) Preservation pH	%	6.0	6.0	6.0	105	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-224R1

Pace Project No.: 60163416

QC Batch:	OEXT/42853	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60163416001		

METHOD BLANK: 1334668 Matrix: Water

Associated Lab Samples: 60163416001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/26/14 09:24	
2,4,6-Trichlorophenol	ug/L	ND	5.0	02/26/14 09:24	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	02/26/14 09:24	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/26/14 09:24	
Hexachlorocyclopentadiene	ug/L	ND	5.0	02/26/14 09:24	
Hexachloroethane	ug/L	ND	5.0	02/26/14 09:24	
Naphthalene	ug/L	ND	5.0	02/26/14 09:24	
Nitrobenzene	ug/L	ND	5.0	02/26/14 09:24	
Pentachlorophenol	ug/L	ND	5.0	02/26/14 09:24	
Phenol	ug/L	ND	5.0	02/26/14 09:24	
2,4,6-Tribromophenol (S)	%	90	39-120	02/26/14 09:24	
2-Fluorobiphenyl (S)	%	91	39-120	02/26/14 09:24	
2-Fluorophenol (S)	%	51	17-120	02/26/14 09:24	
Nitrobenzene-d5 (S)	%	87	33-120	02/26/14 09:24	
Phenol-d6 (S)	%	31	11-120	02/26/14 09:24	
Terphenyl-d14 (S)	%	97	45-120	02/26/14 09:24	

LABORATORY CONTROL SAMPLE: 1334669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.7	79	46-120	
2,4,6-Trichlorophenol	ug/L	50	42.3	85	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	45.5	91	40-133	
Hexachloro-1,3-butadiene	ug/L	50	39.1	78	44-116	
Hexachlorocyclopentadiene	ug/L	100	73.9	74	24-120	
Hexachloroethane	ug/L	50	38.2	76	43-113	
Naphthalene	ug/L	50	40.5	81	48-120	
Nitrobenzene	ug/L	50	41.3	83	48-120	
Pentachlorophenol	ug/L	50	40.8	82	47-120	
Phenol	ug/L	50	14.1	28	16-112	
2,4,6-Tribromophenol (S)	%			94	39-120	
2-Fluorobiphenyl (S)	%			85	39-120	
2-Fluorophenol (S)	%			47	17-120	
Nitrobenzene-d5 (S)	%			83	33-120	
Phenol-d6 (S)	%			29	11-120	
Terphenyl-d14 (S)	%			86	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-224R1

Pace Project No.: 60163416

MATRIX SPIKE SAMPLE:		1334670					
Parameter	Units	60163287002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	38.8	78	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	42.9	86	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	50	41.5	83	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	37.4	75	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	67.7	68	11-120	
Hexachloroethane	ug/L	ND	50	39.2	78	40-113	
Naphthalene	ug/L	ND	50	40.6	81	45-120	
Nitrobenzene	ug/L	ND	50	39.4	79	38-120	
Pentachlorophenol	ug/L	ND	50	46.0	89	43-135	
Phenol	ug/L	ND	50	15.1	30	13-112	
2,4,6-Tribromophenol (S)	%				93	39-120	
2-Fluorobiphenyl (S)	%				85	39-120	
2-Fluorophenol (S)	%				37	17-120	
Nitrobenzene-d5 (S)	%				78	33-120	
Phenol-d6 (S)	%				26	11-120	
Terphenyl-d14 (S)	%				108	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-224R1

Pace Project No.: 60163416

QC Batch:	WET/46316	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60163416001		

METHOD BLANK: 1334861 Matrix: Water

Associated Lab Samples: 60163416001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/25/14 11:04	

LABORATORY CONTROL SAMPLE: 1334862

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	36.9	92	78-114	

MATRIX SPIKE SAMPLE: 1334863

Parameter	Units	60163148001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	1120	174	1290	98	78-114	

SAMPLE DUPLICATE: 1334864

Parameter	Units	60163286001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1740	1600	8	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-224R1

Pace Project No.: 60163416

QC Batch: WET/46331

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60163416001

METHOD BLANK: 1335166

Matrix: Water

Associated Lab Samples: 60163416001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	02/26/14 10:15	

LABORATORY CONTROL SAMPLE: 1335167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	20.2	101	64-132	

MATRIX SPIKE SAMPLE: 1335168

Parameter	Units	60163148001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	14.8	87	110	110	64-132	

SAMPLE DUPLICATE: 1335169

Parameter	Units	60163286001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	24.2	29.2	19	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-224R1

Pace Project No.: 60163416

QC Batch: WET/46301

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60163416001

METHOD BLANK: 1334634

Matrix: Water

Associated Lab Samples: 60163416001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	02/25/14 15:47	

SAMPLE DUPLICATE: 1334635

Parameter	Units	60163306009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	9.0	10	11	10	D6

SAMPLE DUPLICATE: 1334636

Parameter	Units	60163436002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	18.0	27.0	40	10	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-224R1

Pace Project No.: 60163416

QC Batch: WET/46280 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60163416001

SAMPLE DUPLICATE: 1333839

Parameter	Units	60163408001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.0	8.1	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-224R1

Pace Project No.: 60163416

QC Batch: WET/46273

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60163416001

METHOD BLANK: 1333452

Matrix: Water

Associated Lab Samples: 60163416001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	02/26/14 17:40	

LABORATORY CONTROL SAMPLE: 1333453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	173	87	85-115	

SAMPLE DUPLICATE: 1333454

Parameter	Units	60163438001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	536	516	4	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-224R1

Pace Project No.: 60163416

QC Batch:	WETA/28273	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60163416001		

METHOD BLANK: 1333153 Matrix: Water
Associated Lab Samples: 60163416001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/21/14 11:16	

LABORATORY CONTROL SAMPLE: 1333154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	105	90-110	

MATRIX SPIKE SAMPLE: 1333155

Parameter	Units	60163098002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.0	98	90-110	

MATRIX SPIKE SAMPLE: 1333156

Parameter	Units	60163126002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	14.9	10	23.5	86	90-110	M1

SAMPLE DUPLICATE: 1333157

Parameter	Units	60163148001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	733	743	1	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-224R1

Pace Project No.: 60163416

QC Batch:	WETA/28284	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60163416001		

METHOD BLANK: 1333716 Matrix: Water
Associated Lab Samples: 60163416001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	02/25/14 08:35	

LABORATORY CONTROL SAMPLE: 1333717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	49.4	99	90-110	

MATRIX SPIKE SAMPLE: 1333718

Parameter	Units	60163014001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	231	100	310	79	90-110	M1

MATRIX SPIKE SAMPLE: 1333720

Parameter	Units	60163075001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	56.5	50	99.4	86	90-110	M1

SAMPLE DUPLICATE: 1333719

Parameter	Units	60162878001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	38.3	40.6	6	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-224R1

Pace Project No.: 60163416

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-224R1

Pace Project No.: 60163416

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60163416001	316-224R1	EPA 200.7	MPRP/26270	EPA 200.7	ICP/20058
60163416001	316-224R1	EPA 200.7	MPRP/26231	EPA 200.7	ICP/20034
60163416001	316-224R1	EPA 245.1	MERP/8165	EPA 245.1	MERC/8116
60163416001	316-224R1	EPA 245.1	MERP/8166	EPA 245.1	MERC/8122
60163416001	316-224R1	EPA 625	OEXT/42853	EPA 625	MSSV/13649
60163416001	316-224R1	EPA 624 Low	MSV/59603		
60163416002	TRIP BLANK	EPA 624 Low	MSV/59603		
60163416001	316-224R1	EPA 1664A	WET/46316		
60163416001	316-224R1	EPA 1664A	WET/46331		
60163416001	316-224R1	SM 2540D	WET/46301		
60163416001	316-224R1	SM 4500-H+B	WET/46280		
60163416001	316-224R1	SM 5210B	WET/46273	SM 5210B	WET/46371
60163416001	316-224R1	EPA 350.1	WETA/28273		
60163416001	316-224R1	EPA 410.4	WETA/28284		

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Sample Condition Upon Receipt

WO#: 60163416
60163416

Client Name: Barr Eng

Courier: Fed Ex UPS USPS Client Commercial Pace Other road

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 12/16

Thermometer Used: T-239 T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 1-2
Temperature should be above freezing to 6°C

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: pu 2/21/14

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOD pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Added 2.5 ml of HNO3 to BPR. pH 6.0/4-0 Added 2.0 ml of H2SO4 to BPR. pH 6.0/2-5
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: <u>VOA</u> , coliform, TOC, <u>D&G</u> WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>pu</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative <u>12513</u>
Pace Trip Blank lot # (if purchased): <u>071513-3</u>		
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MD</u>

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 2/21/14

March 04, 2014

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

RE: Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60163485

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 21, 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 UNTREATED COMMINGLED

Pace Project No.: 60163485

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163485

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60163485001	TCLP FEB 14	Water	02/20/14 14:30	02/21/14 01:05
60163485002	TRIP BLANK	Water	02/20/14 08:00	02/21/14 01:05

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SAMPLE ANALYTE COUNT

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163485

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60163485001	TCLP FEB 14	EPA 8081	TA	9	PASI-D
		EPA 8151	PMS	3	PASI-D
		EPA 6010	TJT	7	PASI-K
		EPA 7470	NDJ	1	PASI-K
		EPA 8270	JMT	18	PASI-K
		EPA 8260	RAB	13	PASI-K
		EPA 5030B/8260	JTS	28	PASI-K
		EPA 1664A	DJR	1	PASI-K
		SM 2540B	JMC	1	PASI-K
60163485002	TRIP BLANK	EPA 5030B/8260	JTS	28	PASI-K

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163485

Sample: TCLP FEB 14 Lab ID: 60163485001 Collected: 02/20/14 14:30 Received: 02/21/14 01:05 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	03/03/14 09:02	03/03/14 15:48	58-89-9	
Chlordane (Technical)	ND	mg/L	0.0050	.03	1	03/03/14 09:02	03/03/14 15:48	57-74-9	
Endrin	ND	mg/L	0.00020	.02	1	03/03/14 09:02	03/03/14 15:48	72-20-8	
Heptachlor	ND	mg/L	0.00020	.008	1	03/03/14 09:02	03/03/14 15:48	76-44-8	M1
Heptachlor epoxide	ND	mg/L	0.00050	.008	1	03/03/14 09:02	03/03/14 15:48	1024-57-3	
Methoxychlor	ND	mg/L	0.00050	10	1	03/03/14 09:02	03/03/14 15:48	72-43-5	M1, R1
Toxaphene	ND	mg/L	0.010	.5	1	03/03/14 09:02	03/03/14 15:48	8001-35-2	
Surrogates									
Decachlorobiphenyl (S)	35 %		40-140		1	03/03/14 09:02	03/03/14 15:48	2051-24-3	S0
Tetrachloro-m-xylene (S)	87 %		40-140		1	03/03/14 09:02	03/03/14 15:48	877-09-8	
8151 Chlorinate Herbicide TCLP Analytical Method: EPA 8151 Preparation Method: EPA 8151									
2,4-D	ND	mg/L	0.00050	10	1	02/28/14 09:31	03/03/14 15:18	94-75-7	
2,4,5-TP (Silvex)	ND	mg/L	0.00050	1	1	02/28/14 09:31	03/03/14 15:18	93-72-1	
Surrogates									
2,4-DCAA (S)	42 %		40-140		1	02/28/14 09:31	03/03/14 15:18	19719-28-9	
6010 MET ICP, TCLP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 02/24/14 00:00									
Arsenic	1.1	mg/L	0.50	5	1	02/25/14 16:00	02/26/14 14:17	7440-38-2	
Barium	4.2	mg/L	2.5	100	1	02/25/14 16:00	02/26/14 14:17	7440-39-3	
Cadmium	ND	mg/L	0.050	1	1	02/25/14 16:00	02/26/14 14:17	7440-43-9	
Chromium	0.44	mg/L	0.10	5	1	02/25/14 16:00	02/26/14 14:17	7440-47-3	
Lead	ND	mg/L	0.50	5	1	02/25/14 16:00	02/26/14 14:17	7439-92-1	
Selenium	ND	mg/L	0.50	1	1	02/25/14 16:00	02/26/14 14:17	7782-49-2	
Silver	ND	mg/L	0.10	5	1	02/25/14 16:00	02/26/14 14:17	7440-22-4	
7470 Mercury, TCLP Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 02/24/14 00:00									
Mercury	ND	mg/L	0.0020	.2	1	02/25/14 16:00	02/26/14 10:34	7439-97-6	M1
8270 MSSV TCLP Sep Funnel Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Leachate Method/Date: EPA 1311; 02/24/14 00:00									
1,4-Dichlorobenzene	ND	ug/L	1000	7500	1	02/26/14 00:00	02/26/14 18:36	106-46-7	
2,4-Dinitrotoluene	ND	ug/L	1000	130	1	02/26/14 00:00	02/26/14 18:36	121-14-2	
Hexachloro-1,3-butadiene	ND	ug/L	1000	500	1	02/26/14 00:00	02/26/14 18:36	87-68-3	
Hexachlorobenzene	ND	ug/L	1000	130	1	02/26/14 00:00	02/26/14 18:36	118-74-1	
Hexachloroethane	ND	ug/L	1000	3000	1	02/26/14 00:00	02/26/14 18:36	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	1000	200000	1	02/26/14 00:00	02/26/14 18:36	95-48-7	
3&4-Methylphenol(m&p Cresol)	14700	ug/L	4000	200000	2	02/26/14 00:00	02/26/14 16:37		
Nitrobenzene	ND	ug/L	1000	2000	1	02/26/14 00:00	02/26/14 18:36	98-95-3	M1
Pentachlorophenol	ND	ug/L	5000	100000	1	02/26/14 00:00	02/26/14 18:36	87-86-5	
Pyridine	ND	ug/L	1000	5000	1	02/26/14 00:00	02/26/14 18:36	110-86-1	
2,4,5-Trichlorophenol	ND	ug/L	5000	400000	1	02/26/14 00:00	02/26/14 18:36	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1000	2000	1	02/26/14 00:00	02/26/14 18:36	88-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163485

Sample: TCLP FEB 14 **Lab ID: 60163485001** Collected: 02/20/14 14:30 Received: 02/21/14 01:05 Matrix: Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
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8270 MSSV TCLP Sep Funnel Analytical Method: EPA 8270 Preparation Method: EPA 3510

Leachate Method/Date: EPA 1311; 02/24/14 00:00

Surrogates

Nitrobenzene-d5 (S)	141 %		44-120		1	02/26/14 00:00	02/26/14 18:36	4165-60-0	S0
2-Fluorobiphenyl (S)	85 %		49-120		1	02/26/14 00:00	02/26/14 18:36	321-60-8	
Terphenyl-d14 (S)	87 %		52-122		1	02/26/14 00:00	02/26/14 18:36	1718-51-0	
Phenol-d6 (S)	87 %		36-120		1	02/26/14 00:00	02/26/14 18:36	13127-88-3	
2-Fluorophenol (S)	94 %		37-120		1	02/26/14 00:00	02/26/14 18:36	367-12-4	
2,4,6-Tribromophenol (S)	83 %		36-128		1	02/26/14 00:00	02/26/14 18:36	118-79-6	

8260 MSV TCLP

Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 02/24/14 00:00

Benzene	564 ug/L		500	500	10		02/26/14 13:18	71-43-2	
2-Butanone (MEK)	42200 ug/L		10000	200000	10		02/26/14 13:18	78-93-3	
Carbon tetrachloride	ND ug/L		500	500	10		02/26/14 13:18	56-23-5	
Chlorobenzene	ND ug/L		500	100000	10		02/26/14 13:18	108-90-7	
Chloroform	ND ug/L		2000	6000	10		02/26/14 13:18	67-66-3	
1,2-Dichloroethane	ND ug/L		500	500	10		02/26/14 13:18	107-06-2	
1,1-Dichloroethene	ND ug/L		500	700	10		02/26/14 13:18	75-35-4	
Tetrachloroethene	ND ug/L		500	700	10		02/26/14 13:18	127-18-4	
Trichloroethene	ND ug/L		500	500	10		02/26/14 13:18	79-01-6	
Vinyl chloride	ND ug/L		200	200	10		02/26/14 13:18	75-01-4	

Surrogates

1,2-Dichloroethane-d4 (S)	87 %		80-120		10		02/26/14 13:18	17060-07-0	
Toluene-d8 (S)	99 %		80-120		10		02/26/14 13:18	2037-26-5	
4-Bromofluorobenzene (S)	91 %		80-120		10		02/26/14 13:18	460-00-4	

8260 MSV

Analytical Method: EPA 5030B/8260

Acetone	79500 ug/L		2000		200		02/27/14 15:52	67-64-1	
Benzene	1100 ug/L		200		200		02/27/14 15:52	71-43-2	
Bromodichloromethane	ND ug/L		200		200		02/27/14 15:52	75-27-4	
Bromoform	ND ug/L		200		200		02/27/14 15:52	75-25-2	
Bromomethane	ND ug/L		1000		200		02/27/14 15:52	74-83-9	
2-Butanone (MEK)	63400 ug/L		2000		200		02/27/14 15:52	78-93-3	
Carbon tetrachloride	ND ug/L		200		200		02/27/14 15:52	56-23-5	
Chloroethane	ND ug/L		200		200		02/27/14 15:52	75-00-3	
Chloroform	ND ug/L		200		200		02/27/14 15:52	67-66-3	
1,4-Dichlorobenzene	543 ug/L		200		200		02/27/14 15:52	106-46-7	
1,2-Dichloroethane	ND ug/L		200		200		02/27/14 15:52	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200		200		02/27/14 15:52	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200		200		02/27/14 15:52	156-60-5	
Ethylbenzene	231 ug/L		200		200		02/27/14 15:52	100-41-4	
Methylene chloride	ND ug/L		200		200		02/27/14 15:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2000		200		02/27/14 15:52	108-10-1	
1,1,1,2-Tetrachloroethane	ND ug/L		200		200		02/27/14 15:52	79-34-5	
Tetrachloroethene	ND ug/L		200		200		02/27/14 15:52	127-18-4	
Toluene	311 ug/L		200		200		02/27/14 15:52	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200		200		02/27/14 15:52	71-55-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163485

Sample: TCLP FEB 14		Lab ID: 60163485001	Collected: 02/20/14 14:30	Received: 02/21/14 01:05	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		02/27/14 15:52	79-00-5	
Trichloroethene	ND	ug/L	200		200		02/27/14 15:52	79-01-6	
Vinyl chloride	ND	ug/L	200		200		02/27/14 15:52	75-01-4	
Xylene (Total)	803	ug/L	600		200		02/27/14 15:52	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100 %		80-120		200		02/27/14 15:52	460-00-4	HS
1,2-Dichloroethane-d4 (S)	100 %		80-120		200		02/27/14 15:52	17060-07-0	
Toluene-d8 (S)	100 %		80-120		200		02/27/14 15:52	2037-26-5	
Preservation pH	6.0		0.10		200		02/27/14 15:52		pH
HEM, Oil and Grease		Analytical Method: EPA 1664A							
Oil and Grease	1460	mg/L	5.0		1		02/25/14 11:07		
2540B Total Solids		Analytical Method: SM 2540B							
Total Solids	68400	mg/L	5.0		1		02/25/14 18:23		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163485

Sample: TRIP BLANK **Lab ID: 60163485002** Collected: 02/20/14 08:00 Received: 02/21/14 01:05 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		02/27/14 15:36	67-64-1	
Benzene	ND	ug/L	1.0		1		02/27/14 15:36	71-43-2	
Bromodichloromethane	ND	ug/L	1.0		1		02/27/14 15:36	75-27-4	
Bromoform	ND	ug/L	1.0		1		02/27/14 15:36	75-25-2	
Bromomethane	ND	ug/L	5.0		1		02/27/14 15:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0		1		02/27/14 15:36	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0		1		02/27/14 15:36	56-23-5	
Chloroethane	ND	ug/L	1.0		1		02/27/14 15:36	75-00-3	
Chloroform	ND	ug/L	1.0		1		02/27/14 15:36	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0		1		02/27/14 15:36	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0		1		02/27/14 15:36	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0		1		02/27/14 15:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0		1		02/27/14 15:36	156-60-5	
Ethylbenzene	ND	ug/L	1.0		1		02/27/14 15:36	100-41-4	
Methylene chloride	ND	ug/L	1.0		1		02/27/14 15:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0		1		02/27/14 15:36	108-10-1	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1		02/27/14 15:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0		1		02/27/14 15:36	127-18-4	
Toluene	ND	ug/L	1.0		1		02/27/14 15:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0		1		02/27/14 15:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0		1		02/27/14 15:36	79-00-5	
Trichloroethene	ND	ug/L	1.0		1		02/27/14 15:36	79-01-6	
Vinyl chloride	ND	ug/L	1.0		1		02/27/14 15:36	75-01-4	
Xylene (Total)	ND	ug/L	3.0		1		02/27/14 15:36	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100 %		80-120		1		02/27/14 15:36	460-00-4	
1,2-Dichloroethane-d4 (S)	101 %		80-120		1		02/27/14 15:36	17060-07-0	
Toluene-d8 (S)	99 %		80-120		1		02/27/14 15:36	2037-26-5	
Preservation pH	1.0		0.10		1		02/27/14 15:36		

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163485

QC Batch:	MERP/8175	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury TCLP
Associated Lab Samples:	60163485001		

METHOD BLANK: 1335158 Matrix: Water
Associated Lab Samples: 60163485001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	ND	0.0020	02/26/14 10:29	

LABORATORY CONTROL SAMPLE: 1335159

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.005	0.0052	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1335160 1335161

Parameter	Units	60163485001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Mercury	mg/L	ND	.015	.015	0.0083	0.0097	53	62	75-125	15	20	M1	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163485

QC Batch: MPRP/26252 Analysis Method: EPA 6010
 QC Batch Method: EPA 3010 Analysis Description: 6010 MET TCLP
 Associated Lab Samples: 60163485001

METHOD BLANK: 1335143 Matrix: Water
 Associated Lab Samples: 60163485001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.50	02/26/14 14:13	
Barium	mg/L	ND	2.5	02/26/14 14:13	
Cadmium	mg/L	ND	0.050	02/26/14 14:13	
Chromium	mg/L	ND	0.10	02/26/14 14:13	
Lead	mg/L	ND	0.50	02/26/14 14:13	
Selenium	mg/L	ND	0.50	02/26/14 14:13	
Silver	mg/L	ND	0.10	02/26/14 14:13	

LABORATORY CONTROL SAMPLE: 1335144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	1	0.98	98	80-120	
Barium	mg/L	1	0.96	96	80-120	
Cadmium	mg/L	1	1.0	100	80-120	
Chromium	mg/L	1	0.99	99	80-120	
Lead	mg/L	1	1.0	101	80-120	
Selenium	mg/L	1	0.94	94	80-120	
Silver	mg/L	.5	0.47	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1335145 1335146

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60163485001 Result	Spike Conc.	Spike Conc.	MS Result						
Arsenic	mg/L	1.1	10	10	12.1	12.3	111	112	75-125	1	20
Barium	mg/L	4.2	10	10	14.0	14.1	98	99	75-125	0	20
Cadmium	mg/L	ND	10	10	10.9	11.0	109	110	75-125	1	20
Chromium	mg/L	0.44	10	10	10.3	10.4	99	99	75-125	1	20
Lead	mg/L	ND	10	10	9.6	9.7	94	95	75-125	1	20
Selenium	mg/L	ND	10	10	11.1	11.3	111	112	75-125	1	20
Silver	mg/L	ND	5	5	5.2	5.2	104	104	75-125	0	20

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163485

QC Batch: MSV/59636 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 60163485001

METHOD BLANK: 1335454 Matrix: Water
Associated Lab Samples: 60163485001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	02/26/14 12:32	
1,2-Dichloroethane	ug/L	ND	50.0	02/26/14 12:32	
2-Butanone (MEK)	ug/L	ND	1000	02/26/14 12:32	
Benzene	ug/L	ND	50.0	02/26/14 12:32	
Carbon tetrachloride	ug/L	ND	50.0	02/26/14 12:32	
Chlorobenzene	ug/L	ND	50.0	02/26/14 12:32	
Chloroform	ug/L	ND	200	02/26/14 12:32	
Tetrachloroethene	ug/L	ND	50.0	02/26/14 12:32	
Trichloroethene	ug/L	ND	50.0	02/26/14 12:32	
Vinyl chloride	ug/L	ND	20.0	02/26/14 12:32	
1,2-Dichloroethane-d4 (S)	%	90	80-120	02/26/14 12:32	
4-Bromofluorobenzene (S)	%	91	80-120	02/26/14 12:32	
Toluene-d8 (S)	%	98	80-120	02/26/14 12:32	

LABORATORY CONTROL SAMPLE: 1335455

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	1000	1000	100	70-127	
1,2-Dichloroethane	ug/L	1000	979	98	72-122	
2-Butanone (MEK)	ug/L	5000	3730	75	69-124	
Benzene	ug/L	1000	1050	105	73-122	
Carbon tetrachloride	ug/L	1000	1230	123	73-125	
Chlorobenzene	ug/L	1000	1110	111	80-120	
Chloroform	ug/L	1000	1030	103	76-120	
Tetrachloroethene	ug/L	1000	1150	115	79-122	
Trichloroethene	ug/L	1000	1080	108	76-120	
Vinyl chloride	ug/L	1000	880	88	57-140	
1,2-Dichloroethane-d4 (S)	%			89	80-120	
4-Bromofluorobenzene (S)	%			94	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE SAMPLE: 1335456

Parameter	Units	60163485001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	10000	8420	84	66-142	
1,2-Dichloroethane	ug/L	ND	10000	9280	93	53-144	
2-Butanone (MEK)	ug/L	42200	50000	78900	73	54-127	
Benzene	ug/L	564	10000	9770	92	48-150	
Carbon tetrachloride	ug/L	ND	10000	10100	101	68-145	
Chlorobenzene	ug/L	ND	10000	9770	97	68-131	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163485

MATRIX SPIKE SAMPLE:		1335456					
Parameter	Units	60163485001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloroform	ug/L	ND	10000	9080	91	69-126	
Tetrachloroethene	ug/L	ND	10000	9470	95	66-139	
Trichloroethene	ug/L	ND	10000	9230	92	67-130	
Vinyl chloride	ug/L	ND	10000	6220	62	47-159	
1,2-Dichloroethane-d4 (S)	%				88	80-120	
4-Bromofluorobenzene (S)	%				94	80-120	
Toluene-d8 (S)	%				100	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163485

QC Batch: MSV/59680 Analysis Method: EPA 5030B/8260
 QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
 Associated Lab Samples: 60163485001, 60163485002

METHOD BLANK: 1336236 Matrix: Water

Associated Lab Samples: 60163485001, 60163485002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/27/14 13:42	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/27/14 13:42	
1,1,2-Trichloroethane	ug/L	ND	1.0	02/27/14 13:42	
1,2-Dichloroethane	ug/L	ND	1.0	02/27/14 13:42	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/27/14 13:42	
2-Butanone (MEK)	ug/L	ND	10.0	02/27/14 13:42	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/27/14 13:42	
Acetone	ug/L	ND	10.0	02/27/14 13:42	
Benzene	ug/L	ND	1.0	02/27/14 13:42	
Bromodichloromethane	ug/L	ND	1.0	02/27/14 13:42	
Bromoform	ug/L	ND	1.0	02/27/14 13:42	
Bromomethane	ug/L	ND	5.0	02/27/14 13:42	
Carbon tetrachloride	ug/L	ND	1.0	02/27/14 13:42	
Chloroethane	ug/L	ND	1.0	02/27/14 13:42	
Chloroform	ug/L	ND	1.0	02/27/14 13:42	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/27/14 13:42	
Ethylbenzene	ug/L	ND	1.0	02/27/14 13:42	
Methylene chloride	ug/L	ND	1.0	02/27/14 13:42	
Tetrachloroethene	ug/L	ND	1.0	02/27/14 13:42	
Toluene	ug/L	ND	1.0	02/27/14 13:42	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/27/14 13:42	
Trichloroethene	ug/L	ND	1.0	02/27/14 13:42	
Vinyl chloride	ug/L	ND	1.0	02/27/14 13:42	
Xylene (Total)	ug/L	ND	3.0	02/27/14 13:42	
1,2-Dichloroethane-d4 (S)	%	102	80-120	02/27/14 13:42	
4-Bromofluorobenzene (S)	%	101	80-120	02/27/14 13:42	
Toluene-d8 (S)	%	100	80-120	02/27/14 13:42	

LABORATORY CONTROL SAMPLE: 1336237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.1	100	75-124	
1,1,2,2-Tetrachloroethane	ug/L	20	20.4	102	73-120	
1,1,2-Trichloroethane	ug/L	20	21.1	106	76-120	
1,2-Dichloroethane	ug/L	20	19.9	99	72-122	
1,4-Dichlorobenzene	ug/L	20	20.1	100	80-120	
2-Butanone (MEK)	ug/L	100	84.7	85	69-124	
4-Methyl-2-pentanone (MIBK)	ug/L	100	105	105	72-123	
Acetone	ug/L	100	65.4	65	60-126	
Benzene	ug/L	20	19.2	96	73-122	
Bromodichloromethane	ug/L	20	20.2	101	73-120	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163485

LABORATORY CONTROL SAMPLE: 1336237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.2	101	74-120	
Bromomethane	ug/L	20	20.0	100	40-146	
Carbon tetrachloride	ug/L	20	20.7	103	73-125	
Chloroethane	ug/L	20	18.6	93	56-159	
Chloroform	ug/L	20	20.2	101	76-120	
cis-1,2-Dichloroethene	ug/L	20	19.0	95	69-120	
Ethylbenzene	ug/L	20	18.7	94	76-123	
Methylene chloride	ug/L	20	20.6	103	71-123	
Tetrachloroethene	ug/L	20	20.5	103	79-122	
Toluene	ug/L	20	18.4	92	76-122	
trans-1,2-Dichloroethene	ug/L	20	20.3	101	78-126	
Trichloroethene	ug/L	20	19.5	97	76-120	
Vinyl chloride	ug/L	20	20.5	102	57-140	
Xylene (Total)	ug/L	60	57.0	95	76-122	
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			99	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163485

QC Batch:	OEXT/3467	Analysis Method:	EPA 8081
QC Batch Method:	EPA 3510	Analysis Description:	8081 GCS TCLP Pesticides
Associated Lab Samples:	60163485001		

METHOD BLANK: 64363 Matrix: Water

Associated Lab Samples: 60163485001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chlordane (Technical)	mg/L	ND	0.00050	03/03/14 14:44	
Endrin	mg/L	ND	0.000020	03/03/14 14:44	
gamma-BHC (Lindane)	mg/L	ND	0.000020	03/03/14 14:44	
Heptachlor	mg/L	ND	0.000020	03/03/14 14:44	
Heptachlor epoxide	mg/L	ND	0.000050	03/03/14 14:44	
Methoxychlor	mg/L	ND	0.000050	03/03/14 14:44	
Toxaphene	mg/L	ND	0.0010	03/03/14 14:44	
Decachlorobiphenyl (S)	%	104	40-140	03/03/14 14:44	
Tetrachloro-m-xylene (S)	%	98	40-140	03/03/14 14:44	

LABORATORY CONTROL SAMPLE: 64364

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlordane (Technical)	mg/L		0.0012			
Endrin	mg/L	.001	0.00086	86	40-140	
gamma-BHC (Lindane)	mg/L	.001	0.00087	87	40-140	
Heptachlor	mg/L	.001	0.00087	87	40-140	
Heptachlor epoxide	mg/L	.001	0.00079	79	40-140	
Methoxychlor	mg/L	.001	0.00090	90	40-140	
Toxaphene	mg/L		0.0010			
Decachlorobiphenyl (S)	%			105	40-140	
Tetrachloro-m-xylene (S)	%			95	40-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 64365 64366

Parameter	Units	60163485001		64366		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chlordane (Technical)	mg/L	ND			0.10	0.083			19	40	
Endrin	mg/L	ND	.01	.01	0.0067	0.0087	67	87	40-140	26	40
gamma-BHC (Lindane)	mg/L	ND	.01	.01	0.0076	0.0077	76	77	40-140	1	40
Heptachlor	mg/L	ND	.01	.01	0.028	0.036	284	364	40-140	25	40 M1
Heptachlor epoxide	mg/L	ND	.01	.01	0.010	0.012	104	120	40-140	14	40
Methoxychlor	mg/L	ND	.01	.01	0.0034	0.0059	34	59	40-140	54	40 M1,R1
Toxaphene	mg/L	ND			0.042	0.046				7	40
Decachlorobiphenyl (S)	%						40	45	40-140		
Tetrachloro-m-xylene (S)	%						97	115	40-140		

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163485

QC Batch:	OEXT/3462	Analysis Method:	EPA 8151
QC Batch Method:	EPA 8151	Analysis Description:	8151 GCS TCLP Herbicides
Associated Lab Samples:	60163485001		

METHOD BLANK: 64103 Matrix: Water

Associated Lab Samples: 60163485001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	mg/L	ND	0.000050	03/03/14 13:43	
2,4-D	mg/L	ND	0.000050	03/03/14 13:43	
2,4-DCAA (S)	%.	111	40-140	03/03/14 13:43	

LABORATORY CONTROL SAMPLE: 64104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	mg/L	.002	0.0022	112	10-140	
2,4-D	mg/L	.002	0.0021	104	40-140	
2,4-DCAA (S)	%.			111	40-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 64105 64106

Parameter	Units	7512428001		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Result	Spike Conc.	Result	Result	% Rec	% Rec				
2,4,5-TP (Silvex)	mg/L	ND	.02	.02	0.022	0.020	109	98	10-140	11	40			
2,4-D	mg/L	ND	.02	.02	0.023	0.023	117	113	40-140	3	40			
2,4-DCAA (S)	%.						107	100	40-140					

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163485

QC Batch:	OEXT/42862	Analysis Method:	EPA 8270
QC Batch Method:	EPA 3510	Analysis Description:	8270 TCLP MSSV
Associated Lab Samples:	60163485001		

METHOD BLANK: 1335279 Matrix: Water

Associated Lab Samples: 60163485001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	100	02/26/14 14:56	
2,4,5-Trichlorophenol	ug/L	ND	500	02/26/14 14:56	
2,4,6-Trichlorophenol	ug/L	ND	100	02/26/14 14:56	
2,4-Dinitrotoluene	ug/L	ND	100	02/26/14 14:56	
2-Methylphenol(o-Cresol)	ug/L	ND	100	02/26/14 14:56	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	200	02/26/14 14:56	
Hexachloro-1,3-butadiene	ug/L	ND	100	02/26/14 14:56	
Hexachlorobenzene	ug/L	ND	100	02/26/14 14:56	
Hexachloroethane	ug/L	ND	100	02/26/14 14:56	
Nitrobenzene	ug/L	ND	100	02/26/14 14:56	
Pentachlorophenol	ug/L	ND	500	02/26/14 14:56	
Pyridine	ug/L	ND	100	02/26/14 14:56	
2,4,6-Tribromophenol (S)	%	104	36-128	02/26/14 14:56	
2-Fluorobiphenyl (S)	%	98	49-120	02/26/14 14:56	
2-Fluorophenol (S)	%	80	37-120	02/26/14 14:56	
Nitrobenzene-d5 (S)	%	89	44-120	02/26/14 14:56	
Phenol-d6 (S)	%	85	36-120	02/26/14 14:56	
Terphenyl-d14 (S)	%	97	52-122	02/26/14 14:56	

LABORATORY CONTROL SAMPLE: 1335280

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	500	394	79	47-120	
2,4,5-Trichlorophenol	ug/L	500	435J	87	51-124	
2,4,6-Trichlorophenol	ug/L	500	422	84	46-120	
2,4-Dinitrotoluene	ug/L	500	382	76	38-120	
2-Methylphenol(o-Cresol)	ug/L	500	413	83	46-120	
3&4-Methylphenol(m&p Cresol)	ug/L	1000	885	88	41-120	
Hexachloro-1,3-butadiene	ug/L	500	345	69	49-120	
Hexachlorobenzene	ug/L	500	419	84	50-120	
Hexachloroethane	ug/L	500	364	73	38-120	
Nitrobenzene	ug/L	500	419	84	49-120	
Pentachlorophenol	ug/L	500	403J	81	35-125	
Pyridine	ug/L	500	345	69	10-120	
2,4,6-Tribromophenol (S)	%			89	36-128	
2-Fluorobiphenyl (S)	%			84	49-120	
2-Fluorophenol (S)	%			76	37-120	
Nitrobenzene-d5 (S)	%			84	44-120	
Phenol-d6 (S)	%			81	36-120	
Terphenyl-d14 (S)	%			98	52-122	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163485

MATRIX SPIKE SAMPLE:	1335281	60163485001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	5000	3370	67	48-120	
2,4,5-Trichlorophenol	ug/L	ND	5000	4060J	81	57-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4410	88	48-120	
2,4-Dinitrotoluene	ug/L	ND	5000	3780	76	38-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	4620	92	48-120	
3&4-Methylphenol(m&p Cresol)	ug/L	14700	10000	21700	70	47-120	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3480	70	49-120	
Hexachlorobenzene	ug/L	ND	5000	3920	78	53-120	
Hexachloroethane	ug/L	ND	5000	3750	75	38-120	
Nitrobenzene	ug/L	ND	5000	6600	132	51-120	M1
Pentachlorophenol	ug/L	ND	5000	3660J	73	34-131	
Pyridine	ug/L	ND	5000	3520	70	10-120	
2,4,6-Tribromophenol (S)	%				101	36-128	
2-Fluorobiphenyl (S)	%				83	49-120	
2-Fluorophenol (S)	%				88	37-120	
Nitrobenzene-d5 (S)	%				142	44-120	S0
Phenol-d6 (S)	%				86	36-120	
Terphenyl-d14 (S)	%				87	52-122	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163485

QC Batch: WET/46316

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60163485001

METHOD BLANK: 1334861

Matrix: Water

Associated Lab Samples: 60163485001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/25/14 11:04	

LABORATORY CONTROL SAMPLE: 1334862

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	36.9	92	78-114	

MATRIX SPIKE SAMPLE: 1334863

Parameter	Units	60163148001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	1120	174	1290	98	78-114	

SAMPLE DUPLICATE: 1334864

Parameter	Units	60163286001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1740	1600	8	18	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163485

QC Batch: WET/46302

Analysis Method: SM 2540B

QC Batch Method: SM 2540B

Analysis Description: 2540B Total Solids

Associated Lab Samples: 60163485001

METHOD BLANK: 1334637

Matrix: Water

Associated Lab Samples: 60163485001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	5.0	02/25/14 18:22	

LABORATORY CONTROL SAMPLE: 1334638

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	1000	1080	108	80-120	

SAMPLE DUPLICATE: 1334639

Parameter	Units	60163133001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	15200	15100	1	10	

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QUALIFIERS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163485

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/59680

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

ANALYTE QUALIFIERS

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.

R1 RPD value was outside control limits.

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 UNTREATED COMMINGLED

Pace Project No.: 60163485

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60163485001	TCLP FEB 14	EPA 3510	OEXT/3467	EPA 8081	GCSV/2313
60163485001	TCLP FEB 14	EPA 8151	OEXT/3462	EPA 8151	GCSV/2312
60163485001	TCLP FEB 14	EPA 3010	MPRP/26252	EPA 6010	ICP/20046
60163485001	TCLP FEB 14	EPA 7470	MERP/8175	EPA 7470	MERC/8131
60163485001	TCLP FEB 14	EPA 3510	OEXT/42862	EPA 8270	MSSV/13652
60163485001	TCLP FEB 14	EPA 8260	MSV/59636		
60163485001	TCLP FEB 14	EPA 5030B/8260	MSV/59680		
60163485002	TRIP BLANK	EPA 5030B/8260	MSV/59680		
60163485001	TCLP FEB 14	EPA 1664A	WET/46316		
60163485001	TCLP FEB 14	SM 2540B	WET/46302		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60163485



Client Name: Barr Eng.

Courier: Fed Ex [] UPS [] USPS [] Client [] Commercial [] Pace [] Other [x] Roads

Tracking #: _____ Pace Shipping Label Used? Yes [] No [x]

Custody Seal on Cooler/Box Present: Yes [x] No [] Seals intact: Yes [x] No []

Packing Material: Bubble Wrap [] Bubble Bags [x] Foam [x] None [] Other [x] PIS

Thermometer Used: T-239 / T-194 Type of Ice: Wet Blue None [] Samples received on ice, cooling process has begun.

Cooler Temperature: 2.4

Temperature should be above freezing to 6°C

Date and initials of person examining contents: 2/21/14 BA

Table with 17 rows of inspection items and checkboxes. Includes items like 'Chain of Custody present', 'Short Hold Time analyses (<72hr):', 'Rush Turn Around Time requested:', 'Includes date/time/ID/analyses Matrix: WTT', and 'Project sampled in USDA Regulated Area:'. Handwritten notes are present in rows 16 and 17.

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Page: _____ of _____

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 DANA BAKER/MARGARET TREANOR-BARR		Company Name: REPUBLIC SERVICES		REGULATORY AGENCY	
Email To:		Purchase Order No.: PO 3727110		Address: BRIDGETON, MO 63044		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____	
Phone: _____ Fax: _____		Project Name: BRIDGETON UNTREATED COMMINGLED		Pace Quote Reference: Angie Brown 913-563-1402		Site Location MO	
Requested Due Date/TAT:		Project Number:		Pace Project Manager: Angie Brown 913-563-1402		STATE: MO	
				Pace Profile #: PROFILE 6787-LINE 6			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)																		
						COMPOSITE START		COMPOSITE END/GRAB		Preservatives						Analysis Test				Residual Chlorine (Y/N)				
						DATE	TIME	DATE	TIME	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test	8260 Volatiles **		TCLP Volatiles *	Total Solids/water matrix	Oil and Grease	TCLP SEMI-VOLATILES
1	TCLP FEB14 2A914 2A935 1B934	DW WT WW P SL OL WP AR OT TS	DATE: 2/20/14 TIME: 15:30		3										X	X	X		X	X	X	X		60163485
2	2D92H(FB)																							1001
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
	J. Creak / Feenox Engineers	2/20/14	15:45	J. Robertson / PASI KS	2/20/14	15:45	2.4	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:	SIGNATURE of SAMPLER: <i>John Powell</i>				
DATE Signed (MM/DD/YY): 02-20-14					

Chain of Custody



Workorder: 60163485 Workorder Name: BRIDGETON UNTREATED COMMINGLED Owner Received Date: 2/21/2014 Results Requested By: 2/28/2014

Report To		Subcontract To					Requested Analysis											
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																
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers					TCLP PEST	TCLP HERB						LAB USE ONLY
						none												
1	TCLP FEB 14	PS	2/20/2014 14:30	60163485001	Water	2					X	X						001
2																		
3																		
4																		
5																		
											Comments							
Transfers	Released By	Date/Time	Received By	Date/Time	Send 500ml Leachate & 500ml TCLP blank + prep paperwork													
1	<i>[Signature]</i>	2/26/14 1700	<i>Melissa Mc Coy</i>	2-27-14 0922														
2																		
3																		
Cooler Temperature on Receipt		1.8 °C	Custody Seal	<input checked="" type="radio"/> Y or N	Received on Ice	<input checked="" type="radio"/> Y or N	Samples Intact	<input checked="" type="radio"/> Y or N										

IP01

WO# : 7512574

7512574



**Sample Condition Upon Receipt
Dallas**

Client Name: Pace Kansas Project Work order: 7512574

Courier: FedEX UPS USPS Client Courier LSO PACE Other: _____

Tracking#: 56891280 9718

Custody Seal on Cooler/Box: Yes No Seals Intact: Yes No NA

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: IR-01 Type of Ice: Wet Blue None Sample Received on ice, cooling process has begun

Cooler Temp: 1.80C (Temp should be above freezing to 6°C)

Chain of Custody Present	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	1
Chain of Custody filled out	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	2
Chain of Custody relinquished	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	3
Sample name & signature on COC	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA <input type="checkbox"/>	4
Sample received within HT	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	5
Short HT analyses (<72 hrs)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA <input type="checkbox"/>	6
Rush TAT requested	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	7
Sufficient Volume received	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	8
Correct Container used	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	9
Pace Container used	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	
Container Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	10
Unpreserved 5035A soil frozen within 48 hrs	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>	11
Filtered volume received for Dissolved tests	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>	12
Sample labels match COC	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	13
Include date/time/ID/analyses Matrix: <u>Water</u>		
All containers needing preservation have been checked	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>	14a. Lot# of pH strip: _____ pH checked Yes <input type="checkbox"/> No <input type="checkbox"/> Lot# of Iodine strip: _____ Lot# of Lead Acetate strip: _____
Do containers require preservation at the lab	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>	14b. Preservation: _____ Lot#: _____
All containers needing preservation are found to be in Compliance with EPA recommendation	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>	14c.
Exception: VOA, coliform, O&G	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Trip Blank present	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>	15
Trip Blank Custody Seals Intact	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>	
Pace Trip Blank Lot# (if purchased): _____		
Headspace in VOA (>6mm)	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>	16
Project sampled in USDA Regulated Area:	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>	17. List State _____

Client Notification/Resolution/Comments:

Person Contacted: _____ Date: _____

Comments/Resolution: _____

Person Examining Contents: mm Date: 2-26-14

Sample Container Count



COC PAGE 1 of 1

COC ID# _____

Pace Project # 7512574

Sample Line Item	BP2N	AG1U	VG9U	VG9H	BP2S	BP1U	BP2U	BG1H	AG1S	BP2O	SP5T	WGFU	WGKU	AG3U	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	WGFU	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						

TCLP/SPLP Determination of Percent Solids
 (Only if sample is liquid or semi-liquid. Skip if sample is obviously 100% solid.)



Date: 2/24/14
 Analyst: CEM

Batch: 6154/6158/6156
 Balance ID: 600243 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)
60163315005	120.1	267.3	282.9	1.3	123.5	396.5	250	113.6	143.8	210%	N/A			Yes / No / NA
60163418500	108.0	225.5	280.7	1.3	108.8	392.5	3.9	111.8	116.7	4.2%	1.6	1.6	0.26%	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 2/25/14

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 = $\frac{\text{mL of leachate required}}{20 \times \text{Percent solids}} \times 100$

March 04, 2014

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

RE: Project: BRIDGETON LF 316-225
Pace Project No.: 60163516

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-225

Pace Project No.: 60163516

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-225

Pace Project No.: 60163516

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60163516001	316-225	Water	02/21/14 09:35	02/22/14 00:50
60163516002	TRIP BLANK	Water	02/21/14 09:35	02/22/14 00:50

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-225

Pace Project No.: 60163516

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60163516001	316-225	EPA 200.7	JGP, TJT	15
		EPA 200.7	TJT	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	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	RAH	1
		SM 5210B	JML	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60163516002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-225

Pace Project No.: 60163516

Sample: 316-225		Lab ID: 60163516001	Collected: 02/21/14 09:35	Received: 02/22/14 00:50	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	8850 ug/L		750	2	02/27/14 08:55	02/28/14 12:05	7429-90-5	
Antimony	72.2 ug/L		50.0	1	02/27/14 08:55	02/27/14 15:46	7440-36-0	
Arsenic	962 ug/L		50.0	1	02/27/14 08:55	02/27/14 15:46	7440-38-2	
Beryllium	ND ug/L		5.0	1	02/27/14 08:55	02/28/14 12:03	7440-41-7	
Cadmium	ND ug/L		25.0	1	02/27/14 08:55	02/27/14 15:46	7440-43-9	
Chromium	344 ug/L		25.0	1	02/27/14 08:55	02/27/14 15:46	7440-47-3	
Cobalt	52.4 ug/L		25.0	1	02/27/14 08:55	02/27/14 15:46	7440-48-4	
Copper	ND ug/L		50.0	1	02/27/14 08:55	02/27/14 15:46	7440-50-8	
Iron	110000 ug/L		250	1	02/27/14 08:55	02/28/14 12:03	7439-89-6	M1
Lead	142 ug/L		25.0	1	02/27/14 08:55	02/27/14 15:46	7439-92-1	
Nickel	140 ug/L		25.0	1	02/27/14 08:55	02/27/14 15:46	7440-02-0	
Selenium	ND ug/L		75.0	1	02/27/14 08:55	02/27/14 15:46	7782-49-2	
Silver	ND ug/L		35.0	1	02/27/14 08:55	02/27/14 15:46	7440-22-4	
Thallium	ND ug/L		100	1	02/27/14 08:55	02/27/14 15:46	7440-28-0	
Zinc	10300 ug/L		500	2	02/27/14 08:55	02/28/14 12:05	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	2840 ug/L		750	2	02/24/14 14:15	02/25/14 10:37	7429-90-5	
Antimony, Dissolved	77.2 ug/L		50.0	1	02/24/14 14:15	02/25/14 10:35	7440-36-0	
Arsenic, Dissolved	824 ug/L		50.0	1	02/24/14 14:15	02/25/14 10:35	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	02/24/14 14:15	02/25/14 10:35	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	02/24/14 14:15	02/25/14 10:35	7440-43-9	
Chromium, Dissolved	253 ug/L		25.0	1	02/24/14 14:15	02/25/14 10:35	7440-47-3	
Cobalt, Dissolved	39.9 ug/L		25.0	1	02/24/14 14:15	02/25/14 10:35	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	02/24/14 14:15	02/25/14 10:35	7440-50-8	
Iron, Dissolved	810000 ug/L		250	1	02/24/14 14:15	02/25/14 10:35	7439-89-6	M1
Lead, Dissolved	99.7 ug/L		25.0	1	02/24/14 14:15	02/25/14 10:35	7439-92-1	
Nickel, Dissolved	111 ug/L		25.0	1	02/24/14 14:15	02/25/14 10:35	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	02/24/14 14:15	02/25/14 10:35	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	02/24/14 14:15	02/25/14 10:35	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	02/24/14 14:15	02/25/14 10:35	7440-28-0	
Zinc, Dissolved	8540 ug/L		500	2	02/24/14 14:15	02/25/14 10:37	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND ug/L		6.0	1	02/24/14 09:30	02/24/14 14:59	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	02/24/14 14:00	02/25/14 10:29	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	02/27/14 00:00	02/28/14 13:49	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	02/27/14 00:00	02/28/14 13:49	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	02/27/14 00:00	02/28/14 13:49	77-47-4	
Hexachloroethane	ND ug/L		1000	2	02/27/14 00:00	02/28/14 13:49	67-72-1	
Naphthalene	ND ug/L		1000	2	02/27/14 00:00	02/28/14 13:49	91-20-3	
Nitrobenzene	ND ug/L		1000	2	02/27/14 00:00	02/28/14 13:49	98-95-3	M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-225

Pace Project No.: 60163516

Sample: 316-225	Lab ID: 60163516001	Collected: 02/21/14 09:35	Received: 02/22/14 00:50	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	02/27/14 00:00	02/28/14 13:49	87-86-5	
Phenol	8320 ug/L		1000	2	02/27/14 00:00	02/28/14 13:49	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	02/27/14 00:00	02/28/14 13:49	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	02/27/14 00:00	02/28/14 13:49	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	139 %		33-120	2	02/27/14 00:00	02/28/14 13:49	4165-60-0	S0
2-Fluorobiphenyl (S)	83 %		39-120	2	02/27/14 00:00	02/28/14 13:49	321-60-8	
Terphenyl-d14 (S)	86 %		45-120	2	02/27/14 00:00	02/28/14 13:49	1718-51-0	
Phenol-d6 (S)	28 %		11-120	2	02/27/14 00:00	02/28/14 13:49	13127-88-3	
2-Fluorophenol (S)	45 %		17-120	2	02/27/14 00:00	02/28/14 13:49	367-12-4	
2,4,6-Tribromophenol (S)	96 %		39-120	2	02/27/14 00:00	02/28/14 13:49	118-79-6	
624 Volatile Organics								
Analytical Method: EPA 624 Low								
Acetone	129000 ug/L		2000	200		02/25/14 14:50	67-64-1	N2
Benzene	ND ug/L		200	200		02/25/14 14:50	71-43-2	
Bromodichloromethane	ND ug/L		200	200		02/25/14 14:50	75-27-4	
Bromoform	ND ug/L		200	200		02/25/14 14:50	75-25-2	
Bromomethane	ND ug/L		1000	200		02/25/14 14:50	74-83-9	
2-Butanone (MEK)	63900 ug/L		2000	200		02/25/14 14:50	78-93-3	M1,N2
Carbon tetrachloride	ND ug/L		200	200		02/25/14 14:50	56-23-5	
Chloroethane	ND ug/L		200	200		02/25/14 14:50	75-00-3	
Chloroform	ND ug/L		200	200		02/25/14 14:50	67-66-3	
1,4-Dichlorobenzene	723 ug/L		200	200		02/25/14 14:50	106-46-7	
1,2-Dichloroethane	ND ug/L		200	200		02/25/14 14:50	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200	200		02/25/14 14:50	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		200	200		02/25/14 14:50	156-60-5	
Ethylbenzene	ND ug/L		200	200		02/25/14 14:50	100-41-4	
Methylene chloride	ND ug/L		200	200		02/25/14 14:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	3180 ug/L		2000	200		02/25/14 14:50	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		02/25/14 14:50	79-34-5	N2
Tetrachloroethene	ND ug/L		200	200		02/25/14 14:50	127-18-4	
Toluene	ND ug/L		200	200		02/25/14 14:50	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		02/25/14 14:50	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		02/25/14 14:50	79-00-5	
Trichloroethene	ND ug/L		200	200		02/25/14 14:50	79-01-6	
Vinyl chloride	ND ug/L		200	200		02/25/14 14:50	75-01-4	
Xylene (Total)	ND ug/L		600	200		02/25/14 14:50	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	200		02/25/14 14:50	460-00-4	
Toluene-d8 (S)	108 %		80-120	200		02/25/14 14:50	2037-26-5	
1,2-Dichloroethane-d4 (S)	90 %		80-120	200		02/25/14 14:50	17060-07-0	
Preservation pH	6.0		1.0	200		02/25/14 14:50		
HEM, Oil and Grease								
Analytical Method: EPA 1664A								
Oil and Grease	48.4 mg/L		5.0	1		02/27/14 10:55		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-225

Pace Project No.: 60163516

Sample: 316-225		Lab ID: 60163516001	Collected: 02/21/14 09:35	Received: 02/22/14 00:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	12.0	mg/L	5.0	1		02/28/14 09:58		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	3860	mg/L	5.0	1		02/26/14 07:42		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.2	Std. Units	0.10	1		02/22/14 10:21		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	18800	mg/L	2.0	1	02/22/14 12:00	02/27/14 12:13		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	591	mg/L	20.0	200		02/26/14 10:38	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	63900	mg/L	5000	500		03/03/14 08:22		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-225

Pace Project No.: 60163516

Sample: TRIP BLANK		Lab ID: 60163516002	Collected: 02/21/14 09:35	Received: 02/22/14 00:50	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		02/25/14 13:16	67-64-1	N2
Benzene	ND ug/L		1.0	1		02/25/14 13:16	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		02/25/14 13:16	75-27-4	
Bromoform	ND ug/L		1.0	1		02/25/14 13:16	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/25/14 13:16	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		02/25/14 13:16	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		02/25/14 13:16	56-23-5	
Chloroethane	ND ug/L		1.0	1		02/25/14 13:16	75-00-3	
Chloroform	ND ug/L		1.0	1		02/25/14 13:16	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		02/25/14 13:16	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		02/25/14 13:16	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		02/25/14 13:16	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		02/25/14 13:16	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		02/25/14 13:16	100-41-4	
Methylene chloride	ND ug/L		1.0	1		02/25/14 13:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		02/25/14 13:16	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		02/25/14 13:16	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		02/25/14 13:16	127-18-4	
Toluene	ND ug/L		1.0	1		02/25/14 13:16	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		02/25/14 13:16	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		02/25/14 13:16	79-00-5	
Trichloroethene	ND ug/L		1.0	1		02/25/14 13:16	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		02/25/14 13:16	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		02/25/14 13:16	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	104 %		80-120	1		02/25/14 13:16	460-00-4	
Toluene-d8 (S)	106 %		80-120	1		02/25/14 13:16	2037-26-5	
1,2-Dichloroethane-d4 (S)	102 %		80-120	1		02/25/14 13:16	17060-07-0	
Preservation pH	6.0		1.0	1		02/25/14 13:16		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-225

Pace Project No.: 60163516

QC Batch:	MERP/8165	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60163516001		

METHOD BLANK: 1334271 Matrix: Water
Associated Lab Samples: 60163516001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/24/14 14:39	

LABORATORY CONTROL SAMPLE: 1334272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334273 1334274

Parameter	Units	60163148001 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Conc.	Result	Result	% Rec	% Rec						
Mercury	ug/L	ND	150	150	152	151	102	100	70-130	1	20			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334275 1334276

Parameter	Units	60163516001 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Conc.	Result	Result	% Rec	% Rec						
Mercury	ug/L	ND	150	150	190	168	127	112	70-130	12	20			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-225
Pace Project No.: 60163516

QC Batch: MERP/8166 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60163516001

METHOD BLANK: 1334467 Matrix: Water
Associated Lab Samples: 60163516001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/25/14 10:09	

LABORATORY CONTROL SAMPLE: 1334468

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.9	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334469 1334470

Parameter	Units	60163148001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Mercury, Dissolved	ug/L	ND	150	150	158	153	106	102	70-130	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334471 1334472

Parameter	Units	60163516001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Mercury, Dissolved	ug/L	ND	150	150	161	158	107	105	70-130	2	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-225
Pace Project No.: 60163516

QC Batch: MPRP/26270 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60163516001

METHOD BLANK: 1335893 Matrix: Water
Associated Lab Samples: 60163516001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	02/27/14 14:21	
Antimony	ug/L	ND	10.0	02/27/14 14:21	
Arsenic	ug/L	ND	10.0	02/27/14 14:21	
Beryllium	ug/L	ND	1.0	02/27/14 14:21	
Cadmium	ug/L	ND	5.0	02/27/14 14:21	
Chromium	ug/L	ND	5.0	02/27/14 14:21	
Cobalt	ug/L	ND	5.0	02/27/14 14:21	
Copper	ug/L	ND	10.0	02/27/14 14:21	
Iron	ug/L	ND	50.0	02/27/14 14:21	
Lead	ug/L	ND	5.0	02/27/14 14:21	
Nickel	ug/L	ND	5.0	02/27/14 14:21	
Selenium	ug/L	ND	15.0	02/27/14 14:21	
Silver	ug/L	ND	7.0	02/27/14 14:21	
Thallium	ug/L	ND	20.0	02/27/14 14:21	
Zinc	ug/L	ND	50.0	02/27/14 14:21	

LABORATORY CONTROL SAMPLE: 1335894

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10000	100	85-115	
Antimony	ug/L	1000	992	99	85-115	
Arsenic	ug/L	1000	961	96	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1000	100	85-115	
Chromium	ug/L	1000	1060	106	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	995	99	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	984	98	85-115	
Silver	ug/L	500	497	99	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	1040	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1335895 1335896

Parameter	Units	60163516001		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.								
Aluminum	ug/L	8850	50000	50000	66000	66500	114	115	70-130	1	8		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-225

Pace Project No.: 60163516

Parameter	Units	1335895		1335896		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60163516001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Antimony	ug/L	72.2	5000	5000	5280	5320	104	105	70-130	1	7
Arsenic	ug/L	962	5000	5000	6550	6580	112	112	70-130	1	10
Beryllium	ug/L	ND	5000	5000	5020	5060	100	101	70-130	1	7
Cadmium	ug/L	ND	5000	5000	5280	5340	105	107	70-130	1	10
Chromium	ug/L	344	5000	5000	5420	5460	102	102	70-130	1	10
Cobalt	ug/L	52.4	5000	5000	4880	4930	97	98	70-130	1	6
Copper	ug/L	ND	5000	5000	5200	5240	103	104	70-130	1	11
Iron	ug/L	1110000	50000	50000	1230000	1210000	239	197	70-130	2	10 M1
Lead	ug/L	142	5000	5000	4710	4750	91	92	70-130	1	10
Nickel	ug/L	140	5000	5000	4940	4940	96	96	70-130	0	10
Selenium	ug/L	ND	5000	5000	6080	6090	120	121	70-130	0	10
Silver	ug/L	ND	2500	2500	2640	2650	105	105	70-130	0	10
Thallium	ug/L	ND	5000	5000	4160	4160	83	83	70-130	0	6
Zinc	ug/L	10300	5000	5000	16000	15500	116	105	70-130	3	11

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-225

Pace Project No.: 60163516

QC Batch:	MPRP/26231	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60163516001		

METHOD BLANK: 1334434 Matrix: Water

Associated Lab Samples: 60163516001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	02/25/14 09:55	
Antimony, Dissolved	ug/L	ND	10.0	02/25/14 09:55	
Arsenic, Dissolved	ug/L	ND	10.0	02/25/14 09:55	
Beryllium, Dissolved	ug/L	ND	1.0	02/25/14 09:55	
Cadmium, Dissolved	ug/L	ND	5.0	02/25/14 09:55	
Chromium, Dissolved	ug/L	ND	5.0	02/25/14 09:55	
Cobalt, Dissolved	ug/L	ND	5.0	02/25/14 09:55	
Copper, Dissolved	ug/L	ND	10.0	02/25/14 09:55	
Iron, Dissolved	ug/L	ND	50.0	02/25/14 09:55	
Lead, Dissolved	ug/L	ND	5.0	02/25/14 09:55	
Nickel, Dissolved	ug/L	ND	5.0	02/25/14 09:55	
Selenium, Dissolved	ug/L	ND	15.0	02/25/14 09:55	
Silver, Dissolved	ug/L	ND	7.0	02/25/14 09:55	
Thallium, Dissolved	ug/L	ND	20.0	02/25/14 09:55	
Zinc, Dissolved	ug/L	ND	50.0	02/25/14 09:55	

LABORATORY CONTROL SAMPLE: 1334435

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	1030	103	85-115	
Arsenic, Dissolved	ug/L	1000	969	97	85-115	
Beryllium, Dissolved	ug/L	1000	1040	104	85-115	
Cadmium, Dissolved	ug/L	1000	1030	103	85-115	
Chromium, Dissolved	ug/L	1000	1030	103	85-115	
Cobalt, Dissolved	ug/L	1000	1040	104	85-115	
Copper, Dissolved	ug/L	1000	1010	101	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	1020	102	85-115	
Silver, Dissolved	ug/L	500	501	100	85-115	
Thallium, Dissolved	ug/L	1000	1080	108	85-115	
Zinc, Dissolved	ug/L	1000	1000	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334436 1334437

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result						
Aluminum, Dissolved	ug/L	2460	50000	50000	55700	106	107	70-130	0	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-225

Pace Project No.: 60163516

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334436												1334437	
Parameter	Units	60163148001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual	
		Result	Conc.	Spike	Spike								Result
Antimony, Dissolved	ug/L	57.8	5000	5000	5000	5520	5550	109	110	70-130	1	7	
Arsenic, Dissolved	ug/L	1090	5000	5000	5000	6550	6460	109	107	70-130	1	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	5000	5060	5120	101	102	70-130	1	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5000	5560	5580	111	112	70-130	0	10	
Chromium, Dissolved	ug/L	252	5000	5000	5000	5320	5310	101	101	70-130	0	10	
Cobalt, Dissolved	ug/L	40.9	5000	5000	5000	4960	4960	98	98	70-130	0	6	
Copper, Dissolved	ug/L	ND	5000	5000	5000	5300	5320	106	106	70-130	0	11	
Iron, Dissolved	ug/L	740000	50000	50000	50000	788000	761000	95	42	70-130	3	10 M1	
Lead, Dissolved	ug/L	74.0	5000	5000	5000	4790	4800	94	95	70-130	0	10	
Nickel, Dissolved	ug/L	108	5000	5000	5000	5080	5090	99	100	70-130	0	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5000	6200	6200	123	122	70-130	0	10	
Silver, Dissolved	ug/L	ND	2500	2500	2500	2700	2700	108	108	70-130	0	10	
Thallium, Dissolved	ug/L	ND	5000	5000	5000	4360	4410	87	88	70-130	1	6	
Zinc, Dissolved	ug/L	7070	5000	5000	5000	11700	11500	93	89	70-130	1	11	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334438												1334439	
Parameter	Units	60163516001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual	
		Result	Conc.	Spike	Spike								Result
Aluminum, Dissolved	ug/L	2840	50000	50000	50000	56200	56500	107	107	70-130	0	8	
Antimony, Dissolved	ug/L	77.2	5000	5000	5000	5460	5440	108	107	70-130	0	7	
Arsenic, Dissolved	ug/L	824	5000	5000	5000	6130	6140	106	106	70-130	0	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	5000	5090	5090	102	102	70-130	0	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5000	5530	5520	111	110	70-130	0	10	
Chromium, Dissolved	ug/L	253	5000	5000	5000	5270	5300	100	101	70-130	1	10	
Cobalt, Dissolved	ug/L	39.9	5000	5000	5000	4850	4850	96	96	70-130	0	6	
Copper, Dissolved	ug/L	ND	5000	5000	5000	5260	5260	105	105	70-130	0	11	
Iron, Dissolved	ug/L	810000	50000	50000	50000	844000	816000	67	13	70-130	3	10 M1	
Lead, Dissolved	ug/L	99.7	5000	5000	5000	4730	4730	93	93	70-130	0	10	
Nickel, Dissolved	ug/L	111	5000	5000	5000	5040	5030	98	98	70-130	0	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5000	6170	6090	122	120	70-130	1	10	
Silver, Dissolved	ug/L	ND	2500	2500	2500	2650	2670	106	107	70-130	0	10	
Thallium, Dissolved	ug/L	ND	5000	5000	5000	4360	4370	87	87	70-130	0	6	
Zinc, Dissolved	ug/L	8540	5000	5000	5000	13000	12600	90	81	70-130	4	11	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-225

Pace Project No.: 60163516

QC Batch: MSV/59603 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60163516001, 60163516002

METHOD BLANK: 1334739 Matrix: Water

Associated Lab Samples: 60163516001, 60163516002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/25/14 10:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/25/14 10:06	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	02/25/14 10:06	
1,2-Dichloroethane	ug/L	ND	1.0	02/25/14 10:06	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/25/14 10:06	
2-Butanone (MEK)	ug/L	ND	10.0	02/25/14 10:06	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/25/14 10:06	N2
Acetone	ug/L	ND	10.0	02/25/14 10:06	N2
Benzene	ug/L	ND	1.0	02/25/14 10:06	
Bromodichloromethane	ug/L	ND	1.0	02/25/14 10:06	
Bromoform	ug/L	ND	1.0	02/25/14 10:06	
Bromomethane	ug/L	ND	5.0	02/25/14 10:06	
Carbon tetrachloride	ug/L	ND	1.0	02/25/14 10:06	
Chloroethane	ug/L	ND	1.0	02/25/14 10:06	
Chloroform	ug/L	ND	1.0	02/25/14 10:06	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/25/14 10:06	N2
Ethylbenzene	ug/L	ND	1.0	02/25/14 10:06	
Methylene chloride	ug/L	ND	1.0	02/25/14 10:06	
Tetrachloroethene	ug/L	ND	1.0	02/25/14 10:06	
Toluene	ug/L	ND	1.0	02/25/14 10:06	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/25/14 10:06	
Trichloroethene	ug/L	ND	1.0	02/25/14 10:06	
Vinyl chloride	ug/L	ND	1.0	02/25/14 10:06	
Xylene (Total)	ug/L	ND	3.0	02/25/14 10:06	N2
1,2-Dichloroethane-d4 (S)	%	91	80-120	02/25/14 10:06	
4-Bromofluorobenzene (S)	%	104	80-120	02/25/14 10:06	
Toluene-d8 (S)	%	108	80-120	02/25/14 10:06	

LABORATORY CONTROL SAMPLE: 1334740

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.0	105	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	21.8	109	67-127	N2
1,1,2-Trichloroethane	ug/L	20	21.9	110	67-124	
1,2-Dichloroethane	ug/L	20	18.8	94	70-126	
1,4-Dichlorobenzene	ug/L	20	20.7	103	74-120	
2-Butanone (MEK)	ug/L	100	102	102	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	120	120	59-131	N2
Acetone	ug/L	100	98.5	98	38-134	N2
Benzene	ug/L	20	19.1	96	75-120	
Bromodichloromethane	ug/L	20	21.3	107	68-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-225

Pace Project No.: 60163516

LABORATORY CONTROL SAMPLE: 1334740

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	22.5	112	65-127	
Bromomethane	ug/L	20	21.4	107	13-157	
Carbon tetrachloride	ug/L	20	19.2	96	70-131	
Chloroethane	ug/L	20	20.3	102	47-133	
Chloroform	ug/L	20	22.0	110	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.9	105	68-127	N2
Ethylbenzene	ug/L	20	19.2	96	74-122	
Methylene chloride	ug/L	20	22.1	110	64-129	
Tetrachloroethene	ug/L	20	18.1	90	73-125	
Toluene	ug/L	20	20.5	103	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.9	105	66-129	
Trichloroethene	ug/L	20	19.8	99	71-123	
Vinyl chloride	ug/L	20	19.7	98	43-129	
Xylene (Total)	ug/L	60	58.0	97	75-121	N2
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			103	80-120	

MATRIX SPIKE SAMPLE: 1334741

Parameter	Units	60163516001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3940	98	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3890	93	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4440	111	52-143	
1,2-Dichloroethane	ug/L	ND	4000	3610	90	49-144	
1,4-Dichlorobenzene	ug/L	723	4000	4510	95	33-140	
2-Butanone (MEK)	ug/L	63900	20000	99600	179	40-160	M1,N2
4-Methyl-2-pentanone (MIBK)	ug/L	3180	20000	28300	125	40-160	N2
Acetone	ug/L	129000	20000	145000	82	10-160	N2
Benzene	ug/L	ND	4000	3880	97	37-151	
Bromodichloromethane	ug/L	ND	4000	4110	103	35-142	
Bromoform	ug/L	ND	4000	4470	112	45-142	
Bromomethane	ug/L	ND	4000	3980	99	10-158	
Carbon tetrachloride	ug/L	ND	4000	4240	106	70-140	
Chloroethane	ug/L	ND	4000	3940	98	19-152	
Chloroform	ug/L	ND	4000	4220	105	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	4130	103	34-147	N2
Ethylbenzene	ug/L	ND	4000	3760	93	40-142	
Methylene chloride	ug/L	ND	4000	4500	113	31-144	
Tetrachloroethene	ug/L	ND	4000	3830	96	64-148	
Toluene	ug/L	ND	4000	4210	105	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4090	102	54-151	
Trichloroethene	ug/L	ND	4000	4110	103	71-149	
Vinyl chloride	ug/L	ND	4000	3970	99	22-146	
Xylene (Total)	ug/L	ND	12000	11900	99	37-144	N2
1,2-Dichloroethane-d4 (S)	%				95	80-120	
4-Bromofluorobenzene (S)	%				96	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-225

Pace Project No.: 60163516

MATRIX SPIKE SAMPLE:		1334741					
Parameter	Units	60163516001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S) Preservation pH	%	6.0	6.0	6.0	105	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-225

Pace Project No.: 60163516

QC Batch:	OEXT/42886	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60163516001		

METHOD BLANK: 1335856 Matrix: Water

Associated Lab Samples: 60163516001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/28/14 13:07	
2,4,6-Trichlorophenol	ug/L	ND	5.0	02/28/14 13:07	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	02/28/14 13:07	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/28/14 13:07	
Hexachlorocyclopentadiene	ug/L	ND	5.0	02/28/14 13:07	
Hexachloroethane	ug/L	ND	5.0	02/28/14 13:07	
Naphthalene	ug/L	ND	5.0	02/28/14 13:07	
Nitrobenzene	ug/L	ND	5.0	02/28/14 13:07	
Pentachlorophenol	ug/L	ND	5.0	02/28/14 13:07	
Phenol	ug/L	ND	5.0	02/28/14 13:07	
2,4,6-Tribromophenol (S)	%	92	39-120	02/28/14 13:07	
2-Fluorobiphenyl (S)	%	83	39-120	02/28/14 13:07	
2-Fluorophenol (S)	%	43	17-120	02/28/14 13:07	
Nitrobenzene-d5 (S)	%	93	33-120	02/28/14 13:07	
Phenol-d6 (S)	%	23	11-120	02/28/14 13:07	
Terphenyl-d14 (S)	%	95	45-120	02/28/14 13:07	

LABORATORY CONTROL SAMPLE: 1335857

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.1	78	46-120	
2,4,6-Trichlorophenol	ug/L	50	39.7	79	49-120	
4,6-Dinitro-2-methylphenol	ug/L	50	43.3	87	40-133	
Hexachloro-1,3-butadiene	ug/L	50	39.9	80	44-116	
Hexachlorocyclopentadiene	ug/L	100	69.5	69	24-120	
Hexachloroethane	ug/L	50	39.6	79	43-113	
Naphthalene	ug/L	50	40.2	80	48-120	
Nitrobenzene	ug/L	50	47.3	95	48-120	
Pentachlorophenol	ug/L	50	45.7	91	47-120	
Phenol	ug/L	50	10.7	21	16-112	
2,4,6-Tribromophenol (S)	%			126	39-120	1e
2-Fluorobiphenyl (S)	%			78	39-120	
2-Fluorophenol (S)	%			42	17-120	
Nitrobenzene-d5 (S)	%			96	33-120	
Phenol-d6 (S)	%			23	11-120	
Terphenyl-d14 (S)	%			92	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-225

Pace Project No.: 60163516

MATRIX SPIKE SAMPLE:		1335858					
Parameter	Units	60163516001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3920	78	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4970	99	50-120	
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	3950J	79	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4110	82	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	7420	74	11-120	
Hexachloroethane	ug/L	ND	5000	4980	100	40-113	
Naphthalene	ug/L	ND	5000	4890	80	45-120	
Nitrobenzene	ug/L	ND	5000	6860	137	38-120	M1
Pentachlorophenol	ug/L	ND	5000	3830	77	43-135	
Phenol	ug/L	8320	5000	11100	55	13-112	
2,4,6-Tribromophenol (S)	%				100	39-120	
2-Fluorobiphenyl (S)	%				90	39-120	
2-Fluorophenol (S)	%				47	17-120	
Nitrobenzene-d5 (S)	%				148	33-120	S0
Phenol-d6 (S)	%				34	11-120	
Terphenyl-d14 (S)	%				105	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-225

Pace Project No.: 60163516

QC Batch:	WET/46370	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60163516001		

METHOD BLANK: 1335844 Matrix: Water
Associated Lab Samples: 60163516001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/27/14 10:52	

LABORATORY CONTROL SAMPLE: 1335845

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	40.6	102	78-114	

MATRIX SPIKE SAMPLE: 1335846

Parameter	Units	60163516001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	48.4	160	202	96	78-114	

SAMPLE DUPLICATE: 1335847

Parameter	Units	60163259002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	2.7J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-225

Pace Project No.: 60163516

QC Batch: WET/46401

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60163516001

METHOD BLANK: 1336809

Matrix: Water

Associated Lab Samples: 60163516001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	02/28/14 09:55	

LABORATORY CONTROL SAMPLE: 1336810

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: 1336811

Parameter	Units	60163142001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20.6	22.1	91	64-132	

MATRIX SPIKE SAMPLE: 1336813

Parameter	Units	60163516001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	12.0	80	98.4	108	64-132	

SAMPLE DUPLICATE: 1336812

Parameter	Units	60163143001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	1.9J		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-225

Pace Project No.: 60163516

QC Batch: WET/46340

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60163516001

METHOD BLANK: 1335269

Matrix: Water

Associated Lab Samples: 60163516001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	02/26/14 07:39	

SAMPLE DUPLICATE: 1335270

Parameter	Units	60163362003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	55.0	59.0	7	10	

SAMPLE DUPLICATE: 1335271

Parameter	Units	60163516001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3860	4280	10	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-225

Pace Project No.: 60163516

QC Batch: WET/46280 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60163516001

SAMPLE DUPLICATE: 1333839

Parameter	Units	60163408001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.0	8.1	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-225

Pace Project No.: 60163516

QC Batch:	WET/46282	Analysis Method:	SM 5210B
QC Batch Method:	SM 5210B	Analysis Description:	5210B BOD, 5 day
Associated Lab Samples:	60163516001		

METHOD BLANK: 1333843 Matrix: Water
Associated Lab Samples: 60163516001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	02/27/14 12:05	

LABORATORY CONTROL SAMPLE: 1333844

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	197	100	85-115	

SAMPLE DUPLICATE: 1333845

Parameter	Units	60163513001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	158	131	18	17	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-225

Pace Project No.: 60163516

QC Batch: WETA/28355

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60163516001

METHOD BLANK: 1335243

Matrix: Water

Associated Lab Samples: 60163516001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/26/14 10:26	

LABORATORY CONTROL SAMPLE: 1335244

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	99	90-110	

MATRIX SPIKE SAMPLE: 1335245

Parameter	Units	60163481006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.0	94	90-110	

MATRIX SPIKE SAMPLE: 1335246

Parameter	Units	60163496001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2.1	2	3.8	83	90-110	M1

SAMPLE DUPLICATE: 1335247

Parameter	Units	60163516001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	591	618	4	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-225

Pace Project No.: 60163516

QC Batch:	WETA/28343	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60163516001		

METHOD BLANK: 1334642 Matrix: Water
Associated Lab Samples: 60163516001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	03/03/14 08:19	

LABORATORY CONTROL SAMPLE: 1334643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	49.6	99	90-110	

MATRIX SPIKE SAMPLE: 1334646

Parameter	Units	60163258001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	1570	2500	3960	96	90-110	

SAMPLE DUPLICATE: 1334645

Parameter	Units	60163516001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	63900	62000	3	25	

SAMPLE DUPLICATE: 1337915

Parameter	Units	60163351001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	742	751	1	25	

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QUALIFIERS

Project: BRIDGETON LF 316-225

Pace Project No.: 60163516

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 Surrogate recovery outside laboratory control limits. No further action was taken since all spike recoveries were within QC limits.
- 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 316-225

Pace Project No.: 60163516

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60163516001	316-225	EPA 200.7	MPRP/26270	EPA 200.7	ICP/20058
60163516001	316-225	EPA 200.7	MPRP/26231	EPA 200.7	ICP/20034
60163516001	316-225	EPA 245.1	MERP/8165	EPA 245.1	MERC/8116
60163516001	316-225	EPA 245.1	MERP/8166	EPA 245.1	MERC/8122
60163516001	316-225	EPA 625	OEXT/42886	EPA 625	MSSV/13662
60163516001	316-225	EPA 624 Low	MSV/59603		
60163516002	TRIP BLANK	EPA 624 Low	MSV/59603		
60163516001	316-225	EPA 1664A	WET/46370		
60163516001	316-225	EPA 1664A	WET/46401		
60163516001	316-225	SM 2540D	WET/46340		
60163516001	316-225	SM 4500-H+B	WET/46280		
60163516001	316-225	SM 5210B	WET/46282	SM 5210B	WET/46441
60163516001	316-225	EPA 350.1	WETA/28355		
60163516001	316-225	EPA 410.4	WETA/28343		

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Sample Condition Upon Receipt

WO#: 60163516
60163516

Client Name: Barr Engineering

Courier: Fed Ex UPS USPS Client Commercial Pace Other 4-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 Samples received on ice, cooling process has begun. (circle one)

Cooler Temperature: 2-8

Date and initials of person examining contents: 2/22/14

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOD, pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	initial pH HNO3 4.5, added 2.5mL final 3.0
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	initial pH H2SO4 4.5, added 2.5mL final 2.0
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	initial when completed <u>(initials)</u> Lot # of added HNO3 - 12513-14-9 preservative 12504-12514-37-3
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>071513-3</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MD</u>

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: (signature)

Date: 2/22/14

March 03, 2014

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

RE: Project: BRIDGETON LF 316-227
Pace Project No.: 60163572

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 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 316-227

Pace Project No.: 60163572

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 316-227

Pace Project No.: 60163572

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60163572001	316-227	Water	02/23/14 09:30	02/24/14 13:15
60163572002	TRIP BLANK	Water	02/23/14 09:30	02/24/14 13:15

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-227

Pace Project No.: 60163572

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60163572001	316-227	EPA 200.7	JGP, TJT	15
		EPA 200.7	JGP	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC1	1
		SM 4500-H+B	RAH	1
		SM 5210B	JML	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60163572002	TRIP BLANK	EPA 624 Low

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-227

Pace Project No.: 60163572

Sample: 316-227		Lab ID: 60163572001	Collected: 02/23/14 09:30	Received: 02/24/14 13:15	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	9730 ug/L		1120	3	02/27/14 08:55	02/28/14 13:08	7429-90-5	
Antimony	94.8 ug/L		50.0	1	02/27/14 08:55	02/27/14 16:00	7440-36-0	
Arsenic	1110 ug/L		50.0	1	02/27/14 08:55	02/27/14 16:00	7440-38-2	
Beryllium	ND ug/L		5.0	1	02/27/14 08:55	02/28/14 12:20	7440-41-7	
Cadmium	ND ug/L		25.0	1	02/27/14 08:55	02/27/14 16:00	7440-43-9	
Chromium	400 ug/L		25.0	1	02/27/14 08:55	02/27/14 16:00	7440-47-3	
Cobalt	55.6 ug/L		25.0	1	02/27/14 08:55	02/27/14 16:00	7440-48-4	
Copper	ND ug/L		50.0	1	02/27/14 08:55	02/27/14 16:00	7440-50-8	
Iron	1280000 ug/L		250	1	02/27/14 08:55	02/28/14 12:20	7439-89-6	
Lead	191 ug/L		25.0	1	02/27/14 08:55	02/27/14 16:00	7439-92-1	
Nickel	142 ug/L		25.0	1	02/27/14 08:55	02/27/14 16:00	7440-02-0	
Selenium	75.9 ug/L		75.0	1	02/27/14 08:55	02/27/14 16:00	7782-49-2	
Silver	ND ug/L		35.0	1	02/27/14 08:55	02/27/14 16:00	7440-22-4	
Thallium	ND ug/L		100	1	02/27/14 08:55	02/27/14 16:00	7440-28-0	
Zinc	11500 ug/L		750	3	02/27/14 08:55	02/28/14 13:08	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	2610 ug/L		750	2	02/26/14 14:15	02/27/14 10:02	7429-90-5	
Antimony, Dissolved	ND ug/L		100	2	02/26/14 14:15	02/27/14 10:02	7440-36-0	D3
Arsenic, Dissolved	1010 ug/L		50.0	1	02/26/14 14:15	02/27/14 09:58	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	02/26/14 14:15	02/27/14 09:58	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	02/26/14 14:15	02/27/14 09:58	7440-43-9	
Chromium, Dissolved	290 ug/L		25.0	1	02/26/14 14:15	02/27/14 09:58	7440-47-3	
Cobalt, Dissolved	46.0 ug/L		25.0	1	02/26/14 14:15	02/27/14 09:58	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	02/26/14 14:15	02/27/14 09:58	7440-50-8	
Iron, Dissolved	863000 ug/L		250	1	02/26/14 14:15	02/27/14 09:58	7439-89-6	M1
Lead, Dissolved	127 ug/L		25.0	1	02/26/14 14:15	02/27/14 09:58	7439-92-1	
Nickel, Dissolved	128 ug/L		25.0	1	02/26/14 14:15	02/27/14 09:58	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	02/26/14 14:15	02/27/14 09:58	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	02/26/14 14:15	02/27/14 09:58	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	02/26/14 14:15	02/27/14 09:58	7440-28-0	
Zinc, Dissolved	10000 ug/L		500	2	02/26/14 14:15	02/27/14 10:02	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND ug/L		6.0	1	02/25/14 14:00	02/26/14 11:53	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	02/26/14 15:00	02/27/14 09:56	7439-97-6	M1,R1
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	02/27/14 00:00	02/28/14 17:16	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	02/27/14 00:00	02/28/14 17:16	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	02/27/14 00:00	02/28/14 17:16	77-47-4	
Hexachloroethane	ND ug/L		1000	2	02/27/14 00:00	02/28/14 17:16	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	02/27/14 00:00	02/28/14 17:16	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	9130 ug/L		4000	2	02/27/14 00:00	02/28/14 17:16		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-227

Pace Project No.: 60163572

Sample: 316-227		Lab ID: 60163572001	Collected: 02/23/14 09:30	Received: 02/24/14 13:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	1240 ug/L		1000	2	02/27/14 00:00	02/28/14 17:16	91-20-3	
Nitrobenzene	ND ug/L		1000	2	02/27/14 00:00	02/28/14 17:16	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	02/27/14 00:00	02/28/14 17:16	87-86-5	
Phenol	12600 ug/L		1000	2	02/27/14 00:00	02/28/14 17:16	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	02/27/14 00:00	02/28/14 17:16	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	02/27/14 00:00	02/28/14 17:16	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	197 %		33-120	2	02/27/14 00:00	02/28/14 17:16	4165-60-0	S0
2-Fluorobiphenyl (S)	94 %		39-120	2	02/27/14 00:00	02/28/14 17:16	321-60-8	
Terphenyl-d14 (S)	100 %		45-120	2	02/27/14 00:00	02/28/14 17:16	1718-51-0	
Phenol-d6 (S)	31 %		11-120	2	02/27/14 00:00	02/28/14 17:16	13127-88-3	
2-Fluorophenol (S)	38 %		17-120	2	02/27/14 00:00	02/28/14 17:16	367-12-4	
2,4,6-Tribromophenol (S)	82 %		39-120	2	02/27/14 00:00	02/28/14 17:16	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	140000 ug/L		2000	200		02/25/14 15:22	67-64-1	N2
Benzene	ND ug/L		200	200		02/25/14 15:22	71-43-2	
Bromodichloromethane	ND ug/L		200	200		02/25/14 15:22	75-27-4	
Bromoform	ND ug/L		200	200		02/25/14 15:22	75-25-2	
Bromomethane	ND ug/L		1000	200		02/25/14 15:22	74-83-9	
2-Butanone (MEK)	73600 ug/L		2000	200		02/25/14 15:22	78-93-3	N2
Carbon tetrachloride	ND ug/L		200	200		02/25/14 15:22	56-23-5	
Chloroethane	ND ug/L		200	200		02/25/14 15:22	75-00-3	
Chloroform	ND ug/L		200	200		02/25/14 15:22	67-66-3	
1,4-Dichlorobenzene	695 ug/L		200	200		02/25/14 15:22	106-46-7	
1,2-Dichloroethane	ND ug/L		200	200		02/25/14 15:22	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200	200		02/25/14 15:22	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		200	200		02/25/14 15:22	156-60-5	
Ethylbenzene	ND ug/L		200	200		02/25/14 15:22	100-41-4	
Methylene chloride	ND ug/L		200	200		02/25/14 15:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	2380 ug/L		2000	200		02/25/14 15:22	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		02/25/14 15:22	79-34-5	N2
Tetrachloroethene	ND ug/L		200	200		02/25/14 15:22	127-18-4	
Toluene	ND ug/L		200	200		02/25/14 15:22	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		02/25/14 15:22	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		02/25/14 15:22	79-00-5	
Trichloroethene	ND ug/L		200	200		02/25/14 15:22	79-01-6	
Vinyl chloride	ND ug/L		200	200		02/25/14 15:22	75-01-4	
Xylene (Total)	ND ug/L		600	200		02/25/14 15:22	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	200		02/25/14 15:22	460-00-4	
Toluene-d8 (S)	108 %		80-120	200		02/25/14 15:22	2037-26-5	
1,2-Dichloroethane-d4 (S)	103 %		80-120	200		02/25/14 15:22	17060-07-0	
Preservation pH	6.0		1.0	200		02/25/14 15:22		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	23.0 mg/L		5.0	1		02/27/14 10:56		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-227

Pace Project No.: 60163572

Sample: 316-227		Lab ID: 60163572001	Collected: 02/23/14 09:30	Received: 02/24/14 13:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	7.0	mg/L	5.0	1		02/28/14 09:58		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	5020	mg/L	5.0	1		02/26/14 07:43		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.3	Std. Units	0.10	1		02/26/14 14:35		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	18200	mg/L	2.0	1	02/24/14 15:08	03/01/14 13:27		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	657	mg/L	20.0	200		02/26/14 10:41	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	71100	mg/L	5000	500		03/03/14 08:24		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-227

Pace Project No.: 60163572

Sample: TRIP BLANK		Lab ID: 60163572002	Collected: 02/23/14 09:30	Received: 02/24/14 13:15	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		02/25/14 13:47	67-64-1	N2
Benzene	ND ug/L		1.0	1		02/25/14 13:47	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		02/25/14 13:47	75-27-4	
Bromoform	ND ug/L		1.0	1		02/25/14 13:47	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/25/14 13:47	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		02/25/14 13:47	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		02/25/14 13:47	56-23-5	
Chloroethane	ND ug/L		1.0	1		02/25/14 13:47	75-00-3	
Chloroform	ND ug/L		1.0	1		02/25/14 13:47	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		02/25/14 13:47	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		02/25/14 13:47	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		02/25/14 13:47	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		02/25/14 13:47	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		02/25/14 13:47	100-41-4	
Methylene chloride	ND ug/L		1.0	1		02/25/14 13:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		02/25/14 13:47	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		02/25/14 13:47	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		02/25/14 13:47	127-18-4	
Toluene	ND ug/L		1.0	1		02/25/14 13:47	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		02/25/14 13:47	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		02/25/14 13:47	79-00-5	
Trichloroethene	ND ug/L		1.0	1		02/25/14 13:47	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		02/25/14 13:47	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		02/25/14 13:47	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	1		02/25/14 13:47	460-00-4	
Toluene-d8 (S)	110 %		80-120	1		02/25/14 13:47	2037-26-5	
1,2-Dichloroethane-d4 (S)	86 %		80-120	1		02/25/14 13:47	17060-07-0	
Preservation pH	6.0		1.0	1		02/25/14 13:47		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-227

Pace Project No.: 60163572

QC Batch:	MERP/8172	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60163572001		

METHOD BLANK: 1334968 Matrix: Water
Associated Lab Samples: 60163572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/26/14 11:49	

LABORATORY CONTROL SAMPLE: 1334969

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	92	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334970 1334971

Parameter	Units	60163572001		MS		MSD		% Rec		Limits	RPD	Max RPD	Qual
		Result	ND	Spike Conc.	MS Conc.	Spike Conc.	MSD Conc.	MS % Rec	MSD % Rec				
Mercury	ug/L	ND	ND	150	150	116	121	74	78	70-130	4	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-227

Pace Project No.: 60163572

QC Batch: MERP/8178	Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1	Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60163572001	

METHOD BLANK: 1335591 Matrix: Water
Associated Lab Samples: 60163572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/27/14 09:52	

LABORATORY CONTROL SAMPLE: 1335592

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.6	112	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1335593 1335594

Parameter	Units	60163572001		MS		MSD		% Rec		Max		Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Mercury, Dissolved	ug/L	ND	150	150	95.4	53.1	64	35	70-130	57	20	M1,R1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-227
Pace Project No.: 60163572

QC Batch: MPRP/26270 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60163572001

METHOD BLANK: 1335893 Matrix: Water
Associated Lab Samples: 60163572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	02/27/14 14:21	
Antimony	ug/L	ND	10.0	02/27/14 14:21	
Arsenic	ug/L	ND	10.0	02/27/14 14:21	
Beryllium	ug/L	ND	1.0	02/27/14 14:21	
Cadmium	ug/L	ND	5.0	02/27/14 14:21	
Chromium	ug/L	ND	5.0	02/27/14 14:21	
Cobalt	ug/L	ND	5.0	02/27/14 14:21	
Copper	ug/L	ND	10.0	02/27/14 14:21	
Iron	ug/L	ND	50.0	02/27/14 14:21	
Lead	ug/L	ND	5.0	02/27/14 14:21	
Nickel	ug/L	ND	5.0	02/27/14 14:21	
Selenium	ug/L	ND	15.0	02/27/14 14:21	
Silver	ug/L	ND	7.0	02/27/14 14:21	
Thallium	ug/L	ND	20.0	02/27/14 14:21	
Zinc	ug/L	ND	50.0	02/27/14 14:21	

LABORATORY CONTROL SAMPLE: 1335894

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10000	100	85-115	
Antimony	ug/L	1000	992	99	85-115	
Arsenic	ug/L	1000	961	96	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1000	100	85-115	
Chromium	ug/L	1000	1060	106	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	995	99	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	984	98	85-115	
Silver	ug/L	500	497	99	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	1040	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1335895 1335896

Parameter	Units	60163516001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Aluminum	ug/L	8850	50000	50000	50000	66000	66500	114	115	70-130	1	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-227

Pace Project No.: 60163572

Parameter	Units	1335895		1335896		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60163516001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Antimony	ug/L	72.2	5000	5000	5280	5320	104	105	70-130	1	7
Arsenic	ug/L	962	5000	5000	6550	6580	112	112	70-130	1	10
Beryllium	ug/L	ND	5000	5000	5020	5060	100	101	70-130	1	7
Cadmium	ug/L	ND	5000	5000	5280	5340	105	107	70-130	1	10
Chromium	ug/L	344	5000	5000	5420	5460	102	102	70-130	1	10
Cobalt	ug/L	52.4	5000	5000	4880	4930	97	98	70-130	1	6
Copper	ug/L	ND	5000	5000	5200	5240	103	104	70-130	1	11
Iron	ug/L	1110000	50000	50000	1230000	1210000	239	197	70-130	2	10 M1
Lead	ug/L	142	5000	5000	4710	4750	91	92	70-130	1	10
Nickel	ug/L	140	5000	5000	4940	4940	96	96	70-130	0	10
Selenium	ug/L	ND	5000	5000	6080	6090	120	121	70-130	0	10
Silver	ug/L	ND	2500	2500	2640	2650	105	105	70-130	0	10
Thallium	ug/L	ND	5000	5000	4160	4160	83	83	70-130	0	6
Zinc	ug/L	10300	5000	5000	16000	15500	116	105	70-130	3	11

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-227
Pace Project No.: 60163572

QC Batch: MPRP/26265 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60163572001

METHOD BLANK: 1335554 Matrix: Water
Associated Lab Samples: 60163572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	02/27/14 09:54	
Antimony, Dissolved	ug/L	ND	10.0	02/27/14 09:54	
Arsenic, Dissolved	ug/L	ND	10.0	02/27/14 09:54	
Beryllium, Dissolved	ug/L	ND	1.0	02/27/14 09:54	
Cadmium, Dissolved	ug/L	ND	5.0	02/27/14 09:54	
Chromium, Dissolved	ug/L	ND	5.0	02/27/14 09:54	
Cobalt, Dissolved	ug/L	ND	5.0	02/27/14 09:54	
Copper, Dissolved	ug/L	ND	10.0	02/27/14 09:54	
Iron, Dissolved	ug/L	ND	50.0	02/27/14 09:54	
Lead, Dissolved	ug/L	ND	5.0	02/27/14 09:54	
Nickel, Dissolved	ug/L	ND	5.0	02/27/14 09:54	
Selenium, Dissolved	ug/L	ND	15.0	02/27/14 09:54	
Silver, Dissolved	ug/L	ND	7.0	02/27/14 09:54	
Thallium, Dissolved	ug/L	ND	20.0	02/27/14 09:54	
Zinc, Dissolved	ug/L	ND	50.0	02/27/14 09:54	

LABORATORY CONTROL SAMPLE: 1335555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9450	94	85-115	
Antimony, Dissolved	ug/L	1000	984	98	85-115	
Arsenic, Dissolved	ug/L	1000	970	97	85-115	
Beryllium, Dissolved	ug/L	1000	984	98	85-115	
Cadmium, Dissolved	ug/L	1000	955	96	85-115	
Chromium, Dissolved	ug/L	1000	964	96	85-115	
Cobalt, Dissolved	ug/L	1000	979	98	85-115	
Copper, Dissolved	ug/L	1000	962	96	85-115	
Iron, Dissolved	ug/L	10000	9460	95	85-115	
Lead, Dissolved	ug/L	1000	969	97	85-115	
Nickel, Dissolved	ug/L	1000	1000	100	85-115	
Selenium, Dissolved	ug/L	1000	982	98	85-115	
Silver, Dissolved	ug/L	500	466	93	85-115	
Thallium, Dissolved	ug/L	1000	1000	100	85-115	
Zinc, Dissolved	ug/L	1000	950	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1335556 1335557

Parameter	Units	60163572001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Aluminum, Dissolved	ug/L	2610	50000	50000	50200	51800	95	98	70-130	3	8		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-227

Pace Project No.: 60163572

Parameter	Units	1335556		1335557		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		60163572001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Antimony, Dissolved	ug/L	ND	5000	5000	5140	5370	102	106	70-130	4	7
Arsenic, Dissolved	ug/L	1010	5000	5000	6320	6580	106	111	70-130	4	10
Beryllium, Dissolved	ug/L	ND	5000	5000	4590	4780	92	96	70-130	4	7
Cadmium, Dissolved	ug/L	ND	5000	5000	4960	5260	99	105	70-130	6	10
Chromium, Dissolved	ug/L	290	5000	5000	4840	5020	91	95	70-130	4	10
Cobalt, Dissolved	ug/L	46.0	5000	5000	4530	4770	90	94	70-130	5	6
Copper, Dissolved	ug/L	ND	5000	5000	5060	5360	101	107	70-130	6	11
Iron, Dissolved	ug/L	863000	50000	50000	848000	887000	-31	48	70-130	5	10 M1
Lead, Dissolved	ug/L	127	5000	5000	4330	4530	84	88	70-130	5	10
Nickel, Dissolved	ug/L	128	5000	5000	4650	4860	90	95	70-130	4	10
Selenium, Dissolved	ug/L	ND	5000	5000	5940	6280	118	125	70-130	6	10
Silver, Dissolved	ug/L	ND	2500	2500	2550	2680	102	107	70-130	5	10
Thallium, Dissolved	ug/L	ND	5000	5000	4140	4340	83	87	70-130	5	6
Zinc, Dissolved	ug/L	10000	5000	5000	13800	14400	76	87	70-130	4	11

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-227

Pace Project No.: 60163572

QC Batch: MSV/59603 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60163572001, 60163572002

METHOD BLANK: 1334739 Matrix: Water

Associated Lab Samples: 60163572001, 60163572002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/25/14 10:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/25/14 10:06	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	02/25/14 10:06	
1,2-Dichloroethane	ug/L	ND	1.0	02/25/14 10:06	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/25/14 10:06	
2-Butanone (MEK)	ug/L	ND	10.0	02/25/14 10:06	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/25/14 10:06	N2
Acetone	ug/L	ND	10.0	02/25/14 10:06	N2
Benzene	ug/L	ND	1.0	02/25/14 10:06	
Bromodichloromethane	ug/L	ND	1.0	02/25/14 10:06	
Bromoform	ug/L	ND	1.0	02/25/14 10:06	
Bromomethane	ug/L	ND	5.0	02/25/14 10:06	
Carbon tetrachloride	ug/L	ND	1.0	02/25/14 10:06	
Chloroethane	ug/L	ND	1.0	02/25/14 10:06	
Chloroform	ug/L	ND	1.0	02/25/14 10:06	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/25/14 10:06	N2
Ethylbenzene	ug/L	ND	1.0	02/25/14 10:06	
Methylene chloride	ug/L	ND	1.0	02/25/14 10:06	
Tetrachloroethene	ug/L	ND	1.0	02/25/14 10:06	
Toluene	ug/L	ND	1.0	02/25/14 10:06	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/25/14 10:06	
Trichloroethene	ug/L	ND	1.0	02/25/14 10:06	
Vinyl chloride	ug/L	ND	1.0	02/25/14 10:06	
Xylene (Total)	ug/L	ND	3.0	02/25/14 10:06	N2
1,2-Dichloroethane-d4 (S)	%	91	80-120	02/25/14 10:06	
4-Bromofluorobenzene (S)	%	104	80-120	02/25/14 10:06	
Toluene-d8 (S)	%	108	80-120	02/25/14 10:06	

LABORATORY CONTROL SAMPLE: 1334740

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.0	105	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	21.8	109	67-127	N2
1,1,2-Trichloroethane	ug/L	20	21.9	110	67-124	
1,2-Dichloroethane	ug/L	20	18.8	94	70-126	
1,4-Dichlorobenzene	ug/L	20	20.7	103	74-120	
2-Butanone (MEK)	ug/L	100	102	102	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	120	120	59-131	N2
Acetone	ug/L	100	98.5	98	38-134	N2
Benzene	ug/L	20	19.1	96	75-120	
Bromodichloromethane	ug/L	20	21.3	107	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-227

Pace Project No.: 60163572

LABORATORY CONTROL SAMPLE: 1334740

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	22.5	112	65-127	
Bromomethane	ug/L	20	21.4	107	13-157	
Carbon tetrachloride	ug/L	20	19.2	96	70-131	
Chloroethane	ug/L	20	20.3	102	47-133	
Chloroform	ug/L	20	22.0	110	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.9	105	68-127	N2
Ethylbenzene	ug/L	20	19.2	96	74-122	
Methylene chloride	ug/L	20	22.1	110	64-129	
Tetrachloroethene	ug/L	20	18.1	90	73-125	
Toluene	ug/L	20	20.5	103	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.9	105	66-129	
Trichloroethene	ug/L	20	19.8	99	71-123	
Vinyl chloride	ug/L	20	19.7	98	43-129	
Xylene (Total)	ug/L	60	58.0	97	75-121	N2
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			103	80-120	

MATRIX SPIKE SAMPLE: 1334741

Parameter	Units	60163516001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3940	98	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3890	93	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4440	111	52-143	
1,2-Dichloroethane	ug/L	ND	4000	3610	90	49-144	
1,4-Dichlorobenzene	ug/L	723	4000	4510	95	33-140	
2-Butanone (MEK)	ug/L	63900	20000	99600	179	40-160	M1,N2
4-Methyl-2-pentanone (MIBK)	ug/L	3180	20000	28300	125	40-160	N2
Acetone	ug/L	129000	20000	145000	82	10-160	N2
Benzene	ug/L	ND	4000	3880	97	37-151	
Bromodichloromethane	ug/L	ND	4000	4110	103	35-142	
Bromoform	ug/L	ND	4000	4470	112	45-142	
Bromomethane	ug/L	ND	4000	3980	99	10-158	
Carbon tetrachloride	ug/L	ND	4000	4240	106	70-140	
Chloroethane	ug/L	ND	4000	3940	98	19-152	
Chloroform	ug/L	ND	4000	4220	105	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	4130	103	34-147	N2
Ethylbenzene	ug/L	ND	4000	3760	93	40-142	
Methylene chloride	ug/L	ND	4000	4500	113	31-144	
Tetrachloroethene	ug/L	ND	4000	3830	96	64-148	
Toluene	ug/L	ND	4000	4210	105	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4090	102	54-151	
Trichloroethene	ug/L	ND	4000	4110	103	71-149	
Vinyl chloride	ug/L	ND	4000	3970	99	22-146	
Xylene (Total)	ug/L	ND	12000	11900	99	37-144	N2
1,2-Dichloroethane-d4 (S)	%				95	80-120	
4-Bromofluorobenzene (S)	%				96	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-227

Pace Project No.: 60163572

MATRIX SPIKE SAMPLE:		1334741					
Parameter	Units	60163516001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S) Preservation pH	%	6.0	6.0	6.0	105	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-227

Pace Project No.: 60163572

QC Batch:	OEXT/42886	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60163572001		

METHOD BLANK: 1335856 Matrix: Water

Associated Lab Samples: 60163572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/28/14 13:07	
2,4,6-Trichlorophenol	ug/L	ND	5.0	02/28/14 13:07	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	02/28/14 13:07	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	02/28/14 13:07	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	02/28/14 13:07	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/28/14 13:07	
Hexachlorocyclopentadiene	ug/L	ND	5.0	02/28/14 13:07	
Hexachloroethane	ug/L	ND	5.0	02/28/14 13:07	
Naphthalene	ug/L	ND	5.0	02/28/14 13:07	
Nitrobenzene	ug/L	ND	5.0	02/28/14 13:07	
Pentachlorophenol	ug/L	ND	5.0	02/28/14 13:07	
Phenol	ug/L	ND	5.0	02/28/14 13:07	
2,4,6-Tribromophenol (S)	%	92	39-120	02/28/14 13:07	
2-Fluorobiphenyl (S)	%	83	39-120	02/28/14 13:07	
2-Fluorophenol (S)	%	43	17-120	02/28/14 13:07	
Nitrobenzene-d5 (S)	%	93	33-120	02/28/14 13:07	
Phenol-d6 (S)	%	23	11-120	02/28/14 13:07	
Terphenyl-d14 (S)	%	95	45-120	02/28/14 13:07	

LABORATORY CONTROL SAMPLE: 1335857

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.1	78	46-120	
2,4,6-Trichlorophenol	ug/L	50	39.7	79	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	32.5	65		N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	24.4	49		N2
4,6-Dinitro-2-methylphenol	ug/L	50	43.3	87	40-133	
Hexachloro-1,3-butadiene	ug/L	50	39.9	80	44-116	
Hexachlorocyclopentadiene	ug/L	100	69.5	69	24-120	
Hexachloroethane	ug/L	50	39.6	79	43-113	
Naphthalene	ug/L	50	40.2	80	48-120	
Nitrobenzene	ug/L	50	47.3	95	48-120	
Pentachlorophenol	ug/L	50	45.7	91	47-120	
Phenol	ug/L	50	10.7	21	16-112	
2,4,6-Tribromophenol (S)	%			126	39-120	1e
2-Fluorobiphenyl (S)	%			78	39-120	
2-Fluorophenol (S)	%			42	17-120	
Nitrobenzene-d5 (S)	%			96	33-120	
Phenol-d6 (S)	%			23	11-120	
Terphenyl-d14 (S)	%			92	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-227

Pace Project No.: 60163572

MATRIX SPIKE SAMPLE:		1335858					
Parameter	Units	60163516001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3920	78	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4970	99	50-120	
2-Methylphenol(o-Cresol)	ug/L			4360			N2
3&4-Methylphenol(m&p Cresol)	ug/L			11000			N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	3950J	79	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4110	82	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	7420	74	11-120	
Hexachloroethane	ug/L	ND	5000	4980	100	40-113	
Naphthalene	ug/L	ND	5000	4890	80	45-120	
Nitrobenzene	ug/L	ND	5000	6860	137	38-120	M1
Pentachlorophenol	ug/L	ND	5000	3830	77	43-135	
Phenol	ug/L	8320	5000	11100	55	13-112	
2,4,6-Tribromophenol (S)	%				100	39-120	
2-Fluorobiphenyl (S)	%				90	39-120	
2-Fluorophenol (S)	%				47	17-120	
Nitrobenzene-d5 (S)	%				148	33-120	SO
Phenol-d6 (S)	%				34	11-120	
Terphenyl-d14 (S)	%				105	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-227

Pace Project No.: 60163572

QC Batch:	WET/46370	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60163572001		

METHOD BLANK: 1335844 Matrix: Water
Associated Lab Samples: 60163572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/27/14 10:52	

LABORATORY CONTROL SAMPLE: 1335845

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	40.6	102	78-114	

MATRIX SPIKE SAMPLE: 1335846

Parameter	Units	60163516001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	48.4	160	202	96	78-114	

SAMPLE DUPLICATE: 1335847

Parameter	Units	60163259002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	2.7J		18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-227

Pace Project No.: 60163572

QC Batch:	WET/46401	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60163572001		

METHOD BLANK: 1336809 Matrix: Water
Associated Lab Samples: 60163572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	02/28/14 09:55	

LABORATORY CONTROL SAMPLE: 1336810

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: 1336811

Parameter	Units	60163142001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20.6	22.1	91	64-132	

MATRIX SPIKE SAMPLE: 1336813

Parameter	Units	60163516001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	12.0	80	98.4	108	64-132	

SAMPLE DUPLICATE: 1336812

Parameter	Units	60163143001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	1.9J		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-227

Pace Project No.: 60163572

QC Batch: WET/46340

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60163572001

METHOD BLANK: 1335269

Matrix: Water

Associated Lab Samples: 60163572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	02/26/14 07:39	

SAMPLE DUPLICATE: 1335270

Parameter	Units	60163362003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	55.0	59.0	7	10	

SAMPLE DUPLICATE: 1335271

Parameter	Units	60163516001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3860	4280	10	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-227

Pace Project No.: 60163572

QC Batch: WET/46361 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60163572001

SAMPLE DUPLICATE: 1335603

Parameter	Units	60163529001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.0	8.0	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-227

Pace Project No.: 60163572

QC Batch: WET/46292

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60163572001

METHOD BLANK: 1334449

Matrix: Water

Associated Lab Samples: 60163572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	03/01/14 13:20	

LABORATORY CONTROL SAMPLE: 1334450

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	176	89	85-115	

SAMPLE DUPLICATE: 1334451

Parameter	Units	60163569002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	636	619	3	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-227

Pace Project No.: 60163572

QC Batch: WETA/28355

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60163572001

METHOD BLANK: 1335243

Matrix: Water

Associated Lab Samples: 60163572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/26/14 10:26	

LABORATORY CONTROL SAMPLE: 1335244

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	99	90-110	

MATRIX SPIKE SAMPLE: 1335245

Parameter	Units	60163481006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.0	94	90-110	

MATRIX SPIKE SAMPLE: 1335246

Parameter	Units	60163496001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2.1	2	3.8	83	90-110	M1

SAMPLE DUPLICATE: 1335247

Parameter	Units	60163516001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	591	618	4	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-227

Pace Project No.: 60163572

QC Batch: WETA/28343 Analysis Method: EPA 410.4
 QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
 Associated Lab Samples: 60163572001

METHOD BLANK: 1334642 Matrix: Water
 Associated Lab Samples: 60163572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	03/03/14 08:19	

LABORATORY CONTROL SAMPLE: 1334643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	49.6	99	90-110	

MATRIX SPIKE SAMPLE: 1334646

Parameter	Units	60163258001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	1570	2500	3960	96	90-110	

SAMPLE DUPLICATE: 1334645

Parameter	Units	60163516001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	63900	62000	3	25	

SAMPLE DUPLICATE: 1337915

Parameter	Units	60163351001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	742	751	1	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-227

Pace Project No.: 60163572

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 Surrogate recovery outside laboratory control limits. No further action was taken since all spike recoveries were within QC limits.
- 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.
- R1 RPD value was outside control limits.
- S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-227

Pace Project No.: 60163572

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60163572001	316-227	EPA 200.7	MPRP/26270	EPA 200.7	ICP/20058
60163572001	316-227	EPA 200.7	MPRP/26265	EPA 200.7	ICP/20054
60163572001	316-227	EPA 245.1	MERP/8172	EPA 245.1	MERC/8127
60163572001	316-227	EPA 245.1	MERP/8178	EPA 245.1	MERC/8133
60163572001	316-227	EPA 625	OEXT/42886	EPA 625	MSSV/13662
60163572001	316-227	EPA 624 Low	MSV/59603		
60163572002	TRIP BLANK	EPA 624 Low	MSV/59603		
60163572001	316-227	EPA 1664A	WET/46370		
60163572001	316-227	EPA 1664A	WET/46401		
60163572001	316-227	SM 2540D	WET/46340		
60163572001	316-227	SM 4500-H+B	WET/46361		
60163572001	316-227	SM 5210B	WET/46292	SM 5210B	WET/46434
60163572001	316-227	EPA 350.1	WETA/28355		
60163572001	316-227	EPA 410.4	WETA/28343		

REPORT OF LABORATORY ANALYSIS

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WO#: 60163572



60163572



Sample Condition Upon Receipt

Client Name: Barr King

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.

Cooler Temperature: 4.6

Date and initials of person examining contents: hw 2/24/14

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>bar pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	HNO ₃ initial pH ~6.0; added 2.5 ml; final pH ~4.0 H ₂ SO ₄ initial pH ~6.0; added 2 ml; final pH ~3.0
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, coliform, TOC, ORP , WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>hw</u> Lot # of added preservative <u>12513</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased):		15.
Headspace in VOA vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16. <u>4 of 5 sample vials have HS</u>
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MO</u>

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature]

Date: 2/24/14

March 03, 2014

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

RE: Project: BRIDGETON LF 316-226
Pace Project No.: 60163573

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-226

Pace Project No.: 60163573

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-226

Pace Project No.: 60163573

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60163573001	316-226	Water	02/22/14 15:15	02/24/14 13:15
60163573002	TRIP BLANK	Water	02/23/14 15:15	02/24/14 13:15

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-226

Pace Project No.: 60163573

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60163573001	316-226	EPA 200.7	JGP, TJT	15
		EPA 200.7	JGP	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC1	1
		SM 4500-H+B	RAH	1
		SM 5210B	JML	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60163573002	TRIP BLANK	EPA 624 Low

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PROJECT NARRATIVE

Project: BRIDGETON LF 316-226

Pace Project No.: 60163573

Date: March 03, 2014

The samples were received outside of required temperature range. Analysis was completed upon client approval.

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-226

Pace Project No.: 60163573

Sample: 316-226		Lab ID: 60163573001	Collected: 02/22/14 15:15	Received: 02/24/14 13:15	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	8010 ug/L		1120	3	02/27/14 08:55	02/28/14 13:10	7429-90-5	
Antimony	77.2 ug/L		50.0	1	02/27/14 08:55	02/27/14 16:09	7440-36-0	
Arsenic	1130 ug/L		50.0	1	02/27/14 08:55	02/27/14 16:09	7440-38-2	
Beryllium	ND ug/L		10.0	2	02/27/14 08:55	02/28/14 12:27	7440-41-7	D3
Cadmium	ND ug/L		25.0	1	02/27/14 08:55	02/27/14 16:09	7440-43-9	
Chromium	403 ug/L		25.0	1	02/27/14 08:55	02/27/14 16:09	7440-47-3	
Cobalt	53.3 ug/L		25.0	1	02/27/14 08:55	02/27/14 16:09	7440-48-4	
Copper	ND ug/L		50.0	1	02/27/14 08:55	02/27/14 16:09	7440-50-8	
Iron	1220000 ug/L		250	1	02/27/14 08:55	02/28/14 12:25	7439-89-6	
Lead	167 ug/L		25.0	1	02/27/14 08:55	02/27/14 16:09	7439-92-1	
Nickel	149 ug/L		25.0	1	02/27/14 08:55	02/27/14 16:09	7440-02-0	
Selenium	96.4 ug/L		75.0	1	02/27/14 08:55	02/27/14 16:09	7782-49-2	
Silver	ND ug/L		35.0	1	02/27/14 08:55	02/27/14 16:09	7440-22-4	
Thallium	ND ug/L		100	1	02/27/14 08:55	02/27/14 16:09	7440-28-0	
Zinc	11600 ug/L		750	3	02/27/14 08:55	02/28/14 13:10	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	2660 ug/L		750	2	02/26/14 14:15	02/27/14 10:30	7429-90-5	
Antimony, Dissolved	ND ug/L		100	2	02/26/14 14:15	02/27/14 10:30	7440-36-0	D3
Arsenic, Dissolved	998 ug/L		50.0	1	02/26/14 14:15	02/27/14 10:26	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	02/26/14 14:15	02/27/14 10:26	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	02/26/14 14:15	02/27/14 10:26	7440-43-9	
Chromium, Dissolved	290 ug/L		25.0	1	02/26/14 14:15	02/27/14 10:26	7440-47-3	
Cobalt, Dissolved	48.5 ug/L		25.0	1	02/26/14 14:15	02/27/14 10:26	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	02/26/14 14:15	02/27/14 10:26	7440-50-8	
Iron, Dissolved	840000 ug/L		250	1	02/26/14 14:15	02/27/14 10:26	7439-89-6	
Lead, Dissolved	120 ug/L		25.0	1	02/26/14 14:15	02/27/14 10:26	7439-92-1	
Nickel, Dissolved	132 ug/L		25.0	1	02/26/14 14:15	02/27/14 10:26	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	02/26/14 14:15	02/27/14 10:26	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	02/26/14 14:15	02/27/14 10:26	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	02/26/14 14:15	02/27/14 10:26	7440-28-0	
Zinc, Dissolved	9820 ug/L		500	2	02/26/14 14:15	02/27/14 10:30	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND ug/L		6.0	1	02/25/14 14:00	02/26/14 12:00	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	02/26/14 15:00	02/27/14 10:03	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	02/27/14 00:00	02/28/14 17:37	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	02/27/14 00:00	02/28/14 17:37	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	02/27/14 00:00	02/28/14 17:37	77-47-4	
Hexachloroethane	ND ug/L		1000	2	02/27/14 00:00	02/28/14 17:37	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	02/27/14 00:00	02/28/14 17:37	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	10900 ug/L		4000	2	02/27/14 00:00	02/28/14 17:37		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-226

Pace Project No.: 60163573

Sample: 316-226	Lab ID: 60163573001	Collected: 02/22/14 15:15	Received: 02/24/14 13:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	ND ug/L		1000	2	02/27/14 00:00	02/28/14 17:37	91-20-3	
Nitrobenzene	ND ug/L		1000	2	02/27/14 00:00	02/28/14 17:37	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	02/27/14 00:00	02/28/14 17:37	87-86-5	
Phenol	14300 ug/L		1000	2	02/27/14 00:00	02/28/14 17:37	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	02/27/14 00:00	02/28/14 17:37	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	02/27/14 00:00	02/28/14 17:37	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	192 %		33-120	2	02/27/14 00:00	02/28/14 17:37	4165-60-0	S0
2-Fluorobiphenyl (S)	74 %		39-120	2	02/27/14 00:00	02/28/14 17:37	321-60-8	
Terphenyl-d14 (S)	100 %		45-120	2	02/27/14 00:00	02/28/14 17:37	1718-51-0	
Phenol-d6 (S)	34 %		11-120	2	02/27/14 00:00	02/28/14 17:37	13127-88-3	
2-Fluorophenol (S)	48 %		17-120	2	02/27/14 00:00	02/28/14 17:37	367-12-4	
2,4,6-Tribromophenol (S)	106 %		39-120	2	02/27/14 00:00	02/28/14 17:37	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	137000 ug/L		2000	200		02/25/14 15:38	67-64-1	N2
Benzene	ND ug/L		200	200		02/25/14 15:38	71-43-2	
Bromodichloromethane	ND ug/L		200	200		02/25/14 15:38	75-27-4	
Bromoform	ND ug/L		200	200		02/25/14 15:38	75-25-2	
Bromomethane	ND ug/L		1000	200		02/25/14 15:38	74-83-9	
2-Butanone (MEK)	71900 ug/L		2000	200		02/25/14 15:38	78-93-3	N2
Carbon tetrachloride	ND ug/L		200	200		02/25/14 15:38	56-23-5	
Chloroethane	ND ug/L		200	200		02/25/14 15:38	75-00-3	
Chloroform	ND ug/L		200	200		02/25/14 15:38	67-66-3	
1,4-Dichlorobenzene	300 ug/L		200	200		02/25/14 15:38	106-46-7	
1,2-Dichloroethane	ND ug/L		200	200		02/25/14 15:38	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200	200		02/25/14 15:38	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		200	200		02/25/14 15:38	156-60-5	
Ethylbenzene	ND ug/L		200	200		02/25/14 15:38	100-41-4	
Methylene chloride	ND ug/L		200	200		02/25/14 15:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2000	200		02/25/14 15:38	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		02/25/14 15:38	79-34-5	N2
Tetrachloroethene	ND ug/L		200	200		02/25/14 15:38	127-18-4	
Toluene	ND ug/L		200	200		02/25/14 15:38	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		02/25/14 15:38	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		02/25/14 15:38	79-00-5	
Trichloroethene	ND ug/L		200	200		02/25/14 15:38	79-01-6	
Vinyl chloride	ND ug/L		200	200		02/25/14 15:38	75-01-4	
Xylene (Total)	ND ug/L		600	200		02/25/14 15:38	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	102 %		80-120	200		02/25/14 15:38	460-00-4	HS
Toluene-d8 (S)	109 %		80-120	200		02/25/14 15:38	2037-26-5	
1,2-Dichloroethane-d4 (S)	91 %		80-120	200		02/25/14 15:38	17060-07-0	
Preservation pH	6.0		1.0	200		02/25/14 15:38		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	129 mg/L		5.0	1		02/27/14 10:56		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-226

Pace Project No.: 60163573

Sample: 316-226		Lab ID: 60163573001	Collected: 02/22/14 15:15	Received: 02/24/14 13:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	15.2	mg/L	5.0	1		02/28/14 09:58		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	4740	mg/L	5.0	1		02/26/14 07:43		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.3	Std. Units	0.10	1		02/26/14 14:35		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	17900	mg/L	2.0	1	02/24/14 15:13	03/01/14 13:28		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	636	mg/L	20.0	200		02/26/14 10:42	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	69400	mg/L	5000	500		03/03/14 08:25		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-226

Pace Project No.: 60163573

Sample: TRIP BLANK		Lab ID: 60163573002	Collected: 02/23/14 15:15	Received: 02/24/14 13:15	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		02/25/14 13:31	67-64-1	N2
Benzene	ND ug/L		1.0	1		02/25/14 13:31	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		02/25/14 13:31	75-27-4	
Bromoform	ND ug/L		1.0	1		02/25/14 13:31	75-25-2	
Bromomethane	ND ug/L		5.0	1		02/25/14 13:31	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		02/25/14 13:31	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		02/25/14 13:31	56-23-5	
Chloroethane	ND ug/L		1.0	1		02/25/14 13:31	75-00-3	
Chloroform	ND ug/L		1.0	1		02/25/14 13:31	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		02/25/14 13:31	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		02/25/14 13:31	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		02/25/14 13:31	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		02/25/14 13:31	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		02/25/14 13:31	100-41-4	
Methylene chloride	ND ug/L		1.0	1		02/25/14 13:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		02/25/14 13:31	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		02/25/14 13:31	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		02/25/14 13:31	127-18-4	
Toluene	ND ug/L		1.0	1		02/25/14 13:31	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		02/25/14 13:31	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		02/25/14 13:31	79-00-5	
Trichloroethene	ND ug/L		1.0	1		02/25/14 13:31	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		02/25/14 13:31	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		02/25/14 13:31	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	1		02/25/14 13:31	460-00-4	
Toluene-d8 (S)	109 %		80-120	1		02/25/14 13:31	2037-26-5	
1,2-Dichloroethane-d4 (S)	97 %		80-120	1		02/25/14 13:31	17060-07-0	
Preservation pH	6.0		1.0	1		02/25/14 13:31		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-226

Pace Project No.: 60163573

QC Batch: MERP/8178

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60163573001

METHOD BLANK: 1335591

Matrix: Water

Associated Lab Samples: 60163573001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/27/14 09:52	

LABORATORY CONTROL SAMPLE: 1335592

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.6	112	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1335593 1335594

Parameter	Units	60163572001		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	ND	Spike Conc.	Conc.	Result	Result	% Rec	% Rec					
Mercury, Dissolved	ug/L	ND	150	150	95.4	53.1	64	35	70-130	57	20	M1,R1		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-226

Pace Project No.: 60163573

QC Batch: MPRP/26270 Analysis Method: EPA 200.7
 QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
 Associated Lab Samples: 60163573001

METHOD BLANK: 1335893 Matrix: Water

Associated Lab Samples: 60163573001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	02/27/14 14:21	
Antimony	ug/L	ND	10.0	02/27/14 14:21	
Arsenic	ug/L	ND	10.0	02/27/14 14:21	
Beryllium	ug/L	ND	1.0	02/27/14 14:21	
Cadmium	ug/L	ND	5.0	02/27/14 14:21	
Chromium	ug/L	ND	5.0	02/27/14 14:21	
Cobalt	ug/L	ND	5.0	02/27/14 14:21	
Copper	ug/L	ND	10.0	02/27/14 14:21	
Iron	ug/L	ND	50.0	02/27/14 14:21	
Lead	ug/L	ND	5.0	02/27/14 14:21	
Nickel	ug/L	ND	5.0	02/27/14 14:21	
Selenium	ug/L	ND	15.0	02/27/14 14:21	
Silver	ug/L	ND	7.0	02/27/14 14:21	
Thallium	ug/L	ND	20.0	02/27/14 14:21	
Zinc	ug/L	ND	50.0	02/27/14 14:21	

LABORATORY CONTROL SAMPLE: 1335894

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10000	100	85-115	
Antimony	ug/L	1000	992	99	85-115	
Arsenic	ug/L	1000	961	96	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1000	100	85-115	
Chromium	ug/L	1000	1060	106	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	995	99	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	984	98	85-115	
Silver	ug/L	500	497	99	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	1040	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1335895 1335896

Parameter	Units	60163516001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Aluminum	ug/L	8850	50000	50000	50000	66000	66500	114	115	70-130	1	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-226

Pace Project No.: 60163573

Parameter	Units	1335895		1335896		MS % Rec	MSD % Rec	% Rec	Limits	RPD	Max RPD	Qual
		60163516001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Antimony	ug/L	72.2	5000	5000	5280	5320	104	105	70-130	1	7	
Arsenic	ug/L	962	5000	5000	6550	6580	112	112	70-130	1	10	
Beryllium	ug/L	ND	5000	5000	5020	5060	100	101	70-130	1	7	
Cadmium	ug/L	ND	5000	5000	5280	5340	105	107	70-130	1	10	
Chromium	ug/L	344	5000	5000	5420	5460	102	102	70-130	1	10	
Cobalt	ug/L	52.4	5000	5000	4880	4930	97	98	70-130	1	6	
Copper	ug/L	ND	5000	5000	5200	5240	103	104	70-130	1	11	
Iron	ug/L	1110000	50000	50000	1230000	1210000	239	197	70-130	2	10	M1
Lead	ug/L	142	5000	5000	4710	4750	91	92	70-130	1	10	
Nickel	ug/L	140	5000	5000	4940	4940	96	96	70-130	0	10	
Selenium	ug/L	ND	5000	5000	6080	6090	120	121	70-130	0	10	
Silver	ug/L	ND	2500	2500	2640	2650	105	105	70-130	0	10	
Thallium	ug/L	ND	5000	5000	4160	4160	83	83	70-130	0	6	
Zinc	ug/L	10300	5000	5000	16000	15500	116	105	70-130	3	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-226

Pace Project No.: 60163573

QC Batch:	MPRP/26265	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60163573001		

METHOD BLANK: 1335554 Matrix: Water

Associated Lab Samples: 60163573001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	02/27/14 09:54	
Antimony, Dissolved	ug/L	ND	10.0	02/27/14 09:54	
Arsenic, Dissolved	ug/L	ND	10.0	02/27/14 09:54	
Beryllium, Dissolved	ug/L	ND	1.0	02/27/14 09:54	
Cadmium, Dissolved	ug/L	ND	5.0	02/27/14 09:54	
Chromium, Dissolved	ug/L	ND	5.0	02/27/14 09:54	
Cobalt, Dissolved	ug/L	ND	5.0	02/27/14 09:54	
Copper, Dissolved	ug/L	ND	10.0	02/27/14 09:54	
Iron, Dissolved	ug/L	ND	50.0	02/27/14 09:54	
Lead, Dissolved	ug/L	ND	5.0	02/27/14 09:54	
Nickel, Dissolved	ug/L	ND	5.0	02/27/14 09:54	
Selenium, Dissolved	ug/L	ND	15.0	02/27/14 09:54	
Silver, Dissolved	ug/L	ND	7.0	02/27/14 09:54	
Thallium, Dissolved	ug/L	ND	20.0	02/27/14 09:54	
Zinc, Dissolved	ug/L	ND	50.0	02/27/14 09:54	

LABORATORY CONTROL SAMPLE: 1335555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9450	94	85-115	
Antimony, Dissolved	ug/L	1000	984	98	85-115	
Arsenic, Dissolved	ug/L	1000	970	97	85-115	
Beryllium, Dissolved	ug/L	1000	984	98	85-115	
Cadmium, Dissolved	ug/L	1000	955	96	85-115	
Chromium, Dissolved	ug/L	1000	964	96	85-115	
Cobalt, Dissolved	ug/L	1000	979	98	85-115	
Copper, Dissolved	ug/L	1000	962	96	85-115	
Iron, Dissolved	ug/L	10000	9460	95	85-115	
Lead, Dissolved	ug/L	1000	969	97	85-115	
Nickel, Dissolved	ug/L	1000	1000	100	85-115	
Selenium, Dissolved	ug/L	1000	982	98	85-115	
Silver, Dissolved	ug/L	500	466	93	85-115	
Thallium, Dissolved	ug/L	1000	1000	100	85-115	
Zinc, Dissolved	ug/L	1000	950	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1335556 1335557

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result						
Aluminum, Dissolved	ug/L	2610	50000	50000	50200	95	98	70-130	3	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-226

Pace Project No.: 60163573

Parameter	Units	1335556		1335557		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		60163572001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Antimony, Dissolved	ug/L	ND	5000	5000	5140	5370	102	106	70-130	4	7
Arsenic, Dissolved	ug/L	1010	5000	5000	6320	6580	106	111	70-130	4	10
Beryllium, Dissolved	ug/L	ND	5000	5000	4590	4780	92	96	70-130	4	7
Cadmium, Dissolved	ug/L	ND	5000	5000	4960	5260	99	105	70-130	6	10
Chromium, Dissolved	ug/L	290	5000	5000	4840	5020	91	95	70-130	4	10
Cobalt, Dissolved	ug/L	46.0	5000	5000	4530	4770	90	94	70-130	5	6
Copper, Dissolved	ug/L	ND	5000	5000	5060	5360	101	107	70-130	6	11
Iron, Dissolved	ug/L	863000	50000	50000	848000	887000	-31	48	70-130	5	10 M1
Lead, Dissolved	ug/L	127	5000	5000	4330	4530	84	88	70-130	5	10
Nickel, Dissolved	ug/L	128	5000	5000	4650	4860	90	95	70-130	4	10
Selenium, Dissolved	ug/L	ND	5000	5000	5940	6280	118	125	70-130	6	10
Silver, Dissolved	ug/L	ND	2500	2500	2550	2680	102	107	70-130	5	10
Thallium, Dissolved	ug/L	ND	5000	5000	4140	4340	83	87	70-130	5	6
Zinc, Dissolved	ug/L	10000	5000	5000	13800	14400	76	87	70-130	4	11

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-226

Pace Project No.: 60163573

QC Batch: MSV/59603 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60163573001, 60163573002

METHOD BLANK: 1334739 Matrix: Water

Associated Lab Samples: 60163573001, 60163573002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	02/25/14 10:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	02/25/14 10:06	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	02/25/14 10:06	
1,2-Dichloroethane	ug/L	ND	1.0	02/25/14 10:06	
1,4-Dichlorobenzene	ug/L	ND	1.0	02/25/14 10:06	
2-Butanone (MEK)	ug/L	ND	10.0	02/25/14 10:06	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/25/14 10:06	N2
Acetone	ug/L	ND	10.0	02/25/14 10:06	N2
Benzene	ug/L	ND	1.0	02/25/14 10:06	
Bromodichloromethane	ug/L	ND	1.0	02/25/14 10:06	
Bromoform	ug/L	ND	1.0	02/25/14 10:06	
Bromomethane	ug/L	ND	5.0	02/25/14 10:06	
Carbon tetrachloride	ug/L	ND	1.0	02/25/14 10:06	
Chloroethane	ug/L	ND	1.0	02/25/14 10:06	
Chloroform	ug/L	ND	1.0	02/25/14 10:06	
cis-1,2-Dichloroethene	ug/L	ND	1.0	02/25/14 10:06	N2
Ethylbenzene	ug/L	ND	1.0	02/25/14 10:06	
Methylene chloride	ug/L	ND	1.0	02/25/14 10:06	
Tetrachloroethene	ug/L	ND	1.0	02/25/14 10:06	
Toluene	ug/L	ND	1.0	02/25/14 10:06	
trans-1,2-Dichloroethene	ug/L	ND	1.0	02/25/14 10:06	
Trichloroethene	ug/L	ND	1.0	02/25/14 10:06	
Vinyl chloride	ug/L	ND	1.0	02/25/14 10:06	
Xylene (Total)	ug/L	ND	3.0	02/25/14 10:06	N2
1,2-Dichloroethane-d4 (S)	%	91	80-120	02/25/14 10:06	
4-Bromofluorobenzene (S)	%	104	80-120	02/25/14 10:06	
Toluene-d8 (S)	%	108	80-120	02/25/14 10:06	

LABORATORY CONTROL SAMPLE: 1334740

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.0	105	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	21.8	109	67-127	N2
1,1,2-Trichloroethane	ug/L	20	21.9	110	67-124	
1,2-Dichloroethane	ug/L	20	18.8	94	70-126	
1,4-Dichlorobenzene	ug/L	20	20.7	103	74-120	
2-Butanone (MEK)	ug/L	100	102	102	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	120	120	59-131	N2
Acetone	ug/L	100	98.5	98	38-134	N2
Benzene	ug/L	20	19.1	96	75-120	
Bromodichloromethane	ug/L	20	21.3	107	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-226

Pace Project No.: 60163573

LABORATORY CONTROL SAMPLE: 1334740

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	22.5	112	65-127	
Bromomethane	ug/L	20	21.4	107	13-157	
Carbon tetrachloride	ug/L	20	19.2	96	70-131	
Chloroethane	ug/L	20	20.3	102	47-133	
Chloroform	ug/L	20	22.0	110	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.9	105	68-127	N2
Ethylbenzene	ug/L	20	19.2	96	74-122	
Methylene chloride	ug/L	20	22.1	110	64-129	
Tetrachloroethene	ug/L	20	18.1	90	73-125	
Toluene	ug/L	20	20.5	103	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.9	105	66-129	
Trichloroethene	ug/L	20	19.8	99	71-123	
Vinyl chloride	ug/L	20	19.7	98	43-129	
Xylene (Total)	ug/L	60	58.0	97	75-121	N2
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			103	80-120	

MATRIX SPIKE SAMPLE: 1334741

Parameter	Units	60163516001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3940	98	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3890	93	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4440	111	52-143	
1,2-Dichloroethane	ug/L	ND	4000	3610	90	49-144	
1,4-Dichlorobenzene	ug/L	723	4000	4510	95	33-140	
2-Butanone (MEK)	ug/L	63900	20000	99600	179	40-160	M1,N2
4-Methyl-2-pentanone (MIBK)	ug/L	3180	20000	28300	125	40-160	N2
Acetone	ug/L	129000	20000	145000	82	10-160	N2
Benzene	ug/L	ND	4000	3880	97	37-151	
Bromodichloromethane	ug/L	ND	4000	4110	103	35-142	
Bromoform	ug/L	ND	4000	4470	112	45-142	
Bromomethane	ug/L	ND	4000	3980	99	10-158	
Carbon tetrachloride	ug/L	ND	4000	4240	106	70-140	
Chloroethane	ug/L	ND	4000	3940	98	19-152	
Chloroform	ug/L	ND	4000	4220	105	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	4130	103	34-147	N2
Ethylbenzene	ug/L	ND	4000	3760	93	40-142	
Methylene chloride	ug/L	ND	4000	4500	113	31-144	
Tetrachloroethene	ug/L	ND	4000	3830	96	64-148	
Toluene	ug/L	ND	4000	4210	105	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4090	102	54-151	
Trichloroethene	ug/L	ND	4000	4110	103	71-149	
Vinyl chloride	ug/L	ND	4000	3970	99	22-146	
Xylene (Total)	ug/L	ND	12000	11900	99	37-144	N2
1,2-Dichloroethane-d4 (S)	%				95	80-120	
4-Bromofluorobenzene (S)	%				96	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-226

Pace Project No.: 60163573

MATRIX SPIKE SAMPLE:		1334741					
Parameter	Units	60163516001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S) Preservation pH	%	6.0	6.0	6.0	105	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-226

Pace Project No.: 60163573

QC Batch:	OEXT/42886	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60163573001		

METHOD BLANK: 1335856 Matrix: Water

Associated Lab Samples: 60163573001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/28/14 13:07	
2,4,6-Trichlorophenol	ug/L	ND	5.0	02/28/14 13:07	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	02/28/14 13:07	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	02/28/14 13:07	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	02/28/14 13:07	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/28/14 13:07	
Hexachlorocyclopentadiene	ug/L	ND	5.0	02/28/14 13:07	
Hexachloroethane	ug/L	ND	5.0	02/28/14 13:07	
Naphthalene	ug/L	ND	5.0	02/28/14 13:07	
Nitrobenzene	ug/L	ND	5.0	02/28/14 13:07	
Pentachlorophenol	ug/L	ND	5.0	02/28/14 13:07	
Phenol	ug/L	ND	5.0	02/28/14 13:07	
2,4,6-Tribromophenol (S)	%	92	39-120	02/28/14 13:07	
2-Fluorobiphenyl (S)	%	83	39-120	02/28/14 13:07	
2-Fluorophenol (S)	%	43	17-120	02/28/14 13:07	
Nitrobenzene-d5 (S)	%	93	33-120	02/28/14 13:07	
Phenol-d6 (S)	%	23	11-120	02/28/14 13:07	
Terphenyl-d14 (S)	%	95	45-120	02/28/14 13:07	

LABORATORY CONTROL SAMPLE: 1335857

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.1	78	46-120	
2,4,6-Trichlorophenol	ug/L	50	39.7	79	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	32.5	65		N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	24.4	49		N2
4,6-Dinitro-2-methylphenol	ug/L	50	43.3	87	40-133	
Hexachloro-1,3-butadiene	ug/L	50	39.9	80	44-116	
Hexachlorocyclopentadiene	ug/L	100	69.5	69	24-120	
Hexachloroethane	ug/L	50	39.6	79	43-113	
Naphthalene	ug/L	50	40.2	80	48-120	
Nitrobenzene	ug/L	50	47.3	95	48-120	
Pentachlorophenol	ug/L	50	45.7	91	47-120	
Phenol	ug/L	50	10.7	21	16-112	
2,4,6-Tribromophenol (S)	%			126	39-120	1e
2-Fluorobiphenyl (S)	%			78	39-120	
2-Fluorophenol (S)	%			42	17-120	
Nitrobenzene-d5 (S)	%			96	33-120	
Phenol-d6 (S)	%			23	11-120	
Terphenyl-d14 (S)	%			92	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-226

Pace Project No.: 60163573

MATRIX SPIKE SAMPLE:		1335858					
Parameter	Units	60163516001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3920	78	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4970	99	50-120	
2-Methylphenol(o-Cresol)	ug/L			4360			N2
3&4-Methylphenol(m&p Cresol)	ug/L			11000			N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	3950J	79	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4110	82	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	7420	74	11-120	
Hexachloroethane	ug/L	ND	5000	4980	100	40-113	
Naphthalene	ug/L	ND	5000	4890	80	45-120	
Nitrobenzene	ug/L	ND	5000	6860	137	38-120	M1
Pentachlorophenol	ug/L	ND	5000	3830	77	43-135	
Phenol	ug/L	8320	5000	11100	55	13-112	
2,4,6-Tribromophenol (S)	%				100	39-120	
2-Fluorobiphenyl (S)	%				90	39-120	
2-Fluorophenol (S)	%				47	17-120	
Nitrobenzene-d5 (S)	%				148	33-120	SO
Phenol-d6 (S)	%				34	11-120	
Terphenyl-d14 (S)	%				105	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-226

Pace Project No.: 60163573

QC Batch:	WET/46370	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60163573001		

METHOD BLANK: 1335844 Matrix: Water
Associated Lab Samples: 60163573001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	02/27/14 10:52	

LABORATORY CONTROL SAMPLE: 1335845

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	40.6	102	78-114	

MATRIX SPIKE SAMPLE: 1335846

Parameter	Units	60163516001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	48.4	160	202	96	78-114	

SAMPLE DUPLICATE: 1335847

Parameter	Units	60163259002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	2.7J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-226

Pace Project No.: 60163573

QC Batch:	WET/46401	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60163573001		

METHOD BLANK: 1336809 Matrix: Water
Associated Lab Samples: 60163573001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	02/28/14 09:55	

LABORATORY CONTROL SAMPLE: 1336810

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: 1336811

Parameter	Units	60163142001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20.6	22.1	91	64-132	

MATRIX SPIKE SAMPLE: 1336813

Parameter	Units	60163516001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	12.0	80	98.4	108	64-132	

SAMPLE DUPLICATE: 1336812

Parameter	Units	60163143001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	1.9J		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-226

Pace Project No.: 60163573

QC Batch:	WET/46340	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	60163573001		

METHOD BLANK: 1335269 Matrix: Water

Associated Lab Samples: 60163573001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	02/26/14 07:39	

SAMPLE DUPLICATE: 1335270

Parameter	Units	60163362003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	55.0	59.0	7	10	

SAMPLE DUPLICATE: 1335271

Parameter	Units	60163516001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3860	4280	10	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-226

Pace Project No.: 60163573

QC Batch: WET/46361 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60163573001

SAMPLE DUPLICATE: 1335603

Parameter	Units	60163529001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.0	8.0	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-226

Pace Project No.: 60163573

QC Batch: WET/46292

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60163573001

METHOD BLANK: 1334449

Matrix: Water

Associated Lab Samples: 60163573001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	03/01/14 13:20	

LABORATORY CONTROL SAMPLE: 1334450

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	176	89	85-115	

SAMPLE DUPLICATE: 1334451

Parameter	Units	60163569002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	636	619	3	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-226

Pace Project No.: 60163573

QC Batch:	WETA/28355	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60163573001		

METHOD BLANK: 1335243 Matrix: Water
Associated Lab Samples: 60163573001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/26/14 10:26	

LABORATORY CONTROL SAMPLE: 1335244

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	99	90-110	

MATRIX SPIKE SAMPLE: 1335245

Parameter	Units	60163481006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.0	94	90-110	

MATRIX SPIKE SAMPLE: 1335246

Parameter	Units	60163496001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2.1	2	3.8	83	90-110	M1

SAMPLE DUPLICATE: 1335247

Parameter	Units	60163516001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	591	618	4	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-226

Pace Project No.: 60163573

QC Batch:	WETA/28343	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60163573001		

METHOD BLANK: 1334642 Matrix: Water
Associated Lab Samples: 60163573001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	03/03/14 08:19	

LABORATORY CONTROL SAMPLE: 1334643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	49.6	99	90-110	

MATRIX SPIKE SAMPLE: 1334646

Parameter	Units	60163258001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	1570	2500	3960	96	90-110	

SAMPLE DUPLICATE: 1334645

Parameter	Units	60163516001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	63900	62000	3	25	

SAMPLE DUPLICATE: 1337915

Parameter	Units	60163351001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	742	751	1	25	

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QUALIFIERS

Project: BRIDGETON LF 316-226

Pace Project No.: 60163573

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 | Surrogate recovery outside laboratory control limits. No further action was taken since all spike recoveries were within QC limits. |
| 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. |
| 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. |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-226

Pace Project No.: 60163573

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60163573001	316-226	EPA 200.7	MPRP/26270	EPA 200.7	ICP/20058
60163573001	316-226	EPA 200.7	MPRP/26265	EPA 200.7	ICP/20054
60163573001	316-226	EPA 245.1	MERP/8172	EPA 245.1	MERC/8127
60163573001	316-226	EPA 245.1	MERP/8178	EPA 245.1	MERC/8133
60163573001	316-226	EPA 625	OEXT/42886	EPA 625	MSSV/13662
60163573001	316-226	EPA 624 Low	MSV/59603		
60163573002	TRIP BLANK	EPA 624 Low	MSV/59603		
60163573001	316-226	EPA 1664A	WET/46370		
60163573001	316-226	EPA 1664A	WET/46401		
60163573001	316-226	SM 2540D	WET/46340		
60163573001	316-226	SM 4500-H+B	WET/46361		
60163573001	316-226	SM 5210B	WET/46292	SM 5210B	WET/46434
60163573001	316-226	EPA 350.1	WETA/28355		
60163573001	316-226	EPA 410.4	WETA/28343		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60163573
60163573

Client Name: Barr Eng.

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-299 / T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 7.4 (circle one) Melted

Temperature should be above freezing to 6°C

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: hw 2/24/14

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>temp > 6°C! all ice melted</u>
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BAR pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>HNO3 initial pH ~6.0; added 2.5 ml; final pH ~4.0</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>H2SO4 initial pH ~6.0; added 2 ml; final pH ~3.0</u>
Exceptions: VOA, coliform, TOC, ORP , WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>hw</u> Lot # of added preservative <u>12513</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased):		15.
Headspace in VOA vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>5 of 5 sample vials have HS</u>
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: TEMP / HS QUALIFIED BASED ON HISTORICAL INSTRUCTIONS

Project Manager Review: AS

Date: 2/25/14

March 05, 2014

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

RE: Project: BRIDGETON LF 317-MSD
Pace Project No.: 60163654

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 26, 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 317-MSD

Pace Project No.: 60163654

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 317-MSD

Pace Project No.: 60163654

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60163654001	317-MSD	Water	02/24/14 13:00	02/26/14 02:15
60163654002	TRIP BLANK	Water	02/24/14 13:00	02/26/14 02:15

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 317-MSD

Pace Project No.: 60163654

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60163654001	317-MSD	EPA 200.7	TJT	15
		EPA 200.7	JGP	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC1	1
		SM 4500-H+B	RAH	1
		SM 5210B	AJM	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60163654002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 317-MSD

Pace Project No.: 60163654

Sample: 317-MSD		Lab ID: 60163654001	Collected: 02/24/14 13:00	Received: 02/26/14 02:15	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	4950 ug/L		375	1	02/27/14 08:55	02/27/14 16:14	7429-90-5	
Antimony	ND ug/L		50.0	1	02/27/14 08:55	02/27/14 16:14	7440-36-0	
Arsenic	526 ug/L		50.0	1	02/27/14 08:55	02/27/14 16:14	7440-38-2	
Beryllium	ND ug/L		5.0	1	02/27/14 08:55	02/27/14 16:14	7440-41-7	
Cadmium	ND ug/L		25.0	1	02/27/14 08:55	02/27/14 16:14	7440-43-9	
Chromium	230 ug/L		25.0	1	02/27/14 08:55	02/27/14 16:14	7440-47-3	
Cobalt	40.0 ug/L		25.0	1	02/27/14 08:55	02/27/14 16:14	7440-48-4	
Copper	147 ug/L		50.0	1	02/27/14 08:55	02/27/14 16:14	7440-50-8	
Iron	668000 ug/L		250	1	02/27/14 08:55	02/27/14 16:14	7439-89-6	
Lead	58.2 ug/L		25.0	1	02/27/14 08:55	02/27/14 16:14	7439-92-1	
Nickel	155 ug/L		25.0	1	02/27/14 08:55	02/27/14 16:14	7440-02-0	
Selenium	ND ug/L		75.0	1	02/27/14 08:55	02/27/14 16:14	7782-49-2	
Silver	ND ug/L		35.0	1	02/27/14 08:55	02/27/14 16:14	7440-22-4	
Thallium	ND ug/L		100	1	02/27/14 08:55	02/27/14 16:14	7440-28-0	
Zinc	4050 ug/L		250	1	02/27/14 08:55	02/27/14 16:14	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1120 ug/L		375	1	02/26/14 14:15	02/27/14 10:41	7429-90-5	
Antimony, Dissolved	ND ug/L		50.0	1	02/26/14 14:15	02/27/14 10:41	7440-36-0	
Arsenic, Dissolved	442 ug/L		50.0	1	02/26/14 14:15	02/27/14 10:41	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	02/26/14 14:15	02/27/14 10:41	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	02/26/14 14:15	02/27/14 10:41	7440-43-9	
Chromium, Dissolved	168 ug/L		25.0	1	02/26/14 14:15	02/27/14 10:41	7440-47-3	
Cobalt, Dissolved	34.9 ug/L		25.0	1	02/26/14 14:15	02/27/14 10:41	7440-48-4	
Copper, Dissolved	107 ug/L		50.0	1	02/26/14 14:15	02/27/14 10:41	7440-50-8	
Iron, Dissolved	477000 ug/L		250	1	02/26/14 14:15	02/27/14 10:41	7439-89-6	
Lead, Dissolved	41.4 ug/L		25.0	1	02/26/14 14:15	02/27/14 10:41	7439-92-1	
Nickel, Dissolved	139 ug/L		25.0	1	02/26/14 14:15	02/27/14 10:41	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	02/26/14 14:15	02/27/14 10:41	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	02/26/14 14:15	02/27/14 10:41	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	02/26/14 14:15	02/27/14 10:41	7440-28-0	
Zinc, Dissolved	3250 ug/L		250	1	02/26/14 14:15	02/27/14 10:41	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND ug/L		6.0	1	03/03/14 10:00	03/04/14 10:02	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	02/26/14 15:00	02/27/14 10:05	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	02/27/14 00:00	02/28/14 20:02	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	02/27/14 00:00	02/28/14 20:02	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	02/27/14 00:00	02/28/14 20:02	77-47-4	
Hexachloroethane	ND ug/L		1000	2	02/27/14 00:00	02/28/14 20:02	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	02/27/14 00:00	02/28/14 20:02	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	4120 ug/L		4000	2	02/27/14 00:00	02/28/14 20:02		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 317-MSD

Pace Project No.: 60163654

Sample: 317-MSD	Lab ID: 60163654001	Collected: 02/24/14 13:00	Received: 02/26/14 02:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	ND ug/L		1000	2	02/27/14 00:00	02/28/14 20:02	91-20-3	
Nitrobenzene	ND ug/L		1000	2	02/27/14 00:00	02/28/14 20:02	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	02/27/14 00:00	02/28/14 20:02	87-86-5	
Phenol	4920 ug/L		1000	2	02/27/14 00:00	02/28/14 20:02	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	02/27/14 00:00	02/28/14 20:02	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	02/27/14 00:00	02/28/14 20:02	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	110 %		33-120	2	02/27/14 00:00	02/28/14 20:02	4165-60-0	
2-Fluorobiphenyl (S)	76 %		39-120	2	02/27/14 00:00	02/28/14 20:02	321-60-8	
Terphenyl-d14 (S)	89 %		45-120	2	02/27/14 00:00	02/28/14 20:02	1718-51-0	
Phenol-d6 (S)	28 %		11-120	2	02/27/14 00:00	02/28/14 20:02	13127-88-3	
2-Fluorophenol (S)	38 %		17-120	2	02/27/14 00:00	02/28/14 20:02	367-12-4	
2,4,6-Tribromophenol (S)	90 %		39-120	2	02/27/14 00:00	02/28/14 20:02	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	48100 ug/L		1000	100		03/03/14 14:21	67-64-1	N2
Benzene	ND ug/L		100	100		03/03/14 14:21	71-43-2	
Bromodichloromethane	ND ug/L		100	100		03/03/14 14:21	75-27-4	
Bromoform	ND ug/L		100	100		03/03/14 14:21	75-25-2	
Bromomethane	ND ug/L		500	100		03/03/14 14:21	74-83-9	
2-Butanone (MEK)	21300 ug/L		1000	100		03/03/14 14:21	78-93-3	N2
Carbon tetrachloride	ND ug/L		100	100		03/03/14 14:21	56-23-5	
Chloroethane	ND ug/L		100	100		03/03/14 14:21	75-00-3	
Chloroform	ND ug/L		100	100		03/03/14 14:21	67-66-3	
1,4-Dichlorobenzene	ND ug/L		100	100		03/03/14 14:21	106-46-7	
1,2-Dichloroethane	ND ug/L		100	100		03/03/14 14:21	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		100	100		03/03/14 14:21	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		100	100		03/03/14 14:21	156-60-5	
Ethylbenzene	ND ug/L		100	100		03/03/14 14:21	100-41-4	
Methylene chloride	ND ug/L		100	100		03/03/14 14:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		1000	100		03/03/14 14:21	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		100	100		03/03/14 14:21	79-34-5	N2
Tetrachloroethene	ND ug/L		100	100		03/03/14 14:21	127-18-4	
Toluene	ND ug/L		100	100		03/03/14 14:21	108-88-3	
1,1,1-Trichloroethane	ND ug/L		100	100		03/03/14 14:21	71-55-6	
1,1,2-Trichloroethane	ND ug/L		100	100		03/03/14 14:21	79-00-5	
Trichloroethene	ND ug/L		100	100		03/03/14 14:21	79-01-6	
Vinyl chloride	ND ug/L		100	100		03/03/14 14:21	75-01-4	
Xylene (Total)	ND ug/L		300	100		03/03/14 14:21	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	100		03/03/14 14:21	460-00-4	
Toluene-d8 (S)	99 %		80-120	100		03/03/14 14:21	2037-26-5	
1,2-Dichloroethane-d4 (S)	103 %		80-120	100		03/03/14 14:21	17060-07-0	
Preservation pH	6.0		1.0	100		03/03/14 14:21		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	570 mg/L		5.0	1		03/05/14 06:55		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 317-MSD

Pace Project No.: 60163654

Sample: 317-MSD		Lab ID: 60163654001	Collected: 02/24/14 13:00	Received: 02/26/14 02:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	23.2	mg/L	5.0	1		03/05/14 07:04		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	1420	mg/L	5.0	1		03/03/14 10:53		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.5	Std. Units	0.10	1		02/26/14 14:35		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	14500	mg/L	2.0	1	02/26/14 12:42	03/03/14 12:57		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	350	mg/L	20.0	200		02/27/14 10:08	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	28300	mg/L	5000	500		03/03/14 08:03		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 317-MSD

Pace Project No.: 60163654

Sample: TRIP BLANK		Lab ID: 60163654002	Collected: 02/24/14 13:00	Received: 02/26/14 02:15	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		03/03/14 12:46	67-64-1	N2
Benzene	ND ug/L		1.0	1		03/03/14 12:46	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		03/03/14 12:46	75-27-4	
Bromoform	ND ug/L		1.0	1		03/03/14 12:46	75-25-2	
Bromomethane	ND ug/L		5.0	1		03/03/14 12:46	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		03/03/14 12:46	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		03/03/14 12:46	56-23-5	
Chloroethane	ND ug/L		1.0	1		03/03/14 12:46	75-00-3	
Chloroform	ND ug/L		1.0	1		03/03/14 12:46	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		03/03/14 12:46	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		03/03/14 12:46	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		03/03/14 12:46	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		03/03/14 12:46	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		03/03/14 12:46	100-41-4	
Methylene chloride	ND ug/L		1.0	1		03/03/14 12:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		03/03/14 12:46	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		03/03/14 12:46	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		03/03/14 12:46	127-18-4	
Toluene	ND ug/L		1.0	1		03/03/14 12:46	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		03/03/14 12:46	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		03/03/14 12:46	79-00-5	
Trichloroethene	ND ug/L		1.0	1		03/03/14 12:46	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		03/03/14 12:46	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		03/03/14 12:46	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	102 %		80-120	1		03/03/14 12:46	460-00-4	
Toluene-d8 (S)	100 %		80-120	1		03/03/14 12:46	2037-26-5	
1,2-Dichloroethane-d4 (S)	102 %		80-120	1		03/03/14 12:46	17060-07-0	
Preservation pH	6.0		1.0	1		03/03/14 12:46		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 317-MSD

Pace Project No.: 60163654

QC Batch: MERP/8189 Analysis Method: EPA 245.1
 QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
 Associated Lab Samples: 60163654001

METHOD BLANK: 1337876 Matrix: Water
 Associated Lab Samples: 60163654001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	03/04/14 09:58	

LABORATORY CONTROL SAMPLE: 1337877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.5	110	85-115	

MATRIX SPIKE SAMPLE: 1337878

Parameter	Units	60163654001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	150	151	100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1337921 1337922

Parameter	Units	60163872001 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	151	112	99	73	70-130	30	20	R1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 317-MSD

Pace Project No.: 60163654

QC Batch:	MERP/8178	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60163654001		

METHOD BLANK: 1335591 Matrix: Water
Associated Lab Samples: 60163654001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/27/14 09:52	

LABORATORY CONTROL SAMPLE: 1335592

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.6	112	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1335593 1335594

Parameter	Units	60163572001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	ND	Spike Conc.	Conc.	Result	Result	% Rec	% Rec						
Mercury, Dissolved	ug/L	ND	150	150	95.4	53.1	64	35	70-130	57	20	M1,R1			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 317-MSD

Pace Project No.: 60163654

QC Batch: MPRP/26270 Analysis Method: EPA 200.7
 QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
 Associated Lab Samples: 60163654001

METHOD BLANK: 1335893 Matrix: Water

Associated Lab Samples: 60163654001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	02/27/14 14:21	
Antimony	ug/L	ND	10.0	02/27/14 14:21	
Arsenic	ug/L	ND	10.0	02/27/14 14:21	
Beryllium	ug/L	ND	1.0	02/27/14 14:21	
Cadmium	ug/L	ND	5.0	02/27/14 14:21	
Chromium	ug/L	ND	5.0	02/27/14 14:21	
Cobalt	ug/L	ND	5.0	02/27/14 14:21	
Copper	ug/L	ND	10.0	02/27/14 14:21	
Iron	ug/L	ND	50.0	02/27/14 14:21	
Lead	ug/L	ND	5.0	02/27/14 14:21	
Nickel	ug/L	ND	5.0	02/27/14 14:21	
Selenium	ug/L	ND	15.0	02/27/14 14:21	
Silver	ug/L	ND	7.0	02/27/14 14:21	
Thallium	ug/L	ND	20.0	02/27/14 14:21	
Zinc	ug/L	ND	50.0	02/27/14 14:21	

LABORATORY CONTROL SAMPLE: 1335894

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10000	100	85-115	
Antimony	ug/L	1000	992	99	85-115	
Arsenic	ug/L	1000	961	96	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1000	100	85-115	
Chromium	ug/L	1000	1060	106	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	995	99	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	984	98	85-115	
Silver	ug/L	500	497	99	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	1040	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1335895 1335896

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.						
Aluminum	ug/L	8850	50000	50000	66000	66500	114	115	70-130	1	8

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QUALITY CONTROL DATA

Project: BRIDGETON LF 317-MSD

Pace Project No.: 60163654

Parameter	Units	1335895		1335896		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60163516001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Antimony	ug/L	72.2	5000	5000	5280	5320	104	105	70-130	1	7
Arsenic	ug/L	962	5000	5000	6550	6580	112	112	70-130	1	10
Beryllium	ug/L	ND	5000	5000	5020	5060	100	101	70-130	1	7
Cadmium	ug/L	ND	5000	5000	5280	5340	105	107	70-130	1	10
Chromium	ug/L	344	5000	5000	5420	5460	102	102	70-130	1	10
Cobalt	ug/L	52.4	5000	5000	4880	4930	97	98	70-130	1	6
Copper	ug/L	ND	5000	5000	5200	5240	103	104	70-130	1	11
Iron	ug/L	1110000	50000	50000	1230000	1210000	239	197	70-130	2	10 M1
Lead	ug/L	142	5000	5000	4710	4750	91	92	70-130	1	10
Nickel	ug/L	140	5000	5000	4940	4940	96	96	70-130	0	10
Selenium	ug/L	ND	5000	5000	6080	6090	120	121	70-130	0	10
Silver	ug/L	ND	2500	2500	2640	2650	105	105	70-130	0	10
Thallium	ug/L	ND	5000	5000	4160	4160	83	83	70-130	0	6
Zinc	ug/L	10300	5000	5000	16000	15500	116	105	70-130	3	11

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QUALITY CONTROL DATA

Project: BRIDGETON LF 317-MSD

Pace Project No.: 60163654

QC Batch:	MPRP/26265	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60163654001		

METHOD BLANK: 1335554 Matrix: Water

Associated Lab Samples: 60163654001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	02/27/14 09:54	
Antimony, Dissolved	ug/L	ND	10.0	02/27/14 09:54	
Arsenic, Dissolved	ug/L	ND	10.0	02/27/14 09:54	
Beryllium, Dissolved	ug/L	ND	1.0	02/27/14 09:54	
Cadmium, Dissolved	ug/L	ND	5.0	02/27/14 09:54	
Chromium, Dissolved	ug/L	ND	5.0	02/27/14 09:54	
Cobalt, Dissolved	ug/L	ND	5.0	02/27/14 09:54	
Copper, Dissolved	ug/L	ND	10.0	02/27/14 09:54	
Iron, Dissolved	ug/L	ND	50.0	02/27/14 09:54	
Lead, Dissolved	ug/L	ND	5.0	02/27/14 09:54	
Nickel, Dissolved	ug/L	ND	5.0	02/27/14 09:54	
Selenium, Dissolved	ug/L	ND	15.0	02/27/14 09:54	
Silver, Dissolved	ug/L	ND	7.0	02/27/14 09:54	
Thallium, Dissolved	ug/L	ND	20.0	02/27/14 09:54	
Zinc, Dissolved	ug/L	ND	50.0	02/27/14 09:54	

LABORATORY CONTROL SAMPLE: 1335555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9450	94	85-115	
Antimony, Dissolved	ug/L	1000	984	98	85-115	
Arsenic, Dissolved	ug/L	1000	970	97	85-115	
Beryllium, Dissolved	ug/L	1000	984	98	85-115	
Cadmium, Dissolved	ug/L	1000	955	96	85-115	
Chromium, Dissolved	ug/L	1000	964	96	85-115	
Cobalt, Dissolved	ug/L	1000	979	98	85-115	
Copper, Dissolved	ug/L	1000	962	96	85-115	
Iron, Dissolved	ug/L	10000	9460	95	85-115	
Lead, Dissolved	ug/L	1000	969	97	85-115	
Nickel, Dissolved	ug/L	1000	1000	100	85-115	
Selenium, Dissolved	ug/L	1000	982	98	85-115	
Silver, Dissolved	ug/L	500	466	93	85-115	
Thallium, Dissolved	ug/L	1000	1000	100	85-115	
Zinc, Dissolved	ug/L	1000	950	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1335556 1335557

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result						
Aluminum, Dissolved	ug/L	2610	50000	50000	50200	95	98	70-130	3	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 317-MSD

Pace Project No.: 60163654

Parameter	Units	1335556		1335557		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		60163572001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Antimony, Dissolved	ug/L	ND	5000	5000	5140	5370	102	106	70-130	4	7
Arsenic, Dissolved	ug/L	1010	5000	5000	6320	6580	106	111	70-130	4	10
Beryllium, Dissolved	ug/L	ND	5000	5000	4590	4780	92	96	70-130	4	7
Cadmium, Dissolved	ug/L	ND	5000	5000	4960	5260	99	105	70-130	6	10
Chromium, Dissolved	ug/L	290	5000	5000	4840	5020	91	95	70-130	4	10
Cobalt, Dissolved	ug/L	46.0	5000	5000	4530	4770	90	94	70-130	5	6
Copper, Dissolved	ug/L	ND	5000	5000	5060	5360	101	107	70-130	6	11
Iron, Dissolved	ug/L	863000	50000	50000	848000	887000	-31	48	70-130	5	10 M1
Lead, Dissolved	ug/L	127	5000	5000	4330	4530	84	88	70-130	5	10
Nickel, Dissolved	ug/L	128	5000	5000	4650	4860	90	95	70-130	4	10
Selenium, Dissolved	ug/L	ND	5000	5000	5940	6280	118	125	70-130	6	10
Silver, Dissolved	ug/L	ND	2500	2500	2550	2680	102	107	70-130	5	10
Thallium, Dissolved	ug/L	ND	5000	5000	4140	4340	83	87	70-130	5	6
Zinc, Dissolved	ug/L	10000	5000	5000	13800	14400	76	87	70-130	4	11

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QUALITY CONTROL DATA

Project: BRIDGETON LF 317-MSD

Pace Project No.: 60163654

QC Batch: MSV/59707 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60163654001, 60163654002

METHOD BLANK: 1336803 Matrix: Water

Associated Lab Samples: 60163654001, 60163654002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	03/03/14 12:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/03/14 12:31	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	03/03/14 12:31	
1,2-Dichloroethane	ug/L	ND	1.0	03/03/14 12:31	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/03/14 12:31	
2-Butanone (MEK)	ug/L	ND	10.0	03/03/14 12:31	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	03/03/14 12:31	N2
Acetone	ug/L	ND	10.0	03/03/14 12:31	N2
Benzene	ug/L	ND	1.0	03/03/14 12:31	
Bromodichloromethane	ug/L	ND	1.0	03/03/14 12:31	
Bromoform	ug/L	ND	1.0	03/03/14 12:31	
Bromomethane	ug/L	ND	5.0	03/03/14 12:31	
Carbon tetrachloride	ug/L	ND	1.0	03/03/14 12:31	
Chloroethane	ug/L	ND	1.0	03/03/14 12:31	
Chloroform	ug/L	ND	1.0	03/03/14 12:31	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/03/14 12:31	N2
Ethylbenzene	ug/L	ND	1.0	03/03/14 12:31	
Methylene chloride	ug/L	ND	1.0	03/03/14 12:31	
Tetrachloroethene	ug/L	ND	1.0	03/03/14 12:31	
Toluene	ug/L	ND	1.0	03/03/14 12:31	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/03/14 12:31	
Trichloroethene	ug/L	ND	1.0	03/03/14 12:31	
Vinyl chloride	ug/L	ND	1.0	03/03/14 12:31	
Xylene (Total)	ug/L	ND	3.0	03/03/14 12:31	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	03/03/14 12:31	
4-Bromofluorobenzene (S)	%	102	80-120	03/03/14 12:31	
Toluene-d8 (S)	%	98	80-120	03/03/14 12:31	

LABORATORY CONTROL SAMPLE: 1336804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.9	95	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	21.5	107	67-127	N2
1,1,2-Trichloroethane	ug/L	20	20.2	101	67-124	
1,2-Dichloroethane	ug/L	20	20.4	102	70-126	
1,4-Dichlorobenzene	ug/L	20	20.1	101	74-120	
2-Butanone (MEK)	ug/L	100	108	108	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	100	100	59-131	N2
Acetone	ug/L	100	126	126	38-134	N2
Benzene	ug/L	20	19.5	98	75-120	
Bromodichloromethane	ug/L	20	20.0	100	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 317-MSD

Pace Project No.: 60163654

LABORATORY CONTROL SAMPLE: 1336804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.4	102	65-127	
Bromomethane	ug/L	20	18.1	90	13-157	
Carbon tetrachloride	ug/L	20	18.9	94	70-131	
Chloroethane	ug/L	20	15.3	77	47-133	
Chloroform	ug/L	20	17.4	87	65-127	
cis-1,2-Dichloroethene	ug/L	20	17.8	89	68-127	N2
Ethylbenzene	ug/L	20	19.7	99	74-122	
Methylene chloride	ug/L	20	18.3	92	64-129	
Tetrachloroethene	ug/L	20	19.1	96	73-125	
Toluene	ug/L	20	19.5	97	69-126	
trans-1,2-Dichloroethene	ug/L	20	17.7	89	66-129	
Trichloroethene	ug/L	20	20.2	101	71-123	
Vinyl chloride	ug/L	20	21.7	109	43-129	
Xylene (Total)	ug/L	60	60.4	101	75-121	N2
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1336805

Parameter	Units	60163872001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3750	94	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4160	104	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4060	101	52-143	
1,2-Dichloroethane	ug/L	ND	4000	3920	98	49-144	
1,4-Dichlorobenzene	ug/L	852	4000	4430	90	33-140	
2-Butanone (MEK)	ug/L	73900	20000	99000	126	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	2510	20000	22500	100	40-160	N2
Acetone	ug/L	166000	20000	183000	87	10-160	N2
Benzene	ug/L	ND	4000	3670	92	37-151	
Bromodichloromethane	ug/L	ND	4000	3890	97	35-142	
Bromoform	ug/L	ND	4000	4050	101	45-142	
Bromomethane	ug/L	ND	4000	3540	88	10-158	
Carbon tetrachloride	ug/L	ND	4000	3930	98	70-140	
Chloroethane	ug/L	ND	4000	2370	59	19-152	
Chloroform	ug/L	ND	4000	3460	86	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3490	87	34-147	N2
Ethylbenzene	ug/L	ND	4000	3820	94	40-142	
Methylene chloride	ug/L	ND	4000	3700	92	31-144	
Tetrachloroethene	ug/L	ND	4000	3640	91	64-148	
Toluene	ug/L	ND	4000	3800	95	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	3480	87	54-151	
Trichloroethene	ug/L	ND	4000	3950	99	71-149	
Vinyl chloride	ug/L	ND	4000	4380	109	22-146	
Xylene (Total)	ug/L	ND	12000	11300	94	37-144	N2
1,2-Dichloroethane-d4 (S)	%				104	80-120	
4-Bromofluorobenzene (S)	%				96	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 317-MSD

Pace Project No.: 60163654

MATRIX SPIKE SAMPLE:		1336805					
Parameter	Units	60163872001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S) Preservation pH	%	6.0	6.0	6.0	101	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 317-MSD

Pace Project No.: 60163654

QC Batch:	OEXT/42886	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60163654001		

METHOD BLANK: 1335856 Matrix: Water

Associated Lab Samples: 60163654001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/28/14 13:07	
2,4,6-Trichlorophenol	ug/L	ND	5.0	02/28/14 13:07	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	02/28/14 13:07	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	02/28/14 13:07	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	02/28/14 13:07	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/28/14 13:07	
Hexachlorocyclopentadiene	ug/L	ND	5.0	02/28/14 13:07	
Hexachloroethane	ug/L	ND	5.0	02/28/14 13:07	
Naphthalene	ug/L	ND	5.0	02/28/14 13:07	
Nitrobenzene	ug/L	ND	5.0	02/28/14 13:07	
Pentachlorophenol	ug/L	ND	5.0	02/28/14 13:07	
Phenol	ug/L	ND	5.0	02/28/14 13:07	
2,4,6-Tribromophenol (S)	%	92	39-120	02/28/14 13:07	
2-Fluorobiphenyl (S)	%	83	39-120	02/28/14 13:07	
2-Fluorophenol (S)	%	43	17-120	02/28/14 13:07	
Nitrobenzene-d5 (S)	%	93	33-120	02/28/14 13:07	
Phenol-d6 (S)	%	23	11-120	02/28/14 13:07	
Terphenyl-d14 (S)	%	95	45-120	02/28/14 13:07	

LABORATORY CONTROL SAMPLE: 1335857

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.1	78	46-120	
2,4,6-Trichlorophenol	ug/L	50	39.7	79	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	32.5	65		N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	24.4	49		N2
4,6-Dinitro-2-methylphenol	ug/L	50	43.3	87	40-133	
Hexachloro-1,3-butadiene	ug/L	50	39.9	80	44-116	
Hexachlorocyclopentadiene	ug/L	100	69.5	69	24-120	
Hexachloroethane	ug/L	50	39.6	79	43-113	
Naphthalene	ug/L	50	40.2	80	48-120	
Nitrobenzene	ug/L	50	47.3	95	48-120	
Pentachlorophenol	ug/L	50	45.7	91	47-120	
Phenol	ug/L	50	10.7	21	16-112	
2,4,6-Tribromophenol (S)	%			126	39-120	1e
2-Fluorobiphenyl (S)	%			78	39-120	
2-Fluorophenol (S)	%			42	17-120	
Nitrobenzene-d5 (S)	%			96	33-120	
Phenol-d6 (S)	%			23	11-120	
Terphenyl-d14 (S)	%			92	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 317-MSD

Pace Project No.: 60163654

MATRIX SPIKE SAMPLE:		1335858					
Parameter	Units	60163516001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3920	78	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4970	99	50-120	
2-Methylphenol(o-Cresol)	ug/L			4360			N2
3&4-Methylphenol(m&p Cresol)	ug/L			11000			N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	3950J	79	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4110	82	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	7420	74	11-120	
Hexachloroethane	ug/L	ND	5000	4980	100	40-113	
Naphthalene	ug/L	ND	5000	4890	80	45-120	
Nitrobenzene	ug/L	ND	5000	6860	137	38-120	M1
Pentachlorophenol	ug/L	ND	5000	3830	77	43-135	
Phenol	ug/L	8320	5000	11100	55	13-112	
2,4,6-Tribromophenol (S)	%				100	39-120	
2-Fluorobiphenyl (S)	%				90	39-120	
2-Fluorophenol (S)	%				47	17-120	
Nitrobenzene-d5 (S)	%				148	33-120	SO
Phenol-d6 (S)	%				34	11-120	
Terphenyl-d14 (S)	%				105	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 317-MSD

Pace Project No.: 60163654

QC Batch: WET/46474

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60163654001

METHOD BLANK: 1338518

Matrix: Water

Associated Lab Samples: 60163654001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	03/05/14 06:53	

LABORATORY CONTROL SAMPLE: 1338519

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.9	100	78-114	

MATRIX SPIKE SAMPLE: 1338520

Parameter	Units	60163435001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	11.5	40.8	57.3	112	78-114	

SAMPLE DUPLICATE: 1338521

Parameter	Units	60163654001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	570	565	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 317-MSD

Pace Project No.: 60163654

QC Batch:	WET/46476	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60163654001		

METHOD BLANK: 1338531 Matrix: Water
Associated Lab Samples: 60163654001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	03/05/14 07:03	

LABORATORY CONTROL SAMPLE: 1338532

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	18.4	92	64-132	

MATRIX SPIKE SAMPLE: 1338533

Parameter	Units	60163602002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	23.5	19.5	79	64-132	

SAMPLE DUPLICATE: 1338534

Parameter	Units	60163762001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	13.2	14.4	9	34	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 317-MSD

Pace Project No.: 60163654

QC Batch: WET/46424

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60163654001

METHOD BLANK: 1337780

Matrix: Water

Associated Lab Samples: 60163654001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	03/03/14 10:47	

SAMPLE DUPLICATE: 1337781

Parameter	Units	60163879001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	280	275	2	10	

SAMPLE DUPLICATE: 1337783

Parameter	Units	60163585001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	212	256	19	10	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 317-MSD

Pace Project No.: 60163654

QC Batch: WET/46361 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60163654001

SAMPLE DUPLICATE: 1335603

Parameter	Units	60163529001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.0	8.0	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 317-MSD

Pace Project No.: 60163654

QC Batch: WET/46353

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60163654001

METHOD BLANK: 1335428

Matrix: Water

Associated Lab Samples: 60163654001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	03/03/14 12:28	

LABORATORY CONTROL SAMPLE: 1335429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	187	94	85-115	

SAMPLE DUPLICATE: 1335430

Parameter	Units	60163585001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	1720	1800	4	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 317-MSD

Pace Project No.: 60163654

QC Batch: WETA/28368

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60163654001

METHOD BLANK: 1335920

Matrix: Water

Associated Lab Samples: 60163654001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/27/14 09:53	

LABORATORY CONTROL SAMPLE: 1335921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.2	109	90-110	

MATRIX SPIKE SAMPLE: 1335922

Parameter	Units	60163611003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.15	2	1.9	90	90-110	

MATRIX SPIKE SAMPLE: 1335923

Parameter	Units	60163631002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	3.8	2	5.6	91	90-110	

SAMPLE DUPLICATE: 1335924

Parameter	Units	60163658017 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 317-MSD

Pace Project No.: 60163654

QC Batch:	WETA/28367	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60163654001		

METHOD BLANK: 1335828 Matrix: Water
Associated Lab Samples: 60163654001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	03/03/14 07:50	

LABORATORY CONTROL SAMPLE: 1335829

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	47.2	94	90-110	

MATRIX SPIKE SAMPLE: 1335830

Parameter	Units	60163023001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	349	150	528	120	90-110	M1

MATRIX SPIKE SAMPLE: 1335831

Parameter	Units	60163372001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	167	100	245	77	90-110	M1

SAMPLE DUPLICATE: 1335832

Parameter	Units	60163601001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	143	143	0	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 317-MSD

Pace Project No.: 60163654

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 Surrogate recovery outside laboratory control limits. No further action was taken since all spike recoveries were within QC limits.
- 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.
- R1 RPD value was outside control limits.
- S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 317-MSD

Pace Project No.: 60163654

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60163654001	317-MSD	EPA 200.7	MPRP/26270	EPA 200.7	ICP/20058
60163654001	317-MSD	EPA 200.7	MPRP/26265	EPA 200.7	ICP/20054
60163654001	317-MSD	EPA 245.1	MERP/8189	EPA 245.1	MERC/8145
60163654001	317-MSD	EPA 245.1	MERP/8178	EPA 245.1	MERC/8133
60163654001	317-MSD	EPA 625	OEXT/42886	EPA 625	MSSV/13662
60163654001	317-MSD	EPA 624 Low	MSV/59707		
60163654002	TRIP BLANK	EPA 624 Low	MSV/59707		
60163654001	317-MSD	EPA 1664A	WET/46474		
60163654001	317-MSD	EPA 1664A	WET/46476		
60163654001	317-MSD	SM 2540D	WET/46424		
60163654001	317-MSD	SM 4500-H+B	WET/46361		
60163654001	317-MSD	SM 5210B	WET/46353	SM 5210B	WET/46458
60163654001	317-MSD	EPA 350.1	WETA/28368		
60163654001	317-MSD	EPA 410.4	WETA/28367		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO# : 60163654



60163654

Client Name: Barr

Optional

Courier: Fed Ex UPS USPS Client Commercial Pace Other Xroads

Proj Due Date:

Tracking #: _____ Pace Shipping Label Used? Yes No

Proj Name:

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: (We) Blue None Samples received on ice, cooling process has begun. (circle one)

Cooler Temperature: 3.4

Date and initials of person examining contents: Barr 2/26/14

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>Barr pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Hours initial pH ~ 6.0; added 2.5 mL; final pH ~ 3.5 H2SO4 initial pH ~ 4.0; added 2 mL; final pH ~ 0.5
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, coliform, TOC, <u>P&C</u> , WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>Barr</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative <u>(2513)</u>
Pace Trip Blank lot # (if purchased): <u>Jan 30 2014</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MD</u>

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature]

Date: 2/26/14

March 05, 2014

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

RE: Project: BRIDGETON LF 318-MSD
Pace Project No.: 60163655

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 26, 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 318-MSD

Pace Project No.: 60163655

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 318-MSD

Pace Project No.: 60163655

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60163655001	318-MSD	Water	02/25/14 15:30	02/26/14 02:15
60163655002	TRIP BLANK	Water	02/25/14 15:30	02/26/14 02:15

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 318-MSD

Pace Project No.: 60163655

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60163655001	318-MSD	EPA 200.7	TJT	15
		EPA 200.7	TJT	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC1	1
		SM 4500-H+B	RAH	1
		SM 5210B	AJM	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60163655002	TRIP BLANK	EPA 624 Low

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ANALYTICAL RESULTS

Project: BRIDGETON LF 318-MSD

Pace Project No.: 60163655

Sample: 318-MSD		Lab ID: 60163655001	Collected: 02/25/14 15:30	Received: 02/26/14 02:15	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	6720	ug/L	75.0	1	02/28/14 16:30	03/03/14 14:10	7429-90-5	
Antimony	ND	ug/L	10.0	1	02/28/14 16:30	03/03/14 14:10	7440-36-0	
Arsenic	138	ug/L	10.0	1	02/28/14 16:30	03/03/14 14:10	7440-38-2	
Beryllium	ND	ug/L	1.0	1	02/28/14 16:30	03/03/14 14:10	7440-41-7	
Cadmium	ND	ug/L	5.0	1	02/28/14 16:30	03/03/14 14:10	7440-43-9	
Chromium	52.5	ug/L	5.0	1	02/28/14 16:30	03/03/14 14:10	7440-47-3	
Cobalt	12.6	ug/L	5.0	1	02/28/14 16:30	03/03/14 14:10	7440-48-4	
Copper	89.9	ug/L	10.0	1	02/28/14 16:30	03/03/14 14:10	7440-50-8	
Iron	165000	ug/L	50.0	1	02/28/14 16:30	03/03/14 14:10	7439-89-6	
Lead	47.1	ug/L	5.0	1	02/28/14 16:30	03/03/14 14:10	7439-92-1	
Nickel	41.2	ug/L	5.0	1	02/28/14 16:30	03/03/14 14:10	7440-02-0	
Selenium	ND	ug/L	15.0	1	02/28/14 16:30	03/03/14 14:10	7782-49-2	
Silver	ND	ug/L	7.0	1	02/28/14 16:30	03/03/14 14:10	7440-22-4	
Thallium	ND	ug/L	20.0	1	02/28/14 16:30	03/03/14 14:10	7440-28-0	
Zinc	1060	ug/L	50.0	1	02/28/14 16:30	03/03/14 14:10	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	220	ug/L	75.0	1	02/28/14 16:40	03/04/14 10:42	7429-90-5	
Antimony, Dissolved	ND	ug/L	10.0	1	02/28/14 16:40	03/04/14 10:42	7440-36-0	
Arsenic, Dissolved	112	ug/L	10.0	1	02/28/14 16:40	03/04/14 10:42	7440-38-2	
Beryllium, Dissolved	ND	ug/L	1.0	1	02/28/14 16:40	03/04/14 10:42	7440-41-7	
Cadmium, Dissolved	ND	ug/L	5.0	1	02/28/14 16:40	03/04/14 10:42	7440-43-9	
Chromium, Dissolved	26.5	ug/L	5.0	1	02/28/14 16:40	03/04/14 10:42	7440-47-3	
Cobalt, Dissolved	7.6	ug/L	5.0	1	02/28/14 16:40	03/04/14 10:42	7440-48-4	
Copper, Dissolved	495	ug/L	10.0	1	02/28/14 16:40	03/04/14 10:42	7440-50-8	1e
Iron, Dissolved	84400	ug/L	50.0	1	02/28/14 16:40	03/04/14 10:42	7439-89-6	M1
Lead, Dissolved	20.9	ug/L	5.0	1	02/28/14 16:40	03/04/14 10:42	7439-92-1	
Nickel, Dissolved	24.2	ug/L	5.0	1	02/28/14 16:40	03/04/14 10:42	7440-02-0	
Selenium, Dissolved	ND	ug/L	15.0	1	02/28/14 16:40	03/04/14 10:42	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	02/28/14 16:40	03/04/14 10:42	7440-22-4	
Thallium, Dissolved	ND	ug/L	20.0	1	02/28/14 16:40	03/04/14 10:42	7440-28-0	
Zinc, Dissolved	1180	ug/L	50.0	1	02/28/14 16:40	03/04/14 10:42	7440-66-6	D9
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND	ug/L	6.0	1	03/03/14 10:00	03/04/14 10:07	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	02/26/14 15:00	02/27/14 10:08	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	02/27/14 00:00	03/01/14 01:03	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	02/27/14 00:00	03/01/14 01:03	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	02/27/14 00:00	03/01/14 01:03	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	02/27/14 00:00	03/01/14 01:03	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	2	02/27/14 00:00	03/01/14 01:03	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	1130J	ug/L	4000	2	02/27/14 00:00	03/01/14 01:03		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 318-MSD

Pace Project No.: 60163655

Sample: 318-MSD		Lab ID: 60163655001	Collected: 02/25/14 15:30	Received: 02/26/14 02:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	ND ug/L		1000	2	02/27/14 00:00	03/01/14 01:03	91-20-3	
Nitrobenzene	ND ug/L		1000	2	02/27/14 00:00	03/01/14 01:03	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	02/27/14 00:00	03/01/14 01:03	87-86-5	
Phenol	1300 ug/L		1000	2	02/27/14 00:00	03/01/14 01:03	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	02/27/14 00:00	03/01/14 01:03	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	02/27/14 00:00	03/01/14 01:03	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	102 %		33-120	2	02/27/14 00:00	03/01/14 01:03	4165-60-0	
2-Fluorobiphenyl (S)	81 %		39-120	2	02/27/14 00:00	03/01/14 01:03	321-60-8	
Terphenyl-d14 (S)	105 %		45-120	2	02/27/14 00:00	03/01/14 01:03	1718-51-0	
Phenol-d6 (S)	28 %		11-120	2	02/27/14 00:00	03/01/14 01:03	13127-88-3	
2-Fluorophenol (S)	37 %		17-120	2	02/27/14 00:00	03/01/14 01:03	367-12-4	
2,4,6-Tribromophenol (S)	86 %		39-120	2	02/27/14 00:00	03/01/14 01:03	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	42800 ug/L		1000	100		03/03/14 14:37	67-64-1	N2
Benzene	ND ug/L		100	100		03/03/14 14:37	71-43-2	
Bromodichloromethane	ND ug/L		100	100		03/03/14 14:37	75-27-4	
Bromoform	ND ug/L		100	100		03/03/14 14:37	75-25-2	
Bromomethane	ND ug/L		500	100		03/03/14 14:37	74-83-9	
2-Butanone (MEK)	23400 ug/L		1000	100		03/03/14 14:37	78-93-3	N2
Carbon tetrachloride	ND ug/L		100	100		03/03/14 14:37	56-23-5	
Chloroethane	ND ug/L		100	100		03/03/14 14:37	75-00-3	
Chloroform	ND ug/L		100	100		03/03/14 14:37	67-66-3	
1,4-Dichlorobenzene	387 ug/L		100	100		03/03/14 14:37	106-46-7	
1,2-Dichloroethane	ND ug/L		100	100		03/03/14 14:37	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		100	100		03/03/14 14:37	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		100	100		03/03/14 14:37	156-60-5	
Ethylbenzene	ND ug/L		100	100		03/03/14 14:37	100-41-4	
Methylene chloride	ND ug/L		100	100		03/03/14 14:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	1890 ug/L		1000	100		03/03/14 14:37	108-10-1	N2
1,1,2-Tetrachloroethane	ND ug/L		100	100		03/03/14 14:37	79-34-5	N2
Tetrachloroethene	ND ug/L		100	100		03/03/14 14:37	127-18-4	
Toluene	ND ug/L		100	100		03/03/14 14:37	108-88-3	
1,1,1-Trichloroethane	ND ug/L		100	100		03/03/14 14:37	71-55-6	
1,1,2-Trichloroethane	ND ug/L		100	100		03/03/14 14:37	79-00-5	
Trichloroethene	ND ug/L		100	100		03/03/14 14:37	79-01-6	
Vinyl chloride	ND ug/L		100	100		03/03/14 14:37	75-01-4	
Xylene (Total)	ND ug/L		300	100		03/03/14 14:37	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	98 %		80-120	100		03/03/14 14:37	460-00-4	
Toluene-d8 (S)	98 %		80-120	100		03/03/14 14:37	2037-26-5	
1,2-Dichloroethane-d4 (S)	103 %		80-120	100		03/03/14 14:37	17060-07-0	
Preservation pH	6.0		1.0	100		03/03/14 14:37		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	214 mg/L		5.0	1		03/05/14 06:56		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 318-MSD

Pace Project No.: 60163655

Sample: 318-MSD		Lab ID: 60163655001	Collected: 02/25/14 15:30	Received: 02/26/14 02:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	19.9	mg/L	5.0	1		03/05/14 07:04		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	740	mg/L	5.0	1		03/03/14 10:55		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.9	Std. Units	0.10	1		02/26/14 14:35		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	2040	mg/L	2.0	1	02/27/14 10:07	03/04/14 09:58		B3
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	87.8	mg/L	5.0	50		02/27/14 10:28	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	8340	mg/L	1000	100		03/05/14 07:56		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 318-MSD

Pace Project No.: 60163655

Sample: TRIP BLANK		Lab ID: 60163655002	Collected: 02/25/14 15:30	Received: 02/26/14 02:15	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		03/03/14 13:02	67-64-1	N2
Benzene	ND ug/L		1.0	1		03/03/14 13:02	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		03/03/14 13:02	75-27-4	
Bromoform	ND ug/L		1.0	1		03/03/14 13:02	75-25-2	
Bromomethane	ND ug/L		5.0	1		03/03/14 13:02	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		03/03/14 13:02	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		03/03/14 13:02	56-23-5	
Chloroethane	ND ug/L		1.0	1		03/03/14 13:02	75-00-3	
Chloroform	ND ug/L		1.0	1		03/03/14 13:02	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		03/03/14 13:02	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		03/03/14 13:02	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		03/03/14 13:02	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		03/03/14 13:02	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		03/03/14 13:02	100-41-4	
Methylene chloride	ND ug/L		1.0	1		03/03/14 13:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		03/03/14 13:02	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		03/03/14 13:02	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		03/03/14 13:02	127-18-4	
Toluene	ND ug/L		1.0	1		03/03/14 13:02	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		03/03/14 13:02	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		03/03/14 13:02	79-00-5	
Trichloroethene	ND ug/L		1.0	1		03/03/14 13:02	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		03/03/14 13:02	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		03/03/14 13:02	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	1		03/03/14 13:02	460-00-4	
Toluene-d8 (S)	98 %		80-120	1		03/03/14 13:02	2037-26-5	
1,2-Dichloroethane-d4 (S)	103 %		80-120	1		03/03/14 13:02	17060-07-0	
Preservation pH	6.0		1.0	1		03/03/14 13:02		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 318-MSD

Pace Project No.: 60163655

QC Batch: MERP/8189

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60163655001

METHOD BLANK: 1337876

Matrix: Water

Associated Lab Samples: 60163655001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	03/04/14 09:58	

LABORATORY CONTROL SAMPLE: 1337877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.5	110	85-115	

MATRIX SPIKE SAMPLE: 1337878

Parameter	Units	60163654001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	150	151	100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1337921 1337922

Parameter	Units	60163872001 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	151	112	99	73	70-130	30	20	R1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 318-MSD

Pace Project No.: 60163655

QC Batch: MERP/8178

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60163655001

METHOD BLANK: 1335591

Matrix: Water

Associated Lab Samples: 60163655001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/27/14 09:52	

LABORATORY CONTROL SAMPLE: 1335592

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.6	112	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1335593 1335594

Parameter	Units	60163572001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Mercury, Dissolved	ug/L	ND	150	150	95.4	53.1	64	35	70-130	57	20	M1,R1	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 318-MSD
Pace Project No.: 60163655

QC Batch: MPRP/26298 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60163655001

METHOD BLANK: 1337095 Matrix: Water
Associated Lab Samples: 60163655001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	03/03/14 14:05	
Antimony	ug/L	ND	10.0	03/03/14 14:05	
Arsenic	ug/L	ND	10.0	03/03/14 14:05	
Beryllium	ug/L	ND	1.0	03/03/14 14:05	
Cadmium	ug/L	ND	5.0	03/03/14 14:05	
Chromium	ug/L	ND	5.0	03/03/14 14:05	
Cobalt	ug/L	ND	5.0	03/03/14 14:05	
Copper	ug/L	ND	10.0	03/03/14 14:05	
Iron	ug/L	ND	50.0	03/03/14 14:05	
Lead	ug/L	ND	5.0	03/03/14 14:05	
Nickel	ug/L	ND	5.0	03/03/14 14:05	
Selenium	ug/L	ND	15.0	03/03/14 14:05	
Silver	ug/L	ND	7.0	03/03/14 14:05	
Thallium	ug/L	ND	20.0	03/03/14 14:05	
Zinc	ug/L	ND	50.0	03/03/14 14:05	

LABORATORY CONTROL SAMPLE: 1337096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9880	99	85-115	
Antimony	ug/L	1000	982	98	85-115	
Arsenic	ug/L	1000	945	95	85-115	
Beryllium	ug/L	1000	1000	100	85-115	
Cadmium	ug/L	1000	984	98	85-115	
Chromium	ug/L	1000	995	100	85-115	
Cobalt	ug/L	1000	996	100	85-115	
Copper	ug/L	1000	1000	100	85-115	
Iron	ug/L	10000	9880	99	85-115	
Lead	ug/L	1000	996	100	85-115	
Nickel	ug/L	1000	1010	101	85-115	
Selenium	ug/L	1000	974	97	85-115	
Silver	ug/L	500	491	98	85-115	
Thallium	ug/L	1000	996	100	85-115	
Zinc	ug/L	1000	985	99	85-115	

MATRIX SPIKE SAMPLE: 1337097

Parameter	Units	60163765001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80900	50000	20900	-120	70-130	M1
Antimony	ug/L	52.6	5000	5330	106	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 318-MSD

Pace Project No.: 60163655

MATRIX SPIKE SAMPLE:		1337097					
Parameter	Units	60163765001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1600	5000	7030	109	70-130	
Beryllium	ug/L	ND	5000	4840	97	70-130	
Cadmium	ug/L	ND	5000	5210	104	70-130	
Chromium	ug/L	438	5000	5100	93	70-130	
Cobalt	ug/L	74.8	5000	4770	94	70-130	
Copper	ug/L	ND	5000	5240	105	70-130	
Iron	ug/L	1560000	50000	1580000	36	70-130	M1
Lead	ug/L	243	5000	4720	90	70-130	
Nickel	ug/L	203	5000	4880	94	70-130	
Selenium	ug/L	ND	5000	5870	117	70-130	
Silver	ug/L	ND	2500	2570	103	70-130	
Thallium	ug/L	ND	5000	4260	84	70-130	
Zinc	ug/L	16300	5000	12000	-85	70-130	M1

MATRIX SPIKE SAMPLE:		1337098					
Parameter	Units	60163726002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	ND	10000	10000	100	70-130	
Antimony	ug/L	ND	1000	1040	104	70-130	
Arsenic	ug/L	ND	1000	1020	102	70-130	
Beryllium	ug/L	ND	1000	1010	101	70-130	
Cadmium	ug/L	ND	1000	1020	102	70-130	
Chromium	ug/L	ND	1000	980	98	70-130	
Cobalt	ug/L	ND	1000	987	99	70-130	
Copper	ug/L	ND	1000	1010	100	70-130	
Iron	ug/L	ND	10000	10000	100	70-130	
Lead	ug/L	ND	1000	974	97	70-130	
Nickel	ug/L	ND	1000	998	100	70-130	
Selenium	ug/L	ND	1000	1020	102	70-130	
Silver	ug/L	ND	500	482	96	70-130	
Thallium	ug/L	ND	1000	974	97	70-130	
Zinc	ug/L	ND	1000	987	97	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 318-MSD

Pace Project No.: 60163655

QC Batch: MPRP/26303

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60163655001

METHOD BLANK: 1337301

Matrix: Water

Associated Lab Samples: 60163655001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	03/04/14 10:38	
Antimony, Dissolved	ug/L	ND	10.0	03/04/14 10:38	
Arsenic, Dissolved	ug/L	ND	10.0	03/04/14 10:38	
Beryllium, Dissolved	ug/L	ND	1.0	03/04/14 10:38	
Cadmium, Dissolved	ug/L	ND	5.0	03/04/14 10:38	
Chromium, Dissolved	ug/L	ND	5.0	03/04/14 10:38	
Cobalt, Dissolved	ug/L	ND	5.0	03/04/14 10:38	
Copper, Dissolved	ug/L	ND	10.0	03/04/14 10:38	
Iron, Dissolved	ug/L	ND	50.0	03/04/14 10:38	
Lead, Dissolved	ug/L	ND	5.0	03/04/14 10:38	
Nickel, Dissolved	ug/L	ND	5.0	03/04/14 10:38	
Selenium, Dissolved	ug/L	ND	15.0	03/04/14 10:38	
Silver, Dissolved	ug/L	ND	7.0	03/04/14 10:38	
Thallium, Dissolved	ug/L	ND	20.0	03/04/14 10:38	
Zinc, Dissolved	ug/L	ND	50.0	03/04/14 10:38	

LABORATORY CONTROL SAMPLE: 1337302

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	1030	103	85-115	
Arsenic, Dissolved	ug/L	1000	1000	100	85-115	
Beryllium, Dissolved	ug/L	1000	1020	102	85-115	
Cadmium, Dissolved	ug/L	1000	1030	103	85-115	
Chromium, Dissolved	ug/L	1000	986	99	85-115	
Cobalt, Dissolved	ug/L	1000	1030	103	85-115	
Copper, Dissolved	ug/L	1000	997	100	85-115	
Iron, Dissolved	ug/L	10000	10300	103	85-115	
Lead, Dissolved	ug/L	1000	1030	103	85-115	
Nickel, Dissolved	ug/L	1000	1060	106	85-115	
Selenium, Dissolved	ug/L	1000	1010	101	85-115	
Silver, Dissolved	ug/L	500	473	95	85-115	
Thallium, Dissolved	ug/L	1000	1080	108	85-115	
Zinc, Dissolved	ug/L	1000	1020	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1337303 1337304

Parameter	Units	60163655001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum, Dissolved	ug/L	220	10000	10000	10300	10300	101	101	70-130	0	8		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 318-MSD

Pace Project No.: 60163655

Parameter	Units	1337303		1337304		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		60163655001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Antimony, Dissolved	ug/L	ND	1000	1000	1080	1060	108	106	70-130	2	7		
Arsenic, Dissolved	ug/L	112	1000	1000	1190	1160	108	104	70-130	3	10		
Beryllium, Dissolved	ug/L	ND	1000	1000	1000	1000	100	100	70-130	0	7		
Cadmium, Dissolved	ug/L	ND	1000	1000	1070	1040	107	104	70-130	2	10		
Chromium, Dissolved	ug/L	26.5	1000	1000	1020	1020	99	99	70-130	0	10		
Cobalt, Dissolved	ug/L	7.6	1000	1000	1020	1000	101	99	70-130	1	6		
Copper, Dissolved	ug/L	495	1000	1000	1560	1530	106	104	70-130	1	11		
Iron, Dissolved	ug/L	84400	10000	10000	91700	90200	73	58	70-130	2	10	M1	
Lead, Dissolved	ug/L	20.9	1000	1000	1000	987	98	97	70-130	1	10		
Nickel, Dissolved	ug/L	24.2	1000	1000	1040	1020	101	100	70-130	2	10		
Selenium, Dissolved	ug/L	ND	1000	1000	1110	1100	111	110	70-130	1	10		
Silver, Dissolved	ug/L	ND	500	500	507	504	101	101	70-130	1	10		
Thallium, Dissolved	ug/L	ND	1000	1000	963	942	95	93	70-130	2	6		
Zinc, Dissolved	ug/L	1180	1000	1000	2130	2090	96	92	70-130	2	11		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 318-MSD

Pace Project No.: 60163655

QC Batch: MSV/59707 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60163655001, 60163655002

METHOD BLANK: 1336803 Matrix: Water

Associated Lab Samples: 60163655001, 60163655002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	03/03/14 12:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/03/14 12:31	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	03/03/14 12:31	
1,2-Dichloroethane	ug/L	ND	1.0	03/03/14 12:31	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/03/14 12:31	
2-Butanone (MEK)	ug/L	ND	10.0	03/03/14 12:31	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	03/03/14 12:31	N2
Acetone	ug/L	ND	10.0	03/03/14 12:31	N2
Benzene	ug/L	ND	1.0	03/03/14 12:31	
Bromodichloromethane	ug/L	ND	1.0	03/03/14 12:31	
Bromoform	ug/L	ND	1.0	03/03/14 12:31	
Bromomethane	ug/L	ND	5.0	03/03/14 12:31	
Carbon tetrachloride	ug/L	ND	1.0	03/03/14 12:31	
Chloroethane	ug/L	ND	1.0	03/03/14 12:31	
Chloroform	ug/L	ND	1.0	03/03/14 12:31	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/03/14 12:31	N2
Ethylbenzene	ug/L	ND	1.0	03/03/14 12:31	
Methylene chloride	ug/L	ND	1.0	03/03/14 12:31	
Tetrachloroethene	ug/L	ND	1.0	03/03/14 12:31	
Toluene	ug/L	ND	1.0	03/03/14 12:31	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/03/14 12:31	
Trichloroethene	ug/L	ND	1.0	03/03/14 12:31	
Vinyl chloride	ug/L	ND	1.0	03/03/14 12:31	
Xylene (Total)	ug/L	ND	3.0	03/03/14 12:31	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	03/03/14 12:31	
4-Bromofluorobenzene (S)	%	102	80-120	03/03/14 12:31	
Toluene-d8 (S)	%	98	80-120	03/03/14 12:31	

LABORATORY CONTROL SAMPLE: 1336804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.9	95	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	21.5	107	67-127	N2
1,1,2-Trichloroethane	ug/L	20	20.2	101	67-124	
1,2-Dichloroethane	ug/L	20	20.4	102	70-126	
1,4-Dichlorobenzene	ug/L	20	20.1	101	74-120	
2-Butanone (MEK)	ug/L	100	108	108	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	100	100	59-131	N2
Acetone	ug/L	100	126	126	38-134	N2
Benzene	ug/L	20	19.5	98	75-120	
Bromodichloromethane	ug/L	20	20.0	100	68-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 318-MSD

Pace Project No.: 60163655

LABORATORY CONTROL SAMPLE: 1336804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.4	102	65-127	
Bromomethane	ug/L	20	18.1	90	13-157	
Carbon tetrachloride	ug/L	20	18.9	94	70-131	
Chloroethane	ug/L	20	15.3	77	47-133	
Chloroform	ug/L	20	17.4	87	65-127	
cis-1,2-Dichloroethene	ug/L	20	17.8	89	68-127	N2
Ethylbenzene	ug/L	20	19.7	99	74-122	
Methylene chloride	ug/L	20	18.3	92	64-129	
Tetrachloroethene	ug/L	20	19.1	96	73-125	
Toluene	ug/L	20	19.5	97	69-126	
trans-1,2-Dichloroethene	ug/L	20	17.7	89	66-129	
Trichloroethene	ug/L	20	20.2	101	71-123	
Vinyl chloride	ug/L	20	21.7	109	43-129	
Xylene (Total)	ug/L	60	60.4	101	75-121	N2
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1336805

Parameter	Units	60163872001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3750	94	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4160	104	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4060	101	52-143	
1,2-Dichloroethane	ug/L	ND	4000	3920	98	49-144	
1,4-Dichlorobenzene	ug/L	852	4000	4430	90	33-140	
2-Butanone (MEK)	ug/L	73900	20000	99000	126	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	2510	20000	22500	100	40-160	N2
Acetone	ug/L	166000	20000	183000	87	10-160	N2
Benzene	ug/L	ND	4000	3670	92	37-151	
Bromodichloromethane	ug/L	ND	4000	3890	97	35-142	
Bromoform	ug/L	ND	4000	4050	101	45-142	
Bromomethane	ug/L	ND	4000	3540	88	10-158	
Carbon tetrachloride	ug/L	ND	4000	3930	98	70-140	
Chloroethane	ug/L	ND	4000	2370	59	19-152	
Chloroform	ug/L	ND	4000	3460	86	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3490	87	34-147	N2
Ethylbenzene	ug/L	ND	4000	3820	94	40-142	
Methylene chloride	ug/L	ND	4000	3700	92	31-144	
Tetrachloroethene	ug/L	ND	4000	3640	91	64-148	
Toluene	ug/L	ND	4000	3800	95	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	3480	87	54-151	
Trichloroethene	ug/L	ND	4000	3950	99	71-149	
Vinyl chloride	ug/L	ND	4000	4380	109	22-146	
Xylene (Total)	ug/L	ND	12000	11300	94	37-144	N2
1,2-Dichloroethane-d4 (S)	%				104	80-120	
4-Bromofluorobenzene (S)	%				96	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 318-MSD

Pace Project No.: 60163655

MATRIX SPIKE SAMPLE:		1336805					
Parameter	Units	60163872001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S) Preservation pH	%	6.0	6.0	6.0	101	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 318-MSD

Pace Project No.: 60163655

QC Batch:	OEXT/42886	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60163655001		

METHOD BLANK: 1335856 Matrix: Water

Associated Lab Samples: 60163655001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/28/14 13:07	
2,4,6-Trichlorophenol	ug/L	ND	5.0	02/28/14 13:07	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	02/28/14 13:07	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	02/28/14 13:07	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	02/28/14 13:07	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/28/14 13:07	
Hexachlorocyclopentadiene	ug/L	ND	5.0	02/28/14 13:07	
Hexachloroethane	ug/L	ND	5.0	02/28/14 13:07	
Naphthalene	ug/L	ND	5.0	02/28/14 13:07	
Nitrobenzene	ug/L	ND	5.0	02/28/14 13:07	
Pentachlorophenol	ug/L	ND	5.0	02/28/14 13:07	
Phenol	ug/L	ND	5.0	02/28/14 13:07	
2,4,6-Tribromophenol (S)	%	92	39-120	02/28/14 13:07	
2-Fluorobiphenyl (S)	%	83	39-120	02/28/14 13:07	
2-Fluorophenol (S)	%	43	17-120	02/28/14 13:07	
Nitrobenzene-d5 (S)	%	93	33-120	02/28/14 13:07	
Phenol-d6 (S)	%	23	11-120	02/28/14 13:07	
Terphenyl-d14 (S)	%	95	45-120	02/28/14 13:07	

LABORATORY CONTROL SAMPLE: 1335857

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.1	78	46-120	
2,4,6-Trichlorophenol	ug/L	50	39.7	79	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	32.5	65		N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	24.4	49		N2
4,6-Dinitro-2-methylphenol	ug/L	50	43.3	87	40-133	
Hexachloro-1,3-butadiene	ug/L	50	39.9	80	44-116	
Hexachlorocyclopentadiene	ug/L	100	69.5	69	24-120	
Hexachloroethane	ug/L	50	39.6	79	43-113	
Naphthalene	ug/L	50	40.2	80	48-120	
Nitrobenzene	ug/L	50	47.3	95	48-120	
Pentachlorophenol	ug/L	50	45.7	91	47-120	
Phenol	ug/L	50	10.7	21	16-112	
2,4,6-Tribromophenol (S)	%			126	39-120	2e
2-Fluorobiphenyl (S)	%			78	39-120	
2-Fluorophenol (S)	%			42	17-120	
Nitrobenzene-d5 (S)	%			96	33-120	
Phenol-d6 (S)	%			23	11-120	
Terphenyl-d14 (S)	%			92	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 318-MSD

Pace Project No.: 60163655

MATRIX SPIKE SAMPLE: 1335858		60163516001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3920	78	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4970	99	50-120	
2-Methylphenol(o-Cresol)	ug/L			4360			N2
3&4-Methylphenol(m&p Cresol)	ug/L			11000			N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	3950J	79	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4110	82	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	7420	74	11-120	
Hexachloroethane	ug/L	ND	5000	4980	100	40-113	
Naphthalene	ug/L	ND	5000	4890	80	45-120	
Nitrobenzene	ug/L	ND	5000	6860	137	38-120	M1
Pentachlorophenol	ug/L	ND	5000	3830	77	43-135	
Phenol	ug/L	8320	5000	11100	55	13-112	
2,4,6-Tribromophenol (S)	%				100	39-120	
2-Fluorobiphenyl (S)	%				90	39-120	
2-Fluorophenol (S)	%				47	17-120	
Nitrobenzene-d5 (S)	%				148	33-120	SO
Phenol-d6 (S)	%				34	11-120	
Terphenyl-d14 (S)	%				105	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 318-MSD

Pace Project No.: 60163655

QC Batch:	WET/46474	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60163655001		

METHOD BLANK: 1338518 Matrix: Water
Associated Lab Samples: 60163655001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	03/05/14 06:53	

LABORATORY CONTROL SAMPLE: 1338519

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.9	100	78-114	

MATRIX SPIKE SAMPLE: 1338520

Parameter	Units	60163435001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	11.5	40.8	57.3	112	78-114	

SAMPLE DUPLICATE: 1338521

Parameter	Units	60163654001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	570	565	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 318-MSD

Pace Project No.: 60163655

QC Batch:	WET/46476	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60163655001		

METHOD BLANK: 1338531 Matrix: Water
Associated Lab Samples: 60163655001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	03/05/14 07:03	

LABORATORY CONTROL SAMPLE: 1338532

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	18.4	92	64-132	

MATRIX SPIKE SAMPLE: 1338533

Parameter	Units	60163602002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	23.5	19.5	79	64-132	

SAMPLE DUPLICATE: 1338534

Parameter	Units	60163762001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	13.2	14.4	9	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 318-MSD

Pace Project No.: 60163655

QC Batch: WET/46433

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60163655001

METHOD BLANK: 1337995

Matrix: Water

Associated Lab Samples: 60163655001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	03/03/14 10:55	

SAMPLE DUPLICATE: 1337996

Parameter	Units	60163655001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	740	760	3	10	

SAMPLE DUPLICATE: 1337997

Parameter	Units	60163600001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	11.0	15.0	31	10	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 318-MSD

Pace Project No.: 60163655

QC Batch: WET/46361 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60163655001

SAMPLE DUPLICATE: 1335603

Parameter	Units	60163529001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.0	8.0	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 318-MSD

Pace Project No.: 60163655

QC Batch: WET/46372

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60163655001

METHOD BLANK: 1335903

Matrix: Water

Associated Lab Samples: 60163655001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	03/04/14 09:29	

LABORATORY CONTROL SAMPLE: 1335904

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	177	89	85-115	

SAMPLE DUPLICATE: 1335914

Parameter	Units	60163701001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	3.5	3.2	8	17	B3

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QUALITY CONTROL DATA

Project: BRIDGETON LF 318-MSD

Pace Project No.: 60163655

QC Batch:	WETA/28368	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60163655001		

METHOD BLANK: 1335920 Matrix: Water
Associated Lab Samples: 60163655001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/27/14 09:53	

LABORATORY CONTROL SAMPLE: 1335921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.2	109	90-110	

MATRIX SPIKE SAMPLE: 1335922

Parameter	Units	60163611003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.15	2	1.9	90	90-110	

MATRIX SPIKE SAMPLE: 1335923

Parameter	Units	60163631002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	3.8	2	5.6	91	90-110	

SAMPLE DUPLICATE: 1335924

Parameter	Units	60163658017 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 318-MSD

Pace Project No.: 60163655

QC Batch:	WETA/28437	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60163655001		

METHOD BLANK: 1338197 Matrix: Water
Associated Lab Samples: 60163655001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	03/05/14 07:45	

LABORATORY CONTROL SAMPLE: 1338198

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	47.1	94	90-110	

MATRIX SPIKE SAMPLE: 1338199

Parameter	Units	60163322001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	932	500	1420	97	90-110	

MATRIX SPIKE SAMPLE: 1338201

Parameter	Units	60163560016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50	51.8	104	90-110	

SAMPLE DUPLICATE: 1338200

Parameter	Units	60163655001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	8340	8980	7	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 318-MSD

Pace Project No.: 60163655

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 Dissolved result is greater than the total. Data was confirmed by a bottle check.
- 2e Surrogate recovery outside laboratory control limits. No further action was taken since all spike recoveries were within QC limits.
- B3 The dissolved oxygen depletion of the dilution water blank exceeded 0.2 mg/L.
- 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.
- R1 RPD value was outside control limits.
- S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 318-MSD

Pace Project No.: 60163655

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60163655001	318-MSD	EPA 200.7	MPRP/26298	EPA 200.7	ICP/20075
60163655001	318-MSD	EPA 200.7	MPRP/26303	EPA 200.7	ICP/20079
60163655001	318-MSD	EPA 245.1	MERP/8189	EPA 245.1	MERC/8145
60163655001	318-MSD	EPA 245.1	MERP/8178	EPA 245.1	MERC/8133
60163655001	318-MSD	EPA 625	OEXT/42886	EPA 625	MSSV/13662
60163655001	318-MSD	EPA 624 Low	MSV/59707		
60163655002	TRIP BLANK	EPA 624 Low	MSV/59707		
60163655001	318-MSD	EPA 1664A	WET/46474		
60163655001	318-MSD	EPA 1664A	WET/46476		
60163655001	318-MSD	SM 2540D	WET/46433		
60163655001	318-MSD	SM 4500-H+B	WET/46361		
60163655001	318-MSD	SM 5210B	WET/46372	SM 5210B	WET/46461
60163655001	318-MSD	EPA 350.1	WETA/28368		
60163655001	318-MSD	EPA 410.4	WETA/28437		

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Sample Condition Upon Receipt

WO#: 60163655



Client Name: Barr

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

Thermometer Used: T-239 / T-194 Type of Ice: Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 0.6

Temperature should be above freezing to 6°C

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: [Signature] 2/26/14

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>Box pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix:	<u>WT</u>	13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>HNO₃ initial pH ~3.0; added 2.5 ml HNO₃; final ~1.5</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Exceptions: VOA, coliform, TOC, <u>P&C</u> , WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>[Signature]</u> Lot # of added preservative <u>12513</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>Feb 12 2014</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>No headspace in any vials</u>
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MO</u>

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 2/27/14

March 05, 2014

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

RE: Project: BRIDGETON LF 316-228R5
Pace Project No.: 60163656

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 26, 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 316-228R5

Pace Project No.: 60163656

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 316-228R5

Pace Project No.: 60163656

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60163656001	316-228R5	Water	02/25/14 11:30	02/26/14 02:15
60163656002	TRIP BLANK	Water	02/25/14 11:30	02/26/14 02:15

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-228R5

Pace Project No.: 60163656

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60163656001	316-228R5	EPA 200.7	JGP, TJT	15
		EPA 200.7	JGP	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC1	1
		SM 4500-H+B	RAH	1
		SM 5210B	AJM	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
60163656002	TRIP BLANK	EPA 624 Low	EAK	28

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-228R5

Pace Project No.: 60163656

Sample: 316-228R5		Lab ID: 60163656001	Collected: 02/25/14 11:30	Received: 02/26/14 02:15	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	14000 ug/L		1120	3	02/27/14 08:55	02/28/14 12:30	7429-90-5	
Antimony	125 ug/L		50.0	1	02/27/14 08:55	02/27/14 16:23	7440-36-0	
Arsenic	1390 ug/L		50.0	1	02/27/14 08:55	02/27/14 16:23	7440-38-2	
Beryllium	ND ug/L		10.0	2	02/27/14 08:55	02/27/14 16:25	7440-41-7	D3
Cadmium	26.5 ug/L		25.0	1	02/27/14 08:55	02/27/14 16:23	7440-43-9	
Chromium	447 ug/L		25.0	1	02/27/14 08:55	02/27/14 16:23	7440-47-3	
Cobalt	58.5 ug/L		25.0	1	02/27/14 08:55	02/27/14 16:23	7440-48-4	
Copper	98.8 ug/L		50.0	1	02/27/14 08:55	02/27/14 16:23	7440-50-8	
Iron	1420000 ug/L		250	1	02/27/14 08:55	02/27/14 16:23	7439-89-6	
Lead	281 ug/L		25.0	1	02/27/14 08:55	02/27/14 16:23	7439-92-1	
Nickel	170 ug/L		25.0	1	02/27/14 08:55	02/27/14 16:23	7440-02-0	
Selenium	113 ug/L		75.0	1	02/27/14 08:55	02/27/14 16:23	7782-49-2	
Silver	ND ug/L		35.0	1	02/27/14 08:55	02/27/14 16:23	7440-22-4	
Thallium	ND ug/L		100	1	02/27/14 08:55	02/27/14 16:23	7440-28-0	
Zinc	14200 ug/L		750	3	02/27/14 08:55	02/28/14 12:30	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	2570 ug/L		750	2	02/26/14 14:15	02/27/14 10:38	7429-90-5	
Antimony, Dissolved	ND ug/L		100	2	02/26/14 14:15	02/27/14 10:38	7440-36-0	D3
Arsenic, Dissolved	1030 ug/L		50.0	1	02/26/14 14:15	02/27/14 10:34	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	02/26/14 14:15	02/27/14 10:34	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	02/26/14 14:15	02/27/14 10:34	7440-43-9	
Chromium, Dissolved	248 ug/L		25.0	1	02/26/14 14:15	02/27/14 10:34	7440-47-3	
Cobalt, Dissolved	40.1 ug/L		25.0	1	02/26/14 14:15	02/27/14 10:34	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	02/26/14 14:15	02/27/14 10:34	7440-50-8	
Iron, Dissolved	696000 ug/L		250	1	02/26/14 14:15	02/27/14 10:34	7439-89-6	
Lead, Dissolved	144 ug/L		25.0	1	02/26/14 14:15	02/27/14 10:34	7439-92-1	
Nickel, Dissolved	116 ug/L		25.0	1	02/26/14 14:15	02/27/14 10:34	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	02/26/14 14:15	02/27/14 10:34	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	02/26/14 14:15	02/27/14 10:34	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	02/26/14 14:15	02/27/14 10:34	7440-28-0	
Zinc, Dissolved	9960 ug/L		500	2	02/26/14 14:15	02/27/14 10:38	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	76.5 ug/L		6.0	1	03/03/14 10:00	03/04/14 10:09	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	02/26/14 15:00	02/27/14 10:10	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		50000	20	02/27/14 00:00	03/01/14 01:44	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		10000	20	02/27/14 00:00	03/01/14 01:44	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		10000	20	02/27/14 00:00	03/01/14 01:44	77-47-4	
Hexachloroethane	ND ug/L		10000	20	02/27/14 00:00	03/01/14 01:44	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		20000	20	02/27/14 00:00	03/01/14 01:44	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	ND ug/L		40000	20	02/27/14 00:00	03/01/14 01:44		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-228R5

Pace Project No.: 60163656

Sample: 316-228R5		Lab ID: 60163656001	Collected: 02/25/14 11:30	Received: 02/26/14 02:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	59600	ug/L	10000	20	02/27/14 00:00	03/01/14 01:44	91-20-3	
Nitrobenzene	ND	ug/L	10000	20	02/27/14 00:00	03/01/14 01:44	98-95-3	
Pentachlorophenol	ND	ug/L	10000	20	02/27/14 00:00	03/01/14 01:44	87-86-5	
Phenol	27200	ug/L	10000	20	02/27/14 00:00	03/01/14 01:44	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	10000	20	02/27/14 00:00	03/01/14 01:44	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	10000	20	02/27/14 00:00	03/01/14 01:44	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	0 %		33-120	20	02/27/14 00:00	03/01/14 01:44	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		39-120	20	02/27/14 00:00	03/01/14 01:44	321-60-8	S4
Terphenyl-d14 (S)	0 %		45-120	20	02/27/14 00:00	03/01/14 01:44	1718-51-0	S4
Phenol-d6 (S)	0 %		11-120	20	02/27/14 00:00	03/01/14 01:44	13127-88-3	S4
2-Fluorophenol (S)	0 %		17-120	20	02/27/14 00:00	03/01/14 01:44	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		39-120	20	02/27/14 00:00	03/01/14 01:44	118-79-6	S4
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	155000	ug/L	2000	200		03/03/14 14:52	67-64-1	N2
Benzene	ND	ug/L	200	200		03/03/14 14:52	71-43-2	
Bromodichloromethane	ND	ug/L	200	200		03/03/14 14:52	75-27-4	
Bromoform	ND	ug/L	200	200		03/03/14 14:52	75-25-2	
Bromomethane	ND	ug/L	1000	200		03/03/14 14:52	74-83-9	
2-Butanone (MEK)	65100	ug/L	2000	200		03/03/14 14:52	78-93-3	N2
Carbon tetrachloride	ND	ug/L	200	200		03/03/14 14:52	56-23-5	
Chloroethane	ND	ug/L	200	200		03/03/14 14:52	75-00-3	
Chloroform	ND	ug/L	200	200		03/03/14 14:52	67-66-3	
1,4-Dichlorobenzene	2730	ug/L	200	200		03/03/14 14:52	106-46-7	
1,2-Dichloroethane	ND	ug/L	200	200		03/03/14 14:52	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200	200		03/03/14 14:52	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	200	200		03/03/14 14:52	156-60-5	
Ethylbenzene	706	ug/L	200	200		03/03/14 14:52	100-41-4	
Methylene chloride	ND	ug/L	200	200		03/03/14 14:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	3010	ug/L	2000	200		03/03/14 14:52	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		03/03/14 14:52	79-34-5	N2
Tetrachloroethene	ND	ug/L	200	200		03/03/14 14:52	127-18-4	
Toluene	ND	ug/L	200	200		03/03/14 14:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200	200		03/03/14 14:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		03/03/14 14:52	79-00-5	
Trichloroethene	ND	ug/L	200	200		03/03/14 14:52	79-01-6	
Vinyl chloride	ND	ug/L	200	200		03/03/14 14:52	75-01-4	
Xylene (Total)	2550	ug/L	600	200		03/03/14 14:52	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	94 %		80-120	200		03/03/14 14:52	460-00-4	
Toluene-d8 (S)	100 %		80-120	200		03/03/14 14:52	2037-26-5	
1,2-Dichloroethane-d4 (S)	111 %		80-120	200		03/03/14 14:52	17060-07-0	
Preservation pH	6.0		1.0	200		03/03/14 14:52		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	5190	mg/L	5.0	1		03/05/14 06:56		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-228R5

Pace Project No.: 60163656

Sample: 316-228R5		Lab ID: 60163656001	Collected: 02/25/14 11:30	Received: 02/26/14 02:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	56.4	mg/L	5.0	1		03/05/14 07:04		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	6620	mg/L	5.0	1		03/03/14 10:56		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.2	Std. Units	0.10	1		02/26/14 14:35		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	16300	mg/L	2.0	1	02/26/14 13:41	03/03/14 13:22		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	740	mg/L	20.0	200		02/27/14 10:10	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	99200	mg/L	10000	1000		03/03/14 08:04		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-228R5

Pace Project No.: 60163656

Sample: TRIP BLANK		Lab ID: 60163656002	Collected: 02/25/14 11:30	Received: 02/26/14 02:15	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		03/03/14 13:18	67-64-1	N2
Benzene	ND ug/L		1.0	1		03/03/14 13:18	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		03/03/14 13:18	75-27-4	
Bromoform	ND ug/L		1.0	1		03/03/14 13:18	75-25-2	
Bromomethane	ND ug/L		5.0	1		03/03/14 13:18	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		03/03/14 13:18	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		03/03/14 13:18	56-23-5	
Chloroethane	ND ug/L		1.0	1		03/03/14 13:18	75-00-3	
Chloroform	ND ug/L		1.0	1		03/03/14 13:18	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		03/03/14 13:18	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		03/03/14 13:18	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		03/03/14 13:18	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		03/03/14 13:18	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		03/03/14 13:18	100-41-4	
Methylene chloride	ND ug/L		1.0	1		03/03/14 13:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		03/03/14 13:18	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		03/03/14 13:18	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		03/03/14 13:18	127-18-4	
Toluene	ND ug/L		1.0	1		03/03/14 13:18	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		03/03/14 13:18	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		03/03/14 13:18	79-00-5	
Trichloroethene	ND ug/L		1.0	1		03/03/14 13:18	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		03/03/14 13:18	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		03/03/14 13:18	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	1		03/03/14 13:18	460-00-4	
Toluene-d8 (S)	100 %		80-120	1		03/03/14 13:18	2037-26-5	
1,2-Dichloroethane-d4 (S)	102 %		80-120	1		03/03/14 13:18	17060-07-0	
Preservation pH	6.0		1.0	1		03/03/14 13:18		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-228R5

Pace Project No.: 60163656

QC Batch: MERP/8189 Analysis Method: EPA 245.1
 QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
 Associated Lab Samples: 60163656001

METHOD BLANK: 1337876 Matrix: Water
 Associated Lab Samples: 60163656001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	03/04/14 09:58	

LABORATORY CONTROL SAMPLE: 1337877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.5	110	85-115	

MATRIX SPIKE SAMPLE: 1337878

Parameter	Units	60163654001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	150	151	100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1337921 1337922

Parameter	Units	60163872001 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	151	112	99	73	70-130	30	20	R1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-228R5

Pace Project No.: 60163656

QC Batch: MERP/8178 Analysis Method: EPA 245.1
 QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury - Dissolved
 Associated Lab Samples: 60163656001

METHOD BLANK: 1335591 Matrix: Water
 Associated Lab Samples: 60163656001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	02/27/14 09:52	

LABORATORY CONTROL SAMPLE: 1335592

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.6	112	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1335593 1335594

Parameter	Units	60163572001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	ND	Spike Conc.	MS Conc.	Spike Conc.	MS Conc.	MSD Result	MSD Result	% Rec	% Rec				
Mercury, Dissolved	ug/L	ND	ND	150	150	95.4	53.1	64	35	70-130	57	20	M1,R1		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-228R5
Pace Project No.: 60163656

QC Batch: MPRP/26270 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60163656001

METHOD BLANK: 1335893 Matrix: Water
Associated Lab Samples: 60163656001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	02/27/14 14:21	
Antimony	ug/L	ND	10.0	02/27/14 14:21	
Arsenic	ug/L	ND	10.0	02/27/14 14:21	
Beryllium	ug/L	ND	1.0	02/27/14 14:21	
Cadmium	ug/L	ND	5.0	02/27/14 14:21	
Chromium	ug/L	ND	5.0	02/27/14 14:21	
Cobalt	ug/L	ND	5.0	02/27/14 14:21	
Copper	ug/L	ND	10.0	02/27/14 14:21	
Iron	ug/L	ND	50.0	02/27/14 14:21	
Lead	ug/L	ND	5.0	02/27/14 14:21	
Nickel	ug/L	ND	5.0	02/27/14 14:21	
Selenium	ug/L	ND	15.0	02/27/14 14:21	
Silver	ug/L	ND	7.0	02/27/14 14:21	
Thallium	ug/L	ND	20.0	02/27/14 14:21	
Zinc	ug/L	ND	50.0	02/27/14 14:21	

LABORATORY CONTROL SAMPLE: 1335894

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10000	100	85-115	
Antimony	ug/L	1000	992	99	85-115	
Arsenic	ug/L	1000	961	96	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1000	100	85-115	
Chromium	ug/L	1000	1060	106	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	995	99	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	984	98	85-115	
Silver	ug/L	500	497	99	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	1040	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1335895 1335896

Parameter	Units	60163516001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum	ug/L	8850	50000	50000	66000	66500	114	115	70-130	1	8		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-228R5

Pace Project No.: 60163656

Parameter	Units	1335895		1335896		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		60163516001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Antimony	ug/L	72.2	5000	5000	5280	5320	104	105	70-130	1	7
Arsenic	ug/L	962	5000	5000	6550	6580	112	112	70-130	1	10
Beryllium	ug/L	ND	5000	5000	5020	5060	100	101	70-130	1	7
Cadmium	ug/L	ND	5000	5000	5280	5340	105	107	70-130	1	10
Chromium	ug/L	344	5000	5000	5420	5460	102	102	70-130	1	10
Cobalt	ug/L	52.4	5000	5000	4880	4930	97	98	70-130	1	6
Copper	ug/L	ND	5000	5000	5200	5240	103	104	70-130	1	11
Iron	ug/L	1110000	50000	50000	1230000	1210000	239	197	70-130	2	10 M1
Lead	ug/L	142	5000	5000	4710	4750	91	92	70-130	1	10
Nickel	ug/L	140	5000	5000	4940	4940	96	96	70-130	0	10
Selenium	ug/L	ND	5000	5000	6080	6090	120	121	70-130	0	10
Silver	ug/L	ND	2500	2500	2640	2650	105	105	70-130	0	10
Thallium	ug/L	ND	5000	5000	4160	4160	83	83	70-130	0	6
Zinc	ug/L	10300	5000	5000	16000	15500	116	105	70-130	3	11

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-228R5
Pace Project No.: 60163656

QC Batch: MPRP/26265 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60163656001

METHOD BLANK: 1335554 Matrix: Water
Associated Lab Samples: 60163656001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	02/27/14 09:54	
Antimony, Dissolved	ug/L	ND	10.0	02/27/14 09:54	
Arsenic, Dissolved	ug/L	ND	10.0	02/27/14 09:54	
Beryllium, Dissolved	ug/L	ND	1.0	02/27/14 09:54	
Cadmium, Dissolved	ug/L	ND	5.0	02/27/14 09:54	
Chromium, Dissolved	ug/L	ND	5.0	02/27/14 09:54	
Cobalt, Dissolved	ug/L	ND	5.0	02/27/14 09:54	
Copper, Dissolved	ug/L	ND	10.0	02/27/14 09:54	
Iron, Dissolved	ug/L	ND	50.0	02/27/14 09:54	
Lead, Dissolved	ug/L	ND	5.0	02/27/14 09:54	
Nickel, Dissolved	ug/L	ND	5.0	02/27/14 09:54	
Selenium, Dissolved	ug/L	ND	15.0	02/27/14 09:54	
Silver, Dissolved	ug/L	ND	7.0	02/27/14 09:54	
Thallium, Dissolved	ug/L	ND	20.0	02/27/14 09:54	
Zinc, Dissolved	ug/L	ND	50.0	02/27/14 09:54	

LABORATORY CONTROL SAMPLE: 1335555

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9450	94	85-115	
Antimony, Dissolved	ug/L	1000	984	98	85-115	
Arsenic, Dissolved	ug/L	1000	970	97	85-115	
Beryllium, Dissolved	ug/L	1000	984	98	85-115	
Cadmium, Dissolved	ug/L	1000	955	96	85-115	
Chromium, Dissolved	ug/L	1000	964	96	85-115	
Cobalt, Dissolved	ug/L	1000	979	98	85-115	
Copper, Dissolved	ug/L	1000	962	96	85-115	
Iron, Dissolved	ug/L	10000	9460	95	85-115	
Lead, Dissolved	ug/L	1000	969	97	85-115	
Nickel, Dissolved	ug/L	1000	1000	100	85-115	
Selenium, Dissolved	ug/L	1000	982	98	85-115	
Silver, Dissolved	ug/L	500	466	93	85-115	
Thallium, Dissolved	ug/L	1000	1000	100	85-115	
Zinc, Dissolved	ug/L	1000	950	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1335556 1335557

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Result	Spike Conc.	Result						
Aluminum, Dissolved	ug/L	2610	50000	50000	50200	95	98	70-130	3	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-228R5

Pace Project No.: 60163656

Parameter	Units	1335556		1335557		MS % Rec	MSD % Rec	% Rec	Limits	RPD	Max RPD	Qual
		60163572001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Antimony, Dissolved	ug/L	ND	5000	5000	5140	5370	102	106	70-130	4	7	
Arsenic, Dissolved	ug/L	1010	5000	5000	6320	6580	106	111	70-130	4	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	4590	4780	92	96	70-130	4	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	4960	5260	99	105	70-130	6	10	
Chromium, Dissolved	ug/L	290	5000	5000	4840	5020	91	95	70-130	4	10	
Cobalt, Dissolved	ug/L	46.0	5000	5000	4530	4770	90	94	70-130	5	6	
Copper, Dissolved	ug/L	ND	5000	5000	5060	5360	101	107	70-130	6	11	
Iron, Dissolved	ug/L	863000	50000	50000	848000	887000	-31	48	70-130	5	10	M1
Lead, Dissolved	ug/L	127	5000	5000	4330	4530	84	88	70-130	5	10	
Nickel, Dissolved	ug/L	128	5000	5000	4650	4860	90	95	70-130	4	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5940	6280	118	125	70-130	6	10	
Silver, Dissolved	ug/L	ND	2500	2500	2550	2680	102	107	70-130	5	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4140	4340	83	87	70-130	5	6	
Zinc, Dissolved	ug/L	10000	5000	5000	13800	14400	76	87	70-130	4	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-228R5

Pace Project No.: 60163656

QC Batch: MSV/59707 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60163656001, 60163656002

METHOD BLANK: 1336803 Matrix: Water

Associated Lab Samples: 60163656001, 60163656002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	03/03/14 12:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/03/14 12:31	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	03/03/14 12:31	
1,2-Dichloroethane	ug/L	ND	1.0	03/03/14 12:31	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/03/14 12:31	
2-Butanone (MEK)	ug/L	ND	10.0	03/03/14 12:31	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	03/03/14 12:31	N2
Acetone	ug/L	ND	10.0	03/03/14 12:31	N2
Benzene	ug/L	ND	1.0	03/03/14 12:31	
Bromodichloromethane	ug/L	ND	1.0	03/03/14 12:31	
Bromoform	ug/L	ND	1.0	03/03/14 12:31	
Bromomethane	ug/L	ND	5.0	03/03/14 12:31	
Carbon tetrachloride	ug/L	ND	1.0	03/03/14 12:31	
Chloroethane	ug/L	ND	1.0	03/03/14 12:31	
Chloroform	ug/L	ND	1.0	03/03/14 12:31	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/03/14 12:31	N2
Ethylbenzene	ug/L	ND	1.0	03/03/14 12:31	
Methylene chloride	ug/L	ND	1.0	03/03/14 12:31	
Tetrachloroethene	ug/L	ND	1.0	03/03/14 12:31	
Toluene	ug/L	ND	1.0	03/03/14 12:31	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/03/14 12:31	
Trichloroethene	ug/L	ND	1.0	03/03/14 12:31	
Vinyl chloride	ug/L	ND	1.0	03/03/14 12:31	
Xylene (Total)	ug/L	ND	3.0	03/03/14 12:31	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	03/03/14 12:31	
4-Bromofluorobenzene (S)	%	102	80-120	03/03/14 12:31	
Toluene-d8 (S)	%	98	80-120	03/03/14 12:31	

LABORATORY CONTROL SAMPLE: 1336804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.9	95	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	21.5	107	67-127	N2
1,1,2-Trichloroethane	ug/L	20	20.2	101	67-124	
1,2-Dichloroethane	ug/L	20	20.4	102	70-126	
1,4-Dichlorobenzene	ug/L	20	20.1	101	74-120	
2-Butanone (MEK)	ug/L	100	108	108	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	100	100	59-131	N2
Acetone	ug/L	100	126	126	38-134	N2
Benzene	ug/L	20	19.5	98	75-120	
Bromodichloromethane	ug/L	20	20.0	100	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-228R5

Pace Project No.: 60163656

LABORATORY CONTROL SAMPLE: 1336804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.4	102	65-127	
Bromomethane	ug/L	20	18.1	90	13-157	
Carbon tetrachloride	ug/L	20	18.9	94	70-131	
Chloroethane	ug/L	20	15.3	77	47-133	
Chloroform	ug/L	20	17.4	87	65-127	
cis-1,2-Dichloroethene	ug/L	20	17.8	89	68-127	N2
Ethylbenzene	ug/L	20	19.7	99	74-122	
Methylene chloride	ug/L	20	18.3	92	64-129	
Tetrachloroethene	ug/L	20	19.1	96	73-125	
Toluene	ug/L	20	19.5	97	69-126	
trans-1,2-Dichloroethene	ug/L	20	17.7	89	66-129	
Trichloroethene	ug/L	20	20.2	101	71-123	
Vinyl chloride	ug/L	20	21.7	109	43-129	
Xylene (Total)	ug/L	60	60.4	101	75-121	N2
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1336805

Parameter	Units	60163872001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3750	94	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4160	104	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4060	101	52-143	
1,2-Dichloroethane	ug/L	ND	4000	3920	98	49-144	
1,4-Dichlorobenzene	ug/L	852	4000	4430	90	33-140	
2-Butanone (MEK)	ug/L	73900	20000	99000	126	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	2510	20000	22500	100	40-160	N2
Acetone	ug/L	166000	20000	183000	87	10-160	N2
Benzene	ug/L	ND	4000	3670	92	37-151	
Bromodichloromethane	ug/L	ND	4000	3890	97	35-142	
Bromoform	ug/L	ND	4000	4050	101	45-142	
Bromomethane	ug/L	ND	4000	3540	88	10-158	
Carbon tetrachloride	ug/L	ND	4000	3930	98	70-140	
Chloroethane	ug/L	ND	4000	2370	59	19-152	
Chloroform	ug/L	ND	4000	3460	86	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3490	87	34-147	N2
Ethylbenzene	ug/L	ND	4000	3820	94	40-142	
Methylene chloride	ug/L	ND	4000	3700	92	31-144	
Tetrachloroethene	ug/L	ND	4000	3640	91	64-148	
Toluene	ug/L	ND	4000	3800	95	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	3480	87	54-151	
Trichloroethene	ug/L	ND	4000	3950	99	71-149	
Vinyl chloride	ug/L	ND	4000	4380	109	22-146	
Xylene (Total)	ug/L	ND	12000	11300	94	37-144	N2
1,2-Dichloroethane-d4 (S)	%				104	80-120	
4-Bromofluorobenzene (S)	%				96	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-228R5

Pace Project No.: 60163656

MATRIX SPIKE SAMPLE:		1336805					
Parameter	Units	60163872001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S) Preservation pH	%	6.0	6.0	6.0	101	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-228R5

Pace Project No.: 60163656

QC Batch:	OEXT/42886	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60163656001		

METHOD BLANK: 1335856 Matrix: Water

Associated Lab Samples: 60163656001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/28/14 13:07	
2,4,6-Trichlorophenol	ug/L	ND	5.0	02/28/14 13:07	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	02/28/14 13:07	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	02/28/14 13:07	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	02/28/14 13:07	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/28/14 13:07	
Hexachlorocyclopentadiene	ug/L	ND	5.0	02/28/14 13:07	
Hexachloroethane	ug/L	ND	5.0	02/28/14 13:07	
Naphthalene	ug/L	ND	5.0	02/28/14 13:07	
Nitrobenzene	ug/L	ND	5.0	02/28/14 13:07	
Pentachlorophenol	ug/L	ND	5.0	02/28/14 13:07	
Phenol	ug/L	ND	5.0	02/28/14 13:07	
2,4,6-Tribromophenol (S)	%	92	39-120	02/28/14 13:07	
2-Fluorobiphenyl (S)	%	83	39-120	02/28/14 13:07	
2-Fluorophenol (S)	%	43	17-120	02/28/14 13:07	
Nitrobenzene-d5 (S)	%	93	33-120	02/28/14 13:07	
Phenol-d6 (S)	%	23	11-120	02/28/14 13:07	
Terphenyl-d14 (S)	%	95	45-120	02/28/14 13:07	

LABORATORY CONTROL SAMPLE: 1335857

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.1	78	46-120	
2,4,6-Trichlorophenol	ug/L	50	39.7	79	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	32.5	65		N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	24.4	49		N2
4,6-Dinitro-2-methylphenol	ug/L	50	43.3	87	40-133	
Hexachloro-1,3-butadiene	ug/L	50	39.9	80	44-116	
Hexachlorocyclopentadiene	ug/L	100	69.5	69	24-120	
Hexachloroethane	ug/L	50	39.6	79	43-113	
Naphthalene	ug/L	50	40.2	80	48-120	
Nitrobenzene	ug/L	50	47.3	95	48-120	
Pentachlorophenol	ug/L	50	45.7	91	47-120	
Phenol	ug/L	50	10.7	21	16-112	
2,4,6-Tribromophenol (S)	%			126	39-120	1e
2-Fluorobiphenyl (S)	%			78	39-120	
2-Fluorophenol (S)	%			42	17-120	
Nitrobenzene-d5 (S)	%			96	33-120	
Phenol-d6 (S)	%			23	11-120	
Terphenyl-d14 (S)	%			92	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-228R5

Pace Project No.: 60163656

MATRIX SPIKE SAMPLE:		1335858					
Parameter	Units	60163516001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3920	78	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4970	99	50-120	
2-Methylphenol(o-Cresol)	ug/L			4360			N2
3&4-Methylphenol(m&p Cresol)	ug/L			11000			N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	3950J	79	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4110	82	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	7420	74	11-120	
Hexachloroethane	ug/L	ND	5000	4980	100	40-113	
Naphthalene	ug/L	ND	5000	4890	80	45-120	
Nitrobenzene	ug/L	ND	5000	6860	137	38-120	M1
Pentachlorophenol	ug/L	ND	5000	3830	77	43-135	
Phenol	ug/L	8320	5000	11100	55	13-112	
2,4,6-Tribromophenol (S)	%				100	39-120	
2-Fluorobiphenyl (S)	%				90	39-120	
2-Fluorophenol (S)	%				47	17-120	
Nitrobenzene-d5 (S)	%				148	33-120	SO
Phenol-d6 (S)	%				34	11-120	
Terphenyl-d14 (S)	%				105	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-228R5

Pace Project No.: 60163656

QC Batch: WET/46474

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60163656001

METHOD BLANK: 1338518

Matrix: Water

Associated Lab Samples: 60163656001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	03/05/14 06:53	

LABORATORY CONTROL SAMPLE: 1338519

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.9	100	78-114	

MATRIX SPIKE SAMPLE: 1338520

Parameter	Units	60163435001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	11.5	40.8	57.3	112	78-114	

SAMPLE DUPLICATE: 1338521

Parameter	Units	60163654001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	570	565	1	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-228R5

Pace Project No.: 60163656

QC Batch: WET/46476

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60163656001

METHOD BLANK: 1338531

Matrix: Water

Associated Lab Samples: 60163656001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	03/05/14 07:03	

LABORATORY CONTROL SAMPLE: 1338532

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	18.4	92	64-132	

MATRIX SPIKE SAMPLE: 1338533

Parameter	Units	60163602002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	23.5	19.5	79	64-132	

SAMPLE DUPLICATE: 1338534

Parameter	Units	60163762001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	13.2	14.4	9	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-228R5

Pace Project No.: 60163656

QC Batch: WET/46433

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60163656001

METHOD BLANK: 1337995

Matrix: Water

Associated Lab Samples: 60163656001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	03/03/14 10:55	

SAMPLE DUPLICATE: 1337996

Parameter	Units	60163655001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	740	760	3	10	

SAMPLE DUPLICATE: 1337997

Parameter	Units	60163600001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	11.0	15.0	31	10	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-228R5

Pace Project No.: 60163656

QC Batch: WET/46361 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60163656001

SAMPLE DUPLICATE: 1335603

Parameter	Units	60163529001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.0	8.0	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-228R5

Pace Project No.: 60163656

QC Batch: WET/46353

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60163656001

METHOD BLANK: 1335428

Matrix: Water

Associated Lab Samples: 60163656001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	03/03/14 12:28	

LABORATORY CONTROL SAMPLE: 1335429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	187	94	85-115	

SAMPLE DUPLICATE: 1335430

Parameter	Units	60163585001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	1720	1800	4	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-228R5

Pace Project No.: 60163656

QC Batch:	WETA/28368	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60163656001		

METHOD BLANK: 1335920 Matrix: Water
Associated Lab Samples: 60163656001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/27/14 09:53	

LABORATORY CONTROL SAMPLE: 1335921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.2	109	90-110	

MATRIX SPIKE SAMPLE: 1335922

Parameter	Units	60163611003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.15	2	1.9	90	90-110	

MATRIX SPIKE SAMPLE: 1335923

Parameter	Units	60163631002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	3.8	2	5.6	91	90-110	

SAMPLE DUPLICATE: 1335924

Parameter	Units	60163658017 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-228R5

Pace Project No.: 60163656

QC Batch:	WETA/28367	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60163656001		

METHOD BLANK: 1335828 Matrix: Water
Associated Lab Samples: 60163656001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	03/03/14 07:50	

LABORATORY CONTROL SAMPLE: 1335829

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	47.2	94	90-110	

MATRIX SPIKE SAMPLE: 1335830

Parameter	Units	60163023001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	349	150	528	120	90-110	M1

MATRIX SPIKE SAMPLE: 1335831

Parameter	Units	60163372001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	167	100	245	77	90-110	M1

SAMPLE DUPLICATE: 1335832

Parameter	Units	60163601001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	143	143	0	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-228R5

Pace Project No.: 60163656

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 Surrogate recovery outside laboratory control limits. No further action was taken since all spike recoveries were within QC limits.
- 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.
- 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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-228R5

Pace Project No.: 60163656

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60163656001	316-228R5	EPA 200.7	MPRP/26270	EPA 200.7	ICP/20058
60163656001	316-228R5	EPA 200.7	MPRP/26265	EPA 200.7	ICP/20054
60163656001	316-228R5	EPA 245.1	MERP/8189	EPA 245.1	MERC/8145
60163656001	316-228R5	EPA 245.1	MERP/8178	EPA 245.1	MERC/8133
60163656001	316-228R5	EPA 625	OEXT/42886	EPA 625	MSSV/13662
60163656001	316-228R5	EPA 624 Low	MSV/59707		
60163656002	TRIP BLANK	EPA 624 Low	MSV/59707		
60163656001	316-228R5	EPA 1664A	WET/46474		
60163656001	316-228R5	EPA 1664A	WET/46476		
60163656001	316-228R5	SM 2540D	WET/46433		
60163656001	316-228R5	SM 4500-H+B	WET/46361		
60163656001	316-228R5	SM 5210B	WET/46353	SM 5210B	WET/46458
60163656001	316-228R5	EPA 350.1	WETA/28368		
60163656001	316-228R5	EPA 410.4	WETA/28367		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60163656

 60163656

Client Name: Barr

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

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

Cooler Temperature: 4.4

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: [Signature]

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>600 pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>H₂O₂ initial pH ~6.0; added 2.5 mL H₂O₂; final pH ~3.5</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>H₂SO₄ initial pH ~6.0; added 2 mL H₂SO₄; final pH ~4.0</u>
Exceptions: VOA, coliform, TOC, <u>SS</u> , WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>[Signature]</u> Lot # of added preservative <u>12573</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>covered</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>No headspace in any vials</u>
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MO</u>

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 2/27/14

March 06, 2014

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

RE: Project: BRIDGETON LF 319-MSD
Pace Project No.: 60163762

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 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,



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 319-MSD

Pace Project No.: 60163762

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 319-MSD

Pace Project No.: 60163762

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60163762001	319-MSD	Water	02/25/14 17:00	02/27/14 00:50
60163762002	TRIP BLANK	Water	02/25/14 17:00	02/27/14 00:50

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 319-MSD

Pace Project No.: 60163762

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60163762001	319-MSD	EPA 200.7	TJT	15
		EPA 200.7	TJT	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC1	1
		SM 4500-H+B	DJR	1
		SM 5210B	AJM	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60163762002	TRIP BLANK	EPA 624 Low

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ANALYTICAL RESULTS

Project: BRIDGETON LF 319-MSD

Pace Project No.: 60163762

Sample: 319-MSD		Lab ID: 60163762001	Collected: 02/25/14 17:00	Received: 02/27/14 00:50	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	3800 ug/L		75.0	1	02/28/14 16:30	03/03/14 14:08	7429-90-5	
Antimony	ND ug/L		10.0	1	02/28/14 16:30	03/03/14 14:08	7440-36-0	
Arsenic	66.5 ug/L		10.0	1	02/28/14 16:30	03/03/14 14:08	7440-38-2	
Beryllium	ND ug/L		1.0	1	02/28/14 16:30	03/03/14 14:08	7440-41-7	
Cadmium	ND ug/L		5.0	1	02/28/14 16:30	03/03/14 14:08	7440-43-9	
Chromium	28.6 ug/L		5.0	1	02/28/14 16:30	03/03/14 14:08	7440-47-3	
Cobalt	11.0 ug/L		5.0	1	02/28/14 16:30	03/03/14 14:08	7440-48-4	
Copper	129 ug/L		10.0	1	02/28/14 16:30	03/03/14 14:08	7440-50-8	
Iron	90400 ug/L		50.0	1	02/28/14 16:30	03/03/14 14:08	7439-89-6	
Lead	39.9 ug/L		5.0	1	02/28/14 16:30	03/03/14 14:08	7439-92-1	
Nickel	29.6 ug/L		5.0	1	02/28/14 16:30	03/03/14 14:08	7440-02-0	
Selenium	ND ug/L		15.0	1	02/28/14 16:30	03/03/14 14:08	7782-49-2	
Silver	ND ug/L		7.0	1	02/28/14 16:30	03/03/14 14:08	7440-22-4	
Thallium	ND ug/L		20.0	1	02/28/14 16:30	03/03/14 14:08	7440-28-0	
Zinc	1040 ug/L		50.0	1	02/28/14 16:30	03/03/14 14:08	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	119 ug/L		75.0	1	03/04/14 13:45	03/05/14 12:51	7429-90-5	
Antimony, Dissolved	ND ug/L		10.0	1	03/04/14 13:45	03/05/14 12:51	7440-36-0	
Arsenic, Dissolved	54.4 ug/L		10.0	1	03/04/14 13:45	03/05/14 12:51	7440-38-2	
Beryllium, Dissolved	ND ug/L		1.0	1	03/04/14 13:45	03/05/14 12:51	7440-41-7	
Cadmium, Dissolved	ND ug/L		5.0	1	03/04/14 13:45	03/05/14 12:51	7440-43-9	
Chromium, Dissolved	18.4 ug/L		5.0	1	03/04/14 13:45	03/05/14 12:51	7440-47-3	
Cobalt, Dissolved	8.1 ug/L		5.0	1	03/04/14 13:45	03/05/14 12:51	7440-48-4	
Copper, Dissolved	167 ug/L		10.0	1	03/04/14 13:45	03/05/14 12:51	7440-50-8	D9
Iron, Dissolved	51200 ug/L		50.0	1	03/04/14 13:45	03/05/14 12:51	7439-89-6	
Lead, Dissolved	25.4 ug/L		5.0	1	03/04/14 13:45	03/05/14 12:51	7439-92-1	
Nickel, Dissolved	21.4 ug/L		5.0	1	03/04/14 13:45	03/05/14 12:51	7440-02-0	
Selenium, Dissolved	ND ug/L		15.0	1	03/04/14 13:45	03/05/14 12:51	7782-49-2	
Silver, Dissolved	ND ug/L		7.0	1	03/04/14 13:45	03/05/14 12:51	7440-22-4	
Thallium, Dissolved	ND ug/L		20.0	1	03/04/14 13:45	03/05/14 12:51	7440-28-0	
Zinc, Dissolved	957 ug/L		50.0	1	03/04/14 13:45	03/05/14 12:51	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND ug/L		6.0	1	03/03/14 10:00	03/04/14 10:13	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		0.20	1	03/04/14 10:00	03/04/14 12:24	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	03/03/14 00:00	03/04/14 11:27	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	03/03/14 00:00	03/04/14 11:27	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	03/03/14 00:00	03/04/14 11:27	77-47-4	
Hexachloroethane	ND ug/L		1000	2	03/03/14 00:00	03/04/14 11:27	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	03/03/14 00:00	03/04/14 11:27	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	ND ug/L		4000	2	03/03/14 00:00	03/04/14 11:27		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 319-MSD

Pace Project No.: 60163762

Sample: 319-MSD		Lab ID: 60163762001	Collected: 02/25/14 17:00	Received: 02/27/14 00:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	ND ug/L		1000	2	03/03/14 00:00	03/04/14 11:27	91-20-3	
Nitrobenzene	ND ug/L		1000	2	03/03/14 00:00	03/04/14 11:27	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	03/03/14 00:00	03/04/14 11:27	87-86-5	
Phenol	1450 ug/L		1000	2	03/03/14 00:00	03/04/14 11:27	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	03/03/14 00:00	03/04/14 11:27	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	03/03/14 00:00	03/04/14 11:27	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	84 %		33-120	2	03/03/14 00:00	03/04/14 11:27	4165-60-0	
2-Fluorobiphenyl (S)	72 %		39-120	2	03/03/14 00:00	03/04/14 11:27	321-60-8	
Terphenyl-d14 (S)	72 %		45-120	2	03/03/14 00:00	03/04/14 11:27	1718-51-0	
Phenol-d6 (S)	31 %		11-120	2	03/03/14 00:00	03/04/14 11:27	13127-88-3	
2-Fluorophenol (S)	41 %		17-120	2	03/03/14 00:00	03/04/14 11:27	367-12-4	
2,4,6-Tribromophenol (S)	75 %		39-120	2	03/03/14 00:00	03/04/14 11:27	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	10700 ug/L		500	50		03/03/14 15:08	67-64-1	N2
Benzene	ND ug/L		50.0	50		03/03/14 15:08	71-43-2	
Bromodichloromethane	ND ug/L		50.0	50		03/03/14 15:08	75-27-4	
Bromoform	ND ug/L		50.0	50		03/03/14 15:08	75-25-2	
Bromomethane	ND ug/L		250	50		03/03/14 15:08	74-83-9	
2-Butanone (MEK)	5260 ug/L		500	50		03/03/14 15:08	78-93-3	N2
Carbon tetrachloride	ND ug/L		50.0	50		03/03/14 15:08	56-23-5	
Chloroethane	ND ug/L		50.0	50		03/03/14 15:08	75-00-3	
Chloroform	ND ug/L		50.0	50		03/03/14 15:08	67-66-3	
1,4-Dichlorobenzene	164 ug/L		50.0	50		03/03/14 15:08	106-46-7	
1,2-Dichloroethane	ND ug/L		50.0	50		03/03/14 15:08	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		50.0	50		03/03/14 15:08	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		50.0	50		03/03/14 15:08	156-60-5	
Ethylbenzene	ND ug/L		50.0	50		03/03/14 15:08	100-41-4	
Methylene chloride	ND ug/L		50.0	50		03/03/14 15:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		500	50		03/03/14 15:08	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		50.0	50		03/03/14 15:08	79-34-5	N2
Tetrachloroethene	ND ug/L		50.0	50		03/03/14 15:08	127-18-4	
Toluene	ND ug/L		50.0	50		03/03/14 15:08	108-88-3	
1,1,1-Trichloroethane	ND ug/L		50.0	50		03/03/14 15:08	71-55-6	
1,1,2-Trichloroethane	ND ug/L		50.0	50		03/03/14 15:08	79-00-5	
Trichloroethene	ND ug/L		50.0	50		03/03/14 15:08	79-01-6	
Vinyl chloride	ND ug/L		50.0	50		03/03/14 15:08	75-01-4	
Xylene (Total)	ND ug/L		150	50		03/03/14 15:08	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	50		03/03/14 15:08	460-00-4	
Toluene-d8 (S)	101 %		80-120	50		03/03/14 15:08	2037-26-5	
1,2-Dichloroethane-d4 (S)	106 %		80-120	50		03/03/14 15:08	17060-07-0	
Preservation pH	6.0		1.0	50		03/03/14 15:08		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	110 mg/L		5.0	1		03/05/14 07:01		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 319-MSD

Pace Project No.: 60163762

Sample: 319-MSD		Lab ID: 60163762001	Collected: 02/25/14 17:00	Received: 02/27/14 00:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	13.2	mg/L	5.0	1		03/05/14 07:05		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	2160	mg/L	5.0	1		03/04/14 07:47		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.9	Std. Units	0.10	1		03/03/14 06:41		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	6720	mg/L	2.0	1	02/27/14 14:05	03/04/14 11:33		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	65.8	mg/L	5.0	50		03/04/14 16:55	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	5560	mg/L	1000	100		03/06/14 13:39		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 319-MSD

Pace Project No.: 60163762

Sample: TRIP BLANK		Lab ID: 60163762002	Collected: 02/25/14 17:00	Received: 02/27/14 00:50	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		03/03/14 13:34	67-64-1	N2
Benzene	ND ug/L		1.0	1		03/03/14 13:34	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		03/03/14 13:34	75-27-4	
Bromoform	ND ug/L		1.0	1		03/03/14 13:34	75-25-2	
Bromomethane	ND ug/L		5.0	1		03/03/14 13:34	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		03/03/14 13:34	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		03/03/14 13:34	56-23-5	
Chloroethane	ND ug/L		1.0	1		03/03/14 13:34	75-00-3	
Chloroform	ND ug/L		1.0	1		03/03/14 13:34	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		03/03/14 13:34	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		03/03/14 13:34	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		03/03/14 13:34	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		03/03/14 13:34	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		03/03/14 13:34	100-41-4	
Methylene chloride	ND ug/L		1.0	1		03/03/14 13:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		03/03/14 13:34	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		03/03/14 13:34	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		03/03/14 13:34	127-18-4	
Toluene	ND ug/L		1.0	1		03/03/14 13:34	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		03/03/14 13:34	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		03/03/14 13:34	79-00-5	
Trichloroethene	ND ug/L		1.0	1		03/03/14 13:34	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		03/03/14 13:34	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		03/03/14 13:34	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	1		03/03/14 13:34	460-00-4	
Toluene-d8 (S)	99 %		80-120	1		03/03/14 13:34	2037-26-5	
1,2-Dichloroethane-d4 (S)	102 %		80-120	1		03/03/14 13:34	17060-07-0	
Preservation pH	6.0		1.0	1		03/03/14 13:34		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 319-MSD

Pace Project No.: 60163762

QC Batch:	MERP/8189	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60163762001		

METHOD BLANK: 1337876 Matrix: Water
Associated Lab Samples: 60163762001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	03/04/14 09:58	

LABORATORY CONTROL SAMPLE: 1337877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.5	110	85-115	

MATRIX SPIKE SAMPLE: 1337878

Parameter	Units	60163654001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	150	151	100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1337921 1337922

Parameter	Units	60163872001 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	151	112	99	73	70-130	30	20	R1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 319-MSD

Pace Project No.: 60163762

QC Batch:	MERP/8192	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60163762001		

METHOD BLANK: 1338296 Matrix: Water
Associated Lab Samples: 60163762001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	03/04/14 12:11	

LABORATORY CONTROL SAMPLE: 1338297

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.4	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1338298 1338299

Parameter	Units	60163872001		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Mercury, Dissolved	ug/L	ND	5	5	5.0	5.2	98	103	70-130	5	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 319-MSD
Pace Project No.: 60163762

QC Batch: MPRP/26298 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60163762001

METHOD BLANK: 1337095 Matrix: Water
Associated Lab Samples: 60163762001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	03/03/14 14:05	
Antimony	ug/L	ND	10.0	03/03/14 14:05	
Arsenic	ug/L	ND	10.0	03/03/14 14:05	
Beryllium	ug/L	ND	1.0	03/03/14 14:05	
Cadmium	ug/L	ND	5.0	03/03/14 14:05	
Chromium	ug/L	ND	5.0	03/03/14 14:05	
Cobalt	ug/L	ND	5.0	03/03/14 14:05	
Copper	ug/L	ND	10.0	03/03/14 14:05	
Iron	ug/L	ND	50.0	03/03/14 14:05	
Lead	ug/L	ND	5.0	03/03/14 14:05	
Nickel	ug/L	ND	5.0	03/03/14 14:05	
Selenium	ug/L	ND	15.0	03/03/14 14:05	
Silver	ug/L	ND	7.0	03/03/14 14:05	
Thallium	ug/L	ND	20.0	03/03/14 14:05	
Zinc	ug/L	ND	50.0	03/03/14 14:05	

LABORATORY CONTROL SAMPLE: 1337096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9880	99	85-115	
Antimony	ug/L	1000	982	98	85-115	
Arsenic	ug/L	1000	945	95	85-115	
Beryllium	ug/L	1000	1000	100	85-115	
Cadmium	ug/L	1000	984	98	85-115	
Chromium	ug/L	1000	995	100	85-115	
Cobalt	ug/L	1000	996	100	85-115	
Copper	ug/L	1000	1000	100	85-115	
Iron	ug/L	10000	9880	99	85-115	
Lead	ug/L	1000	996	100	85-115	
Nickel	ug/L	1000	1010	101	85-115	
Selenium	ug/L	1000	974	97	85-115	
Silver	ug/L	500	491	98	85-115	
Thallium	ug/L	1000	996	100	85-115	
Zinc	ug/L	1000	985	99	85-115	

MATRIX SPIKE SAMPLE: 1337097

Parameter	Units	60163765001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80900	50000	20900	-120	70-130	M1
Antimony	ug/L	52.6	5000	5330	106	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 319-MSD

Pace Project No.: 60163762

MATRIX SPIKE SAMPLE:		1337097					
Parameter	Units	60163765001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1600	5000	7030	109	70-130	
Beryllium	ug/L	ND	5000	4840	97	70-130	
Cadmium	ug/L	ND	5000	5210	104	70-130	
Chromium	ug/L	438	5000	5100	93	70-130	
Cobalt	ug/L	74.8	5000	4770	94	70-130	
Copper	ug/L	ND	5000	5240	105	70-130	
Iron	ug/L	1560000	50000	1580000	36	70-130	M1
Lead	ug/L	243	5000	4720	90	70-130	
Nickel	ug/L	203	5000	4880	94	70-130	
Selenium	ug/L	ND	5000	5870	117	70-130	
Silver	ug/L	ND	2500	2570	103	70-130	
Thallium	ug/L	ND	5000	4260	84	70-130	
Zinc	ug/L	16300	5000	12000	-85	70-130	M1

MATRIX SPIKE SAMPLE:		1337098					
Parameter	Units	60163726002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	ND	10000	10000	100	70-130	
Antimony	ug/L	ND	1000	1040	104	70-130	
Arsenic	ug/L	ND	1000	1020	102	70-130	
Beryllium	ug/L	ND	1000	1010	101	70-130	
Cadmium	ug/L	ND	1000	1020	102	70-130	
Chromium	ug/L	ND	1000	980	98	70-130	
Cobalt	ug/L	ND	1000	987	99	70-130	
Copper	ug/L	ND	1000	1010	100	70-130	
Iron	ug/L	ND	10000	10000	100	70-130	
Lead	ug/L	ND	1000	974	97	70-130	
Nickel	ug/L	ND	1000	998	100	70-130	
Selenium	ug/L	ND	1000	1020	102	70-130	
Silver	ug/L	ND	500	482	96	70-130	
Thallium	ug/L	ND	1000	974	97	70-130	
Zinc	ug/L	ND	1000	987	97	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 319-MSD

Pace Project No.: 60163762

QC Batch: MPRP/26322

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60163762001

METHOD BLANK: 1338460

Matrix: Water

Associated Lab Samples: 60163762001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	03/05/14 12:47	
Antimony, Dissolved	ug/L	ND	10.0	03/05/14 12:47	
Arsenic, Dissolved	ug/L	ND	10.0	03/05/14 12:47	
Beryllium, Dissolved	ug/L	ND	1.0	03/05/14 12:47	
Cadmium, Dissolved	ug/L	ND	5.0	03/05/14 12:47	
Chromium, Dissolved	ug/L	ND	5.0	03/05/14 12:47	
Cobalt, Dissolved	ug/L	ND	5.0	03/05/14 12:47	
Copper, Dissolved	ug/L	ND	10.0	03/05/14 12:47	
Iron, Dissolved	ug/L	ND	50.0	03/05/14 12:47	
Lead, Dissolved	ug/L	ND	5.0	03/05/14 12:47	
Nickel, Dissolved	ug/L	ND	5.0	03/05/14 12:47	
Selenium, Dissolved	ug/L	ND	15.0	03/05/14 12:47	
Silver, Dissolved	ug/L	ND	7.0	03/05/14 12:47	
Thallium, Dissolved	ug/L	ND	20.0	03/05/14 12:47	
Zinc, Dissolved	ug/L	ND	50.0	03/05/14 12:47	

LABORATORY CONTROL SAMPLE: 1338461

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	1030	103	85-115	
Arsenic, Dissolved	ug/L	1000	996	100	85-115	
Beryllium, Dissolved	ug/L	1000	1030	103	85-115	
Cadmium, Dissolved	ug/L	1000	1020	102	85-115	
Chromium, Dissolved	ug/L	1000	1020	102	85-115	
Cobalt, Dissolved	ug/L	1000	1030	103	85-115	
Copper, Dissolved	ug/L	1000	1020	102	85-115	
Iron, Dissolved	ug/L	10000	10200	102	85-115	
Lead, Dissolved	ug/L	1000	1030	103	85-115	
Nickel, Dissolved	ug/L	1000	1050	105	85-115	
Selenium, Dissolved	ug/L	1000	1030	103	85-115	
Silver, Dissolved	ug/L	500	487	97	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1338462 1338463

Parameter	Units	60163872001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum, Dissolved	ug/L	3120	50000	50000	53400	54200	101	102	70-130	1	8		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 319-MSD

Pace Project No.: 60163762

Parameter	Units	60163872001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max	RPD	Qual
		Result	Conc.	Spike	Conc.	Result	Result	% Rec	% Rec								
Antimony, Dissolved	ug/L	ND	5000	5000	5400	5500	107	109	70-130	2	7						
Arsenic, Dissolved	ug/L	1070	5000	5000	6460	6480	108	108	70-130	0	10						
Beryllium, Dissolved	ug/L	ND	5000	5000	4960	5040	99	101	70-130	2	7						
Cadmium, Dissolved	ug/L	ND	5000	5000	5240	5330	105	107	70-130	2	10						
Chromium, Dissolved	ug/L	257	5000	5000	5240	5320	100	101	70-130	2	10						
Cobalt, Dissolved	ug/L	41.3	5000	5000	4830	4900	96	97	70-130	1	6						
Copper, Dissolved	ug/L	ND	5000	5000	5460	5610	109	112	70-130	3	11						
Iron, Dissolved	ug/L	788000	50000	50000	776000	742000	-26	-94	70-130	4	10	M1					
Lead, Dissolved	ug/L	84.7	5000	5000	4730	4780	93	94	70-130	1	10						
Nickel, Dissolved	ug/L	108	5000	5000	4930	4980	96	97	70-130	1	10						
Selenium, Dissolved	ug/L	ND	5000	5000	6040	6200	120	124	70-130	3	10						
Silver, Dissolved	ug/L	ND	2500	2500	2650	2690	106	108	70-130	2	10						
Thallium, Dissolved	ug/L	ND	5000	5000	4240	4290	85	86	70-130	1	6						
Zinc, Dissolved	ug/L	7490	5000	5000	11600	11300	83	77	70-130	3	11						

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 319-MSD

Pace Project No.: 60163762

QC Batch: MSV/59707 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60163762001, 60163762002

METHOD BLANK: 1336803 Matrix: Water

Associated Lab Samples: 60163762001, 60163762002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	03/03/14 12:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/03/14 12:31	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	03/03/14 12:31	
1,2-Dichloroethane	ug/L	ND	1.0	03/03/14 12:31	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/03/14 12:31	
2-Butanone (MEK)	ug/L	ND	10.0	03/03/14 12:31	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	03/03/14 12:31	N2
Acetone	ug/L	ND	10.0	03/03/14 12:31	N2
Benzene	ug/L	ND	1.0	03/03/14 12:31	
Bromodichloromethane	ug/L	ND	1.0	03/03/14 12:31	
Bromoform	ug/L	ND	1.0	03/03/14 12:31	
Bromomethane	ug/L	ND	5.0	03/03/14 12:31	
Carbon tetrachloride	ug/L	ND	1.0	03/03/14 12:31	
Chloroethane	ug/L	ND	1.0	03/03/14 12:31	
Chloroform	ug/L	ND	1.0	03/03/14 12:31	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/03/14 12:31	N2
Ethylbenzene	ug/L	ND	1.0	03/03/14 12:31	
Methylene chloride	ug/L	ND	1.0	03/03/14 12:31	
Tetrachloroethene	ug/L	ND	1.0	03/03/14 12:31	
Toluene	ug/L	ND	1.0	03/03/14 12:31	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/03/14 12:31	
Trichloroethene	ug/L	ND	1.0	03/03/14 12:31	
Vinyl chloride	ug/L	ND	1.0	03/03/14 12:31	
Xylene (Total)	ug/L	ND	3.0	03/03/14 12:31	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	03/03/14 12:31	
4-Bromofluorobenzene (S)	%	102	80-120	03/03/14 12:31	
Toluene-d8 (S)	%	98	80-120	03/03/14 12:31	

LABORATORY CONTROL SAMPLE: 1336804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.9	95	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	21.5	107	67-127	N2
1,1,2-Trichloroethane	ug/L	20	20.2	101	67-124	
1,2-Dichloroethane	ug/L	20	20.4	102	70-126	
1,4-Dichlorobenzene	ug/L	20	20.1	101	74-120	
2-Butanone (MEK)	ug/L	100	108	108	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	100	100	59-131	N2
Acetone	ug/L	100	126	126	38-134	N2
Benzene	ug/L	20	19.5	98	75-120	
Bromodichloromethane	ug/L	20	20.0	100	68-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 319-MSD

Pace Project No.: 60163762

LABORATORY CONTROL SAMPLE: 1336804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.4	102	65-127	
Bromomethane	ug/L	20	18.1	90	13-157	
Carbon tetrachloride	ug/L	20	18.9	94	70-131	
Chloroethane	ug/L	20	15.3	77	47-133	
Chloroform	ug/L	20	17.4	87	65-127	
cis-1,2-Dichloroethene	ug/L	20	17.8	89	68-127	N2
Ethylbenzene	ug/L	20	19.7	99	74-122	
Methylene chloride	ug/L	20	18.3	92	64-129	
Tetrachloroethene	ug/L	20	19.1	96	73-125	
Toluene	ug/L	20	19.5	97	69-126	
trans-1,2-Dichloroethene	ug/L	20	17.7	89	66-129	
Trichloroethene	ug/L	20	20.2	101	71-123	
Vinyl chloride	ug/L	20	21.7	109	43-129	
Xylene (Total)	ug/L	60	60.4	101	75-121	N2
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1336805

Parameter	Units	60163872001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3750	94	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4160	104	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4060	101	52-143	
1,2-Dichloroethane	ug/L	ND	4000	3920	98	49-144	
1,4-Dichlorobenzene	ug/L	852	4000	4430	90	33-140	
2-Butanone (MEK)	ug/L	73900	20000	99000	126	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	2510	20000	22500	100	40-160	N2
Acetone	ug/L	166000	20000	183000	87	10-160	N2
Benzene	ug/L	ND	4000	3670	92	37-151	
Bromodichloromethane	ug/L	ND	4000	3890	97	35-142	
Bromoform	ug/L	ND	4000	4050	101	45-142	
Bromomethane	ug/L	ND	4000	3540	88	10-158	
Carbon tetrachloride	ug/L	ND	4000	3930	98	70-140	
Chloroethane	ug/L	ND	4000	2370	59	19-152	
Chloroform	ug/L	ND	4000	3460	86	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3490	87	34-147	N2
Ethylbenzene	ug/L	ND	4000	3820	94	40-142	
Methylene chloride	ug/L	ND	4000	3700	92	31-144	
Tetrachloroethene	ug/L	ND	4000	3640	91	64-148	
Toluene	ug/L	ND	4000	3800	95	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	3480	87	54-151	
Trichloroethene	ug/L	ND	4000	3950	99	71-149	
Vinyl chloride	ug/L	ND	4000	4380	109	22-146	
Xylene (Total)	ug/L	ND	12000	11300	94	37-144	N2
1,2-Dichloroethane-d4 (S)	%				104	80-120	
4-Bromofluorobenzene (S)	%				96	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 319-MSD

Pace Project No.: 60163762

MATRIX SPIKE SAMPLE:		1336805					
Parameter	Units	60163872001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S) Preservation pH	%	6.0	6.0	6.0	101	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 319-MSD

Pace Project No.: 60163762

QC Batch:	OEXT/42936	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60163762001		

METHOD BLANK: 1337803 Matrix: Water

Associated Lab Samples: 60163762001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	03/04/14 09:21	
2,4,6-Trichlorophenol	ug/L	ND	5.0	03/04/14 09:21	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	03/04/14 09:21	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	03/04/14 09:21	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	03/04/14 09:21	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	03/04/14 09:21	
Hexachlorocyclopentadiene	ug/L	ND	5.0	03/04/14 09:21	
Hexachloroethane	ug/L	ND	5.0	03/04/14 09:21	
Naphthalene	ug/L	ND	5.0	03/04/14 09:21	
Nitrobenzene	ug/L	ND	5.0	03/04/14 09:21	
Pentachlorophenol	ug/L	ND	5.0	03/04/14 09:21	
Phenol	ug/L	ND	5.0	03/04/14 09:21	
2,4,6-Tribromophenol (S)	%	69	39-120	03/04/14 09:21	
2-Fluorobiphenyl (S)	%	72	39-120	03/04/14 09:21	
2-Fluorophenol (S)	%	40	17-120	03/04/14 09:21	
Nitrobenzene-d5 (S)	%	73	33-120	03/04/14 09:21	
Phenol-d6 (S)	%	27	11-120	03/04/14 09:21	
Terphenyl-d14 (S)	%	69	45-120	03/04/14 09:21	

LABORATORY CONTROL SAMPLE: 1337804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	35.1	70	46-120	
2,4,6-Trichlorophenol	ug/L	50	36.9	74	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	23.1	46		N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	20.1	40		N2
4,6-Dinitro-2-methylphenol	ug/L	50	37.7	75	40-133	
Hexachloro-1,3-butadiene	ug/L	50	34.1	68	44-116	
Hexachlorocyclopentadiene	ug/L	100	70.7	71	24-120	
Hexachloroethane	ug/L	50	33.4	67	43-113	
Naphthalene	ug/L	50	34.3	69	48-120	
Nitrobenzene	ug/L	50	38.3	77	48-120	
Pentachlorophenol	ug/L	50	37.3	75	47-120	
Phenol	ug/L	50	10.7	21	16-112	
2,4,6-Tribromophenol (S)	%			71	39-120	
2-Fluorobiphenyl (S)	%			72	39-120	
2-Fluorophenol (S)	%			28	17-120	
Nitrobenzene-d5 (S)	%			75	33-120	
Phenol-d6 (S)	%			17	11-120	
Terphenyl-d14 (S)	%			71	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 319-MSD

Pace Project No.: 60163762

MATRIX SPIKE SAMPLE:		1337805					
Parameter	Units	60163872001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3440	69	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	3840	77	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	3770	75		N2
3&4-Methylphenol(m&p Cresol)	ug/L	9160	5000	13600	88		N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	3590J	72	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3550	71	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	7280	73	11-120	
Hexachloroethane	ug/L	ND	5000	3770	75	40-113	
Naphthalene	ug/L	2470	5000	5830	67	45-120	
Nitrobenzene	ug/L	ND	5000	9260	185	38-120	M1
Pentachlorophenol	ug/L	ND	5000	3870	77	43-135	
Phenol	ug/L	13500	5000	17400	77	13-112	
2,4,6-Tribromophenol (S)	%				75	39-120	
2-Fluorobiphenyl (S)	%				74	39-120	
2-Fluorophenol (S)	%				39	17-120	
Nitrobenzene-d5 (S)	%				193	33-120	SO
Phenol-d6 (S)	%				28	11-120	
Terphenyl-d14 (S)	%				67	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 319-MSD

Pace Project No.: 60163762

QC Batch:	WET/46475	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60163762001		

METHOD BLANK: 1338525 Matrix: Water

Associated Lab Samples: 60163762001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	03/05/14 06:58	

LABORATORY CONTROL SAMPLE: 1338526

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.4	98	78-114	

MATRIX SPIKE SAMPLE: 1338527

Parameter	Units	60163602002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	3.8J	47.1	43.4	84	78-114	

SAMPLE DUPLICATE: 1338528

Parameter	Units	60163762001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	110	124	11	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 319-MSD

Pace Project No.: 60163762

QC Batch:	WET/46476	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60163762001		

METHOD BLANK: 1338531 Matrix: Water
Associated Lab Samples: 60163762001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	03/05/14 07:03	

LABORATORY CONTROL SAMPLE: 1338532

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	18.4	92	64-132	

MATRIX SPIKE SAMPLE: 1338533

Parameter	Units	60163602002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	23.5	19.5	79	64-132	

SAMPLE DUPLICATE: 1338534

Parameter	Units	60163762001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	13.2	14.4	9	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 319-MSD

Pace Project No.: 60163762

QC Batch: WET/46446

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60163762001

METHOD BLANK: 1338179

Matrix: Water

Associated Lab Samples: 60163762001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	03/04/14 07:43	

SAMPLE DUPLICATE: 1338180

Parameter	Units	60163690002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	8.0		10	

SAMPLE DUPLICATE: 1338181

Parameter	Units	60163753002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	6.0	5.0	18	10	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 319-MSD

Pace Project No.: 60163762

QC Batch: WET/46416 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60163762001

SAMPLE DUPLICATE: 1337764

Parameter	Units	60163726005 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.6	8.7	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 319-MSD

Pace Project No.: 60163762

QC Batch: WET/46380

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60163762001

METHOD BLANK: 1336153

Matrix: Water

Associated Lab Samples: 60163762001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	03/04/14 11:14	

LABORATORY CONTROL SAMPLE: 1336154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	173	87	85-115	

SAMPLE DUPLICATE: 1336155

Parameter	Units	60163751001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	375	415	10	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 319-MSD

Pace Project No.: 60163762

QC Batch:	WETA/28429	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60163762001		

METHOD BLANK: 1338111 Matrix: Water
Associated Lab Samples: 60163762001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	03/04/14 16:43	

LABORATORY CONTROL SAMPLE: 1338112

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	100	90-110	

MATRIX SPIKE SAMPLE: 1338113

Parameter	Units	60163742006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.11	2	1.7	79	90-110	M1

MATRIX SPIKE SAMPLE: 1338114

Parameter	Units	60163745002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	11.2	10	18.4	72	90-110	M1

SAMPLE DUPLICATE: 1338115

Parameter	Units	60163791001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 319-MSD

Pace Project No.: 60163762

QC Batch:	WETA/28448	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60163762001		

METHOD BLANK: 1338650 Matrix: Water
Associated Lab Samples: 60163762001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	03/06/14 13:31	

LABORATORY CONTROL SAMPLE: 1338651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	50.3	101	90-110	

MATRIX SPIKE SAMPLE: 1338652

Parameter	Units	60163585001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	6370	5000	11300	99	90-110	

MATRIX SPIKE SAMPLE: 1338654

Parameter	Units	60163765001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	72100	25000	104000	128	90-110	M1

SAMPLE DUPLICATE: 1339153

Parameter	Units	60163872001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	62200	63200	2	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 319-MSD

Pace Project No.: 60163762

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.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 319-MSD

Pace Project No.: 60163762

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60163762001	319-MSD	EPA 200.7	MPRP/26298	EPA 200.7	ICP/20075
60163762001	319-MSD	EPA 200.7	MPRP/26322	EPA 200.7	ICP/20087
60163762001	319-MSD	EPA 245.1	MERP/8189	EPA 245.1	MERC/8145
60163762001	319-MSD	EPA 245.1	MERP/8192	EPA 245.1	MERC/8146
60163762001	319-MSD	EPA 625	OEXT/42936	EPA 625	MSSV/13678
60163762001	319-MSD	EPA 624 Low	MSV/59707		
60163762002	TRIP BLANK	EPA 624 Low	MSV/59707		
60163762001	319-MSD	EPA 1664A	WET/46475		
60163762001	319-MSD	EPA 1664A	WET/46476		
60163762001	319-MSD	SM 2540D	WET/46446		
60163762001	319-MSD	SM 4500-H+B	WET/46416		
60163762001	319-MSD	SM 5210B	WET/46380	SM 5210B	WET/46462
60163762001	319-MSD	EPA 350.1	WETA/28429		
60163762001	319-MSD	EPA 410.4	WETA/28448		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60163762
60163762

Client Name: Barr

Courier: Fed Ex UPS USPS Client Commercial Pace Other Arac

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.

Cooler Temperature: 2.6

Temperature should be above freezing to 6°C

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: prc/2/2/14

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>Bob P/H</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Exceptions: <u>VOA</u> coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased): <u>11113-3</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MO</u>

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 2/2/14

March 06, 2014

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

RE: Project: BRIDGETON LF 316-229
Pace Project No.: 60163765

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 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,



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 316-229

Pace Project No.: 60163765

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-229

Pace Project No.: 60163765

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60163765001	316-229	Water	02/26/14 03:25	02/27/14 00:50
60163765002	TRIP BLANK	Water	02/26/14 03:25	02/27/14 00:50

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-229

Pace Project No.: 60163765

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60163765001	316-229	EPA 200.7	TJT	15
		EPA 200.7	TJT	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC1	1
		SM 4500-H+B	DJR	1
		SM 5210B	AJM	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
60163765002	TRIP BLANK	EPA 624 Low	EAK	28

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-229

Pace Project No.: 60163765

Sample: 316-229 **Lab ID: 60163765001** Collected: 02/26/14 03:25 Received: 02/27/14 00:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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200.7 Metals, Total

Analytical Method: EPA 200.7 Preparation Method: EPA 200.7

Aluminum	80900	ug/L	1120	3	02/28/14 16:30	03/04/14 10:01	7429-90-5	M1
Antimony	52.6	ug/L	50.0	1	02/28/14 16:30	03/03/14 14:14	7440-36-0	
Arsenic	1600	ug/L	50.0	1	02/28/14 16:30	03/03/14 14:14	7440-38-2	
Beryllium	ND	ug/L	10.0	2	02/28/14 16:30	03/03/14 14:17	7440-41-7	
Cadmium	ND	ug/L	25.0	1	02/28/14 16:30	03/03/14 14:14	7440-43-9	
Chromium	438	ug/L	25.0	1	02/28/14 16:30	03/03/14 14:14	7440-47-3	
Cobalt	74.8	ug/L	25.0	1	02/28/14 16:30	03/03/14 14:14	7440-48-4	
Copper	ND	ug/L	50.0	1	02/28/14 16:30	03/03/14 14:14	7440-50-8	
Iron	1560000	ug/L	250	1	02/28/14 16:30	03/03/14 14:14	7439-89-6	M1
Lead	243	ug/L	25.0	1	02/28/14 16:30	03/03/14 14:14	7439-92-1	
Nickel	203	ug/L	25.0	1	02/28/14 16:30	03/03/14 14:14	7440-02-0	
Selenium	ND	ug/L	75.0	1	02/28/14 16:30	03/03/14 14:14	7782-49-2	
Silver	ND	ug/L	35.0	1	02/28/14 16:30	03/03/14 14:14	7440-22-4	
Thallium	ND	ug/L	100	1	02/28/14 16:30	03/03/14 14:14	7440-28-0	
Zinc	16300	ug/L	750	3	02/28/14 16:30	03/04/14 10:01	7440-66-6	M1

200.7 Metals, Dissolved (LF)

Analytical Method: EPA 200.7 Preparation Method: EPA 200.7

Aluminum, Dissolved	3760	ug/L	1120	3	03/04/14 13:45	03/05/14 15:03	7429-90-5	
Antimony, Dissolved	68.4	ug/L	50.0	1	03/04/14 13:45	03/05/14 12:56	7440-36-0	D9
Arsenic, Dissolved	1280	ug/L	50.0	1	03/04/14 13:45	03/05/14 12:56	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	03/04/14 13:45	03/05/14 12:56	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	03/04/14 13:45	03/05/14 12:56	7440-43-9	
Chromium, Dissolved	291	ug/L	25.0	1	03/04/14 13:45	03/05/14 12:56	7440-47-3	
Cobalt, Dissolved	41.9	ug/L	25.0	1	03/04/14 13:45	03/05/14 12:56	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	03/04/14 13:45	03/05/14 12:56	7440-50-8	
Iron, Dissolved	885000	ug/L	250	1	03/04/14 13:45	03/05/14 12:56	7439-89-6	
Lead, Dissolved	115	ug/L	25.0	1	03/04/14 13:45	03/05/14 12:56	7439-92-1	
Nickel, Dissolved	116	ug/L	25.0	1	03/04/14 13:45	03/05/14 12:56	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	03/04/14 13:45	03/05/14 12:56	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	03/04/14 13:45	03/05/14 12:56	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	03/04/14 13:45	03/05/14 12:56	7440-28-0	
Zinc, Dissolved	8220	ug/L	750	3	03/04/14 13:45	03/05/14 15:03	7440-66-6	

245.1 Mercury

Analytical Method: EPA 245.1 Preparation Method: EPA 245.1

Mercury	ND	ug/L	6.0	1	03/03/14 10:00	03/04/14 10:16	7439-97-6	
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245.1 Mercury, Dissolved (LF)

Analytical Method: EPA 245.1 Preparation Method: EPA 245.1

Mercury, Dissolved	ND	ug/L	0.20	1	03/04/14 10:00	03/04/14 12:26	7439-97-6	
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625 MSSV

Analytical Method: EPA 625 Preparation Method: EPA 625

4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	03/03/14 00:00	03/04/14 11:48	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	03/03/14 00:00	03/04/14 11:48	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	03/03/14 00:00	03/04/14 11:48	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	03/03/14 00:00	03/04/14 11:48	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	2	03/03/14 00:00	03/04/14 11:48	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	13800	ug/L	4000	2	03/03/14 00:00	03/04/14 11:48		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-229

Pace Project No.: 60163765

Sample: 316-229 **Lab ID: 60163765001** Collected: 02/26/14 03:25 Received: 02/27/14 00:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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625 MSSV

Analytical Method: EPA 625 Preparation Method: EPA 625

Naphthalene	8770 ug/L		1000	2	03/03/14 00:00	03/04/14 11:48	91-20-3	
Nitrobenzene	ND ug/L		1000	2	03/03/14 00:00	03/04/14 11:48	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	03/03/14 00:00	03/04/14 11:48	87-86-5	
Phenol	19000 ug/L		1000	2	03/03/14 00:00	03/04/14 11:48	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	03/03/14 00:00	03/04/14 11:48	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	03/03/14 00:00	03/04/14 11:48	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	211 %		33-120	2	03/03/14 00:00	03/04/14 11:48	4165-60-0	S0
2-Fluorobiphenyl (S)	75 %		39-120	2	03/03/14 00:00	03/04/14 11:48	321-60-8	
Terphenyl-d14 (S)	70 %		45-120	2	03/03/14 00:00	03/04/14 11:48	1718-51-0	
Phenol-d6 (S)	52 %		11-120	2	03/03/14 00:00	03/04/14 11:48	13127-88-3	
2-Fluorophenol (S)	43 %		17-120	2	03/03/14 00:00	03/04/14 11:48	367-12-4	
2,4,6-Tribromophenol (S)	71 %		39-120	2	03/03/14 00:00	03/04/14 11:48	118-79-6	

624 Volatile Organics

Analytical Method: EPA 624 Low

Acetone	177000 ug/L		2000	200		03/03/14 15:24	67-64-1	N2
Benzene	ND ug/L		200	200		03/03/14 15:24	71-43-2	
Bromodichloromethane	ND ug/L		200	200		03/03/14 15:24	75-27-4	
Bromoform	ND ug/L		200	200		03/03/14 15:24	75-25-2	
Bromomethane	ND ug/L		1000	200		03/03/14 15:24	74-83-9	
2-Butanone (MEK)	76100 ug/L		2000	200		03/03/14 15:24	78-93-3	N2
Carbon tetrachloride	ND ug/L		200	200		03/03/14 15:24	56-23-5	
Chloroethane	ND ug/L		200	200		03/03/14 15:24	75-00-3	
Chloroform	ND ug/L		200	200		03/03/14 15:24	67-66-3	
1,4-Dichlorobenzene	1330 ug/L		200	200		03/03/14 15:24	106-46-7	
1,2-Dichloroethane	ND ug/L		200	200		03/03/14 15:24	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200	200		03/03/14 15:24	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		200	200		03/03/14 15:24	156-60-5	
Ethylbenzene	ND ug/L		200	200		03/03/14 15:24	100-41-4	
Methylene chloride	ND ug/L		200	200		03/03/14 15:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	2240 ug/L		2000	200		03/03/14 15:24	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		03/03/14 15:24	79-34-5	N2
Tetrachloroethene	ND ug/L		200	200		03/03/14 15:24	127-18-4	
Toluene	ND ug/L		200	200		03/03/14 15:24	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		03/03/14 15:24	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		03/03/14 15:24	79-00-5	
Trichloroethene	ND ug/L		200	200		03/03/14 15:24	79-01-6	
Vinyl chloride	ND ug/L		200	200		03/03/14 15:24	75-01-4	
Xylene (Total)	ND ug/L		600	200		03/03/14 15:24	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	98 %		80-120	200		03/03/14 15:24	460-00-4	
Toluene-d8 (S)	100 %		80-120	200		03/03/14 15:24	2037-26-5	
1,2-Dichloroethane-d4 (S)	105 %		80-120	200		03/03/14 15:24	17060-07-0	
Preservation pH	6.0			1.0		03/03/14 15:24		

HEM, Oil and Grease

Analytical Method: EPA 1664A

Oil and Grease	2810 mg/L		5.0	1		03/05/14 07:01		
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-229

Pace Project No.: 60163765

Sample: 316-229		Lab ID: 60163765001	Collected: 02/26/14 03:25	Received: 02/27/14 00:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	30.5	mg/L	5.0	1		03/05/14 07:05		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	7200	mg/L	5.0	1		03/04/14 07:53		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.3	Std. Units	0.10	1		03/03/14 06:41		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	42000	mg/L	2.0	1	02/27/14 14:12	03/04/14 11:37		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	680	mg/L	20.0	200		03/04/14 16:57	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	72100	mg/L	5000	500		03/06/14 13:41		M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-229

Pace Project No.: 60163765

Sample: TRIP BLANK		Lab ID: 60163765002	Collected: 02/26/14 03:25	Received: 02/27/14 00:50	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		03/03/14 13:49	67-64-1	N2
Benzene	ND ug/L		1.0	1		03/03/14 13:49	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		03/03/14 13:49	75-27-4	
Bromoform	ND ug/L		1.0	1		03/03/14 13:49	75-25-2	
Bromomethane	ND ug/L		5.0	1		03/03/14 13:49	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		03/03/14 13:49	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		03/03/14 13:49	56-23-5	
Chloroethane	ND ug/L		1.0	1		03/03/14 13:49	75-00-3	
Chloroform	ND ug/L		1.0	1		03/03/14 13:49	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		03/03/14 13:49	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		03/03/14 13:49	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		03/03/14 13:49	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		03/03/14 13:49	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		03/03/14 13:49	100-41-4	
Methylene chloride	ND ug/L		1.0	1		03/03/14 13:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		03/03/14 13:49	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		03/03/14 13:49	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		03/03/14 13:49	127-18-4	
Toluene	ND ug/L		1.0	1		03/03/14 13:49	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		03/03/14 13:49	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		03/03/14 13:49	79-00-5	
Trichloroethene	ND ug/L		1.0	1		03/03/14 13:49	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		03/03/14 13:49	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		03/03/14 13:49	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	99 %		80-120	1		03/03/14 13:49	460-00-4	
Toluene-d8 (S)	101 %		80-120	1		03/03/14 13:49	2037-26-5	
1,2-Dichloroethane-d4 (S)	111 %		80-120	1		03/03/14 13:49	17060-07-0	
Preservation pH	6.0		1.0	1		03/03/14 13:49		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-229

Pace Project No.: 60163765

QC Batch:	MERP/8189	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60163765001		

METHOD BLANK: 1337876 Matrix: Water

Associated Lab Samples: 60163765001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	03/04/14 09:58	

LABORATORY CONTROL SAMPLE: 1337877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.5	110	85-115	

MATRIX SPIKE SAMPLE: 1337878

Parameter	Units	60163654001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	150	151	100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1337921 1337922

Parameter	Units	60163872001 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	151	112	99	73	70-130	30	20	R1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-229

Pace Project No.: 60163765

QC Batch: MERP/8192

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60163765001

METHOD BLANK: 1338296

Matrix: Water

Associated Lab Samples: 60163765001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	03/04/14 12:11	

LABORATORY CONTROL SAMPLE: 1338297

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.4	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1338298 1338299

Parameter	Units	60163872001		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	ND	Spike Conc.	Conc.	Result	Result	% Rec	% Rec					
Mercury, Dissolved	ug/L	ND	5	5	5.0	5.2	98	103	70-130	5	20			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-229
Pace Project No.: 60163765

QC Batch: MPRP/26298 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60163765001

METHOD BLANK: 1337095 Matrix: Water
Associated Lab Samples: 60163765001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	03/03/14 14:05	
Antimony	ug/L	ND	10.0	03/03/14 14:05	
Arsenic	ug/L	ND	10.0	03/03/14 14:05	
Beryllium	ug/L	ND	1.0	03/03/14 14:05	
Cadmium	ug/L	ND	5.0	03/03/14 14:05	
Chromium	ug/L	ND	5.0	03/03/14 14:05	
Cobalt	ug/L	ND	5.0	03/03/14 14:05	
Copper	ug/L	ND	10.0	03/03/14 14:05	
Iron	ug/L	ND	50.0	03/03/14 14:05	
Lead	ug/L	ND	5.0	03/03/14 14:05	
Nickel	ug/L	ND	5.0	03/03/14 14:05	
Selenium	ug/L	ND	15.0	03/03/14 14:05	
Silver	ug/L	ND	7.0	03/03/14 14:05	
Thallium	ug/L	ND	20.0	03/03/14 14:05	
Zinc	ug/L	ND	50.0	03/03/14 14:05	

LABORATORY CONTROL SAMPLE: 1337096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9880	99	85-115	
Antimony	ug/L	1000	982	98	85-115	
Arsenic	ug/L	1000	945	95	85-115	
Beryllium	ug/L	1000	1000	100	85-115	
Cadmium	ug/L	1000	984	98	85-115	
Chromium	ug/L	1000	995	100	85-115	
Cobalt	ug/L	1000	996	100	85-115	
Copper	ug/L	1000	1000	100	85-115	
Iron	ug/L	10000	9880	99	85-115	
Lead	ug/L	1000	996	100	85-115	
Nickel	ug/L	1000	1010	101	85-115	
Selenium	ug/L	1000	974	97	85-115	
Silver	ug/L	500	491	98	85-115	
Thallium	ug/L	1000	996	100	85-115	
Zinc	ug/L	1000	985	99	85-115	

MATRIX SPIKE SAMPLE: 1337097

Parameter	Units	60163765001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	80900	50000	20900	-120	70-130	M1
Antimony	ug/L	52.6	5000	5330	106	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-229

Pace Project No.: 60163765

MATRIX SPIKE SAMPLE: 1337097		60163765001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Arsenic	ug/L	1600	5000	7030	109	70-130	
Beryllium	ug/L	ND	5000	4840	97	70-130	
Cadmium	ug/L	ND	5000	5210	104	70-130	
Chromium	ug/L	438	5000	5100	93	70-130	
Cobalt	ug/L	74.8	5000	4770	94	70-130	
Copper	ug/L	ND	5000	5240	105	70-130	
Iron	ug/L	1560000	50000	1580000	36	70-130	M1
Lead	ug/L	243	5000	4720	90	70-130	
Nickel	ug/L	203	5000	4880	94	70-130	
Selenium	ug/L	ND	5000	5870	117	70-130	
Silver	ug/L	ND	2500	2570	103	70-130	
Thallium	ug/L	ND	5000	4260	84	70-130	
Zinc	ug/L	16300	5000	12000	-85	70-130	M1

MATRIX SPIKE SAMPLE: 1337098		60163726002	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Aluminum	ug/L	ND	10000	10000	100	70-130	
Antimony	ug/L	ND	1000	1040	104	70-130	
Arsenic	ug/L	ND	1000	1020	102	70-130	
Beryllium	ug/L	ND	1000	1010	101	70-130	
Cadmium	ug/L	ND	1000	1020	102	70-130	
Chromium	ug/L	ND	1000	980	98	70-130	
Cobalt	ug/L	ND	1000	987	99	70-130	
Copper	ug/L	ND	1000	1010	100	70-130	
Iron	ug/L	ND	10000	10000	100	70-130	
Lead	ug/L	ND	1000	974	97	70-130	
Nickel	ug/L	ND	1000	998	100	70-130	
Selenium	ug/L	ND	1000	1020	102	70-130	
Silver	ug/L	ND	500	482	96	70-130	
Thallium	ug/L	ND	1000	974	97	70-130	
Zinc	ug/L	ND	1000	987	97	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-229
Pace Project No.: 60163765

QC Batch: MPRP/26322 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60163765001

METHOD BLANK: 1338460 Matrix: Water
Associated Lab Samples: 60163765001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	03/05/14 12:47	
Antimony, Dissolved	ug/L	ND	10.0	03/05/14 12:47	
Arsenic, Dissolved	ug/L	ND	10.0	03/05/14 12:47	
Beryllium, Dissolved	ug/L	ND	1.0	03/05/14 12:47	
Cadmium, Dissolved	ug/L	ND	5.0	03/05/14 12:47	
Chromium, Dissolved	ug/L	ND	5.0	03/05/14 12:47	
Cobalt, Dissolved	ug/L	ND	5.0	03/05/14 12:47	
Copper, Dissolved	ug/L	ND	10.0	03/05/14 12:47	
Iron, Dissolved	ug/L	ND	50.0	03/05/14 12:47	
Lead, Dissolved	ug/L	ND	5.0	03/05/14 12:47	
Nickel, Dissolved	ug/L	ND	5.0	03/05/14 12:47	
Selenium, Dissolved	ug/L	ND	15.0	03/05/14 12:47	
Silver, Dissolved	ug/L	ND	7.0	03/05/14 12:47	
Thallium, Dissolved	ug/L	ND	20.0	03/05/14 12:47	
Zinc, Dissolved	ug/L	ND	50.0	03/05/14 12:47	

LABORATORY CONTROL SAMPLE: 1338461

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	1030	103	85-115	
Arsenic, Dissolved	ug/L	1000	996	100	85-115	
Beryllium, Dissolved	ug/L	1000	1030	103	85-115	
Cadmium, Dissolved	ug/L	1000	1020	102	85-115	
Chromium, Dissolved	ug/L	1000	1020	102	85-115	
Cobalt, Dissolved	ug/L	1000	1030	103	85-115	
Copper, Dissolved	ug/L	1000	1020	102	85-115	
Iron, Dissolved	ug/L	10000	10200	102	85-115	
Lead, Dissolved	ug/L	1000	1030	103	85-115	
Nickel, Dissolved	ug/L	1000	1050	105	85-115	
Selenium, Dissolved	ug/L	1000	1030	103	85-115	
Silver, Dissolved	ug/L	500	487	97	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1338462 1338463

Parameter	Units	60163872001		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.								
Aluminum, Dissolved	ug/L	3120	50000	50000	53400	54200	101	102	70-130	1	8		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-229

Pace Project No.: 60163765

Parameter	Units	1338462		1338463		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		60163872001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Antimony, Dissolved	ug/L	ND	5000	5000	5400	5500	107	109	70-130	2	7	
Arsenic, Dissolved	ug/L	1070	5000	5000	6460	6480	108	108	70-130	0	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	4960	5040	99	101	70-130	2	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5240	5330	105	107	70-130	2	10	
Chromium, Dissolved	ug/L	257	5000	5000	5240	5320	100	101	70-130	2	10	
Cobalt, Dissolved	ug/L	41.3	5000	5000	4830	4900	96	97	70-130	1	6	
Copper, Dissolved	ug/L	ND	5000	5000	5460	5610	109	112	70-130	3	11	
Iron, Dissolved	ug/L	788000	50000	50000	776000	742000	-26	-94	70-130	4	10	M1
Lead, Dissolved	ug/L	84.7	5000	5000	4730	4780	93	94	70-130	1	10	
Nickel, Dissolved	ug/L	108	5000	5000	4930	4980	96	97	70-130	1	10	
Selenium, Dissolved	ug/L	ND	5000	5000	6040	6200	120	124	70-130	3	10	
Silver, Dissolved	ug/L	ND	2500	2500	2650	2690	106	108	70-130	2	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4240	4290	85	86	70-130	1	6	
Zinc, Dissolved	ug/L	7490	5000	5000	11600	11300	83	77	70-130	3	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-229

Pace Project No.: 60163765

QC Batch: MSV/59707 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60163765001, 60163765002

METHOD BLANK: 1336803 Matrix: Water

Associated Lab Samples: 60163765001, 60163765002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	03/03/14 12:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/03/14 12:31	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	03/03/14 12:31	
1,2-Dichloroethane	ug/L	ND	1.0	03/03/14 12:31	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/03/14 12:31	
2-Butanone (MEK)	ug/L	ND	10.0	03/03/14 12:31	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	03/03/14 12:31	N2
Acetone	ug/L	ND	10.0	03/03/14 12:31	N2
Benzene	ug/L	ND	1.0	03/03/14 12:31	
Bromodichloromethane	ug/L	ND	1.0	03/03/14 12:31	
Bromoform	ug/L	ND	1.0	03/03/14 12:31	
Bromomethane	ug/L	ND	5.0	03/03/14 12:31	
Carbon tetrachloride	ug/L	ND	1.0	03/03/14 12:31	
Chloroethane	ug/L	ND	1.0	03/03/14 12:31	
Chloroform	ug/L	ND	1.0	03/03/14 12:31	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/03/14 12:31	N2
Ethylbenzene	ug/L	ND	1.0	03/03/14 12:31	
Methylene chloride	ug/L	ND	1.0	03/03/14 12:31	
Tetrachloroethene	ug/L	ND	1.0	03/03/14 12:31	
Toluene	ug/L	ND	1.0	03/03/14 12:31	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/03/14 12:31	
Trichloroethene	ug/L	ND	1.0	03/03/14 12:31	
Vinyl chloride	ug/L	ND	1.0	03/03/14 12:31	
Xylene (Total)	ug/L	ND	3.0	03/03/14 12:31	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	03/03/14 12:31	
4-Bromofluorobenzene (S)	%	102	80-120	03/03/14 12:31	
Toluene-d8 (S)	%	98	80-120	03/03/14 12:31	

LABORATORY CONTROL SAMPLE: 1336804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.9	95	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	21.5	107	67-127	N2
1,1,2-Trichloroethane	ug/L	20	20.2	101	67-124	
1,2-Dichloroethane	ug/L	20	20.4	102	70-126	
1,4-Dichlorobenzene	ug/L	20	20.1	101	74-120	
2-Butanone (MEK)	ug/L	100	108	108	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	100	100	59-131	N2
Acetone	ug/L	100	126	126	38-134	N2
Benzene	ug/L	20	19.5	98	75-120	
Bromodichloromethane	ug/L	20	20.0	100	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-229

Pace Project No.: 60163765

LABORATORY CONTROL SAMPLE: 1336804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.4	102	65-127	
Bromomethane	ug/L	20	18.1	90	13-157	
Carbon tetrachloride	ug/L	20	18.9	94	70-131	
Chloroethane	ug/L	20	15.3	77	47-133	
Chloroform	ug/L	20	17.4	87	65-127	
cis-1,2-Dichloroethene	ug/L	20	17.8	89	68-127	N2
Ethylbenzene	ug/L	20	19.7	99	74-122	
Methylene chloride	ug/L	20	18.3	92	64-129	
Tetrachloroethene	ug/L	20	19.1	96	73-125	
Toluene	ug/L	20	19.5	97	69-126	
trans-1,2-Dichloroethene	ug/L	20	17.7	89	66-129	
Trichloroethene	ug/L	20	20.2	101	71-123	
Vinyl chloride	ug/L	20	21.7	109	43-129	
Xylene (Total)	ug/L	60	60.4	101	75-121	N2
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1336805

Parameter	Units	60163872001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3750	94	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4160	104	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4060	101	52-143	
1,2-Dichloroethane	ug/L	ND	4000	3920	98	49-144	
1,4-Dichlorobenzene	ug/L	852	4000	4430	90	33-140	
2-Butanone (MEK)	ug/L	73900	20000	99000	126	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	2510	20000	22500	100	40-160	N2
Acetone	ug/L	166000	20000	183000	87	10-160	N2
Benzene	ug/L	ND	4000	3670	92	37-151	
Bromodichloromethane	ug/L	ND	4000	3890	97	35-142	
Bromoform	ug/L	ND	4000	4050	101	45-142	
Bromomethane	ug/L	ND	4000	3540	88	10-158	
Carbon tetrachloride	ug/L	ND	4000	3930	98	70-140	
Chloroethane	ug/L	ND	4000	2370	59	19-152	
Chloroform	ug/L	ND	4000	3460	86	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3490	87	34-147	N2
Ethylbenzene	ug/L	ND	4000	3820	94	40-142	
Methylene chloride	ug/L	ND	4000	3700	92	31-144	
Tetrachloroethene	ug/L	ND	4000	3640	91	64-148	
Toluene	ug/L	ND	4000	3800	95	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	3480	87	54-151	
Trichloroethene	ug/L	ND	4000	3950	99	71-149	
Vinyl chloride	ug/L	ND	4000	4380	109	22-146	
Xylene (Total)	ug/L	ND	12000	11300	94	37-144	N2
1,2-Dichloroethane-d4 (S)	%				104	80-120	
4-Bromofluorobenzene (S)	%				96	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-229

Pace Project No.: 60163765

MATRIX SPIKE SAMPLE:		1336805					
Parameter	Units	60163872001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S) Preservation pH	%	6.0	6.0	6.0	101	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-229

Pace Project No.: 60163765

QC Batch:	OEXT/42936	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60163765001		

METHOD BLANK: 1337803 Matrix: Water

Associated Lab Samples: 60163765001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	03/04/14 09:21	
2,4,6-Trichlorophenol	ug/L	ND	5.0	03/04/14 09:21	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	03/04/14 09:21	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	03/04/14 09:21	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	03/04/14 09:21	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	03/04/14 09:21	
Hexachlorocyclopentadiene	ug/L	ND	5.0	03/04/14 09:21	
Hexachloroethane	ug/L	ND	5.0	03/04/14 09:21	
Naphthalene	ug/L	ND	5.0	03/04/14 09:21	
Nitrobenzene	ug/L	ND	5.0	03/04/14 09:21	
Pentachlorophenol	ug/L	ND	5.0	03/04/14 09:21	
Phenol	ug/L	ND	5.0	03/04/14 09:21	
2,4,6-Tribromophenol (S)	%	69	39-120	03/04/14 09:21	
2-Fluorobiphenyl (S)	%	72	39-120	03/04/14 09:21	
2-Fluorophenol (S)	%	40	17-120	03/04/14 09:21	
Nitrobenzene-d5 (S)	%	73	33-120	03/04/14 09:21	
Phenol-d6 (S)	%	27	11-120	03/04/14 09:21	
Terphenyl-d14 (S)	%	69	45-120	03/04/14 09:21	

LABORATORY CONTROL SAMPLE: 1337804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	35.1	70	46-120	
2,4,6-Trichlorophenol	ug/L	50	36.9	74	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	23.1	46		N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	20.1	40		N2
4,6-Dinitro-2-methylphenol	ug/L	50	37.7	75	40-133	
Hexachloro-1,3-butadiene	ug/L	50	34.1	68	44-116	
Hexachlorocyclopentadiene	ug/L	100	70.7	71	24-120	
Hexachloroethane	ug/L	50	33.4	67	43-113	
Naphthalene	ug/L	50	34.3	69	48-120	
Nitrobenzene	ug/L	50	38.3	77	48-120	
Pentachlorophenol	ug/L	50	37.3	75	47-120	
Phenol	ug/L	50	10.7	21	16-112	
2,4,6-Tribromophenol (S)	%			71	39-120	
2-Fluorobiphenyl (S)	%			72	39-120	
2-Fluorophenol (S)	%			28	17-120	
Nitrobenzene-d5 (S)	%			75	33-120	
Phenol-d6 (S)	%			17	11-120	
Terphenyl-d14 (S)	%			71	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-229

Pace Project No.: 60163765

MATRIX SPIKE SAMPLE:		1337805					
Parameter	Units	60163872001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3440	69	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	3840	77	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	3770	75		N2
3&4-Methylphenol(m&p Cresol)	ug/L	9160	5000	13600	88		N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	3590J	72	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3550	71	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	7280	73	11-120	
Hexachloroethane	ug/L	ND	5000	3770	75	40-113	
Naphthalene	ug/L	2470	5000	5830	67	45-120	
Nitrobenzene	ug/L	ND	5000	9260	185	38-120	M1
Pentachlorophenol	ug/L	ND	5000	3870	77	43-135	
Phenol	ug/L	13500	5000	17400	77	13-112	
2,4,6-Tribromophenol (S)	%				75	39-120	
2-Fluorobiphenyl (S)	%				74	39-120	
2-Fluorophenol (S)	%				39	17-120	
Nitrobenzene-d5 (S)	%				193	33-120	SO
Phenol-d6 (S)	%				28	11-120	
Terphenyl-d14 (S)	%				67	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-229

Pace Project No.: 60163765

QC Batch:	WET/46475	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60163765001		

METHOD BLANK: 1338525 Matrix: Water
Associated Lab Samples: 60163765001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	03/05/14 06:58	

LABORATORY CONTROL SAMPLE: 1338526

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.4	98	78-114	

MATRIX SPIKE SAMPLE: 1338527

Parameter	Units	60163602002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	3.8J	47.1	43.4	84	78-114	

SAMPLE DUPLICATE: 1338528

Parameter	Units	60163762001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	110	124	11	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-229

Pace Project No.: 60163765

QC Batch:	WET/46476	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60163765001		

METHOD BLANK: 1338531 Matrix: Water
Associated Lab Samples: 60163765001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	03/05/14 07:03	

LABORATORY CONTROL SAMPLE: 1338532

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	18.4	92	64-132	

MATRIX SPIKE SAMPLE: 1338533

Parameter	Units	60163602002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	23.5	19.5	79	64-132	

SAMPLE DUPLICATE: 1338534

Parameter	Units	60163762001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	13.2	14.4	9	34	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-229

Pace Project No.: 60163765

QC Batch:	WET/46448	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	60163765001		

METHOD BLANK: 1338185 Matrix: Water

Associated Lab Samples: 60163765001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	03/04/14 07:52	

SAMPLE DUPLICATE: 1338186

Parameter	Units	60163876001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	15.0	17.0	12	10	D6

SAMPLE DUPLICATE: 1338187

Parameter	Units	60163668002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	277	263	5	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-229

Pace Project No.: 60163765

QC Batch: WET/46416 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60163765001

SAMPLE DUPLICATE: 1337764

Parameter	Units	60163726005 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.6	8.7	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-229

Pace Project No.: 60163765

QC Batch: WET/46380

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60163765001

METHOD BLANK: 1336153

Matrix: Water

Associated Lab Samples: 60163765001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	03/04/14 11:14	

LABORATORY CONTROL SAMPLE: 1336154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	173	87	85-115	

SAMPLE DUPLICATE: 1336155

Parameter	Units	60163751001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	375	415	10	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-229

Pace Project No.: 60163765

QC Batch: WETA/28429

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60163765001

METHOD BLANK: 1338111

Matrix: Water

Associated Lab Samples: 60163765001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	03/04/14 16:43	

LABORATORY CONTROL SAMPLE: 1338112

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	100	90-110	

MATRIX SPIKE SAMPLE: 1338113

Parameter	Units	60163742006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.11	2	1.7	79	90-110	M1

MATRIX SPIKE SAMPLE: 1338114

Parameter	Units	60163745002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	11.2	10	18.4	72	90-110	M1

SAMPLE DUPLICATE: 1338115

Parameter	Units	60163791001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-229

Pace Project No.: 60163765

QC Batch: WETA/28448 Analysis Method: EPA 410.4
 QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
 Associated Lab Samples: 60163765001

METHOD BLANK: 1338650 Matrix: Water
 Associated Lab Samples: 60163765001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	03/06/14 13:31	

LABORATORY CONTROL SAMPLE: 1338651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	50.3	101	90-110	

MATRIX SPIKE SAMPLE: 1338652

Parameter	Units	60163585001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	6370	5000	11300	99	90-110	

MATRIX SPIKE SAMPLE: 1338654

Parameter	Units	60163765001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	72100	25000	104000	128	90-110	M1

SAMPLE DUPLICATE: 1339153

Parameter	Units	60163872001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	62200	63200	2	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-229

Pace Project No.: 60163765

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.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-229

Pace Project No.: 60163765

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60163765001	316-229	EPA 200.7	MPRP/26298	EPA 200.7	ICP/20075
60163765001	316-229	EPA 200.7	MPRP/26322	EPA 200.7	ICP/20087
60163765001	316-229	EPA 245.1	MERP/8189	EPA 245.1	MERC/8145
60163765001	316-229	EPA 245.1	MERP/8192	EPA 245.1	MERC/8146
60163765001	316-229	EPA 625	OEXT/42936	EPA 625	MSSV/13678
60163765001	316-229	EPA 624 Low	MSV/59707		
60163765002	TRIP BLANK	EPA 624 Low	MSV/59707		
60163765001	316-229	EPA 1664A	WET/46475		
60163765001	316-229	EPA 1664A	WET/46476		
60163765001	316-229	SM 2540D	WET/46448		
60163765001	316-229	SM 4500-H+B	WET/46416		
60163765001	316-229	SM 5210B	WET/46380	SM 5210B	WET/46462
60163765001	316-229	EPA 350.1	WETA/28429		
60163765001	316-229	EPA 410.4	WETA/28448		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60163765



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 2 PIC

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

Cooler Temperature: 5.6
Temperature should be above freezing to 6°C

Date and initials of person examining contents: PV 2/27/14

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. BOD PH
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Includes date/time/ID/analyses Matrix: <u>WT</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Added 2.5 ml of HNO3 to BPSM. pH 6.0/4.2 Added 2.0 ml of H2SO4 to BPS. pH 6.0/3.0
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: <u>VOA</u> coliform, TOC, <u>OC</u> , WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>PV</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative <u>12573</u> <u>12514</u>
Pace Trip Blank lot # (if purchased): <u>11113-3</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MO</u>

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature]

Date: 2/28/14

March 07, 2014

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

RE: Project: BRIDGETON LF 316-230
Pace Project No.: 60163872

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 28, 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 316-230

Pace Project No.: 60163872

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 316-230

Pace Project No.: 60163872

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60163872001	316-230	Water	02/27/14 12:40	02/28/14 01:05
60163872002	TRIP BLANK	Water	02/27/14 00:00	02/28/14 01:05

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-230

Pace Project No.: 60163872

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60163872001	316-230	EPA 200.7	SMW	16
		EPA 200.7	TJT	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC1	1
		SM 4500-H+B	DJR	1
		SM 5210B	RAH	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60163872002	TRIP BLANK	EPA 624 Low

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-230

Pace Project No.: 60163872

Sample: 316-230		Lab ID: 60163872001	Collected: 02/27/14 12:40	Received: 02/28/14 01:05	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	8590 ug/L		1120	3	03/06/14 10:20	03/07/14 13:29	7429-90-5	
Antimony	ND ug/L		150	3	03/06/14 10:20	03/07/14 13:29	7440-36-0	D3
Arsenic	1430 ug/L		50.0	1	03/06/14 10:20	03/07/14 11:22	7440-38-2	
Beryllium	ND ug/L		5.0	1	03/06/14 10:20	03/07/14 11:22	7440-41-7	
Cadmium	ND ug/L		25.0	1	03/06/14 10:20	03/07/14 11:22	7440-43-9	
Calcium	5190000 ug/L		1500	3	03/06/14 10:20	03/07/14 13:29	7440-70-2	M1
Chromium	378 ug/L		25.0	1	03/06/14 10:20	03/07/14 11:22	7440-47-3	
Cobalt	75.4 ug/L		25.0	1	03/06/14 10:20	03/07/14 11:22	7440-48-4	
Copper	ND ug/L		50.0	1	03/06/14 10:20	03/07/14 11:22	7440-50-8	
Iron	1160000 ug/L		250	1	03/06/14 10:20	03/07/14 11:22	7439-89-6	M1
Lead	216 ug/L		25.0	1	03/06/14 10:20	03/07/14 11:22	7439-92-1	
Nickel	174 ug/L		25.0	1	03/06/14 10:20	03/07/14 11:22	7440-02-0	
Selenium	ND ug/L		75.0	1	03/06/14 10:20	03/07/14 11:22	7782-49-2	
Silver	ND ug/L		35.0	1	03/06/14 10:20	03/07/14 11:22	7440-22-4	
Thallium	ND ug/L		100	1	03/06/14 10:20	03/07/14 11:22	7440-28-0	
Zinc	10400 ug/L		750	3	03/06/14 10:20	03/07/14 13:29	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	3120 ug/L		750	2	03/04/14 13:45	03/05/14 13:03	7429-90-5	
Antimony, Dissolved	ND ug/L		50.0	1	03/04/14 13:45	03/05/14 13:01	7440-36-0	
Arsenic, Dissolved	1070 ug/L		50.0	1	03/04/14 13:45	03/05/14 13:01	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	03/04/14 13:45	03/05/14 13:01	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	03/04/14 13:45	03/05/14 13:01	7440-43-9	
Chromium, Dissolved	257 ug/L		25.0	1	03/04/14 13:45	03/05/14 13:01	7440-47-3	
Cobalt, Dissolved	41.3 ug/L		25.0	1	03/04/14 13:45	03/05/14 13:01	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	03/04/14 13:45	03/05/14 13:01	7440-50-8	
Iron, Dissolved	788000 ug/L		250	1	03/04/14 13:45	03/05/14 13:01	7439-89-6	M1
Lead, Dissolved	84.7 ug/L		25.0	1	03/04/14 13:45	03/05/14 13:01	7439-92-1	
Nickel, Dissolved	108 ug/L		25.0	1	03/04/14 13:45	03/05/14 13:01	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	03/04/14 13:45	03/05/14 13:01	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	03/04/14 13:45	03/05/14 13:01	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	03/04/14 13:45	03/05/14 13:01	7440-28-0	
Zinc, Dissolved	7490 ug/L		500	2	03/04/14 13:45	03/05/14 13:03	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND ug/L		6.0	1	03/03/14 10:00	03/04/14 10:18	7439-97-6	R1
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		0.20	1	03/04/14 10:00	03/04/14 12:29	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	03/03/14 00:00	03/04/14 12:09	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	03/03/14 00:00	03/04/14 12:09	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	03/03/14 00:00	03/04/14 12:09	77-47-4	
Hexachloroethane	ND ug/L		1000	2	03/03/14 00:00	03/04/14 12:09	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	03/03/14 00:00	03/04/14 12:09	95-48-7	N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-230

Pace Project No.: 60163872

Sample: 316-230	Lab ID: 60163872001	Collected: 02/27/14 12:40	Received: 02/28/14 01:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV								
Analytical Method: EPA 625 Preparation Method: EPA 625								
3&4-Methylphenol(m&p Cresol)	9160 ug/L		4000	2	03/03/14 00:00	03/04/14 12:09		N2
Naphthalene	2470 ug/L		1000	2	03/03/14 00:00	03/04/14 12:09	91-20-3	
Nitrobenzene	ND ug/L		1000	2	03/03/14 00:00	03/04/14 12:09	98-95-3	M1
Pentachlorophenol	ND ug/L		1000	2	03/03/14 00:00	03/04/14 12:09	87-86-5	
Phenol	13500 ug/L		1000	2	03/03/14 00:00	03/04/14 12:09	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	03/03/14 00:00	03/04/14 12:09	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	03/03/14 00:00	03/04/14 12:09	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	183 %		33-120	2	03/03/14 00:00	03/04/14 12:09	4165-60-0	S0
2-Fluorobiphenyl (S)	81 %		39-120	2	03/03/14 00:00	03/04/14 12:09	321-60-8	
Terphenyl-d14 (S)	75 %		45-120	2	03/03/14 00:00	03/04/14 12:09	1718-51-0	
Phenol-d6 (S)	33 %		11-120	2	03/03/14 00:00	03/04/14 12:09	13127-88-3	
2-Fluorophenol (S)	45 %		17-120	2	03/03/14 00:00	03/04/14 12:09	367-12-4	
2,4,6-Tribromophenol (S)	81 %		39-120	2	03/03/14 00:00	03/04/14 12:09	118-79-6	
624 Volatile Organics								
Analytical Method: EPA 624 Low								
Acetone	166000 ug/L		2000	200		03/03/14 15:40	67-64-1	N2
Benzene	ND ug/L		200	200		03/03/14 15:40	71-43-2	
Bromodichloromethane	ND ug/L		200	200		03/03/14 15:40	75-27-4	
Bromoform	ND ug/L		200	200		03/03/14 15:40	75-25-2	
Bromomethane	ND ug/L		1000	200		03/03/14 15:40	74-83-9	
2-Butanone (MEK)	73900 ug/L		2000	200		03/03/14 15:40	78-93-3	N2
Carbon tetrachloride	ND ug/L		200	200		03/03/14 15:40	56-23-5	
Chloroethane	ND ug/L		200	200		03/03/14 15:40	75-00-3	
Chloroform	ND ug/L		200	200		03/03/14 15:40	67-66-3	
1,4-Dichlorobenzene	852 ug/L		200	200		03/03/14 15:40	106-46-7	
1,2-Dichloroethane	ND ug/L		200	200		03/03/14 15:40	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200	200		03/03/14 15:40	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		200	200		03/03/14 15:40	156-60-5	
Ethylbenzene	ND ug/L		200	200		03/03/14 15:40	100-41-4	
Methylene chloride	ND ug/L		200	200		03/03/14 15:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	2510 ug/L		2000	200		03/03/14 15:40	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		03/03/14 15:40	79-34-5	N2
Tetrachloroethene	ND ug/L		200	200		03/03/14 15:40	127-18-4	
Toluene	ND ug/L		200	200		03/03/14 15:40	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		03/03/14 15:40	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		03/03/14 15:40	79-00-5	
Trichloroethene	ND ug/L		200	200		03/03/14 15:40	79-01-6	
Vinyl chloride	ND ug/L		200	200		03/03/14 15:40	75-01-4	
Xylene (Total)	ND ug/L		600	200		03/03/14 15:40	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	98 %		80-120	200		03/03/14 15:40	460-00-4	
Toluene-d8 (S)	102 %		80-120	200		03/03/14 15:40	2037-26-5	
1,2-Dichloroethane-d4 (S)	103 %		80-120	200		03/03/14 15:40	17060-07-0	
Preservation pH	6.0		1.0	200		03/03/14 15:40		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-230

Pace Project No.: 60163872

Sample: 316-230		Lab ID: 60163872001	Collected: 02/27/14 12:40	Received: 02/28/14 01:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1260	mg/L	5.0	1		03/06/14 13:50		M1
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	41.2	mg/L	5.0	1		03/06/14 13:53		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	2500	mg/L	5.0	1		03/05/14 14:35		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.2	Std. Units	0.10	1		03/03/14 06:50		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	23800	mg/L	2.0	1	02/28/14 11:59	03/05/14 17:07		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	696	mg/L	20.0	200		03/05/14 16:23	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	62200	mg/L	5000	500		03/06/14 13:48		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-230

Pace Project No.: 60163872

Sample: TRIP BLANK		Lab ID: 60163872002	Collected: 02/27/14 00:00	Received: 02/28/14 01:05	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		03/03/14 14:05	67-64-1	N2
Benzene	ND ug/L		1.0	1		03/03/14 14:05	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		03/03/14 14:05	75-27-4	
Bromoform	ND ug/L		1.0	1		03/03/14 14:05	75-25-2	
Bromomethane	ND ug/L		5.0	1		03/03/14 14:05	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		03/03/14 14:05	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		03/03/14 14:05	56-23-5	
Chloroethane	ND ug/L		1.0	1		03/03/14 14:05	75-00-3	
Chloroform	ND ug/L		1.0	1		03/03/14 14:05	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		03/03/14 14:05	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		03/03/14 14:05	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		03/03/14 14:05	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		03/03/14 14:05	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		03/03/14 14:05	100-41-4	
Methylene chloride	ND ug/L		1.0	1		03/03/14 14:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		03/03/14 14:05	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		03/03/14 14:05	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		03/03/14 14:05	127-18-4	
Toluene	ND ug/L		1.0	1		03/03/14 14:05	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		03/03/14 14:05	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		03/03/14 14:05	79-00-5	
Trichloroethene	ND ug/L		1.0	1		03/03/14 14:05	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		03/03/14 14:05	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		03/03/14 14:05	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101 %		80-120	1		03/03/14 14:05	460-00-4	
Toluene-d8 (S)	99 %		80-120	1		03/03/14 14:05	2037-26-5	
1,2-Dichloroethane-d4 (S)	104 %		80-120	1		03/03/14 14:05	17060-07-0	
Preservation pH	6.0		1.0	1		03/03/14 14:05		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-230

Pace Project No.: 60163872

QC Batch: MERP/8189

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60163872001

METHOD BLANK: 1337876

Matrix: Water

Associated Lab Samples: 60163872001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	03/04/14 09:58	

LABORATORY CONTROL SAMPLE: 1337877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.5	110	85-115	

MATRIX SPIKE SAMPLE: 1337878

Parameter	Units	60163654001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	150	151	100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1337921

1337922

Parameter	Units	60163872001 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	151	112	99	73	70-130	30	20	R1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-230

Pace Project No.: 60163872

QC Batch: MERP/8192

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60163872001

METHOD BLANK: 1338296

Matrix: Water

Associated Lab Samples: 60163872001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	03/04/14 12:11	

LABORATORY CONTROL SAMPLE: 1338297

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.4	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1338298 1338299

Parameter	Units	60163872001		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	ND	Spike Conc.	Conc.	Result	Result	% Rec	% Rec					
Mercury, Dissolved	ug/L	ND	5	5	5	5.0	5.2	98	103	70-130	5	20		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-230

Pace Project No.: 60163872

QC Batch:	MPRP/26342	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
Associated Lab Samples:	60163872001		

METHOD BLANK: 1339299 Matrix: Water

Associated Lab Samples: 60163872001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	03/07/14 11:15	
Antimony	ug/L	ND	10.0	03/07/14 11:15	
Arsenic	ug/L	ND	10.0	03/07/14 11:15	
Beryllium	ug/L	ND	1.0	03/07/14 11:15	
Cadmium	ug/L	ND	5.0	03/07/14 11:15	
Calcium	ug/L	ND	100	03/07/14 11:15	
Chromium	ug/L	ND	5.0	03/07/14 11:15	
Cobalt	ug/L	ND	5.0	03/07/14 11:15	
Copper	ug/L	ND	10.0	03/07/14 11:15	
Iron	ug/L	ND	50.0	03/07/14 11:15	
Lead	ug/L	ND	5.0	03/07/14 11:15	
Nickel	ug/L	ND	5.0	03/07/14 11:15	
Selenium	ug/L	ND	15.0	03/07/14 11:15	
Silver	ug/L	ND	7.0	03/07/14 11:15	
Thallium	ug/L	ND	20.0	03/07/14 11:15	
Zinc	ug/L	ND	50.0	03/07/14 11:15	

LABORATORY CONTROL SAMPLE: 1339300

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10400	104	85-115	
Antimony	ug/L	1000	1030	103	85-115	
Arsenic	ug/L	1000	1020	102	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1020	102	85-115	
Calcium	ug/L	10000	10400	104	85-115	
Chromium	ug/L	1000	1070	107	85-115	
Cobalt	ug/L	1000	1060	106	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	10600	106	85-115	
Lead	ug/L	1000	1070	107	85-115	
Nickel	ug/L	1000	1070	107	85-115	
Selenium	ug/L	1000	1030	103	85-115	
Silver	ug/L	500	505	101	85-115	
Thallium	ug/L	1000	1060	106	85-115	
Zinc	ug/L	1000	1070	107	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-230

Pace Project No.: 60163872

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1339301												1339302			
Parameter	Units	60163872001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual			
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD				
Aluminum	ug/L	8590	50000	50000	50000	65200	67100	113	117	70-130	3	8			
Antimony	ug/L	ND	5000	5000	5000	5320	5470	106	109	70-130	3	7			
Arsenic	ug/L	1430	5000	5000	5000	6940	6980	110	111	70-130	1	10			
Beryllium	ug/L	ND	5000	5000	5000	4600	4570	92	91	70-130	1	7			
Cadmium	ug/L	ND	5000	5000	5000	5300	5290	106	106	70-130	0	10			
Calcium	ug/L	519000 0	50000	50000	50000	4970000	5120000	-429	-132	70-130	3	9 M1			
Chromium	ug/L	378	5000	5000	5000	5340	5340	99	99	70-130	0	10			
Cobalt	ug/L	75.4	5000	5000	5000	4770	4750	94	93	70-130	0	6			
Copper	ug/L	ND	5000	5000	5000	5360	5340	106	106	70-130	0	11			
Iron	ug/L	116000 0	50000	50000	50000	1130000	1160000	-57	-8	70-130	2	10 M1			
Lead	ug/L	216	5000	5000	5000	4630	4600	88	88	70-130	0	10			
Nickel	ug/L	174	5000	5000	5000	4780	4750	92	91	70-130	1	10			
Selenium	ug/L	ND	5000	5000	5000	6300	6300	125	125	70-130	0	10			
Silver	ug/L	ND	2500	2500	2500	2730	2710	109	108	70-130	1	10			
Thallium	ug/L	ND	5000	5000	5000	4030	3990	81	80	70-130	1	6			
Zinc	ug/L	10400	5000	5000	5000	14700	15300	86	98	70-130	4	11			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1339303												1339304			
Parameter	Units	60164113001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual			
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD				
Aluminum	ug/L	26100	50000	50000	50000	94100	92800	136	134	70-130	1	8 M1			
Antimony	ug/L	ND	5000	5000	5000	5260	5160	104	102	70-130	2	7			
Arsenic	ug/L	1100	5000	5000	5000	6740	7190	113	122	70-130	7	10			
Beryllium	ug/L	ND	5000	5000	5000	4520	4530	90	91	70-130	0	7			
Cadmium	ug/L	ND	5000	5000	5000	5340	5740	107	114	70-130	7	10			
Calcium	ug/L	475000 0	50000	50000	50000	4620000	4520000	-244	-456	70-130	2	9 M1			
Chromium	ug/L	335	5000	5000	5000	5340	5380	100	101	70-130	1	10			
Cobalt	ug/L	72.2	5000	5000	5000	4820	5180	95	102	70-130	7	6 R1			
Copper	ug/L	54.7	5000	5000	5000	5340	5380	106	107	70-130	1	11			
Iron	ug/L	100000 0	50000	50000	50000	1030000	1010000	57	16	70-130	2	10 M1			
Lead	ug/L	207	5000	5000	5000	4690	5020	90	96	70-130	7	10			
Nickel	ug/L	167	5000	5000	5000	4810	5160	93	100	70-130	7	10			
Selenium	ug/L	ND	5000	5000	5000	6250	6700	124	133	70-130	7	10 M1			
Silver	ug/L	ND	2500	2500	2500	2720	2740	109	109	70-130	1	10			
Thallium	ug/L	ND	5000	5000	5000	4070	4390	81	88	70-130	8	6 R1			
Zinc	ug/L	8420	5000	5000	5000	13100	12700	93	86	70-130	3	11			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-230

Pace Project No.: 60163872

QC Batch:	MPRP/26322	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60163872001		

METHOD BLANK: 1338460 Matrix: Water

Associated Lab Samples: 60163872001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	03/05/14 12:47	
Antimony, Dissolved	ug/L	ND	10.0	03/05/14 12:47	
Arsenic, Dissolved	ug/L	ND	10.0	03/05/14 12:47	
Beryllium, Dissolved	ug/L	ND	1.0	03/05/14 12:47	
Cadmium, Dissolved	ug/L	ND	5.0	03/05/14 12:47	
Chromium, Dissolved	ug/L	ND	5.0	03/05/14 12:47	
Cobalt, Dissolved	ug/L	ND	5.0	03/05/14 12:47	
Copper, Dissolved	ug/L	ND	10.0	03/05/14 12:47	
Iron, Dissolved	ug/L	ND	50.0	03/05/14 12:47	
Lead, Dissolved	ug/L	ND	5.0	03/05/14 12:47	
Nickel, Dissolved	ug/L	ND	5.0	03/05/14 12:47	
Selenium, Dissolved	ug/L	ND	15.0	03/05/14 12:47	
Silver, Dissolved	ug/L	ND	7.0	03/05/14 12:47	
Thallium, Dissolved	ug/L	ND	20.0	03/05/14 12:47	
Zinc, Dissolved	ug/L	ND	50.0	03/05/14 12:47	

LABORATORY CONTROL SAMPLE: 1338461

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	1030	103	85-115	
Arsenic, Dissolved	ug/L	1000	996	100	85-115	
Beryllium, Dissolved	ug/L	1000	1030	103	85-115	
Cadmium, Dissolved	ug/L	1000	1020	102	85-115	
Chromium, Dissolved	ug/L	1000	1020	102	85-115	
Cobalt, Dissolved	ug/L	1000	1030	103	85-115	
Copper, Dissolved	ug/L	1000	1020	102	85-115	
Iron, Dissolved	ug/L	10000	10200	102	85-115	
Lead, Dissolved	ug/L	1000	1030	103	85-115	
Nickel, Dissolved	ug/L	1000	1050	105	85-115	
Selenium, Dissolved	ug/L	1000	1030	103	85-115	
Silver, Dissolved	ug/L	500	487	97	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1338462 1338463

Parameter	Units	60163872001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum, Dissolved	ug/L	3120	50000	50000	53400	54200	101	102	70-130	1	8		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-230

Pace Project No.: 60163872

Parameter	Units	60163872001		1338462		1338463		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Antimony, Dissolved	ug/L	ND	5000	5000	5400	5500	107	109	70-130	2	7		
Arsenic, Dissolved	ug/L	1070	5000	5000	6460	6480	108	108	70-130	0	10		
Beryllium, Dissolved	ug/L	ND	5000	5000	4960	5040	99	101	70-130	2	7		
Cadmium, Dissolved	ug/L	ND	5000	5000	5240	5330	105	107	70-130	2	10		
Chromium, Dissolved	ug/L	257	5000	5000	5240	5320	100	101	70-130	2	10		
Cobalt, Dissolved	ug/L	41.3	5000	5000	4830	4900	96	97	70-130	1	6		
Copper, Dissolved	ug/L	ND	5000	5000	5460	5610	109	112	70-130	3	11		
Iron, Dissolved	ug/L	788000	50000	50000	776000	742000	-26	-94	70-130	4	10	M1	
Lead, Dissolved	ug/L	84.7	5000	5000	4730	4780	93	94	70-130	1	10		
Nickel, Dissolved	ug/L	108	5000	5000	4930	4980	96	97	70-130	1	10		
Selenium, Dissolved	ug/L	ND	5000	5000	6040	6200	120	124	70-130	3	10		
Silver, Dissolved	ug/L	ND	2500	2500	2650	2690	106	108	70-130	2	10		
Thallium, Dissolved	ug/L	ND	5000	5000	4240	4290	85	86	70-130	1	6		
Zinc, Dissolved	ug/L	7490	5000	5000	11600	11300	83	77	70-130	3	11		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-230

Pace Project No.: 60163872

QC Batch: MSV/59707 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60163872001, 60163872002

METHOD BLANK: 1336803 Matrix: Water

Associated Lab Samples: 60163872001, 60163872002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	03/03/14 12:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/03/14 12:31	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	03/03/14 12:31	
1,2-Dichloroethane	ug/L	ND	1.0	03/03/14 12:31	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/03/14 12:31	
2-Butanone (MEK)	ug/L	ND	10.0	03/03/14 12:31	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	03/03/14 12:31	N2
Acetone	ug/L	ND	10.0	03/03/14 12:31	N2
Benzene	ug/L	ND	1.0	03/03/14 12:31	
Bromodichloromethane	ug/L	ND	1.0	03/03/14 12:31	
Bromoform	ug/L	ND	1.0	03/03/14 12:31	
Bromomethane	ug/L	ND	5.0	03/03/14 12:31	
Carbon tetrachloride	ug/L	ND	1.0	03/03/14 12:31	
Chloroethane	ug/L	ND	1.0	03/03/14 12:31	
Chloroform	ug/L	ND	1.0	03/03/14 12:31	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/03/14 12:31	N2
Ethylbenzene	ug/L	ND	1.0	03/03/14 12:31	
Methylene chloride	ug/L	ND	1.0	03/03/14 12:31	
Tetrachloroethene	ug/L	ND	1.0	03/03/14 12:31	
Toluene	ug/L	ND	1.0	03/03/14 12:31	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/03/14 12:31	
Trichloroethene	ug/L	ND	1.0	03/03/14 12:31	
Vinyl chloride	ug/L	ND	1.0	03/03/14 12:31	
Xylene (Total)	ug/L	ND	3.0	03/03/14 12:31	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	03/03/14 12:31	
4-Bromofluorobenzene (S)	%	102	80-120	03/03/14 12:31	
Toluene-d8 (S)	%	98	80-120	03/03/14 12:31	

LABORATORY CONTROL SAMPLE: 1336804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.9	95	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	21.5	107	67-127	N2
1,1,2-Trichloroethane	ug/L	20	20.2	101	67-124	
1,2-Dichloroethane	ug/L	20	20.4	102	70-126	
1,4-Dichlorobenzene	ug/L	20	20.1	101	74-120	
2-Butanone (MEK)	ug/L	100	108	108	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	100	100	59-131	N2
Acetone	ug/L	100	126	126	38-134	N2
Benzene	ug/L	20	19.5	98	75-120	
Bromodichloromethane	ug/L	20	20.0	100	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-230

Pace Project No.: 60163872

LABORATORY CONTROL SAMPLE: 1336804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.4	102	65-127	
Bromomethane	ug/L	20	18.1	90	13-157	
Carbon tetrachloride	ug/L	20	18.9	94	70-131	
Chloroethane	ug/L	20	15.3	77	47-133	
Chloroform	ug/L	20	17.4	87	65-127	
cis-1,2-Dichloroethene	ug/L	20	17.8	89	68-127	N2
Ethylbenzene	ug/L	20	19.7	99	74-122	
Methylene chloride	ug/L	20	18.3	92	64-129	
Tetrachloroethene	ug/L	20	19.1	96	73-125	
Toluene	ug/L	20	19.5	97	69-126	
trans-1,2-Dichloroethene	ug/L	20	17.7	89	66-129	
Trichloroethene	ug/L	20	20.2	101	71-123	
Vinyl chloride	ug/L	20	21.7	109	43-129	
Xylene (Total)	ug/L	60	60.4	101	75-121	N2
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1336805

Parameter	Units	60163872001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3750	94	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4160	104	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4060	101	52-143	
1,2-Dichloroethane	ug/L	ND	4000	3920	98	49-144	
1,4-Dichlorobenzene	ug/L	852	4000	4430	90	33-140	
2-Butanone (MEK)	ug/L	73900	20000	99000	126	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	2510	20000	22500	100	40-160	N2
Acetone	ug/L	166000	20000	183000	87	10-160	N2
Benzene	ug/L	ND	4000	3670	92	37-151	
Bromodichloromethane	ug/L	ND	4000	3890	97	35-142	
Bromoform	ug/L	ND	4000	4050	101	45-142	
Bromomethane	ug/L	ND	4000	3540	88	10-158	
Carbon tetrachloride	ug/L	ND	4000	3930	98	70-140	
Chloroethane	ug/L	ND	4000	2370	59	19-152	
Chloroform	ug/L	ND	4000	3460	86	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3490	87	34-147	N2
Ethylbenzene	ug/L	ND	4000	3820	94	40-142	
Methylene chloride	ug/L	ND	4000	3700	92	31-144	
Tetrachloroethene	ug/L	ND	4000	3640	91	64-148	
Toluene	ug/L	ND	4000	3800	95	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	3480	87	54-151	
Trichloroethene	ug/L	ND	4000	3950	99	71-149	
Vinyl chloride	ug/L	ND	4000	4380	109	22-146	
Xylene (Total)	ug/L	ND	12000	11300	94	37-144	N2
1,2-Dichloroethane-d4 (S)	%				104	80-120	
4-Bromofluorobenzene (S)	%				96	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-230

Pace Project No.: 60163872

MATRIX SPIKE SAMPLE:		1336805					
Parameter	Units	60163872001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S) Preservation pH	%	6.0	6.0	6.0	101	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-230
Pace Project No.: 60163872

QC Batch: OEXT/42936 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60163872001

METHOD BLANK: 1337803 Matrix: Water
Associated Lab Samples: 60163872001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	03/04/14 09:21	
2,4,6-Trichlorophenol	ug/L	ND	5.0	03/04/14 09:21	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	03/04/14 09:21	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	03/04/14 09:21	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	03/04/14 09:21	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	03/04/14 09:21	
Hexachlorocyclopentadiene	ug/L	ND	5.0	03/04/14 09:21	
Hexachloroethane	ug/L	ND	5.0	03/04/14 09:21	
Naphthalene	ug/L	ND	5.0	03/04/14 09:21	
Nitrobenzene	ug/L	ND	5.0	03/04/14 09:21	
Pentachlorophenol	ug/L	ND	5.0	03/04/14 09:21	
Phenol	ug/L	ND	5.0	03/04/14 09:21	
2,4,6-Tribromophenol (S)	%	69	39-120	03/04/14 09:21	
2-Fluorobiphenyl (S)	%	72	39-120	03/04/14 09:21	
2-Fluorophenol (S)	%	40	17-120	03/04/14 09:21	
Nitrobenzene-d5 (S)	%	73	33-120	03/04/14 09:21	
Phenol-d6 (S)	%	27	11-120	03/04/14 09:21	
Terphenyl-d14 (S)	%	69	45-120	03/04/14 09:21	

LABORATORY CONTROL SAMPLE: 1337804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	35.1	70	46-120	
2,4,6-Trichlorophenol	ug/L	50	36.9	74	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	23.1	46		N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	20.1	40		N2
4,6-Dinitro-2-methylphenol	ug/L	50	37.7	75	40-133	
Hexachloro-1,3-butadiene	ug/L	50	34.1	68	44-116	
Hexachlorocyclopentadiene	ug/L	100	70.7	71	24-120	
Hexachloroethane	ug/L	50	33.4	67	43-113	
Naphthalene	ug/L	50	34.3	69	48-120	
Nitrobenzene	ug/L	50	38.3	77	48-120	
Pentachlorophenol	ug/L	50	37.3	75	47-120	
Phenol	ug/L	50	10.7	21	16-112	
2,4,6-Tribromophenol (S)	%			71	39-120	
2-Fluorobiphenyl (S)	%			72	39-120	
2-Fluorophenol (S)	%			28	17-120	
Nitrobenzene-d5 (S)	%			75	33-120	
Phenol-d6 (S)	%			17	11-120	
Terphenyl-d14 (S)	%			71	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-230

Pace Project No.: 60163872

MATRIX SPIKE SAMPLE:		1337805					
Parameter	Units	60163872001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3440	69	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	3840	77	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	3770	75		N2
3&4-Methylphenol(m&p Cresol)	ug/L	9160	5000	13600	88		N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	3590J	72	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3550	71	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	7280	73	11-120	
Hexachloroethane	ug/L	ND	5000	3770	75	40-113	
Naphthalene	ug/L	2470	5000	5830	67	45-120	
Nitrobenzene	ug/L	ND	5000	9260	185	38-120	M1
Pentachlorophenol	ug/L	ND	5000	3870	77	43-135	
Phenol	ug/L	13500	5000	17400	77	13-112	
2,4,6-Tribromophenol (S)	%				75	39-120	
2-Fluorobiphenyl (S)	%				74	39-120	
2-Fluorophenol (S)	%				39	17-120	
Nitrobenzene-d5 (S)	%				193	33-120	SO
Phenol-d6 (S)	%				28	11-120	
Terphenyl-d14 (S)	%				67	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-230

Pace Project No.: 60163872

QC Batch: WET/46523

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60163872001

METHOD BLANK: 1339557

Matrix: Water

Associated Lab Samples: 60163872001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	03/06/14 13:50	

LABORATORY CONTROL SAMPLE: 1339558

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: 1339559

Parameter	Units	60163872001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	1260	160	1640	241	78-114	M1

SAMPLE DUPLICATE: 1339560

Parameter	Units	60164139001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	39.8	38.4	4	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-230

Pace Project No.: 60163872

QC Batch:	WET/46524	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60163872001		

METHOD BLANK: 1339561 Matrix: Water
Associated Lab Samples: 60163872001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	03/06/14 13:52	

LABORATORY CONTROL SAMPLE: 1339562

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	19.2	96	64-132	

MATRIX SPIKE SAMPLE: 1339563

Parameter	Units	60163872001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	41.2	80	114	92	64-132	

SAMPLE DUPLICATE: 1339564

Parameter	Units	60164139001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	22.8	20.4	11	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-230

Pace Project No.: 60163872

QC Batch: WET/46480

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60163872001

METHOD BLANK: 1338632

Matrix: Water

Associated Lab Samples: 60163872001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	03/05/14 14:31	

SAMPLE DUPLICATE: 1338633

Parameter	Units	60163855001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	35.0	41.0	16	10	D6

SAMPLE DUPLICATE: 1338635

Parameter	Units	60163872001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2500	2720	8	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-230

Pace Project No.: 60163872

QC Batch: WET/46418

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Associated Lab Samples: 60163872001

SAMPLE DUPLICATE: 1337766

Parameter	Units	60163872001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.2	5.2	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-230

Pace Project No.: 60163872

QC Batch: WET/46398

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60163872001

METHOD BLANK: 1336776

Matrix: Water

Associated Lab Samples: 60163872001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	03/05/14 16:02	

LABORATORY CONTROL SAMPLE: 1336777

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	171	86	85-115	

SAMPLE DUPLICATE: 1336778

Parameter	Units	60163774003 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	15.2	18.1	18	17	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-230

Pace Project No.: 60163872

QC Batch:	WETA/28460	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60163872001		

METHOD BLANK: 1338785 Matrix: Water
Associated Lab Samples: 60163872001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	03/05/14 16:10	

LABORATORY CONTROL SAMPLE: 1338786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.2	109	90-110	

MATRIX SPIKE SAMPLE: 1338787

Parameter	Units	60163866002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.9	94	90-110	

MATRIX SPIKE SAMPLE: 1338788

Parameter	Units	60163867005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.0	100	90-110	

SAMPLE DUPLICATE: 1338789

Parameter	Units	60163872001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	696	715	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-230

Pace Project No.: 60163872

QC Batch:	WETA/28448	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60163872001		

METHOD BLANK: 1338650 Matrix: Water
Associated Lab Samples: 60163872001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	03/06/14 13:31	

LABORATORY CONTROL SAMPLE: 1338651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	50.3	101	90-110	

MATRIX SPIKE SAMPLE: 1338652

Parameter	Units	60163585001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	6370	5000	11300	99	90-110	

MATRIX SPIKE SAMPLE: 1338654

Parameter	Units	60163765001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	72100	25000	104000	128	90-110	M1

SAMPLE DUPLICATE: 1339153

Parameter	Units	60163872001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	62200	63200	2	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-230

Pace Project No.: 60163872

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.
- R1 RPD value was outside control limits.
- S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-230

Pace Project No.: 60163872

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60163872001	316-230	EPA 200.7	MPRP/26342	EPA 200.7	ICP/20103
60163872001	316-230	EPA 200.7	MPRP/26322	EPA 200.7	ICP/20087
60163872001	316-230	EPA 245.1	MERP/8189	EPA 245.1	MERC/8145
60163872001	316-230	EPA 245.1	MERP/8192	EPA 245.1	MERC/8146
60163872001	316-230	EPA 625	OEXT/42936	EPA 625	MSSV/13678
60163872001	316-230	EPA 624 Low	MSV/59707		
60163872002	TRIP BLANK	EPA 624 Low	MSV/59707		
60163872001	316-230	EPA 1664A	WET/46523		
60163872001	316-230	EPA 1664A	WET/46524		
60163872001	316-230	SM 2540D	WET/46480		
60163872001	316-230	SM 4500-H+B	WET/46418		
60163872001	316-230	SM 5210B	WET/46398	SM 5210B	WET/46551
60163872001	316-230	EPA 350.1	WETA/28460		
60163872001	316-230	EPA 410.4	WETA/28448		

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Sample Condition Upon Receipt

WO#: 60163872



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 2 PIC

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

Cooler Temperature: 7.8

Temperature should be above freezing to 6°C

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: <u>JV 2/28/14</u>

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>PH 8.0</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Exceptions: <u>VOA</u> , coliform, TOC, <u>D&G</u> , WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased): <u>11113-3</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MO</u>

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 2/28/14

March 10, 2014

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

RE: Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60163946

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 28, 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 03/10/14 to include headspace presence comment for total volatile analyses 60163946001.

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 UNTREATED COMMINGLED

Pace Project No.: 60163946

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163946

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60163946001	TCLP 02-27	Water	02/27/14 11:40	02/28/14 15:23
60163946002	TRIP BLANK	Water	02/27/14 11:40	02/28/14 15:23

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SAMPLE ANALYTE COUNT

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163946

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60163946001	TCLP 02-27	EPA 8260	PRG	13
		EPA 5030B/8260	PRG	28
		EPA 1664A	DJR	1
		SM 2540B	JMC1	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163946

Sample: TCLP 02-27 **Lab ID: 60163946001** Collected: 02/27/14 11:40 Received: 02/28/14 15:23 Matrix: Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
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8260 MSV TCLP Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 03/06/14 00:00

Benzene	1530	ug/L	250	500	5		03/07/14 10:52	71-43-2	
2-Butanone (MEK)	86100	ug/L	20000	200000	20		03/07/14 11:49	78-93-3	
Carbon tetrachloride	ND	ug/L	250	500	5		03/07/14 10:52	56-23-5	
Chlorobenzene	ND	ug/L	250	100000	5		03/07/14 10:52	108-90-7	
Chloroform	ND	ug/L	1000	6000	5		03/07/14 10:52	67-66-3	
1,2-Dichloroethane	ND	ug/L	250	500	5		03/07/14 10:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	250	700	5		03/07/14 10:52	75-35-4	
Tetrachloroethene	ND	ug/L	250	700	5		03/07/14 10:52	127-18-4	
Trichloroethene	ND	ug/L	250	500	5		03/07/14 10:52	79-01-6	
Vinyl chloride	ND	ug/L	100	200	5		03/07/14 10:52	75-01-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	105	%	80-120		5		03/07/14 10:52	17060-07-0	
Toluene-d8 (S)	97	%	80-120		5		03/07/14 10:52	2037-26-5	
4-Bromofluorobenzene (S)	103	%	80-120		5		03/07/14 10:52	460-00-4	

8260 MSV Analytical Method: EPA 5030B/8260

Acetone	159000	ug/L	2000		200		03/07/14 11:35	67-64-1	L1,SS
Benzene	2100	ug/L	200		200		03/07/14 11:35	71-43-2	
Bromodichloromethane	ND	ug/L	200		200		03/07/14 11:35	75-27-4	
Bromoform	ND	ug/L	200		200		03/07/14 11:35	75-25-2	
Bromomethane	ND	ug/L	1000		200		03/07/14 11:35	74-83-9	
2-Butanone (MEK)	87400	ug/L	2000		200		03/07/14 11:35	78-93-3	
Carbon tetrachloride	ND	ug/L	200		200		03/07/14 11:35	56-23-5	
Chloroethane	ND	ug/L	200		200		03/07/14 11:35	75-00-3	
Chloroform	ND	ug/L	200		200		03/07/14 11:35	67-66-3	
1,4-Dichlorobenzene	1170	ug/L	200		200		03/07/14 11:35	106-46-7	
1,2-Dichloroethane	ND	ug/L	200		200		03/07/14 11:35	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200		200		03/07/14 11:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	200		200		03/07/14 11:35	156-60-5	
Ethylbenzene	496	ug/L	200		200		03/07/14 11:35	100-41-4	
Methylene chloride	ND	ug/L	200		200		03/07/14 11:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	3510	ug/L	2000		200		03/07/14 11:35	108-10-1	
1,1,1,2-Tetrachloroethane	ND	ug/L	200		200		03/07/14 11:35	79-34-5	
Tetrachloroethene	ND	ug/L	200		200		03/07/14 11:35	127-18-4	
Toluene	654	ug/L	200		200		03/07/14 11:35	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200		200		03/07/14 11:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200		200		03/07/14 11:35	79-00-5	
Trichloroethene	ND	ug/L	200		200		03/07/14 11:35	79-01-6	
Vinyl chloride	ND	ug/L	200		200		03/07/14 11:35	75-01-4	
Xylene (Total)	1690	ug/L	600		200		03/07/14 11:35	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	80-120		200		03/07/14 11:35	460-00-4	HS
1,2-Dichloroethane-d4 (S)	110	%	80-120		200		03/07/14 11:35	17060-07-0	
Toluene-d8 (S)	99	%	80-120		200		03/07/14 11:35	2037-26-5	
Preservation pH	6.0		0.10		200		03/07/14 11:35		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163946

Sample: TCLP 02-27		Lab ID: 60163946001	Collected: 02/27/14 11:40	Received: 02/28/14 15:23	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	2230	mg/L	5.0		1		03/06/14 13:51		
2540B Total Solids		Analytical Method: SM 2540B							
Total Solids	59000	mg/L	5.0		1		03/06/14 16:19		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163946

QC Batch: MSV/59855 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 60163946001

METHOD BLANK: 1339960 Matrix: Water
Associated Lab Samples: 60163946001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	03/07/14 09:54	
1,2-Dichloroethane	ug/L	ND	50.0	03/07/14 09:54	
2-Butanone (MEK)	ug/L	ND	1000	03/07/14 09:54	
Benzene	ug/L	ND	50.0	03/07/14 09:54	
Carbon tetrachloride	ug/L	ND	50.0	03/07/14 09:54	
Chlorobenzene	ug/L	ND	50.0	03/07/14 09:54	
Chloroform	ug/L	ND	200	03/07/14 09:54	
Tetrachloroethene	ug/L	ND	50.0	03/07/14 09:54	
Trichloroethene	ug/L	ND	50.0	03/07/14 09:54	
Vinyl chloride	ug/L	ND	20.0	03/07/14 09:54	
1,2-Dichloroethane-d4 (S)	%	99	80-120	03/07/14 09:54	
4-Bromofluorobenzene (S)	%	97	80-120	03/07/14 09:54	
Toluene-d8 (S)	%	105	80-120	03/07/14 09:54	

LABORATORY CONTROL SAMPLE: 1339961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	200	204	102	78-126	
1,2-Dichloroethane	ug/L	200	207	104	77-123	
2-Butanone (MEK)	ug/L	1000	1270	127	52-145	
Benzene	ug/L	200	203	102	80-120	
Carbon tetrachloride	ug/L	200	198	99	78-128	
Chlorobenzene	ug/L	200	196	98	80-120	
Chloroform	ug/L	200	195J	97	79-120	
Tetrachloroethene	ug/L	200	193	96	80-121	
Trichloroethene	ug/L	200	194	97	80-120	
Vinyl chloride	ug/L	200	199	100	59-120	
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1339962

Parameter	Units	60164056001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	200	216	108	60-144	
1,2-Dichloroethane	ug/L	ND	200	191	95	49-148	
2-Butanone (MEK)	ug/L	ND	1000	883J	84	36-145	
Benzene	ug/L	ND	200	221	96	37-157	
Carbon tetrachloride	ug/L	ND	200	208	104	68-142	
Chlorobenzene	ug/L	ND	200	186	93	66-133	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163946

MATRIX SPIKE SAMPLE:		1339962		60164056001		Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Limits				
Chloroform	ug/L	ND	200	191J	95	66-127				
Tetrachloroethene	ug/L	ND	200	197	99	69-133				
Trichloroethene	ug/L	ND	200	180	89	61-135				
Vinyl chloride	ug/L	ND	200	204	102	44-128				
1,2-Dichloroethane-d4 (S)	%				110	80-120				
4-Bromofluorobenzene (S)	%				99	80-120				
Toluene-d8 (S)	%				101	80-120				

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163946

QC Batch:	MSV/59858	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
Associated Lab Samples:	60163946001		

METHOD BLANK: 1339993 Matrix: Water

Associated Lab Samples: 60163946001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	03/07/14 09:37	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/07/14 09:37	
1,1,2-Trichloroethane	ug/L	ND	1.0	03/07/14 09:37	
1,2-Dichloroethane	ug/L	ND	1.0	03/07/14 09:37	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/07/14 09:37	
2-Butanone (MEK)	ug/L	ND	10.0	03/07/14 09:37	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	03/07/14 09:37	
Acetone	ug/L	ND	10.0	03/07/14 09:37	
Benzene	ug/L	ND	1.0	03/07/14 09:37	
Bromodichloromethane	ug/L	ND	1.0	03/07/14 09:37	
Bromoform	ug/L	ND	1.0	03/07/14 09:37	
Bromomethane	ug/L	ND	5.0	03/07/14 09:37	
Carbon tetrachloride	ug/L	ND	1.0	03/07/14 09:37	
Chloroethane	ug/L	ND	1.0	03/07/14 09:37	
Chloroform	ug/L	ND	1.0	03/07/14 09:37	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/07/14 09:37	
Ethylbenzene	ug/L	ND	1.0	03/07/14 09:37	
Methylene chloride	ug/L	ND	1.0	03/07/14 09:37	
Tetrachloroethene	ug/L	ND	1.0	03/07/14 09:37	
Toluene	ug/L	ND	1.0	03/07/14 09:37	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/07/14 09:37	
Trichloroethene	ug/L	ND	1.0	03/07/14 09:37	
Vinyl chloride	ug/L	ND	1.0	03/07/14 09:37	
Xylene (Total)	ug/L	ND	3.0	03/07/14 09:37	
1,2-Dichloroethane-d4 (S)	%	110	80-120	03/07/14 09:37	
4-Bromofluorobenzene (S)	%	102	80-120	03/07/14 09:37	
Toluene-d8 (S)	%	100	80-120	03/07/14 09:37	

LABORATORY CONTROL SAMPLE: 1339994

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.2	101	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	21.3	107	73-124	
1,1,2-Trichloroethane	ug/L	20	20.2	101	80-120	
1,2-Dichloroethane	ug/L	20	20.7	104	77-123	
1,4-Dichlorobenzene	ug/L	20	19.9	100	80-120	
2-Butanone (MEK)	ug/L	100	127	127	52-145	
4-Methyl-2-pentanone (MIBK)	ug/L	100	107	107	71-131	
Acetone	ug/L	100	175	175	32-155 L0	
Benzene	ug/L	20	20.3	102	80-120	
Bromodichloromethane	ug/L	20	20.7	103	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163946

LABORATORY CONTROL SAMPLE: 1339994

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.8	99	73-124	
Bromomethane	ug/L	20	20.2	101	31-144	
Carbon tetrachloride	ug/L	20	19.8	99	78-128	
Chloroethane	ug/L	20	20.5	102	55-137	
Chloroform	ug/L	20	19.5	97	79-120	
cis-1,2-Dichloroethene	ug/L	20	21.6	108	80-120	
Ethylbenzene	ug/L	20	19.4	97	80-121	
Methylene chloride	ug/L	20	21.2	106	73-126	
Tetrachloroethene	ug/L	20	19.3	96	80-121	
Toluene	ug/L	20	20.6	103	80-122	
trans-1,2-Dichloroethene	ug/L	20	20.7	103	79-121	
Trichloroethene	ug/L	20	19.4	97	80-120	
Vinyl chloride	ug/L	20	19.9	100	59-120	
Xylene (Total)	ug/L	60	60.1	100	80-121	
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			100	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163946

QC Batch: WET/46523

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60163946001

METHOD BLANK: 1339557

Matrix: Water

Associated Lab Samples: 60163946001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	03/06/14 13:50	

LABORATORY CONTROL SAMPLE: 1339558

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: 1339559

Parameter	Units	60163872001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	1260	160	1640	241	78-114	M1

SAMPLE DUPLICATE: 1339560

Parameter	Units	60164139001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	39.8	38.4	4	18	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163946

QC Batch: WET/46520

Analysis Method: SM 2540B

QC Batch Method: SM 2540B

Analysis Description: 2540B Total Solids

Associated Lab Samples: 60163946001

METHOD BLANK: 1339466

Matrix: Water

Associated Lab Samples: 60163946001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	5.0	03/06/14 16:18	

LABORATORY CONTROL SAMPLE: 1339467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	1000	996	100	80-120	

SAMPLE DUPLICATE: 1339469

Parameter	Units	60164099001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	16300	16400	0	10	

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QUALIFIERS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163946

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/59858

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

ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

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

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

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

SS This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60163946

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60163946001	TCLP 02-27	EPA 8260	MSV/59855		
60163946001	TCLP 02-27	EPA 5030B/8260	MSV/59858		
60163946001	TCLP 02-27	EPA 1664A	WET/46523		
60163946001	TCLP 02-27	SM 2540B	WET/46520		

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Sample Condition Upon Receipt

WO#: 60163946



Client Name: Barr

Courier: Fed Ex UPS USPS Client Commercial Pace Other road

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 2PIC

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

Cooler Temperature: 4.2

Date and initials of person examining contents: PV 2/26/14

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Includes date/time/ID/analyses Matrix:	<u>WT</u>	13.
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Exceptions: <u>VOA</u> coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased): <u>020314-3</u>		15.
Headspace in VOA vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16. <u>3 of 3 D694 have headspace.</u>
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MO</u>

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: [Signature]

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		REGULATORY AGENCY	
		DANA BAKER/MARGARET TREANOR-BARR		Address: BRIDGETON, MO 63044		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____	
Email To:		Purchase Order No.: PO 3727110		Pace Quote Reference:		Site Location	
Phone:		Project Name: BRIDGETON UNTREATED COMMINGLED		Pace Project Manager: Angie Brown 913-563-1402		MO	
Requested Due Date/TAT:		Project Number:		Pace Profile #: PROFILE 6787-LINE 6		STATE:	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.		
			COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	8260 Volatiles **	TCLP Volatiles *					Total Solids/water matrix	Oil and Grease
			DATE	TIME	DATE	TIME																		
1	TCLP 02-27		G	02/27/14	1140																	** total VOCs Bridgeton List		
2																						* footnote %dry solids TCLP		
3																						2064HTB		
4																						as		
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Paul Unsworth/Fe1	02-27-14	4:06 PM	T. Fain 798	02-27-14	4:06 PM	
				PM PAST	2/28/14	0105	4.2 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:					
SIGNATURE of SAMPLER: <i>John Powell</i>					
DATE Signed (MM/DD/YY): 02-27-14					

TCLP/SPLP Determination of Percent Solids
 (Only if sample is liquid or semi-liquid. Skip if sample is obviously 100% solid.)



Date: 3/5/14
 Analyst: CEM

Batch: 6180
 Balance ID: 600053 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)
601639 46001	122.0	239.8	200.8	1.3	122.8	395.8	3.2	115.0	117.0	1.7%	1.3	1.1	Ø	Yes / No / NA
CEM 3/6/14														
														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

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 = $\frac{\text{mL of leachate required}}{20 \times \text{Percent solids}} \times 100$

March 10, 2014

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

RE: Project: BRIDGETON LF 320-MSD
Pace Project No.: 60163973

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on March 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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 320-MSD

Pace Project No.: 60163973

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 320-MSD

Pace Project No.: 60163973

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60163973001	320-MSD	Water	02/28/14 14:00	03/01/14 01:10
60163973002	TRIP BLANK	Water	02/28/14 08:00	03/01/14 01:10

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 320-MSD

Pace Project No.: 60163973

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60163973001	320-MSD	EPA 200.7	SMW	15
		EPA 200.7	TJT	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC1	1
		SM 4500-H+B	DJR	1
		SM 5210B	RAH	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60163973002	TRIP BLANK	EPA 624 Low

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ANALYTICAL RESULTS

Project: BRIDGETON LF 320-MSD

Pace Project No.: 60163973

Sample: 320-MSD		Lab ID: 60163973001	Collected: 02/28/14 14:00	Received: 03/01/14 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	9620 ug/L		750	2	03/06/14 10:20	03/07/14 11:55	7429-90-5	
Antimony	ND	ug/L	100	2	03/06/14 10:20	03/07/14 11:55	7440-36-0	D3
Arsenic	1240 ug/L		50.0	1	03/06/14 10:20	03/07/14 11:52	7440-38-2	
Beryllium	ND	ug/L	5.0	1	03/06/14 10:20	03/07/14 11:52	7440-41-7	
Cadmium	ND	ug/L	25.0	1	03/06/14 10:20	03/07/14 11:52	7440-43-9	
Chromium	321 ug/L		25.0	1	03/06/14 10:20	03/07/14 11:52	7440-47-3	
Cobalt	47.2 ug/L		25.0	1	03/06/14 10:20	03/07/14 11:52	7440-48-4	
Copper	420 ug/L		50.0	1	03/06/14 10:20	03/07/14 11:52	7440-50-8	
Iron	807000 ug/L		250	1	03/06/14 10:20	03/07/14 11:52	7439-89-6	
Lead	140 ug/L		25.0	1	03/06/14 10:20	03/07/14 11:52	7439-92-1	
Nickel	124 ug/L		25.0	1	03/06/14 10:20	03/07/14 11:52	7440-02-0	
Selenium	ND	ug/L	75.0	1	03/06/14 10:20	03/07/14 11:52	7782-49-2	
Silver	ND	ug/L	35.0	1	03/06/14 10:20	03/07/14 11:52	7440-22-4	
Thallium	ND	ug/L	100	1	03/06/14 10:20	03/07/14 11:52	7440-28-0	
Zinc	4430 ug/L		500	2	03/06/14 10:20	03/07/14 11:55	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	2560 ug/L		750	2	03/04/14 13:45	03/05/14 13:22	7429-90-5	
Antimony, Dissolved	56.6 ug/L		50.0	1	03/04/14 13:45	03/05/14 13:20	7440-36-0	D3
Arsenic, Dissolved	946 ug/L		50.0	1	03/04/14 13:45	03/05/14 13:20	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	03/04/14 13:45	03/05/14 13:20	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	03/04/14 13:45	03/05/14 13:20	7440-43-9	
Chromium, Dissolved	225 ug/L		25.0	1	03/04/14 13:45	03/05/14 13:20	7440-47-3	
Cobalt, Dissolved	ND	ug/L	25.0	1	03/04/14 13:45	03/05/14 13:20	7440-48-4	
Copper, Dissolved	71.0 ug/L		50.0	1	03/04/14 13:45	03/05/14 13:20	7440-50-8	
Iron, Dissolved	546000 ug/L		250	1	03/04/14 13:45	03/05/14 13:20	7439-89-6	
Lead, Dissolved	60.5 ug/L		25.0	1	03/04/14 13:45	03/05/14 13:20	7439-92-1	
Nickel, Dissolved	69.4 ug/L		25.0	1	03/04/14 13:45	03/05/14 13:20	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	03/04/14 13:45	03/05/14 13:20	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	03/04/14 13:45	03/05/14 13:20	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	03/04/14 13:45	03/05/14 13:20	7440-28-0	
Zinc, Dissolved	3250 ug/L		500	2	03/04/14 13:45	03/05/14 13:22	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	7.3 ug/L		6.0	1	03/03/14 10:00	03/04/14 10:36	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND	ug/L	0.20	1	03/04/14 10:00	03/04/14 12:35	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	03/06/14 00:00	03/07/14 15:14	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	03/06/14 00:00	03/07/14 15:14	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	03/06/14 00:00	03/07/14 15:14	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	03/06/14 00:00	03/07/14 15:14	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	2	03/06/14 00:00	03/07/14 15:14	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	6740 ug/L		4000	2	03/06/14 00:00	03/07/14 15:14		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 320-MSD

Pace Project No.: 60163973

Sample: 320-MSD		Lab ID: 60163973001	Collected: 02/28/14 14:00	Received: 03/01/14 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						
Naphthalene	ND ug/L		1000	2	03/06/14 00:00	03/07/14 15:14	91-20-3	
Nitrobenzene	ND ug/L		1000	2	03/06/14 00:00	03/07/14 15:14	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	03/06/14 00:00	03/07/14 15:14	87-86-5	
Phenol	7230 ug/L		1000	2	03/06/14 00:00	03/07/14 15:14	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	03/06/14 00:00	03/07/14 15:14	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	03/06/14 00:00	03/07/14 15:14	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	112 %		33-120	2	03/06/14 00:00	03/07/14 15:14	4165-60-0	
2-Fluorobiphenyl (S)	81 %		39-120	2	03/06/14 00:00	03/07/14 15:14	321-60-8	
Terphenyl-d14 (S)	91 %		45-120	2	03/06/14 00:00	03/07/14 15:14	1718-51-0	
Phenol-d6 (S)	35 %		11-120	2	03/06/14 00:00	03/07/14 15:14	13127-88-3	
2-Fluorophenol (S)	37 %		17-120	2	03/06/14 00:00	03/07/14 15:14	367-12-4	
2,4,6-Tribromophenol (S)	85 %		39-120	2	03/06/14 00:00	03/07/14 15:14	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	216000 ug/L		2500	250		03/07/14 15:32	67-64-1	N2
Benzene	ND ug/L		100	100		03/03/14 17:30	71-43-2	
Bromodichloromethane	ND ug/L		100	100		03/03/14 17:30	75-27-4	
Bromoform	ND ug/L		100	100		03/03/14 17:30	75-25-2	
Bromomethane	ND ug/L		500	100		03/03/14 17:30	74-83-9	
2-Butanone (MEK)	117000 ug/L		2500	250		03/07/14 15:32	78-93-3	N2
Carbon tetrachloride	ND ug/L		100	100		03/03/14 17:30	56-23-5	
Chloroethane	ND ug/L		100	100		03/03/14 17:30	75-00-3	
Chloroform	ND ug/L		100	100		03/03/14 17:30	67-66-3	
1,4-Dichlorobenzene	276 ug/L		100	100		03/03/14 17:30	106-46-7	
1,2-Dichloroethane	ND ug/L		100	100		03/03/14 17:30	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		100	100		03/03/14 17:30	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		100	100		03/03/14 17:30	156-60-5	
Ethylbenzene	ND ug/L		100	100		03/03/14 17:30	100-41-4	
Methylene chloride	ND ug/L		100	100		03/03/14 17:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	5880 ug/L		1000	100		03/03/14 17:30	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		100	100		03/03/14 17:30	79-34-5	N2
Tetrachloroethene	ND ug/L		100	100		03/03/14 17:30	127-18-4	
Toluene	ND ug/L		100	100		03/03/14 17:30	108-88-3	
1,1,1-Trichloroethane	ND ug/L		100	100		03/03/14 17:30	71-55-6	
1,1,2-Trichloroethane	ND ug/L		100	100		03/03/14 17:30	79-00-5	
Trichloroethene	ND ug/L		100	100		03/03/14 17:30	79-01-6	
Vinyl chloride	ND ug/L		100	100		03/03/14 17:30	75-01-4	
Xylene (Total)	ND ug/L		300	100		03/03/14 17:30	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	100		03/03/14 17:30	460-00-4	
Toluene-d8 (S)	101 %		80-120	100		03/03/14 17:30	2037-26-5	
1,2-Dichloroethane-d4 (S)	107 %		80-120	100		03/03/14 17:30	17060-07-0	
Preservation pH	6.0		1.0	100		03/03/14 17:30		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	966 mg/L		5.0	1		03/06/14 15:57		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 320-MSD

Pace Project No.: 60163973

Sample: 320-MSD		Lab ID: 60163973001	Collected: 02/28/14 14:00	Received: 03/01/14 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	16.8	mg/L	5.0	1		03/10/14 07:06		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	2380	mg/L	5.0	1		03/05/14 16:19		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4	Std. Units	0.10	1		03/03/14 06:50		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	32100	mg/L	2.0	1	03/01/14 11:30	03/06/14 16:50		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	683	mg/L	20.0	200		03/05/14 16:40	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	50300	mg/L	5000	500		03/10/14 14:23		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 320-MSD

Pace Project No.: 60163973

Sample: TRIP BLANK		Lab ID: 60163973002	Collected: 02/28/14 08:00	Received: 03/01/14 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		03/03/14 16:58	67-64-1	N2
Benzene	ND ug/L		1.0	1		03/03/14 16:58	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		03/03/14 16:58	75-27-4	
Bromoform	ND ug/L		1.0	1		03/03/14 16:58	75-25-2	
Bromomethane	ND ug/L		5.0	1		03/03/14 16:58	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		03/03/14 16:58	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		03/03/14 16:58	56-23-5	
Chloroethane	ND ug/L		1.0	1		03/03/14 16:58	75-00-3	
Chloroform	ND ug/L		1.0	1		03/03/14 16:58	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		03/03/14 16:58	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		03/03/14 16:58	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		03/03/14 16:58	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		03/03/14 16:58	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		03/03/14 16:58	100-41-4	
Methylene chloride	ND ug/L		1.0	1		03/03/14 16:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		03/03/14 16:58	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		03/03/14 16:58	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		03/03/14 16:58	127-18-4	
Toluene	ND ug/L		1.0	1		03/03/14 16:58	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		03/03/14 16:58	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		03/03/14 16:58	79-00-5	
Trichloroethene	ND ug/L		1.0	1		03/03/14 16:58	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		03/03/14 16:58	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		03/03/14 16:58	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101 %		80-120	1		03/03/14 16:58	460-00-4	
Toluene-d8 (S)	99 %		80-120	1		03/03/14 16:58	2037-26-5	
1,2-Dichloroethane-d4 (S)	98 %		80-120	1		03/03/14 16:58	17060-07-0	
Preservation pH	6.0		1.0	1		03/03/14 16:58		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 320-MSD
Pace Project No.: 60163973

QC Batch: MERP/8189 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 60163973001

METHOD BLANK: 1337876 Matrix: Water
Associated Lab Samples: 60163973001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	03/04/14 09:58	

LABORATORY CONTROL SAMPLE: 1337877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.5	110	85-115	

MATRIX SPIKE SAMPLE: 1337878

Parameter	Units	60163654001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	150	151	100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1337921 1337922

Parameter	Units	60163872001 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	151	112	99	73	70-130	30	20	R1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 320-MSD

Pace Project No.: 60163973

QC Batch:	MERP/8192	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60163973001		

METHOD BLANK: 1338296 Matrix: Water
Associated Lab Samples: 60163973001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	03/04/14 12:11	

LABORATORY CONTROL SAMPLE: 1338297

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.4	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1338298 1338299

Parameter	Units	60163872001		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	ND	Spike Conc.	Conc.	Result	Result	% Rec	% Rec					
Mercury, Dissolved	ug/L	ND	5	5	5.0	5.2	98	103	70-130	5	20			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 320-MSD
Pace Project No.: 60163973

QC Batch: MPRP/26342 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60163973001

METHOD BLANK: 1339299 Matrix: Water
Associated Lab Samples: 60163973001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	03/07/14 11:15	
Antimony	ug/L	ND	10.0	03/07/14 11:15	
Arsenic	ug/L	ND	10.0	03/07/14 11:15	
Beryllium	ug/L	ND	1.0	03/07/14 11:15	
Cadmium	ug/L	ND	5.0	03/07/14 11:15	
Chromium	ug/L	ND	5.0	03/07/14 11:15	
Cobalt	ug/L	ND	5.0	03/07/14 11:15	
Copper	ug/L	ND	10.0	03/07/14 11:15	
Iron	ug/L	ND	50.0	03/07/14 11:15	
Lead	ug/L	ND	5.0	03/07/14 11:15	
Nickel	ug/L	ND	5.0	03/07/14 11:15	
Selenium	ug/L	ND	15.0	03/07/14 11:15	
Silver	ug/L	ND	7.0	03/07/14 11:15	
Thallium	ug/L	ND	20.0	03/07/14 11:15	
Zinc	ug/L	ND	50.0	03/07/14 11:15	

LABORATORY CONTROL SAMPLE: 1339300

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10400	104	85-115	
Antimony	ug/L	1000	1030	103	85-115	
Arsenic	ug/L	1000	1020	102	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1020	102	85-115	
Chromium	ug/L	1000	1070	107	85-115	
Cobalt	ug/L	1000	1060	106	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	10600	106	85-115	
Lead	ug/L	1000	1070	107	85-115	
Nickel	ug/L	1000	1070	107	85-115	
Selenium	ug/L	1000	1030	103	85-115	
Silver	ug/L	500	505	101	85-115	
Thallium	ug/L	1000	1060	106	85-115	
Zinc	ug/L	1000	1070	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1339301 1339302

Parameter	Units	60163872001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum	ug/L	8590	50000	50000	65200	67100	113	117	70-130	3	8		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 320-MSD

Pace Project No.: 60163973

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1339301												1339302											
Parameter	Units	60163872001		MS	MSD	MS		MSD		% Rec		Max		Qual									
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD											
Antimony	ug/L	ND	5000	5000	5000	5320	5470	106	109	70-130	3	7											
Arsenic	ug/L	1430	5000	5000	5000	6940	6980	110	111	70-130	1	10											
Beryllium	ug/L	ND	5000	5000	5000	4600	4570	92	91	70-130	1	7											
Cadmium	ug/L	ND	5000	5000	5000	5300	5290	106	106	70-130	0	10											
Chromium	ug/L	378	5000	5000	5000	5340	5340	99	99	70-130	0	10											
Cobalt	ug/L	75.4	5000	5000	5000	4770	4750	94	93	70-130	0	6											
Copper	ug/L	ND	5000	5000	5000	5360	5340	106	106	70-130	0	11											
Iron	ug/L	1160000	50000	50000	50000	1130000	1160000	-57	-8	70-130	2	10 M1											
Lead	ug/L	216	5000	5000	5000	4630	4600	88	88	70-130	0	10											
Nickel	ug/L	174	5000	5000	5000	4780	4750	92	91	70-130	1	10											
Selenium	ug/L	ND	5000	5000	5000	6300	6300	125	125	70-130	0	10											
Silver	ug/L	ND	2500	2500	2500	2730	2710	109	108	70-130	1	10											
Thallium	ug/L	ND	5000	5000	5000	4030	3990	81	80	70-130	1	6											
Zinc	ug/L	10400	5000	5000	5000	14700	15300	86	98	70-130	4	11											

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1339303												1339304											
Parameter	Units	60164113001		MS	MSD	MS		MSD		% Rec		Max		Qual									
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD											
Aluminum	ug/L	26100	50000	50000	50000	94100	92800	136	134	70-130	1	8 M1											
Antimony	ug/L	ND	5000	5000	5000	5260	5160	104	102	70-130	2	7											
Arsenic	ug/L	1100	5000	5000	5000	6740	7190	113	122	70-130	7	10											
Beryllium	ug/L	ND	5000	5000	5000	4520	4530	90	91	70-130	0	7											
Cadmium	ug/L	ND	5000	5000	5000	5340	5740	107	114	70-130	7	10											
Chromium	ug/L	335	5000	5000	5000	5340	5380	100	101	70-130	1	10											
Cobalt	ug/L	72.2	5000	5000	5000	4820	5180	95	102	70-130	7	6 R1											
Copper	ug/L	54.7	5000	5000	5000	5340	5380	106	107	70-130	1	11											
Iron	ug/L	1000000	50000	50000	50000	1030000	1010000	57	16	70-130	2	10 M1											
Lead	ug/L	207	5000	5000	5000	4690	5020	90	96	70-130	7	10											
Nickel	ug/L	167	5000	5000	5000	4810	5160	93	100	70-130	7	10											
Selenium	ug/L	ND	5000	5000	5000	6250	6700	124	133	70-130	7	10 M1											
Silver	ug/L	ND	2500	2500	2500	2720	2740	109	109	70-130	1	10											
Thallium	ug/L	ND	5000	5000	5000	4070	4390	81	88	70-130	8	6 R1											
Zinc	ug/L	8420	5000	5000	5000	13100	12700	93	86	70-130	3	11											

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QUALITY CONTROL DATA

Project: BRIDGETON LF 320-MSD
Pace Project No.: 60163973

QC Batch: MPRP/26322 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60163973001

METHOD BLANK: 1338460 Matrix: Water
Associated Lab Samples: 60163973001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	03/05/14 12:47	
Antimony, Dissolved	ug/L	ND	10.0	03/05/14 12:47	
Arsenic, Dissolved	ug/L	ND	10.0	03/05/14 12:47	
Beryllium, Dissolved	ug/L	ND	1.0	03/05/14 12:47	
Cadmium, Dissolved	ug/L	ND	5.0	03/05/14 12:47	
Chromium, Dissolved	ug/L	ND	5.0	03/05/14 12:47	
Cobalt, Dissolved	ug/L	ND	5.0	03/05/14 12:47	
Copper, Dissolved	ug/L	ND	10.0	03/05/14 12:47	
Iron, Dissolved	ug/L	ND	50.0	03/05/14 12:47	
Lead, Dissolved	ug/L	ND	5.0	03/05/14 12:47	
Nickel, Dissolved	ug/L	ND	5.0	03/05/14 12:47	
Selenium, Dissolved	ug/L	ND	15.0	03/05/14 12:47	
Silver, Dissolved	ug/L	ND	7.0	03/05/14 12:47	
Thallium, Dissolved	ug/L	ND	20.0	03/05/14 12:47	
Zinc, Dissolved	ug/L	ND	50.0	03/05/14 12:47	

LABORATORY CONTROL SAMPLE: 1338461

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	1030	103	85-115	
Arsenic, Dissolved	ug/L	1000	996	100	85-115	
Beryllium, Dissolved	ug/L	1000	1030	103	85-115	
Cadmium, Dissolved	ug/L	1000	1020	102	85-115	
Chromium, Dissolved	ug/L	1000	1020	102	85-115	
Cobalt, Dissolved	ug/L	1000	1030	103	85-115	
Copper, Dissolved	ug/L	1000	1020	102	85-115	
Iron, Dissolved	ug/L	10000	10200	102	85-115	
Lead, Dissolved	ug/L	1000	1030	103	85-115	
Nickel, Dissolved	ug/L	1000	1050	105	85-115	
Selenium, Dissolved	ug/L	1000	1030	103	85-115	
Silver, Dissolved	ug/L	500	487	97	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1338462 1338463

Parameter	Units	60163872001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum, Dissolved	ug/L	3120	50000	50000	53400	54200	101	102	70-130	1	8		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 320-MSD

Pace Project No.: 60163973

Parameter	Units	60163872001		1338462		1338463		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Antimony, Dissolved	ug/L	ND	5000	5000	5400	5500	107	109	70-130	2	7			
Arsenic, Dissolved	ug/L	1070	5000	5000	6460	6480	108	108	70-130	0	10			
Beryllium, Dissolved	ug/L	ND	5000	5000	4960	5040	99	101	70-130	2	7			
Cadmium, Dissolved	ug/L	ND	5000	5000	5240	5330	105	107	70-130	2	10			
Chromium, Dissolved	ug/L	257	5000	5000	5240	5320	100	101	70-130	2	10			
Cobalt, Dissolved	ug/L	41.3	5000	5000	4830	4900	96	97	70-130	1	6			
Copper, Dissolved	ug/L	ND	5000	5000	5460	5610	109	112	70-130	3	11			
Iron, Dissolved	ug/L	788000	50000	50000	776000	742000	-26	-94	70-130	4	10	M1		
Lead, Dissolved	ug/L	84.7	5000	5000	4730	4780	93	94	70-130	1	10			
Nickel, Dissolved	ug/L	108	5000	5000	4930	4980	96	97	70-130	1	10			
Selenium, Dissolved	ug/L	ND	5000	5000	6040	6200	120	124	70-130	3	10			
Silver, Dissolved	ug/L	ND	2500	2500	2650	2690	106	108	70-130	2	10			
Thallium, Dissolved	ug/L	ND	5000	5000	4240	4290	85	86	70-130	1	6			
Zinc, Dissolved	ug/L	7490	5000	5000	11600	11300	83	77	70-130	3	11			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 320-MSD

Pace Project No.: 60163973

QC Batch: MSV/59745 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60163973001, 60163973002

METHOD BLANK: 1337916 Matrix: Water

Associated Lab Samples: 60163973001, 60163973002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	03/03/14 12:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/03/14 12:31	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	03/03/14 12:31	
1,2-Dichloroethane	ug/L	ND	1.0	03/03/14 12:31	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/03/14 12:31	
2-Butanone (MEK)	ug/L	ND	10.0	03/03/14 12:31	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	03/03/14 12:31	N2
Acetone	ug/L	ND	10.0	03/03/14 12:31	N2
Benzene	ug/L	ND	1.0	03/03/14 12:31	
Bromodichloromethane	ug/L	ND	1.0	03/03/14 12:31	
Bromoform	ug/L	ND	1.0	03/03/14 12:31	
Bromomethane	ug/L	ND	5.0	03/03/14 12:31	
Carbon tetrachloride	ug/L	ND	1.0	03/03/14 12:31	
Chloroethane	ug/L	ND	1.0	03/03/14 12:31	
Chloroform	ug/L	ND	1.0	03/03/14 12:31	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/03/14 12:31	N2
Ethylbenzene	ug/L	ND	1.0	03/03/14 12:31	
Methylene chloride	ug/L	ND	1.0	03/03/14 12:31	
Tetrachloroethene	ug/L	ND	1.0	03/03/14 12:31	
Toluene	ug/L	ND	1.0	03/03/14 12:31	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/03/14 12:31	
Trichloroethene	ug/L	ND	1.0	03/03/14 12:31	
Vinyl chloride	ug/L	ND	1.0	03/03/14 12:31	
Xylene (Total)	ug/L	ND	3.0	03/03/14 12:31	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	03/03/14 12:31	
4-Bromofluorobenzene (S)	%	102	80-120	03/03/14 12:31	
Toluene-d8 (S)	%	98	80-120	03/03/14 12:31	

LABORATORY CONTROL SAMPLE: 1337917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.9	95	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	21.5	107	67-127	N2
1,1,2-Trichloroethane	ug/L	20	20.2	101	67-124	
1,2-Dichloroethane	ug/L	20	20.4	102	70-126	
1,4-Dichlorobenzene	ug/L	20	20.1	101	74-120	
2-Butanone (MEK)	ug/L	100	108	108	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	100	100	59-131	N2
Acetone	ug/L	100	126	126	38-134	N2
Benzene	ug/L	20	19.5	98	75-120	
Bromodichloromethane	ug/L	20	20.0	100	68-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 320-MSD

Pace Project No.: 60163973

LABORATORY CONTROL SAMPLE: 1337917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.4	102	65-127	
Bromomethane	ug/L	20	18.1	90	13-157	
Carbon tetrachloride	ug/L	20	18.9	94	70-131	
Chloroethane	ug/L	20	15.3	77	47-133	
Chloroform	ug/L	20	17.4	87	65-127	
cis-1,2-Dichloroethene	ug/L	20	17.8	89	68-127	N2
Ethylbenzene	ug/L	20	19.7	99	74-122	
Methylene chloride	ug/L	20	18.3	92	64-129	
Tetrachloroethene	ug/L	20	19.1	96	73-125	
Toluene	ug/L	20	19.5	97	69-126	
trans-1,2-Dichloroethene	ug/L	20	17.7	89	66-129	
Trichloroethene	ug/L	20	20.2	101	71-123	
Vinyl chloride	ug/L	20	21.7	109	43-129	
Xylene (Total)	ug/L	60	60.4	101	75-121	N2
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1337918

Parameter	Units	60163974001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3960	99	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4520	113	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4410	110	52-143	
1,2-Dichloroethane	ug/L	ND	4000	4230	106	49-144	
1,4-Dichlorobenzene	ug/L	930	4000	4840	98	33-140	
2-Butanone (MEK)	ug/L	72600	20000	93200	103	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	3010	20000	25700	113	40-160	N2
Acetone	ug/L	153000	20000	180000	138	10-160	N2
Benzene	ug/L	ND	4000	3960	99	37-151	
Bromodichloromethane	ug/L	ND	4000	4240	106	35-142	
Bromoform	ug/L	ND	4000	4650	116	45-142	
Bromomethane	ug/L	ND	4000	3740	93	10-158	
Carbon tetrachloride	ug/L	ND	4000	4170	104	70-140	
Chloroethane	ug/L	ND	4000	2770	69	19-152	
Chloroform	ug/L	ND	4000	4050	101	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3710	93	34-147	N2
Ethylbenzene	ug/L	ND	4000	4140	102	40-142	
Methylene chloride	ug/L	ND	4000	4070	102	31-144	
Tetrachloroethene	ug/L	ND	4000	3970	99	64-148	
Toluene	ug/L	ND	4000	4130	103	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	3490	87	54-151	
Trichloroethene	ug/L	ND	4000	4350	109	71-149	
Vinyl chloride	ug/L	ND	4000	4600	115	22-146	
Xylene (Total)	ug/L	ND	12000	12600	105	37-144	N2
1,2-Dichloroethane-d4 (S)	%				101	80-120	
4-Bromofluorobenzene (S)	%				94	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 320-MSD

Pace Project No.: 60163973

MATRIX SPIKE SAMPLE:		1337918					
Parameter	Units	60163974001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S) Preservation pH	%	6.0	6.0	6.0	100	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 320-MSD

Pace Project No.: 60163973

QC Batch:	MSV/59871	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60163973001		

METHOD BLANK: 1340110 Matrix: Water

Associated Lab Samples: 60163973001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Butanone (MEK)	ug/L	ND	10.0	03/07/14 12:56	N2
Acetone	ug/L	ND	10.0	03/07/14 12:56	N2
1,2-Dichloroethane-d4 (S)	%	96	80-120	03/07/14 12:56	
4-Bromofluorobenzene (S)	%	100	80-120	03/07/14 12:56	
Toluene-d8 (S)	%	97	80-120	03/07/14 12:56	

LABORATORY CONTROL SAMPLE: 1340111

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Butanone (MEK)	ug/L	100	84.4	84	42-153	N2
Acetone	ug/L	100	106	106	38-134	N2
1,2-Dichloroethane-d4 (S)	%			105	80-120	
4-Bromofluorobenzene (S)	%			105	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE SAMPLE: 1340112

Parameter	Units	60164113001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
2-Butanone (MEK)	ug/L	60400	20000	61100	3	40-160	M1,N2
Acetone	ug/L	115000	20000	116000	4	10-160	M1,N2
1,2-Dichloroethane-d4 (S)	%				105	80-120	
4-Bromofluorobenzene (S)	%				116	80-120	
Toluene-d8 (S)	%				108	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 320-MSD
Pace Project No.: 60163973

QC Batch: OEXT/42995 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60163973001

METHOD BLANK: 1339163 Matrix: Water
Associated Lab Samples: 60163973001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	03/07/14 13:06	
2,4,6-Trichlorophenol	ug/L	ND	5.0	03/07/14 13:06	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	03/07/14 13:06	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	03/07/14 13:06	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	03/07/14 13:06	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	03/07/14 13:06	
Hexachlorocyclopentadiene	ug/L	ND	5.0	03/07/14 13:06	
Hexachloroethane	ug/L	ND	5.0	03/07/14 13:06	
Naphthalene	ug/L	ND	5.0	03/07/14 13:06	
Nitrobenzene	ug/L	ND	5.0	03/07/14 13:06	
Pentachlorophenol	ug/L	ND	5.0	03/07/14 13:06	
Phenol	ug/L	ND	5.0	03/07/14 13:06	
2,4,6-Tribromophenol (S)	%	88	39-120	03/07/14 13:06	
2-Fluorobiphenyl (S)	%	91	39-120	03/07/14 13:06	
2-Fluorophenol (S)	%	44	17-120	03/07/14 13:06	
Nitrobenzene-d5 (S)	%	77	33-120	03/07/14 13:06	
Phenol-d6 (S)	%	25	11-120	03/07/14 13:06	
Terphenyl-d14 (S)	%	107	45-120	03/07/14 13:06	

LABORATORY CONTROL SAMPLE: 1339164

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	44.2	88	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	32.5	65		N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	28.8	58		N2
4,6-Dinitro-2-methylphenol	ug/L	50	46.6	93	40-133	
Hexachloro-1,3-butadiene	ug/L	50	43.9	88	44-116	
Hexachlorocyclopentadiene	ug/L	100	79.1	79	24-120	
Hexachloroethane	ug/L	50	43.5	87	43-113	
Naphthalene	ug/L	50	42.3	85	48-120	
Nitrobenzene	ug/L	50	43.6	87	48-120	
Pentachlorophenol	ug/L	50	37.2	74	47-120	
Phenol	ug/L	50	14.6	29	16-112	
2,4,6-Tribromophenol (S)	%			96	39-120	
2-Fluorobiphenyl (S)	%			90	39-120	
2-Fluorophenol (S)	%			42	17-120	
Nitrobenzene-d5 (S)	%			86	33-120	
Phenol-d6 (S)	%			24	11-120	
Terphenyl-d14 (S)	%			103	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 320-MSD

Pace Project No.: 60163973

MATRIX SPIKE SAMPLE:		1339165					
Parameter	Units	60163973001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	2940	59	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	3700	74	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	3510	70		N2
3&4-Methylphenol(m&p Cresol)	ug/L	6740	5000	9200	49		N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	1950J	39	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3070	61	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	4010	40	11-120	
Hexachloroethane	ug/L	ND	5000	3540	71	40-113	
Naphthalene	ug/L	ND	5000	3410	64	45-120	
Nitrobenzene	ug/L	ND	5000	4860	97	38-120	
Pentachlorophenol	ug/L	ND	5000	3910	78	43-135	
Phenol	ug/L	7230	5000	10300	61	13-112	
2,4,6-Tribromophenol (S)	%				77	39-120	
2-Fluorobiphenyl (S)	%				74	39-120	
2-Fluorophenol (S)	%				42	17-120	
Nitrobenzene-d5 (S)	%				107	33-120	
Phenol-d6 (S)	%				42	11-120	
Terphenyl-d14 (S)	%				82	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 320-MSD

Pace Project No.: 60163973

QC Batch:	WET/46531	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60163973001		

METHOD BLANK: 1339735 Matrix: Water

Associated Lab Samples: 60163973001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	03/06/14 15:54	

LABORATORY CONTROL SAMPLE: 1339736

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: 1339737

Parameter	Units	60163855002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	9.1	47.1	49.4	86	78-114	

SAMPLE DUPLICATE: 1339738

Parameter	Units	60163973001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	966	1120	15	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 320-MSD

Pace Project No.: 60163973

QC Batch:	WET/46563	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60163973001		

METHOD BLANK: 1341129 Matrix: Water

Associated Lab Samples: 60163973001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	03/10/14 07:06	

LABORATORY CONTROL SAMPLE: 1341130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	18.4	92	64-132	

MATRIX SPIKE SAMPLE: 1341131

Parameter	Units	60163855002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	23.5	25.2	94	64-132	

SAMPLE DUPLICATE: 1341132

Parameter	Units	60163973001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	16.8	18.8	11	34	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 320-MSD

Pace Project No.: 60163973

QC Batch:	WET/46482	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	60163973001		

METHOD BLANK: 1338639 Matrix: Water

Associated Lab Samples: 60163973001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	03/05/14 16:17	

SAMPLE DUPLICATE: 1338640

Parameter	Units	60163876003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	34.0	36.0	6	10	

SAMPLE DUPLICATE: 1338641

Parameter	Units	60163974001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	4500	4600	2	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 320-MSD

Pace Project No.: 60163973

QC Batch: WET/46418 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60163973001

SAMPLE DUPLICATE: 1337766

Parameter	Units	60163872001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.2	5.2	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 320-MSD

Pace Project No.: 60163973

QC Batch: WET/46414

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60163973001

METHOD BLANK: 1337438

Matrix: Water

Associated Lab Samples: 60163973001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	03/06/14 16:16	

LABORATORY CONTROL SAMPLE: 1337439

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

SAMPLE DUPLICATE: 1337440

Parameter	Units	60163956001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	52.8	54.1	2	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 320-MSD
Pace Project No.: 60163973

QC Batch: WETA/28460 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60163973001

METHOD BLANK: 1338785 Matrix: Water
Associated Lab Samples: 60163973001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	03/05/14 16:10	

LABORATORY CONTROL SAMPLE: 1338786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.2	109	90-110	

MATRIX SPIKE SAMPLE: 1338787

Parameter	Units	60163866002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.9	94	90-110	

MATRIX SPIKE SAMPLE: 1338788

Parameter	Units	60163867005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.0	100	90-110	

SAMPLE DUPLICATE: 1338789

Parameter	Units	60163872001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	696	715	3	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 320-MSD

Pace Project No.: 60163973

QC Batch:	WETA/28480	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60163973001		

METHOD BLANK: 1339818 Matrix: Water
Associated Lab Samples: 60163973001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	03/10/14 13:53	

LABORATORY CONTROL SAMPLE: 1339819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	51.6	103	90-110	

MATRIX SPIKE SAMPLE: 1339820

Parameter	Units	60163575001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	3460	2500	5340	75	90-110	M1

SAMPLE DUPLICATE: 1339821

Parameter	Units	60163761004 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	2960	3100	4	25	

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QUALIFIERS

Project: BRIDGETON LF 320-MSD

Pace Project No.: 60163973

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.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 320-MSD

Pace Project No.: 60163973

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60163973001	320-MSD	EPA 200.7	MPRP/26342	EPA 200.7	ICP/20103
60163973001	320-MSD	EPA 200.7	MPRP/26322	EPA 200.7	ICP/20087
60163973001	320-MSD	EPA 245.1	MERP/8189	EPA 245.1	MERC/8145
60163973001	320-MSD	EPA 245.1	MERP/8192	EPA 245.1	MERC/8146
60163973001	320-MSD	EPA 625	OEXT/42995	EPA 625	MSSV/13690
60163973001	320-MSD	EPA 624 Low	MSV/59745		
60163973001	320-MSD	EPA 624 Low	MSV/59871		
60163973002	TRIP BLANK	EPA 624 Low	MSV/59745		
60163973001	320-MSD	EPA 1664A	WET/46531		
60163973001	320-MSD	EPA 1664A	WET/46563		
60163973001	320-MSD	SM 2540D	WET/46482		
60163973001	320-MSD	SM 4500-H+B	WET/46418		
60163973001	320-MSD	SM 5210B	WET/46414	SM 5210B	WET/46533
60163973001	320-MSD	EPA 350.1	WETA/28460		
60163973001	320-MSD	EPA 410.4	WETA/28480		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60163973



Client Name: Barr Eng

Courier: Fed Ex UPS USPS Client Commercial Pace Other spread

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 2211

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

Cooler Temperature: 3-2

Temperature should be above freezing to 6°C

Date and initials of person examining contents: pv 2/2 pv 4/1/14

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOD pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix:	<u>WT</u>	13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>Added 2.5 ml of HNO3 to BPSN. pH 6.0/4.0</u> <u>Added 2.0 ml of H2SO4 to BPS. pH 6.0/2.0</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: <u>VOA</u> coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>pv</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative <u>12514</u> <u>12513</u>
Pace Trip Blank lot # (if purchased): <u>11113-3</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MD</u>

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 2/2/14

March 10, 2014

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

RE: Project: BRIDGETON LF 316-231
Pace Project No.: 60163974

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on March 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 316-231

Pace Project No.: 60163974

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 316-231

Pace Project No.: 60163974

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60163974001	316-231	Water	02/28/14 13:40	03/01/14 01:10
60163974002	TRIP BLANK	Water	02/28/14 00:00	03/01/14 01:10

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-231

Pace Project No.: 60163974

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60163974001	316-231	EPA 200.7	SMW	15
		EPA 200.7	TJT	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	DJR	1
		EPA 1664A	DJR	1
		SM 2540D	JMC1	1
		SM 4500-H+B	DJR	1
		SM 5210B	RAH	1
		EPA 350.1	AJM	1
		EPA 410.4	JMC1	1
		60163974002	TRIP BLANK	EPA 624 Low

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-231

Pace Project No.: 60163974

Sample: 316-231	Lab ID: 60163974001	Collected: 02/28/14 13:40	Received: 03/01/14 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	9970 ug/L		750	2	03/06/14 10:20	03/07/14 12:02	7429-90-5	
Antimony	ND ug/L		100	2	03/06/14 10:20	03/07/14 12:02	7440-36-0	D3
Arsenic	1210 ug/L		50.0	1	03/06/14 10:20	03/07/14 11:59	7440-38-2	
Beryllium	ND ug/L		5.0	1	03/06/14 10:20	03/07/14 11:59	7440-41-7	
Cadmium	ND ug/L		25.0	1	03/06/14 10:20	03/07/14 11:59	7440-43-9	
Chromium	337 ug/L		25.0	1	03/06/14 10:20	03/07/14 11:59	7440-47-3	
Cobalt	69.0 ug/L		25.0	1	03/06/14 10:20	03/07/14 11:59	7440-48-4	
Copper	ND ug/L		50.0	1	03/06/14 10:20	03/07/14 11:59	7440-50-8	
Iron	1040000 ug/L		250	1	03/06/14 10:20	03/07/14 11:59	7439-89-6	
Lead	212 ug/L		25.0	1	03/06/14 10:20	03/07/14 11:59	7439-92-1	
Nickel	168 ug/L		25.0	1	03/06/14 10:20	03/07/14 11:59	7440-02-0	
Selenium	ND ug/L		75.0	1	03/06/14 10:20	03/07/14 11:59	7782-49-2	
Silver	ND ug/L		35.0	1	03/06/14 10:20	03/07/14 11:59	7440-22-4	
Thallium	ND ug/L		100	1	03/06/14 10:20	03/07/14 11:59	7440-28-0	
Zinc	11200 ug/L		500	2	03/06/14 10:20	03/07/14 12:02	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	03/04/14 13:45	03/05/14 13:27	7429-90-5	
Antimony, Dissolved	ND ug/L		50.0	1	03/04/14 13:45	03/05/14 13:24	7440-36-0	
Arsenic, Dissolved	820 ug/L		50.0	1	03/04/14 13:45	03/05/14 13:24	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	03/04/14 13:45	03/05/14 13:24	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	03/04/14 13:45	03/05/14 13:24	7440-43-9	
Chromium, Dissolved	205 ug/L		25.0	1	03/04/14 13:45	03/05/14 13:24	7440-47-3	
Cobalt, Dissolved	27.2 ug/L		25.0	1	03/04/14 13:45	03/05/14 13:24	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	03/04/14 13:45	03/05/14 13:24	7440-50-8	
Iron, Dissolved	600000 ug/L		250	1	03/04/14 13:45	03/05/14 13:24	7439-89-6	
Lead, Dissolved	78.7 ug/L		25.0	1	03/04/14 13:45	03/05/14 13:24	7439-92-1	
Nickel, Dissolved	84.1 ug/L		25.0	1	03/04/14 13:45	03/05/14 13:24	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	03/04/14 13:45	03/05/14 13:24	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	03/04/14 13:45	03/05/14 13:24	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	03/04/14 13:45	03/05/14 13:24	7440-28-0	
Zinc, Dissolved	7620 ug/L		500	2	03/04/14 13:45	03/05/14 13:27	7440-66-6	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury	ND ug/L		6.0	1	03/03/14 10:00	03/04/14 10:38	7439-97-6	
245.1 Mercury, Dissolved (LF)								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury, Dissolved	ND ug/L		0.20	1	03/04/14 10:00	03/04/14 12:38	7439-97-6	
625 MSSV								
Analytical Method: EPA 625 Preparation Method: EPA 625								
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	03/06/14 00:00	03/07/14 15:57	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	03/06/14 00:00	03/07/14 15:57	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	03/06/14 00:00	03/07/14 15:57	77-47-4	
Hexachloroethane	ND ug/L		1000	2	03/06/14 00:00	03/07/14 15:57	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	03/06/14 00:00	03/07/14 15:57	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	8130 ug/L		4000	2	03/06/14 00:00	03/07/14 15:57		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-231

Pace Project No.: 60163974

Sample: 316-231		Lab ID: 60163974001	Collected: 02/28/14 13:40	Received: 03/01/14 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						
Naphthalene	2760 ug/L		1000	2	03/06/14 00:00	03/07/14 15:57	91-20-3	
Nitrobenzene	ND ug/L		1000	2	03/06/14 00:00	03/07/14 15:57	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	03/06/14 00:00	03/07/14 15:57	87-86-5	
Phenol	10800 ug/L		1000	2	03/06/14 00:00	03/07/14 15:57	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	03/06/14 00:00	03/07/14 15:57	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	03/06/14 00:00	03/07/14 15:57	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	150 %		33-120	2	03/06/14 00:00	03/07/14 15:57	4165-60-0	S0
2-Fluorobiphenyl (S)	90 %		39-120	2	03/06/14 00:00	03/07/14 15:57	321-60-8	
Terphenyl-d14 (S)	98 %		45-120	2	03/06/14 00:00	03/07/14 15:57	1718-51-0	
Phenol-d6 (S)	47 %		11-120	2	03/06/14 00:00	03/07/14 15:57	13127-88-3	
2-Fluorophenol (S)	47 %		17-120	2	03/06/14 00:00	03/07/14 15:57	367-12-4	
2,4,6-Tribromophenol (S)	97 %		39-120	2	03/06/14 00:00	03/07/14 15:57	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	153000 ug/L		2000	200		03/03/14 17:46	67-64-1	N2
Benzene	ND ug/L		200	200		03/03/14 17:46	71-43-2	
Bromodichloromethane	ND ug/L		200	200		03/03/14 17:46	75-27-4	
Bromoform	ND ug/L		200	200		03/03/14 17:46	75-25-2	
Bromomethane	ND ug/L		1000	200		03/03/14 17:46	74-83-9	
2-Butanone (MEK)	72600 ug/L		2000	200		03/03/14 17:46	78-93-3	N2
Carbon tetrachloride	ND ug/L		200	200		03/03/14 17:46	56-23-5	
Chloroethane	ND ug/L		200	200		03/03/14 17:46	75-00-3	
Chloroform	ND ug/L		200	200		03/03/14 17:46	67-66-3	
1,4-Dichlorobenzene	930 ug/L		200	200		03/03/14 17:46	106-46-7	
1,2-Dichloroethane	ND ug/L		200	200		03/03/14 17:46	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		200	200		03/03/14 17:46	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		200	200		03/03/14 17:46	156-60-5	
Ethylbenzene	ND ug/L		200	200		03/03/14 17:46	100-41-4	
Methylene chloride	ND ug/L		200	200		03/03/14 17:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	3010 ug/L		2000	200		03/03/14 17:46	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		03/03/14 17:46	79-34-5	N2
Tetrachloroethene	ND ug/L		200	200		03/03/14 17:46	127-18-4	
Toluene	ND ug/L		200	200		03/03/14 17:46	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		03/03/14 17:46	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		03/03/14 17:46	79-00-5	
Trichloroethene	ND ug/L		200	200		03/03/14 17:46	79-01-6	
Vinyl chloride	ND ug/L		200	200		03/03/14 17:46	75-01-4	
Xylene (Total)	ND ug/L		600	200		03/03/14 17:46	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	99 %		80-120	200		03/03/14 17:46	460-00-4	
Toluene-d8 (S)	100 %		80-120	200		03/03/14 17:46	2037-26-5	
1,2-Dichloroethane-d4 (S)	102 %		80-120	200		03/03/14 17:46	17060-07-0	
Preservation pH	6.0		1.0	200		03/03/14 17:46		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1160 mg/L		5.0	1		03/06/14 15:57		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-231

Pace Project No.: 60163974

Sample: 316-231		Lab ID: 60163974001	Collected: 02/28/14 13:40	Received: 03/01/14 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	11.6	mg/L	5.0	1		03/10/14 07:07		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	4500	mg/L	5.0	1		03/05/14 16:19		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4	Std. Units	0.10	1		03/03/14 06:50		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	36300	mg/L	2.0	1	03/01/14 11:29	03/06/14 16:46		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	678	mg/L	20.0	200		03/05/14 16:41	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	49800	mg/L	5000	500		03/10/14 14:24		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-231

Pace Project No.: 60163974

Sample: TRIP BLANK		Lab ID: 60163974002	Collected: 02/28/14 00:00	Received: 03/01/14 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		03/03/14 17:14	67-64-1	N2
Benzene	ND ug/L		1.0	1		03/03/14 17:14	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		03/03/14 17:14	75-27-4	
Bromoform	ND ug/L		1.0	1		03/03/14 17:14	75-25-2	
Bromomethane	ND ug/L		5.0	1		03/03/14 17:14	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		03/03/14 17:14	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		03/03/14 17:14	56-23-5	
Chloroethane	ND ug/L		1.0	1		03/03/14 17:14	75-00-3	
Chloroform	ND ug/L		1.0	1		03/03/14 17:14	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		03/03/14 17:14	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		03/03/14 17:14	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		03/03/14 17:14	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		03/03/14 17:14	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		03/03/14 17:14	100-41-4	
Methylene chloride	ND ug/L		1.0	1		03/03/14 17:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		03/03/14 17:14	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		03/03/14 17:14	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		03/03/14 17:14	127-18-4	
Toluene	ND ug/L		1.0	1		03/03/14 17:14	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		03/03/14 17:14	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		03/03/14 17:14	79-00-5	
Trichloroethene	ND ug/L		1.0	1		03/03/14 17:14	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		03/03/14 17:14	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		03/03/14 17:14	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101 %		80-120	1		03/03/14 17:14	460-00-4	
Toluene-d8 (S)	99 %		80-120	1		03/03/14 17:14	2037-26-5	
1,2-Dichloroethane-d4 (S)	101 %		80-120	1		03/03/14 17:14	17060-07-0	
Preservation pH	6.0		1.0	1		03/03/14 17:14		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-231

Pace Project No.: 60163974

QC Batch: MERP/8189 Analysis Method: EPA 245.1
 QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
 Associated Lab Samples: 60163974001

METHOD BLANK: 1337876 Matrix: Water
 Associated Lab Samples: 60163974001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	03/04/14 09:58	

LABORATORY CONTROL SAMPLE: 1337877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.5	110	85-115	

MATRIX SPIKE SAMPLE: 1337878

Parameter	Units	60163654001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	150	151	100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1337921 1337922

Parameter	Units	60163872001 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	151	112	99	73	70-130	30	20	R1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-231

Pace Project No.: 60163974

QC Batch: MERP/8192

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60163974001

METHOD BLANK: 1338296

Matrix: Water

Associated Lab Samples: 60163974001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	03/04/14 12:11	

LABORATORY CONTROL SAMPLE: 1338297

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.4	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1338298 1338299

Parameter	Units	60163872001		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	ND	Spike Conc.	Conc.	Result	Result	% Rec	% Rec					
Mercury, Dissolved	ug/L	ND	5	5	5.0	5.2	98	103	70-130	5	20			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-231
Pace Project No.: 60163974

QC Batch: MPRP/26342 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60163974001

METHOD BLANK: 1339299 Matrix: Water
Associated Lab Samples: 60163974001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	03/07/14 11:15	
Antimony	ug/L	ND	10.0	03/07/14 11:15	
Arsenic	ug/L	ND	10.0	03/07/14 11:15	
Beryllium	ug/L	ND	1.0	03/07/14 11:15	
Cadmium	ug/L	ND	5.0	03/07/14 11:15	
Chromium	ug/L	ND	5.0	03/07/14 11:15	
Cobalt	ug/L	ND	5.0	03/07/14 11:15	
Copper	ug/L	ND	10.0	03/07/14 11:15	
Iron	ug/L	ND	50.0	03/07/14 11:15	
Lead	ug/L	ND	5.0	03/07/14 11:15	
Nickel	ug/L	ND	5.0	03/07/14 11:15	
Selenium	ug/L	ND	15.0	03/07/14 11:15	
Silver	ug/L	ND	7.0	03/07/14 11:15	
Thallium	ug/L	ND	20.0	03/07/14 11:15	
Zinc	ug/L	ND	50.0	03/07/14 11:15	

LABORATORY CONTROL SAMPLE: 1339300

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10400	104	85-115	
Antimony	ug/L	1000	1030	103	85-115	
Arsenic	ug/L	1000	1020	102	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1020	102	85-115	
Chromium	ug/L	1000	1070	107	85-115	
Cobalt	ug/L	1000	1060	106	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	10600	106	85-115	
Lead	ug/L	1000	1070	107	85-115	
Nickel	ug/L	1000	1070	107	85-115	
Selenium	ug/L	1000	1030	103	85-115	
Silver	ug/L	500	505	101	85-115	
Thallium	ug/L	1000	1060	106	85-115	
Zinc	ug/L	1000	1070	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1339301 1339302

Parameter	Units	60163872001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum	ug/L	8590	50000	50000	65200	67100	113	117	70-130	3	8		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-231

Pace Project No.: 60163974

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1339301												1339302											
Parameter	Units	60163872001		MS	MSD	MS		MSD		% Rec		Max		Qual									
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD											
Antimony	ug/L	ND	5000	5000	5000	5320	5470	106	109	70-130	3	7											
Arsenic	ug/L	1430	5000	5000	5000	6940	6980	110	111	70-130	1	10											
Beryllium	ug/L	ND	5000	5000	5000	4600	4570	92	91	70-130	1	7											
Cadmium	ug/L	ND	5000	5000	5000	5300	5290	106	106	70-130	0	10											
Chromium	ug/L	378	5000	5000	5000	5340	5340	99	99	70-130	0	10											
Cobalt	ug/L	75.4	5000	5000	5000	4770	4750	94	93	70-130	0	6											
Copper	ug/L	ND	5000	5000	5000	5360	5340	106	106	70-130	0	11											
Iron	ug/L	1160000	50000	50000	50000	1130000	1160000	-57	-8	70-130	2	10 M1											
Lead	ug/L	216	5000	5000	5000	4630	4600	88	88	70-130	0	10											
Nickel	ug/L	174	5000	5000	5000	4780	4750	92	91	70-130	1	10											
Selenium	ug/L	ND	5000	5000	5000	6300	6300	125	125	70-130	0	10											
Silver	ug/L	ND	2500	2500	2500	2730	2710	109	108	70-130	1	10											
Thallium	ug/L	ND	5000	5000	5000	4030	3990	81	80	70-130	1	6											
Zinc	ug/L	10400	5000	5000	5000	14700	15300	86	98	70-130	4	11											

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1339303												1339304											
Parameter	Units	60164113001		MS	MSD	MS		MSD		% Rec		Max		Qual									
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD											
Aluminum	ug/L	26100	50000	50000	50000	94100	92800	136	134	70-130	1	8 M1											
Antimony	ug/L	ND	5000	5000	5000	5260	5160	104	102	70-130	2	7											
Arsenic	ug/L	1100	5000	5000	5000	6740	7190	113	122	70-130	7	10											
Beryllium	ug/L	ND	5000	5000	5000	4520	4530	90	91	70-130	0	7											
Cadmium	ug/L	ND	5000	5000	5000	5340	5740	107	114	70-130	7	10											
Chromium	ug/L	335	5000	5000	5000	5340	5380	100	101	70-130	1	10											
Cobalt	ug/L	72.2	5000	5000	5000	4820	5180	95	102	70-130	7	6 R1											
Copper	ug/L	54.7	5000	5000	5000	5340	5380	106	107	70-130	1	11											
Iron	ug/L	1000000	50000	50000	50000	1030000	1010000	57	16	70-130	2	10 M1											
Lead	ug/L	207	5000	5000	5000	4690	5020	90	96	70-130	7	10											
Nickel	ug/L	167	5000	5000	5000	4810	5160	93	100	70-130	7	10											
Selenium	ug/L	ND	5000	5000	5000	6250	6700	124	133	70-130	7	10 M1											
Silver	ug/L	ND	2500	2500	2500	2720	2740	109	109	70-130	1	10											
Thallium	ug/L	ND	5000	5000	5000	4070	4390	81	88	70-130	8	6 R1											
Zinc	ug/L	8420	5000	5000	5000	13100	12700	93	86	70-130	3	11											

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-231
Pace Project No.: 60163974

QC Batch: MPRP/26322 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60163974001

METHOD BLANK: 1338460 Matrix: Water
Associated Lab Samples: 60163974001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	03/05/14 12:47	
Antimony, Dissolved	ug/L	ND	10.0	03/05/14 12:47	
Arsenic, Dissolved	ug/L	ND	10.0	03/05/14 12:47	
Beryllium, Dissolved	ug/L	ND	1.0	03/05/14 12:47	
Cadmium, Dissolved	ug/L	ND	5.0	03/05/14 12:47	
Chromium, Dissolved	ug/L	ND	5.0	03/05/14 12:47	
Cobalt, Dissolved	ug/L	ND	5.0	03/05/14 12:47	
Copper, Dissolved	ug/L	ND	10.0	03/05/14 12:47	
Iron, Dissolved	ug/L	ND	50.0	03/05/14 12:47	
Lead, Dissolved	ug/L	ND	5.0	03/05/14 12:47	
Nickel, Dissolved	ug/L	ND	5.0	03/05/14 12:47	
Selenium, Dissolved	ug/L	ND	15.0	03/05/14 12:47	
Silver, Dissolved	ug/L	ND	7.0	03/05/14 12:47	
Thallium, Dissolved	ug/L	ND	20.0	03/05/14 12:47	
Zinc, Dissolved	ug/L	ND	50.0	03/05/14 12:47	

LABORATORY CONTROL SAMPLE: 1338461

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	1030	103	85-115	
Arsenic, Dissolved	ug/L	1000	996	100	85-115	
Beryllium, Dissolved	ug/L	1000	1030	103	85-115	
Cadmium, Dissolved	ug/L	1000	1020	102	85-115	
Chromium, Dissolved	ug/L	1000	1020	102	85-115	
Cobalt, Dissolved	ug/L	1000	1030	103	85-115	
Copper, Dissolved	ug/L	1000	1020	102	85-115	
Iron, Dissolved	ug/L	10000	10200	102	85-115	
Lead, Dissolved	ug/L	1000	1030	103	85-115	
Nickel, Dissolved	ug/L	1000	1050	105	85-115	
Selenium, Dissolved	ug/L	1000	1030	103	85-115	
Silver, Dissolved	ug/L	500	487	97	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1338462 1338463

Parameter	Units	60163872001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum, Dissolved	ug/L	3120	50000	50000	53400	54200	101	102	70-130	1	8		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-231

Pace Project No.: 60163974

Parameter	Units	60163872001		1338462		1338463		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Antimony, Dissolved	ug/L	ND	5000	5000	5400	5500	107	109	70-130	2	7		
Arsenic, Dissolved	ug/L	1070	5000	5000	6460	6480	108	108	70-130	0	10		
Beryllium, Dissolved	ug/L	ND	5000	5000	4960	5040	99	101	70-130	2	7		
Cadmium, Dissolved	ug/L	ND	5000	5000	5240	5330	105	107	70-130	2	10		
Chromium, Dissolved	ug/L	257	5000	5000	5240	5320	100	101	70-130	2	10		
Cobalt, Dissolved	ug/L	41.3	5000	5000	4830	4900	96	97	70-130	1	6		
Copper, Dissolved	ug/L	ND	5000	5000	5460	5610	109	112	70-130	3	11		
Iron, Dissolved	ug/L	788000	50000	50000	776000	742000	-26	-94	70-130	4	10	M1	
Lead, Dissolved	ug/L	84.7	5000	5000	4730	4780	93	94	70-130	1	10		
Nickel, Dissolved	ug/L	108	5000	5000	4930	4980	96	97	70-130	1	10		
Selenium, Dissolved	ug/L	ND	5000	5000	6040	6200	120	124	70-130	3	10		
Silver, Dissolved	ug/L	ND	2500	2500	2650	2690	106	108	70-130	2	10		
Thallium, Dissolved	ug/L	ND	5000	5000	4240	4290	85	86	70-130	1	6		
Zinc, Dissolved	ug/L	7490	5000	5000	11600	11300	83	77	70-130	3	11		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-231

Pace Project No.: 60163974

QC Batch: MSV/59745 Analysis Method: EPA 624 Low

QC Batch Method: EPA 624 Low Analysis Description: 624 MSV

Associated Lab Samples: 60163974001, 60163974002

METHOD BLANK: 1337916 Matrix: Water

Associated Lab Samples: 60163974001, 60163974002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	03/03/14 12:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	03/03/14 12:31	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	03/03/14 12:31	
1,2-Dichloroethane	ug/L	ND	1.0	03/03/14 12:31	
1,4-Dichlorobenzene	ug/L	ND	1.0	03/03/14 12:31	
2-Butanone (MEK)	ug/L	ND	10.0	03/03/14 12:31	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	03/03/14 12:31	N2
Acetone	ug/L	ND	10.0	03/03/14 12:31	N2
Benzene	ug/L	ND	1.0	03/03/14 12:31	
Bromodichloromethane	ug/L	ND	1.0	03/03/14 12:31	
Bromoform	ug/L	ND	1.0	03/03/14 12:31	
Bromomethane	ug/L	ND	5.0	03/03/14 12:31	
Carbon tetrachloride	ug/L	ND	1.0	03/03/14 12:31	
Chloroethane	ug/L	ND	1.0	03/03/14 12:31	
Chloroform	ug/L	ND	1.0	03/03/14 12:31	
cis-1,2-Dichloroethene	ug/L	ND	1.0	03/03/14 12:31	N2
Ethylbenzene	ug/L	ND	1.0	03/03/14 12:31	
Methylene chloride	ug/L	ND	1.0	03/03/14 12:31	
Tetrachloroethene	ug/L	ND	1.0	03/03/14 12:31	
Toluene	ug/L	ND	1.0	03/03/14 12:31	
trans-1,2-Dichloroethene	ug/L	ND	1.0	03/03/14 12:31	
Trichloroethene	ug/L	ND	1.0	03/03/14 12:31	
Vinyl chloride	ug/L	ND	1.0	03/03/14 12:31	
Xylene (Total)	ug/L	ND	3.0	03/03/14 12:31	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	03/03/14 12:31	
4-Bromofluorobenzene (S)	%	102	80-120	03/03/14 12:31	
Toluene-d8 (S)	%	98	80-120	03/03/14 12:31	

LABORATORY CONTROL SAMPLE: 1337917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.9	95	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	21.5	107	67-127	N2
1,1,2-Trichloroethane	ug/L	20	20.2	101	67-124	
1,2-Dichloroethane	ug/L	20	20.4	102	70-126	
1,4-Dichlorobenzene	ug/L	20	20.1	101	74-120	
2-Butanone (MEK)	ug/L	100	108	108	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	100	100	59-131	N2
Acetone	ug/L	100	126	126	38-134	N2
Benzene	ug/L	20	19.5	98	75-120	
Bromodichloromethane	ug/L	20	20.0	100	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-231

Pace Project No.: 60163974

LABORATORY CONTROL SAMPLE: 1337917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.4	102	65-127	
Bromomethane	ug/L	20	18.1	90	13-157	
Carbon tetrachloride	ug/L	20	18.9	94	70-131	
Chloroethane	ug/L	20	15.3	77	47-133	
Chloroform	ug/L	20	17.4	87	65-127	
cis-1,2-Dichloroethene	ug/L	20	17.8	89	68-127	N2
Ethylbenzene	ug/L	20	19.7	99	74-122	
Methylene chloride	ug/L	20	18.3	92	64-129	
Tetrachloroethene	ug/L	20	19.1	96	73-125	
Toluene	ug/L	20	19.5	97	69-126	
trans-1,2-Dichloroethene	ug/L	20	17.7	89	66-129	
Trichloroethene	ug/L	20	20.2	101	71-123	
Vinyl chloride	ug/L	20	21.7	109	43-129	
Xylene (Total)	ug/L	60	60.4	101	75-121	N2
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1337918

Parameter	Units	60163974001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3960	99	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4520	113	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	4000	4410	110	52-143	
1,2-Dichloroethane	ug/L	ND	4000	4230	106	49-144	
1,4-Dichlorobenzene	ug/L	930	4000	4840	98	33-140	
2-Butanone (MEK)	ug/L	72600	20000	93200	103	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	3010	20000	25700	113	40-160	N2
Acetone	ug/L	153000	20000	180000	138	10-160	N2
Benzene	ug/L	ND	4000	3960	99	37-151	
Bromodichloromethane	ug/L	ND	4000	4240	106	35-142	
Bromoform	ug/L	ND	4000	4650	116	45-142	
Bromomethane	ug/L	ND	4000	3740	93	10-158	
Carbon tetrachloride	ug/L	ND	4000	4170	104	70-140	
Chloroethane	ug/L	ND	4000	2770	69	19-152	
Chloroform	ug/L	ND	4000	4050	101	51-138	
cis-1,2-Dichloroethene	ug/L	ND	4000	3710	93	34-147	N2
Ethylbenzene	ug/L	ND	4000	4140	102	40-142	
Methylene chloride	ug/L	ND	4000	4070	102	31-144	
Tetrachloroethene	ug/L	ND	4000	3970	99	64-148	
Toluene	ug/L	ND	4000	4130	103	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	3490	87	54-151	
Trichloroethene	ug/L	ND	4000	4350	109	71-149	
Vinyl chloride	ug/L	ND	4000	4600	115	22-146	
Xylene (Total)	ug/L	ND	12000	12600	105	37-144	N2
1,2-Dichloroethane-d4 (S)	%				101	80-120	
4-Bromofluorobenzene (S)	%				94	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-231

Pace Project No.: 60163974

MATRIX SPIKE SAMPLE:		1337918					
Parameter	Units	60163974001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S) Preservation pH	%	6.0	6.0	6.0	100	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-231
Pace Project No.: 60163974

QC Batch: OEXT/42995 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60163974001

METHOD BLANK: 1339163 Matrix: Water
Associated Lab Samples: 60163974001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	03/07/14 13:06	
2,4,6-Trichlorophenol	ug/L	ND	5.0	03/07/14 13:06	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	03/07/14 13:06	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	03/07/14 13:06	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	03/07/14 13:06	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	03/07/14 13:06	
Hexachlorocyclopentadiene	ug/L	ND	5.0	03/07/14 13:06	
Hexachloroethane	ug/L	ND	5.0	03/07/14 13:06	
Naphthalene	ug/L	ND	5.0	03/07/14 13:06	
Nitrobenzene	ug/L	ND	5.0	03/07/14 13:06	
Pentachlorophenol	ug/L	ND	5.0	03/07/14 13:06	
Phenol	ug/L	ND	5.0	03/07/14 13:06	
2,4,6-Tribromophenol (S)	%	88	39-120	03/07/14 13:06	
2-Fluorobiphenyl (S)	%	91	39-120	03/07/14 13:06	
2-Fluorophenol (S)	%	44	17-120	03/07/14 13:06	
Nitrobenzene-d5 (S)	%	77	33-120	03/07/14 13:06	
Phenol-d6 (S)	%	25	11-120	03/07/14 13:06	
Terphenyl-d14 (S)	%	107	45-120	03/07/14 13:06	

LABORATORY CONTROL SAMPLE: 1339164

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	44.2	88	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	32.5	65		N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	28.8	58		N2
4,6-Dinitro-2-methylphenol	ug/L	50	46.6	93	40-133	
Hexachloro-1,3-butadiene	ug/L	50	43.9	88	44-116	
Hexachlorocyclopentadiene	ug/L	100	79.1	79	24-120	
Hexachloroethane	ug/L	50	43.5	87	43-113	
Naphthalene	ug/L	50	42.3	85	48-120	
Nitrobenzene	ug/L	50	43.6	87	48-120	
Pentachlorophenol	ug/L	50	37.2	74	47-120	
Phenol	ug/L	50	14.6	29	16-112	
2,4,6-Tribromophenol (S)	%			96	39-120	
2-Fluorobiphenyl (S)	%			90	39-120	
2-Fluorophenol (S)	%			42	17-120	
Nitrobenzene-d5 (S)	%			86	33-120	
Phenol-d6 (S)	%			24	11-120	
Terphenyl-d14 (S)	%			103	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-231

Pace Project No.: 60163974

MATRIX SPIKE SAMPLE:	1339165	60163973001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	2940	59	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	3700	74	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	3510	70		N2
3&4-Methylphenol(m&p Cresol)	ug/L	6740	5000	9200	49		N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	1950J	39	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3070	61	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	4010	40	11-120	
Hexachloroethane	ug/L	ND	5000	3540	71	40-113	
Naphthalene	ug/L	ND	5000	3410	64	45-120	
Nitrobenzene	ug/L	ND	5000	4860	97	38-120	
Pentachlorophenol	ug/L	ND	5000	3910	78	43-135	
Phenol	ug/L	7230	5000	10300	61	13-112	
2,4,6-Tribromophenol (S)	%				77	39-120	
2-Fluorobiphenyl (S)	%				74	39-120	
2-Fluorophenol (S)	%				42	17-120	
Nitrobenzene-d5 (S)	%				107	33-120	
Phenol-d6 (S)	%				42	11-120	
Terphenyl-d14 (S)	%				82	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-231

Pace Project No.: 60163974

QC Batch:	WET/46531	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60163974001		

METHOD BLANK: 1339735 Matrix: Water

Associated Lab Samples: 60163974001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	03/06/14 15:54	

LABORATORY CONTROL SAMPLE: 1339736

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: 1339737

Parameter	Units	60163855002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	9.1	47.1	49.4	86	78-114	

SAMPLE DUPLICATE: 1339738

Parameter	Units	60163973001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	966	1120	15	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-231

Pace Project No.: 60163974

QC Batch:	WET/46563	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60163974001		

METHOD BLANK: 1341129 Matrix: Water
Associated Lab Samples: 60163974001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	03/10/14 07:06	

LABORATORY CONTROL SAMPLE: 1341130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	18.4	92	64-132	

MATRIX SPIKE SAMPLE: 1341131

Parameter	Units	60163855002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	23.5	25.2	94	64-132	

SAMPLE DUPLICATE: 1341132

Parameter	Units	60163973001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	16.8	18.8	11	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-231

Pace Project No.: 60163974

QC Batch: WET/46482

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60163974001

METHOD BLANK: 1338639

Matrix: Water

Associated Lab Samples: 60163974001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	03/05/14 16:17	

SAMPLE DUPLICATE: 1338640

Parameter	Units	60163876003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	34.0	36.0	6	10	

SAMPLE DUPLICATE: 1338641

Parameter	Units	60163974001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	4500	4600	2	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-231

Pace Project No.: 60163974

QC Batch: WET/46418 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 60163974001

SAMPLE DUPLICATE: 1337766

Parameter	Units	60163872001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.2	5.2	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-231

Pace Project No.: 60163974

QC Batch: WET/46414

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60163974001

METHOD BLANK: 1337438

Matrix: Water

Associated Lab Samples: 60163974001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	03/06/14 16:16	

LABORATORY CONTROL SAMPLE: 1337439

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

SAMPLE DUPLICATE: 1337440

Parameter	Units	60163956001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	52.8	54.1	2	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-231
Pace Project No.: 60163974

QC Batch: WETA/28460 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60163974001

METHOD BLANK: 1338785 Matrix: Water
Associated Lab Samples: 60163974001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	03/05/14 16:10	

LABORATORY CONTROL SAMPLE: 1338786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.2	109	90-110	

MATRIX SPIKE SAMPLE: 1338787

Parameter	Units	60163866002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.9	94	90-110	

MATRIX SPIKE SAMPLE: 1338788

Parameter	Units	60163867005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.0	100	90-110	

SAMPLE DUPLICATE: 1338789

Parameter	Units	60163872001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	696	715	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-231

Pace Project No.: 60163974

QC Batch:	WETA/28480	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60163974001		

METHOD BLANK: 1339818 Matrix: Water
Associated Lab Samples: 60163974001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	03/10/14 13:53	

LABORATORY CONTROL SAMPLE: 1339819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	51.6	103	90-110	

MATRIX SPIKE SAMPLE: 1339820

Parameter	Units	60163575001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	3460	2500	5340	75	90-110	M1

SAMPLE DUPLICATE: 1339821

Parameter	Units	60163761004 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	2960	3100	4	25	

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QUALIFIERS

Project: BRIDGETON LF 316-231

Pace Project No.: 60163974

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.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-231

Pace Project No.: 60163974

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60163974001	316-231	EPA 200.7	MPRP/26342	EPA 200.7	ICP/20103
60163974001	316-231	EPA 200.7	MPRP/26322	EPA 200.7	ICP/20087
60163974001	316-231	EPA 245.1	MERP/8189	EPA 245.1	MERC/8145
60163974001	316-231	EPA 245.1	MERP/8192	EPA 245.1	MERC/8146
60163974001	316-231	EPA 625	OEXT/42995	EPA 625	MSSV/13690
60163974001	316-231	EPA 624 Low	MSV/59745		
60163974002	TRIP BLANK	EPA 624 Low	MSV/59745		
60163974001	316-231	EPA 1664A	WET/46531		
60163974001	316-231	EPA 1664A	WET/46563		
60163974001	316-231	SM 2540D	WET/46482		
60163974001	316-231	SM 4500-H+B	WET/46418		
60163974001	316-231	SM 5210B	WET/46414	SM 5210B	WET/46533
60163974001	316-231	EPA 350.1	WETA/28460		
60163974001	316-231	EPA 410.4	WETA/28480		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60163974



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 2PIC

Thermometer Used: T-239 / T-194

Type of Ice: Wet Blue None Samples received on ice, cooling process has begun. (circle one)

Cooler Temperature: 2.8

Date and initials of person examining contents: pu 2/12 pu 2/11/14

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOD PH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Includes date/time/ID/analyses Matrix:	<u>WT</u>	13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>Added 2.5 ml of HNO3 to BPSN. PH 6.0/4.0</u>
All containers needing preservation are found to be in compliance with EPA recommendation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>Added 2.0 ml of H2SO4 to BPSN. PH 6.0/1.5</u>
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>pu</u> Lot # of added preservative <u>12513</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Pace Trip Blank lot # (if purchased):	<u>11113-3</u>	15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>WV</u>

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 2/13/14

