

April 11, 2014

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

RE: Project: BRIDGETON LF 316-257
Pace Project No.: 60166188

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 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.
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-257

Pace Project No.: 60166188

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 316-257

Pace Project No.: 60166188

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60166188001	316-257	Water	04/01/14 13:46	04/03/14 01:30
60166188002	TRIP BLANK	Water	04/01/14 13:46	04/03/14 01:30

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-257

Pace Project No.: 60166188

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60166188001	316-257	EPA 200.7	JGP	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
		EPA 624 Low	EAK	28
60166188002	TRIP BLANK			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-257

Pace Project No.: 60166188

Sample: 316-257		Lab ID: 60166188001	Collected: 04/01/14 13:46	Received: 04/03/14 01:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	1120 ug/L		750	2	04/08/14 12:45	04/09/14 16:17	7429-90-5	D3	
Antimony	ND ug/L		100	2	04/08/14 12:45	04/09/14 16:17	7440-36-0		
Arsenic	912 ug/L		50.0	1	04/08/14 12:45	04/09/14 16:14	7440-38-2		
Beryllium	ND ug/L		5.0	1	04/08/14 12:45	04/09/14 16:14	7440-41-7		
Cadmium	ND ug/L		25.0	1	04/08/14 12:45	04/09/14 16:14	7440-43-9		
Chromium	173 ug/L		25.0	1	04/08/14 12:45	04/09/14 16:14	7440-47-3		
Cobalt	25.9 ug/L		25.0	1	04/08/14 12:45	04/09/14 16:14	7440-48-4		
Copper	ND ug/L		50.0	1	04/08/14 12:45	04/09/14 16:14	7440-50-8		
Iron	437000 ug/L		250	1	04/08/14 12:45	04/09/14 16:14	7439-89-6		
Lead	44.9 ug/L		25.0	1	04/08/14 12:45	04/09/14 16:14	7439-92-1		
Nickel	86.2 ug/L		25.0	1	04/08/14 12:45	04/09/14 16:14	7440-02-0		
Selenium	ND ug/L		75.0	1	04/08/14 12:45	04/09/14 16:14	7782-49-2		
Silver	ND ug/L		35.0	1	04/08/14 12:45	04/09/14 16:14	7440-22-4		
Thallium	ND ug/L		100	1	04/08/14 12:45	04/09/14 16:14	7440-28-0		
Zinc	3560 ug/L		500	2	04/08/14 12:45	04/09/14 16:17	7440-66-6		
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	1410 ug/L		750	2	04/09/14 09:30	04/09/14 15:40	7429-90-5		
Antimony, Dissolved	ND ug/L		50.0	1	04/09/14 09:30	04/09/14 15:38	7440-36-0		
Arsenic, Dissolved	690 ug/L		50.0	1	04/09/14 09:30	04/09/14 15:38	7440-38-2		
Beryllium, Dissolved	ND ug/L		5.0	1	04/09/14 09:30	04/09/14 15:38	7440-41-7		
Cadmium, Dissolved	ND ug/L		25.0	1	04/09/14 09:30	04/09/14 15:38	7440-43-9		
Chromium, Dissolved	117 ug/L		25.0	1	04/09/14 09:30	04/09/14 15:38	7440-47-3		
Cobalt, Dissolved	ND ug/L		25.0	1	04/09/14 09:30	04/09/14 15:38	7440-48-4		
Copper, Dissolved	ND ug/L		50.0	1	04/09/14 09:30	04/09/14 15:38	7440-50-8		
Iron, Dissolved	333000 ug/L		250	1	04/09/14 09:30	04/09/14 15:38	7439-89-6		
Lead, Dissolved	34.2 ug/L		25.0	1	04/09/14 09:30	04/09/14 15:38	7439-92-1		
Nickel, Dissolved	58.2 ug/L		25.0	1	04/09/14 09:30	04/09/14 15:38	7440-02-0		
Selenium, Dissolved	ND ug/L		75.0	1	04/09/14 09:30	04/09/14 15:38	7782-49-2		
Silver, Dissolved	ND ug/L		35.0	1	04/09/14 09:30	04/09/14 15:38	7440-22-4		
Thallium, Dissolved	ND ug/L		100	1	04/09/14 09:30	04/09/14 15:38	7440-28-0		
Zinc, Dissolved	2890 ug/L		500	2	04/09/14 09:30	04/09/14 15:40	7440-66-6		
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	13.3 ug/L		6.0	1	04/03/14 12:50	04/04/14 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	04/07/14 11:00	04/08/14 11:29	7439-97-6		
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	04/04/14 00:00	04/07/14 14:19	534-52-1		
Hexachloro-1,3-butadiene	ND ug/L		1000	2	04/04/14 00:00	04/07/14 14:19	87-68-3		
Hexachlorocyclopentadiene	ND ug/L		1000	2	04/04/14 00:00	04/07/14 14:19	77-47-4		
Hexachloroethane	ND ug/L		1000	2	04/04/14 00:00	04/07/14 14:19	67-72-1		
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	04/04/14 00:00	04/07/14 14:19	95-48-7		
3&4-Methylphenol(m&p Cresol)	7950 ug/L		4000	2	04/04/14 00:00	04/07/14 14:19			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-257

Pace Project No.: 60166188

Sample: 316-257		Lab ID: 60166188001	Collected: 04/01/14 13:46	Received: 04/03/14 01:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	3400 ug/L		1000	2	04/04/14 00:00	04/07/14 14:19	91-20-3	
Nitrobenzene	ND ug/L		1000	2	04/04/14 00:00	04/07/14 14:19	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	04/04/14 00:00	04/07/14 14:19	87-86-5	
Phenol	11700 ug/L		1000	2	04/04/14 00:00	04/07/14 14:19	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	04/04/14 00:00	04/07/14 14:19	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	04/04/14 00:00	04/07/14 14:19	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	90 %		33-120	2	04/04/14 00:00	04/07/14 14:19	4165-60-0	
2-Fluorobiphenyl (S)	79 %		39-120	2	04/04/14 00:00	04/07/14 14:19	321-60-8	
Terphenyl-d14 (S)	76 %		45-120	2	04/04/14 00:00	04/07/14 14:19	1718-51-0	
Phenol-d6 (S)	31 %		11-120	2	04/04/14 00:00	04/07/14 14:19	13127-88-3	
2-Fluorophenol (S)	44 %		17-120	2	04/04/14 00:00	04/07/14 14:19	367-12-4	
2,4,6-Tribromophenol (S)	83 %		39-120	2	04/04/14 00:00	04/07/14 14:19	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	321000 ug/L		5000	500		04/07/14 11:19	67-64-1	L1,N2
Benzene	ND ug/L		500	500		04/07/14 11:19	71-43-2	
Bromodichloromethane	ND ug/L		500	500		04/07/14 11:19	75-27-4	
Bromoform	ND ug/L		500	500		04/07/14 11:19	75-25-2	
Bromomethane	ND ug/L		2500	500		04/07/14 11:19	74-83-9	
2-Butanone (MEK)	135000 ug/L		5000	500		04/07/14 11:19	78-93-3	N2
Carbon tetrachloride	ND ug/L		500	500		04/07/14 11:19	56-23-5	
Chloroethane	ND ug/L		500	500		04/07/14 11:19	75-00-3	
Chloroform	ND ug/L		500	500		04/07/14 11:19	67-66-3	
1,4-Dichlorobenzene	996 ug/L		500	500		04/07/14 11:19	106-46-7	
1,2-Dichloroethane	ND ug/L		500	500		04/07/14 11:19	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		500	500		04/07/14 11:19	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		500	500		04/07/14 11:19	156-60-5	
Ethylbenzene	ND ug/L		500	500		04/07/14 11:19	100-41-4	
Methylene chloride	680 ug/L		500	500		04/07/14 11:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5000	500		04/07/14 11:19	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		500	500		04/07/14 11:19	79-34-5	N2
Tetrachloroethene	ND ug/L		500	500		04/07/14 11:19	127-18-4	
Toluene	ND ug/L		500	500		04/07/14 11:19	108-88-3	
1,1,1-Trichloroethane	ND ug/L		500	500		04/07/14 11:19	71-55-6	
1,1,2-Trichloroethane	ND ug/L		500	500		04/07/14 11:19	79-00-5	
Trichloroethene	ND ug/L		500	500		04/07/14 11:19	79-01-6	
Vinyl chloride	ND ug/L		500	500		04/07/14 11:19	75-01-4	
Xylene (Total)	ND ug/L		1500	500		04/07/14 11:19	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	95 %		80-120	500		04/07/14 11:19	460-00-4	S2
Toluene-d8 (S)	104 %		80-120	500		04/07/14 11:19	2037-26-5	
1,2-Dichloroethane-d4 (S)	131 %		80-120	500		04/07/14 11:19	17060-07-0	S0
Preservation pH	6.0		1.0	500		04/07/14 11:19		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1440 mg/L		5.0	1		04/08/14 07:31		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-257

Pace Project No.: 60166188

Sample: 316-257		Lab ID: 60166188001	Collected: 04/01/14 13:46	Received: 04/03/14 01:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	7.7	mg/L	5.0	1		04/11/14 10:14		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	4600	mg/L	5.0	1		04/07/14 09:31		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.4	Std. Units	0.10	1		04/07/14 16:20		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	53800	mg/L	2.0	1	04/03/14 13:57	04/08/14 14:01		H2
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	619	mg/L	20.0	200		04/03/14 12:30	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	70700	mg/L	5000	500		04/10/14 13:50		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-257

Pace Project No.: 60166188

Sample: TRIP BLANK		Lab ID: 60166188002	Collected: 04/01/14 13:46	Received: 04/03/14 01:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		04/04/14 14:57	67-64-1	L3,N2
Benzene	ND ug/L		1.0	1		04/04/14 14:57	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/04/14 14:57	75-27-4	
Bromoform	ND ug/L		1.0	1		04/04/14 14:57	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/04/14 14:57	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/04/14 14:57	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		04/04/14 14:57	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/04/14 14:57	75-00-3	
Chloroform	ND ug/L		1.0	1		04/04/14 14:57	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/04/14 14:57	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/04/14 14:57	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/04/14 14:57	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/04/14 14:57	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/04/14 14:57	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/04/14 14:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/04/14 14:57	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/04/14 14:57	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/04/14 14:57	127-18-4	
Toluene	ND ug/L		1.0	1		04/04/14 14:57	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/04/14 14:57	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/04/14 14:57	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/04/14 14:57	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/04/14 14:57	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/04/14 14:57	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	93 %		80-120	1		04/04/14 14:57	460-00-4	
Toluene-d8 (S)	102 %		80-120	1		04/04/14 14:57	2037-26-5	
1,2-Dichloroethane-d4 (S)	98 %		80-120	1		04/04/14 14:57	17060-07-0	
Preservation pH	6.0		1.0	1		04/04/14 14:57		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-257

Pace Project No.: 60166188

QC Batch: MERP/8278

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60166188001

METHOD BLANK: 1354732

Matrix: Water

Associated Lab Samples: 60166188001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/03/14 16:15	

LABORATORY CONTROL SAMPLE: 1354733

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: 1354734 1354735

Parameter	Units	60165978001 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	127	123	82	79	70-130	3	20	

MATRIX SPIKE SAMPLE: 1354736

Parameter	Units	60165979001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	8.2	150	124	77	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-257

Pace Project No.: 60166188

QC Batch:	MERP/8285	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60166188001		

METHOD BLANK: 1356434 Matrix: Water

Associated Lab Samples: 60166188001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/08/14 11:22	

LABORATORY CONTROL SAMPLE: 1356435

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1356436 1356437

Parameter	Units	60166218001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	189	137	126	91	70-130	32	20	R1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-257
Pace Project No.: 60166188

QC Batch: MPRP/26757 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60166188001

METHOD BLANK: 1356774 Matrix: Water
Associated Lab Samples: 60166188001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/09/14 16:07	
Antimony	ug/L	ND	10.0	04/09/14 16:07	
Arsenic	ug/L	ND	10.0	04/09/14 16:07	
Beryllium	ug/L	ND	1.0	04/09/14 16:07	
Cadmium	ug/L	ND	5.0	04/09/14 16:07	
Chromium	ug/L	ND	5.0	04/09/14 16:07	
Cobalt	ug/L	ND	5.0	04/09/14 16:07	
Copper	ug/L	ND	10.0	04/09/14 16:07	
Iron	ug/L	ND	50.0	04/09/14 16:07	
Lead	ug/L	ND	5.0	04/09/14 16:07	
Nickel	ug/L	ND	5.0	04/09/14 16:07	
Selenium	ug/L	ND	15.0	04/09/14 16:07	
Silver	ug/L	ND	7.0	04/09/14 16:07	
Thallium	ug/L	ND	20.0	04/09/14 16:07	
Zinc	ug/L	ND	50.0	04/09/14 16:07	

LABORATORY CONTROL SAMPLE: 1356775

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9850	99	85-115	
Antimony	ug/L	1000	1090	109	85-115	
Arsenic	ug/L	1000	1020	102	85-115	
Beryllium	ug/L	1000	994	99	85-115	
Cadmium	ug/L	1000	1030	103	85-115	
Chromium	ug/L	1000	949	95	85-115	
Cobalt	ug/L	1000	1030	103	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	9720	97	85-115	
Lead	ug/L	1000	1010	101	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1060	106	85-115	
Silver	ug/L	500	493	99	85-115	
Thallium	ug/L	1000	1030	103	85-115	
Zinc	ug/L	1000	947	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1356776 1356777

Parameter	Units	60166218001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	ND	50000	50000	49300	51400	97	101	70-130	4	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-257

Pace Project No.: 60166188

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1356776 1356777												
Parameter	Units	60166218001		MS	MSD	MS		MSD	% Rec		Max	
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	RPD	RPD
Antimony	ug/L	ND	5000	5000	5000	5580	5820	111	115	70-130	4	7
Arsenic	ug/L	1020	5000	5000	5000	6560	6760	111	115	70-130	3	10
Beryllium	ug/L	ND	5000	5000	5000	4710	4830	94	97	70-130	3	7
Cadmium	ug/L	ND	5000	5000	5000	5440	5660	109	113	70-130	4	10
Chromium	ug/L	184	5000	5000	5000	4830	5040	93	97	70-130	4	10
Cobalt	ug/L	27.6	5000	5000	5000	4940	5140	98	102	70-130	4	6
Copper	ug/L	ND	5000	5000	5000	5500	5730	110	115	70-130	4	11
Iron	ug/L	452000	50000	50000	50000	428000	427000	-49	-50	70-130	0	10 M1
Lead	ug/L	35.4	5000	5000	5000	4610	4790	91	95	70-130	4	10
Nickel	ug/L	101	5000	5000	5000	4870	5000	95	98	70-130	3	10
Selenium	ug/L	75.0	5000	5000	5000	6320	6440	125	127	70-130	2	10
Silver	ug/L	ND	2500	2500	2500	2670	2760	107	110	70-130	3	10
Thallium	ug/L	ND	5000	5000	5000	4470	4710	89	94	70-130	5	6
Zinc	ug/L	3140	5000	5000	5000	7060	7180	78	81	70-130	2	11

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-257
Pace Project No.: 60166188

QC Batch:	MPRP/26766	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60166188001		

METHOD BLANK: 1357379 Matrix: Water
Associated Lab Samples: 60166188001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/09/14 15:29	
Antimony, Dissolved	ug/L	ND	10.0	04/09/14 15:29	
Arsenic, Dissolved	ug/L	ND	10.0	04/09/14 15:29	
Beryllium, Dissolved	ug/L	ND	1.0	04/09/14 15:29	
Cadmium, Dissolved	ug/L	ND	5.0	04/09/14 15:29	
Chromium, Dissolved	ug/L	ND	5.0	04/09/14 15:29	
Cobalt, Dissolved	ug/L	ND	5.0	04/09/14 15:29	
Copper, Dissolved	ug/L	ND	10.0	04/09/14 15:29	
Iron, Dissolved	ug/L	ND	50.0	04/09/14 15:29	
Lead, Dissolved	ug/L	ND	5.0	04/09/14 15:29	
Nickel, Dissolved	ug/L	ND	5.0	04/09/14 15:29	
Selenium, Dissolved	ug/L	ND	15.0	04/09/14 15:29	
Silver, Dissolved	ug/L	ND	7.0	04/09/14 15:29	
Thallium, Dissolved	ug/L	ND	20.0	04/09/14 15:29	
Zinc, Dissolved	ug/L	ND	50.0	04/09/14 15:29	

LABORATORY CONTROL SAMPLE: 1357380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9170	92	85-115	
Antimony, Dissolved	ug/L	1000	937	94	85-115	
Arsenic, Dissolved	ug/L	1000	926	93	85-115	
Beryllium, Dissolved	ug/L	1000	932	93	85-115	
Cadmium, Dissolved	ug/L	1000	934	93	85-115	
Chromium, Dissolved	ug/L	1000	913	91	85-115	
Cobalt, Dissolved	ug/L	1000	947	95	85-115	
Copper, Dissolved	ug/L	1000	934	93	85-115	
Iron, Dissolved	ug/L	10000	9310	93	85-115	
Lead, Dissolved	ug/L	1000	952	95	85-115	
Nickel, Dissolved	ug/L	1000	948	95	85-115	
Selenium, Dissolved	ug/L	1000	949	95	85-115	
Silver, Dissolved	ug/L	500	458	92	85-115	
Thallium, Dissolved	ug/L	1000	933	93	85-115	
Zinc, Dissolved	ug/L	1000	960	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1357381 1357382

Parameter	Units	60166218001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	765	50000	50000	47700	47800	94	94	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-257

Pace Project No.: 60166188

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1357381 1357382											
Parameter	Units	60166218001		MS	MSD	MS		MSD	% Rec	Max	
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	RPD
Antimony, Dissolved	ug/L	ND	5000	5000	5000	5200	5160	103	103	70-130	1
Arsenic, Dissolved	ug/L	638	5000	5000	5000	6240	6120	112	110	70-130	2
Beryllium, Dissolved	ug/L	ND	5000	5000	5000	4500	4520	90	90	70-130	0
Cadmium, Dissolved	ug/L	ND	5000	5000	5000	5140	5110	103	102	70-130	1
Chromium, Dissolved	ug/L	111	5000	5000	5000	4640	4590	91	90	70-130	1
Cobalt, Dissolved	ug/L	ND	5000	5000	5000	4700	4720	94	94	70-130	0
Copper, Dissolved	ug/L	ND	5000	5000	5000	5200	5220	104	104	70-130	0
Iron, Dissolved	ug/L	303000	50000	50000	50000	428000	388000	250	171	70-130	10
Lead, Dissolved	ug/L	37.7	5000	5000	5000	4460	4470	88	89	70-130	0
Nickel, Dissolved	ug/L	57.2	5000	5000	5000	4600	4600	91	91	70-130	0
Selenium, Dissolved	ug/L	ND	5000	5000	5000	5850	5800	117	116	70-130	1
Silver, Dissolved	ug/L	ND	2500	2500	2500	2520	2500	101	100	70-130	1
Thallium, Dissolved	ug/L	ND	5000	5000	5000	4080	4120	82	82	70-130	1
Zinc, Dissolved	ug/L	2190	5000	5000	5000	7410	7100	104	98	70-130	4

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-257
Pace Project No.: 60166188

QC Batch:	MSV/60587	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60166188002		

METHOD BLANK: 1355375 Matrix: Water
Associated Lab Samples: 60166188002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/04/14 14:41	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/04/14 14:41	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/04/14 14:41	
1,2-Dichloroethane	ug/L	ND	1.0	04/04/14 14:41	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/04/14 14:41	
2-Butanone (MEK)	ug/L	ND	10.0	04/04/14 14:41	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/04/14 14:41	N2
Acetone	ug/L	ND	10.0	04/04/14 14:41	N2
Benzene	ug/L	ND	1.0	04/04/14 14:41	
Bromodichloromethane	ug/L	ND	1.0	04/04/14 14:41	
Bromoform	ug/L	ND	1.0	04/04/14 14:41	
Bromomethane	ug/L	ND	5.0	04/04/14 14:41	
Carbon tetrachloride	ug/L	ND	1.0	04/04/14 14:41	
Chloroethane	ug/L	ND	1.0	04/04/14 14:41	
Chloroform	ug/L	ND	1.0	04/04/14 14:41	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/04/14 14:41	N2
Ethylbenzene	ug/L	ND	1.0	04/04/14 14:41	
Methylene chloride	ug/L	ND	1.0	04/04/14 14:41	
Tetrachloroethene	ug/L	ND	1.0	04/04/14 14:41	
Toluene	ug/L	ND	1.0	04/04/14 14:41	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/04/14 14:41	
Trichloroethene	ug/L	ND	1.0	04/04/14 14:41	
Vinyl chloride	ug/L	ND	1.0	04/04/14 14:41	
Xylene (Total)	ug/L	ND	3.0	04/04/14 14:41	N2
1,2-Dichloroethane-d4 (S)	%	99	80-120	04/04/14 14:41	
4-Bromofluorobenzene (S)	%	92	80-120	04/04/14 14:41	
Toluene-d8 (S)	%	102	80-120	04/04/14 14:41	

LABORATORY CONTROL SAMPLE: 1355376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.9	100	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.6	103	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.9	100	67-124	
1,2-Dichloroethane	ug/L	20	19.6	98	70-126	
1,4-Dichlorobenzene	ug/L	20	19.4	97	74-120	
2-Butanone (MEK)	ug/L	100	120	120	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	59-131	N2
Acetone	ug/L	100	155	155	38-134	L0,N2
Benzene	ug/L	20	19.2	96	75-120	
Bromodichloromethane	ug/L	20	19.7	98	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-257

Pace Project No.: 60166188

LABORATORY CONTROL SAMPLE: 1355376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.8	99	65-127	
Bromomethane	ug/L	20	20.2	101	13-157	
Carbon tetrachloride	ug/L	20	20.3	102	70-131	
Chloroethane	ug/L	20	20.4	102	47-133	
Chloroform	ug/L	20	19.2	96	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.1	101	68-127	N2
Ethylbenzene	ug/L	20	19.6	98	74-122	
Methylene chloride	ug/L	20	17.8	89	64-129	
Tetrachloroethene	ug/L	20	20.0	100	73-125	
Toluene	ug/L	20	19.7	99	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.0	100	66-129	
Trichloroethene	ug/L	20	20.1	100	71-123	
Vinyl chloride	ug/L	20	21.7	109	43-129	
Xylene (Total)	ug/L	60	60.7	101	75-121	N2
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			96	80-120	
Toluene-d8 (S)	%			100	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-257
Pace Project No.: 60166188

QC Batch:	MSV/60626	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60166188001		

METHOD BLANK: 1356447 Matrix: Water
Associated Lab Samples: 60166188001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/07/14 10:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/07/14 10:47	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/07/14 10:47	
1,2-Dichloroethane	ug/L	ND	1.0	04/07/14 10:47	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/07/14 10:47	
2-Butanone (MEK)	ug/L	ND	10.0	04/07/14 10:47	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/07/14 10:47	N2
Acetone	ug/L	ND	10.0	04/07/14 10:47	N2
Benzene	ug/L	ND	1.0	04/07/14 10:47	
Bromodichloromethane	ug/L	ND	1.0	04/07/14 10:47	
Bromoform	ug/L	ND	1.0	04/07/14 10:47	
Bromomethane	ug/L	ND	5.0	04/07/14 10:47	
Carbon tetrachloride	ug/L	ND	1.0	04/07/14 10:47	
Chloroethane	ug/L	ND	1.0	04/07/14 10:47	
Chloroform	ug/L	ND	1.0	04/07/14 10:47	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/07/14 10:47	N2
Ethylbenzene	ug/L	ND	1.0	04/07/14 10:47	
Methylene chloride	ug/L	ND	1.0	04/07/14 10:47	
Tetrachloroethene	ug/L	ND	1.0	04/07/14 10:47	
Toluene	ug/L	ND	1.0	04/07/14 10:47	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/07/14 10:47	
Trichloroethene	ug/L	ND	1.0	04/07/14 10:47	
Vinyl chloride	ug/L	ND	1.0	04/07/14 10:47	
Xylene (Total)	ug/L	ND	3.0	04/07/14 10:47	N2
1,2-Dichloroethane-d4 (S)	%	99	80-120	04/07/14 10:47	
4-Bromofluorobenzene (S)	%	94	80-120	04/07/14 10:47	
Toluene-d8 (S)	%	104	80-120	04/07/14 10:47	

LABORATORY CONTROL SAMPLE: 1356448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.2	91	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	18.9	94	67-127	N2
1,1,2-Trichloroethane	ug/L	20	18.9	94	67-124	
1,2-Dichloroethane	ug/L	20	19.4	97	70-126	
1,4-Dichlorobenzene	ug/L	20	18.1	90	74-120	
2-Butanone (MEK)	ug/L	100	118	118	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	97.2	97	59-131	N2
Acetone	ug/L	100	156	156	38-134	L0,N2
Benzene	ug/L	20	18.3	91	75-120	
Bromodichloromethane	ug/L	20	19.5	97	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-257

Pace Project No.: 60166188

LABORATORY CONTROL SAMPLE: 1356448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.5	102	65-127	
Bromomethane	ug/L	20	18.9	94	13-157	
Carbon tetrachloride	ug/L	20	19.7	99	70-131	
Chloroethane	ug/L	20	19.6	98	47-133	
Chloroform	ug/L	20	18.3	92	65-127	
cis-1,2-Dichloroethene	ug/L	20	18.8	94	68-127	N2
Ethylbenzene	ug/L	20	19.3	97	74-122	
Methylene chloride	ug/L	20	16.2	81	64-129	
Tetrachloroethene	ug/L	20	18.9	95	73-125	
Toluene	ug/L	20	18.4	92	69-126	
trans-1,2-Dichloroethene	ug/L	20	19.3	97	66-129	
Trichloroethene	ug/L	20	18.8	94	71-123	
Vinyl chloride	ug/L	20	20.6	103	43-129	
Xylene (Total)	ug/L	60	57.5	96	75-121	N2
1,2-Dichloroethane-d4 (S)	%			95	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			96	80-120	

MATRIX SPIKE SAMPLE: 1356449

Parameter	Units	60166218001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	10000	14800	148	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	10000	11100	111	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	10000	13000	130	52-143	
1,2-Dichloroethane	ug/L	ND	10000	13800	138	49-144	
1,4-Dichlorobenzene	ug/L	675	10000	10900	102	33-140	
2-Butanone (MEK)	ug/L	146000	50000	215000	138	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50000	76700	145	40-160	N2
Acetone	ug/L	334000	50000	411000	155	10-160	N2
Benzene	ug/L	ND	10000	13700	136	37-151	
Bromodichloromethane	ug/L	ND	10000	14400	144	35-142	M1
Bromoform	ug/L	ND	10000	13100	131	45-142	
Bromomethane	ug/L	ND	10000	13900	139	10-158	
Carbon tetrachloride	ug/L	ND	10000	16000	160	70-140	M1
Chloroethane	ug/L	ND	10000	14500	145	19-152	
Chloroform	ug/L	ND	10000	14000	140	51-138	M1
cis-1,2-Dichloroethene	ug/L	ND	10000	14200	142	34-147	N2
Ethylbenzene	ug/L	ND	10000	12500	124	40-142	
Methylene chloride	ug/L	760	10000	12900	121	31-144	
Tetrachloroethene	ug/L	ND	10000	13200	132	64-148	
Toluene	ug/L	ND	10000	13900	139	47-150	
trans-1,2-Dichloroethene	ug/L	ND	10000	14800	148	54-151	
Trichloroethene	ug/L	ND	10000	14400	144	71-149	
Vinyl chloride	ug/L	ND	10000	15700	157	22-146	M1
Xylene (Total)	ug/L	ND	30000	37700	126	37-144	N2
1,2-Dichloroethane-d4 (S)	%				133	80-120	S0
4-Bromofluorobenzene (S)	%				96	80-120	S2

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-257

Pace Project No.: 60166188

MATRIX SPIKE SAMPLE:		1356449					
Parameter	Units	60166218001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%					101	
Preservation pH		6.0		6.0		80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-257
Pace Project No.: 60166188

QC Batch:	OEXT/43485	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60166188001		

METHOD BLANK: 1355151 Matrix: Water
Associated Lab Samples: 60166188001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/07/14 13:37	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/07/14 13:37	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/07/14 13:37	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/07/14 13:37	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/07/14 13:37	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/07/14 13:37	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/07/14 13:37	
Hexachloroethane	ug/L	ND	5.0	04/07/14 13:37	
Naphthalene	ug/L	ND	5.0	04/07/14 13:37	
Nitrobenzene	ug/L	ND	5.0	04/07/14 13:37	
Pentachlorophenol	ug/L	ND	5.0	04/07/14 13:37	
Phenol	ug/L	ND	5.0	04/07/14 13:37	
2,4,6-Tribromophenol (S)	%	76	39-120	04/07/14 13:37	
2-Fluorobiphenyl (S)	%	77	39-120	04/07/14 13:37	
2-Fluorophenol (S)	%	40	17-120	04/07/14 13:37	
Nitrobenzene-d5 (S)	%	76	33-120	04/07/14 13:37	
Phenol-d6 (S)	%	26	11-120	04/07/14 13:37	
Terphenyl-d14 (S)	%	76	45-120	04/07/14 13:37	

LABORATORY CONTROL SAMPLE: 1355152

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	36.6	73	46-120	
2,4,6-Trichlorophenol	ug/L	50	37.4	75	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	28.8	58	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	25.5	51	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	42.1	84	40-133	
Hexachloro-1,3-butadiene	ug/L	50	36.6	73	44-116	
Hexachlorocyclopentadiene	ug/L	100	72.3	72	24-120	
Hexachloroethane	ug/L	50	33.5	67	43-113	
Naphthalene	ug/L	50	36.5	73	48-120	
Nitrobenzene	ug/L	50	36.8	74	48-120	
Pentachlorophenol	ug/L	50	37.0	74	47-120	
Phenol	ug/L	50	12.1	24	16-112	
2,4,6-Tribromophenol (S)	%			80	39-120	
2-Fluorobiphenyl (S)	%			77	39-120	
2-Fluorophenol (S)	%			37	17-120	
Nitrobenzene-d5 (S)	%			75	33-120	
Phenol-d6 (S)	%			24	11-120	
Terphenyl-d14 (S)	%			78	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-257

Pace Project No.: 60166188

MATRIX SPIKE SAMPLE:		1355153					
Parameter	Units	60166218001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3910	78	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4400	88	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	4060	81	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	7840	5000	9500	33	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	2520J	50	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3830	77	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	2000	20	11-120	
Hexachloroethane	ug/L	ND	5000	3420	68	40-113	
Naphthalene	ug/L	1760	5000	5250	70	45-120	
Nitrobenzene	ug/L	ND	5000	4060	81	38-120	
Pentachlorophenol	ug/L	ND	5000	4740	95	43-135	
Phenol	ug/L	11400	5000	10700	-16	13-112	M1
2,4,6-Tribromophenol (S)	%				89	39-120	
2-Fluorobiphenyl (S)	%				84	39-120	
2-Fluorophenol (S)	%				42	17-120	
Nitrobenzene-d5 (S)	%				132	33-120	S0
Phenol-d6 (S)	%				30	11-120	
Terphenyl-d14 (S)	%				103	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-257

Pace Project No.: 60166188

QC Batch: WET/47176

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60166188001

METHOD BLANK: 1356614

Matrix: Water

Associated Lab Samples: 60166188001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/08/14 07:27	

LABORATORY CONTROL SAMPLE: 1356615

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	40.2	100	78-114	

MATRIX SPIKE SAMPLE: 1356620

Parameter	Units	60165777006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	9.9	41.7	47.8	91	78-114	

SAMPLE DUPLICATE: 1356622

Parameter	Units	60166218001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1580	1420	11	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-257

Pace Project No.: 60166188

QC Batch: WET/47263

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60166188001

METHOD BLANK: 1358903

Matrix: Water

Associated Lab Samples: 60166188001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	04/11/14 10:13	

LABORATORY CONTROL SAMPLE: 1358904

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: 1358906

Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	13.3	83.3	71.2	69	64-132	

SAMPLE DUPLICATE: 1358905

Parameter	Units	60166218001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	7.7	9.2	18	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-257

Pace Project No.: 60166188

QC Batch: WET/47157

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60166188001

METHOD BLANK: 1356358

Matrix: Water

Associated Lab Samples: 60166188001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/07/14 09:30	

SAMPLE DUPLICATE: 1356359

Parameter	Units	60166094001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	26.0	23.0	12	10	D6

SAMPLE DUPLICATE: 1356360

Parameter	Units	60166218001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2940	3060	4	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-257

Pace Project No.: 60166188

QC Batch: WET/47169 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60166188001

SAMPLE DUPLICATE: 1356543

Parameter	Units	60166218001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.6	5.6	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-257

Pace Project No.: 60166188

QC Batch: WET/47089

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60166188001

METHOD BLANK: 1354741

Matrix: Water

Associated Lab Samples: 60166188001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/08/14 13:53	

LABORATORY CONTROL SAMPLE: 1354742

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	226	114	85-115	

SAMPLE DUPLICATE: 1354743

Parameter	Units	60166082002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	4.0	5.6	33	17	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-257

Pace Project No.: 60166188

QC Batch:	WETA/28870	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60166188001		

METHOD BLANK: 1354561 Matrix: Water

Associated Lab Samples: 60166188001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/03/14 11:56	

LABORATORY CONTROL SAMPLE: 1354562

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	101	90-110	

MATRIX SPIKE SAMPLE: 1354563

Parameter	Units	60166044003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.74	2	2.6	92	90-110	

MATRIX SPIKE SAMPLE: 1354564

Parameter	Units	60166050003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.2	108	90-110	

SAMPLE DUPLICATE: 1354565

Parameter	Units	60166078001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	2.6	2.5	2	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-257

Pace Project No.: 60166188

QC Batch:	WETA/28960	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60166188001		

METHOD BLANK: 1357750 Matrix: Water
Associated Lab Samples: 60166188001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	04/10/14 13:30	

LABORATORY CONTROL SAMPLE: 1357751

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	48.9	98	90-110	

MATRIX SPIKE SAMPLE: 1357752

Parameter	Units	60165921004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	1600	2500	3910	93	90-110	

MATRIX SPIKE SAMPLE: 1357754

Parameter	Units	60165795001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	1870	1000	2670	80	90-110	M1

SAMPLE DUPLICATE: 1357753

Parameter	Units	60165777003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	55.3	63.4	14	25	

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QUALIFIERS

Project: BRIDGETON LF 316-257

Pace Project No.: 60166188

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/60587

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

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
H2	Extraction or preparation conducted outside EPA method holding time.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
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.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
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.
S2	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-257

Pace Project No.: 60166188

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60166188001	316-257	EPA 200.7	MPRP/26757	EPA 200.7	ICP/20331
60166188001	316-257	EPA 200.7	MPRP/26743	EPA 200.7	ICP/20320
60166188001	316-257	EPA 200.7	MPRP/26766	EPA 200.7	ICP/20340
60166188001	316-257	EPA 245.1	MERP/8278	EPA 245.1	MERC/8234
60166188001	316-257	EPA 245.1	MERP/8285	EPA 245.1	MERC/8239
60166188001	316-257	EPA 625	OEXT/43485	EPA 625	MSSV/13879
60166188001	316-257	EPA 624 Low	MSV/60626		
60166188002	TRIP BLANK	EPA 624 Low	MSV/60587		
60166188001	316-257	EPA 1664A	WET/47176		
60166188001	316-257	EPA 1664A	WET/47263		
60166188001	316-257	SM 2540D	WET/47157		
60166188001	316-257	SM 4500-H+B	WET/47169		
60166188001	316-257	SM 5210B	WET/47089	SM 5210B	WET/47192
60166188001	316-257	EPA 350.1	WETA/28870		
60166188001	316-257	EPA 410.4	WETA/28960		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO# : 60166188

60166188

Client Name: BarrCourier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☒ XroadTracking #: _____ 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 ☒ 12PICThermometer Used: T-239 T-194Type of Ice: Wet Blue ☐ None ☐ Samples received on ice, cooling process has begun.
(circle one)Cooler Temperature: 9.4Date and initials of person examining contents: 4/3/14

Temperature should be above freezing to 6°C

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

April 11, 2014

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

RE: Project: BRIDGETON LF 316-258
Pace Project No.: 60166218

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 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.
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-258

Pace Project No.: 60166218

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 316-258

Pace Project No.: 60166218

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60166218001	316-258	Water	04/02/14 10:30	04/03/14 01:30
60166218002	TRIP BLANK	Water	04/02/14 10:30	04/03/14 01:30

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-258

Pace Project No.: 60166218

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60166218001	316-258	EPA 200.7	JGP	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
		EPA 624 Low	EAK	28
60166218002	TRIP BLANK			

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-258

Pace Project No.: 60166218

Sample: 316-258		Lab ID: 60166218001	Collected: 04/02/14 10:30	Received: 04/03/14 01:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	ND	ug/L	750	2	04/08/14 12:45	04/09/14 16:25	7429-90-5	D3
Antimony	ND	ug/L	100	2	04/08/14 12:45	04/09/14 16:25	7440-36-0	
Arsenic	1020	ug/L	50.0	1	04/08/14 12:45	04/09/14 16:21	7440-38-2	
Beryllium	ND	ug/L	5.0	1	04/08/14 12:45	04/09/14 16:21	7440-41-7	M1
Cadmium	ND	ug/L	25.0	1	04/08/14 12:45	04/09/14 16:21	7440-43-9	
Chromium	184	ug/L	25.0	1	04/08/14 12:45	04/09/14 16:21	7440-47-3	
Cobalt	27.6	ug/L	25.0	1	04/08/14 12:45	04/09/14 16:21	7440-48-4	
Copper	ND	ug/L	50.0	1	04/08/14 12:45	04/09/14 16:21	7440-50-8	
Iron	452000	ug/L	250	1	04/08/14 12:45	04/09/14 16:21	7439-89-6	
Lead	35.4	ug/L	25.0	1	04/08/14 12:45	04/09/14 16:21	7439-92-1	
Nickel	101	ug/L	25.0	1	04/08/14 12:45	04/09/14 16:21	7440-02-0	
Selenium	75.0	ug/L	75.0	1	04/08/14 12:45	04/09/14 16:21	7782-49-2	
Silver	ND	ug/L	35.0	1	04/08/14 12:45	04/09/14 16:21	7440-22-4	
Thallium	ND	ug/L	100	1	04/08/14 12:45	04/09/14 16:21	7440-28-0	M1
Zinc	3140	ug/L	500	2	04/08/14 12:45	04/09/14 16:25	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	765	ug/L	750	2	04/09/14 09:30	04/09/14 15:45	7429-90-5	M1
Antimony, Dissolved	ND	ug/L	50.0	1	04/09/14 09:30	04/09/14 15:43	7440-36-0	
Arsenic, Dissolved	638	ug/L	50.0	1	04/09/14 09:30	04/09/14 15:43	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	04/09/14 09:30	04/09/14 15:43	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	04/09/14 09:30	04/09/14 15:43	7440-43-9	
Chromium, Dissolved	111	ug/L	25.0	1	04/09/14 09:30	04/09/14 15:43	7440-47-3	
Cobalt, Dissolved	ND	ug/L	25.0	1	04/09/14 09:30	04/09/14 15:43	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	04/09/14 09:30	04/09/14 15:43	7440-50-8	
Iron, Dissolved	303000	ug/L	250	1	04/09/14 09:30	04/09/14 15:43	7439-89-6	
Lead, Dissolved	37.7	ug/L	25.0	1	04/09/14 09:30	04/09/14 15:43	7439-92-1	
Nickel, Dissolved	57.2	ug/L	25.0	1	04/09/14 09:30	04/09/14 15:43	7440-02-0	M1
Selenium, Dissolved	ND	ug/L	75.0	1	04/09/14 09:30	04/09/14 15:43	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	04/09/14 09:30	04/09/14 15:43	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	04/09/14 09:30	04/09/14 15:43	7440-28-0	
Zinc, Dissolved	2190	ug/L	500	2	04/09/14 09:30	04/09/14 15:45	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	11.4	ug/L	6.0	1	04/03/14 12:50	04/04/14 09:46	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND	ug/L	6.0	1	04/07/14 11:00	04/08/14 11:31	7439-97-6	R1
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Phenol	11400	ug/L	1000	2	04/04/14 00:00	04/07/14 17:48	108-95-2	M1
2-Methylphenol(o-Cresol)	ND	ug/L	2000	2	04/04/14 00:00	04/07/14 17:48	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	7840	ug/L	4000	2	04/04/14 00:00	04/07/14 17:48		N2
Nitrobenzene	ND	ug/L	1000	2	04/04/14 00:00	04/07/14 17:48	98-95-3	
1,2,4-Trichlorobenzene	ND	ug/L	1000	2	04/04/14 00:00	04/07/14 17:48	120-82-1	
Naphthalene	1760	ug/L	1000	2	04/04/14 00:00	04/07/14 17:48	91-20-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-258

Pace Project No.: 60166218

Sample: 316-258		Lab ID: 60166218001	Collected: 04/02/14 10:30	Received: 04/03/14 01:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Hexachloro-1,3-butadiene	ND ug/L		1000	2	04/04/14 00:00	04/07/14 17:48	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	04/04/14 00:00	04/07/14 17:48	77-47-4	
2,4,6-Trichlorophenol	ND ug/L		1000	2	04/04/14 00:00	04/07/14 17:48	88-06-2	
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	04/04/14 00:00	04/07/14 17:48	534-52-1	
Pentachlorophenol	ND ug/L		1000	2	04/04/14 00:00	04/07/14 17:48	87-86-5	
Hexachloroethane	ND ug/L		1000	2	04/04/14 00:00	04/07/14 17:48	67-72-1	
Surrogates								
Nitrobenzene-d5 (S)	140 %		33-120	2	04/04/14 00:00	04/07/14 17:48	4165-60-0	S0
2-Fluorobiphenyl (S)	82 %		39-120	2	04/04/14 00:00	04/07/14 17:48	321-60-8	
Terphenyl-d14 (S)	93 %		45-120	2	04/04/14 00:00	04/07/14 17:48	1718-51-0	
Phenol-d6 (S)	33 %		11-120	2	04/04/14 00:00	04/07/14 17:48	13127-88-3	
2-Fluorophenol (S)	43 %		17-120	2	04/04/14 00:00	04/07/14 17:48	367-12-4	
2,4,6-Tribromophenol (S)	86 %		39-120	2	04/04/14 00:00	04/07/14 17:48	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	334000 ug/L		5000	500		04/07/14 11:34	67-64-1	L1,N2
Benzene	ND ug/L		500	500		04/07/14 11:34	71-43-2	
Bromodichloromethane	ND ug/L		500	500		04/07/14 11:34	75-27-4	M1
Bromoform	ND ug/L		500	500		04/07/14 11:34	75-25-2	
Bromomethane	ND ug/L		2500	500		04/07/14 11:34	74-83-9	
2-Butanone (MEK)	146000 ug/L		5000	500		04/07/14 11:34	78-93-3	N2
Carbon tetrachloride	ND ug/L		500	500		04/07/14 11:34	56-23-5	M1
Chloroethane	ND ug/L		500	500		04/07/14 11:34	75-00-3	
Chloroform	ND ug/L		500	500		04/07/14 11:34	67-66-3	M1
1,4-Dichlorobenzene	675 ug/L		500	500		04/07/14 11:34	106-46-7	
1,2-Dichloroethane	ND ug/L		500	500		04/07/14 11:34	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		500	500		04/07/14 11:34	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		500	500		04/07/14 11:34	156-60-5	
Ethylbenzene	ND ug/L		500	500		04/07/14 11:34	100-41-4	
Methylene chloride	760 ug/L		500	500		04/07/14 11:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5000	500		04/07/14 11:34	108-10-1	N2
1,1,1,2-Tetrachloroethane	ND ug/L		500	500		04/07/14 11:34	79-34-5	N2
Tetrachloroethene	ND ug/L		500	500		04/07/14 11:34	127-18-4	
Toluene	ND ug/L		500	500		04/07/14 11:34	108-88-3	
1,1,1-Trichloroethane	ND ug/L		500	500		04/07/14 11:34	71-55-6	
1,1,2-Trichloroethane	ND ug/L		500	500		04/07/14 11:34	79-00-5	
Trichloroethene	ND ug/L		500	500		04/07/14 11:34	79-01-6	
Vinyl chloride	ND ug/L		500	500		04/07/14 11:34	75-01-4	M1
Xylene (Total)	ND ug/L		1500	500		04/07/14 11:34	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	95 %		80-120	500		04/07/14 11:34	460-00-4	
Toluene-d8 (S)	102 %		80-120	500		04/07/14 11:34	2037-26-5	
1,2-Dichloroethane-d4 (S)	137 %		80-120	500		04/07/14 11:34	17060-07-0	S0
Preservation pH	6.0		1.0	500		04/07/14 11:34		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1580 mg/L		5.0	1		04/08/14 07:31		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-258

Pace Project No.: 60166218

Sample: 316-258		Lab ID: 60166218001	Collected: 04/02/14 10:30	Received: 04/03/14 01:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	7.7	mg/L	5.0	1		04/11/14 10:14		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	2940	mg/L	5.0	1		04/07/14 09:32		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.6	Std. Units	0.10	1		04/07/14 16:20		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	45800	mg/L	2.0	1	04/03/14 17:21	04/08/14 15:38		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	570	mg/L	20.0	200		04/04/14 11:39	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	62500	mg/L	5000	500		04/10/14 13:50		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-258

Pace Project No.: 60166218

Sample: TRIP BLANK		Lab ID: 60166218002	Collected: 04/02/14 10:30	Received: 04/03/14 01:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		04/07/14 13:40	67-64-1	L1,N2
Benzene	ND ug/L		1.0	1		04/07/14 13:40	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/07/14 13:40	75-27-4	
Bromoform	ND ug/L		1.0	1		04/07/14 13:40	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/07/14 13:40	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/07/14 13:40	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		04/07/14 13:40	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/07/14 13:40	75-00-3	
Chloroform	ND ug/L		1.0	1		04/07/14 13:40	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/07/14 13:40	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/07/14 13:40	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/07/14 13:40	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/07/14 13:40	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/07/14 13:40	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/07/14 13:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/07/14 13:40	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/07/14 13:40	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/07/14 13:40	127-18-4	
Toluene	ND ug/L		1.0	1		04/07/14 13:40	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/07/14 13:40	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/07/14 13:40	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/07/14 13:40	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/07/14 13:40	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/07/14 13:40	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	94 %		80-120	1		04/07/14 13:40	460-00-4	IS,P2
Toluene-d8 (S)	98 %		80-120	1		04/07/14 13:40	2037-26-5	
1,2-Dichloroethane-d4 (S)	95 %		80-120	1		04/07/14 13:40	17060-07-0	
Preservation pH	6.0		1.0	1		04/07/14 13:40		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-258

Pace Project No.: 60166218

QC Batch: MERP/8278

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60166218001

METHOD BLANK: 1354732

Matrix: Water

Associated Lab Samples: 60166218001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/03/14 16:15	

LABORATORY CONTROL SAMPLE: 1354733

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: 1354734 1354735

Parameter	Units	60165978001 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	127	123	82	79	70-130	3	20	

MATRIX SPIKE SAMPLE: 1354736

Parameter	Units	60165979001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	8.2	150	124	77	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-258

Pace Project No.: 60166218

QC Batch: MERP/8285

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60166218001

METHOD BLANK: 1356434

Matrix: Water

Associated Lab Samples: 60166218001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/08/14 11:22	

LABORATORY CONTROL SAMPLE: 1356435

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1356436 1356437

Parameter	Units	60166218001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	189	137	126	91	70-130	32	20	R1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-258
Pace Project No.: 60166218

QC Batch: MPRP/26757 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60166218001

METHOD BLANK: 1356774 Matrix: Water
Associated Lab Samples: 60166218001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/09/14 16:07	
Antimony	ug/L	ND	10.0	04/09/14 16:07	
Arsenic	ug/L	ND	10.0	04/09/14 16:07	
Beryllium	ug/L	ND	1.0	04/09/14 16:07	
Cadmium	ug/L	ND	5.0	04/09/14 16:07	
Chromium	ug/L	ND	5.0	04/09/14 16:07	
Cobalt	ug/L	ND	5.0	04/09/14 16:07	
Copper	ug/L	ND	10.0	04/09/14 16:07	
Iron	ug/L	ND	50.0	04/09/14 16:07	
Lead	ug/L	ND	5.0	04/09/14 16:07	
Nickel	ug/L	ND	5.0	04/09/14 16:07	
Selenium	ug/L	ND	15.0	04/09/14 16:07	
Silver	ug/L	ND	7.0	04/09/14 16:07	
Thallium	ug/L	ND	20.0	04/09/14 16:07	
Zinc	ug/L	ND	50.0	04/09/14 16:07	

LABORATORY CONTROL SAMPLE: 1356775

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9850	99	85-115	
Antimony	ug/L	1000	1090	109	85-115	
Arsenic	ug/L	1000	1020	102	85-115	
Beryllium	ug/L	1000	994	99	85-115	
Cadmium	ug/L	1000	1030	103	85-115	
Chromium	ug/L	1000	949	95	85-115	
Cobalt	ug/L	1000	1030	103	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	9720	97	85-115	
Lead	ug/L	1000	1010	101	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1060	106	85-115	
Silver	ug/L	500	493	99	85-115	
Thallium	ug/L	1000	1030	103	85-115	
Zinc	ug/L	1000	947	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1356776 1356777

Parameter	Units	60166218001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	ND	50000	50000	49300	51400	97	101	70-130	4	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-258

Pace Project No.: 60166218

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1356776 1356777													
Parameter	Units	60166218001		MS	MSD	MS	MSD	MS	MSD	% Rec Limits	Max		Qual
		Result	Conc.	Spike	Spike						Result	Result	
Antimony	ug/L	ND	5000	5000	5580	5820	111	115	70-130	4	7		
Arsenic	ug/L	1020	5000	5000	6560	6760	111	115	70-130	3	10		
Beryllium	ug/L	ND	5000	5000	4710	4830	94	97	70-130	3	7		
Cadmium	ug/L	ND	5000	5000	5440	5660	109	113	70-130	4	10		
Chromium	ug/L	184	5000	5000	4830	5040	93	97	70-130	4	10		
Cobalt	ug/L	27.6	5000	5000	4940	5140	98	102	70-130	4	6		
Copper	ug/L	ND	5000	5000	5500	5730	110	115	70-130	4	11		
Iron	ug/L	452000	50000	50000	428000	427000	-49	-50	70-130	0	10	M1	
Lead	ug/L	35.4	5000	5000	4610	4790	91	95	70-130	4	10		
Nickel	ug/L	101	5000	5000	4870	5000	95	98	70-130	3	10		
Selenium	ug/L	75.0	5000	5000	6320	6440	125	127	70-130	2	10		
Silver	ug/L	ND	2500	2500	2670	2760	107	110	70-130	3	10		
Thallium	ug/L	ND	5000	5000	4470	4710	89	94	70-130	5	6		
Zinc	ug/L	3140	5000	5000	7060	7180	78	81	70-130	2	11		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-258
Pace Project No.: 60166218

QC Batch: MPRP/26766 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60166218001

METHOD BLANK: 1357379 Matrix: Water
Associated Lab Samples: 60166218001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/09/14 15:29	
Antimony, Dissolved	ug/L	ND	10.0	04/09/14 15:29	
Arsenic, Dissolved	ug/L	ND	10.0	04/09/14 15:29	
Beryllium, Dissolved	ug/L	ND	1.0	04/09/14 15:29	
Cadmium, Dissolved	ug/L	ND	5.0	04/09/14 15:29	
Chromium, Dissolved	ug/L	ND	5.0	04/09/14 15:29	
Cobalt, Dissolved	ug/L	ND	5.0	04/09/14 15:29	
Copper, Dissolved	ug/L	ND	10.0	04/09/14 15:29	
Iron, Dissolved	ug/L	ND	50.0	04/09/14 15:29	
Lead, Dissolved	ug/L	ND	5.0	04/09/14 15:29	
Nickel, Dissolved	ug/L	ND	5.0	04/09/14 15:29	
Selenium, Dissolved	ug/L	ND	15.0	04/09/14 15:29	
Silver, Dissolved	ug/L	ND	7.0	04/09/14 15:29	
Thallium, Dissolved	ug/L	ND	20.0	04/09/14 15:29	
Zinc, Dissolved	ug/L	ND	50.0	04/09/14 15:29	

LABORATORY CONTROL SAMPLE: 1357380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9170	92	85-115	
Antimony, Dissolved	ug/L	1000	937	94	85-115	
Arsenic, Dissolved	ug/L	1000	926	93	85-115	
Beryllium, Dissolved	ug/L	1000	932	93	85-115	
Cadmium, Dissolved	ug/L	1000	934	93	85-115	
Chromium, Dissolved	ug/L	1000	913	91	85-115	
Cobalt, Dissolved	ug/L	1000	947	95	85-115	
Copper, Dissolved	ug/L	1000	934	93	85-115	
Iron, Dissolved	ug/L	10000	9310	93	85-115	
Lead, Dissolved	ug/L	1000	952	95	85-115	
Nickel, Dissolved	ug/L	1000	948	95	85-115	
Selenium, Dissolved	ug/L	1000	949	95	85-115	
Silver, Dissolved	ug/L	500	458	92	85-115	
Thallium, Dissolved	ug/L	1000	933	93	85-115	
Zinc, Dissolved	ug/L	1000	960	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1357381 1357382

Parameter	Units	60166218001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	765	50000	50000	47700	47800	94	94	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-258

Pace Project No.: 60166218

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1357381 1357382													
Parameter	Units	60166218001		MS	MSD	MS	MSD	MS	MSD	% Rec Limits	Max		Qual
		Result	Conc.	Spike	Spike						Result	Result	
Antimony, Dissolved	ug/L	ND	5000	5000	5200	5160	103	103	70-130	1	7		
Arsenic, Dissolved	ug/L	638	5000	5000	6240	6120	112	110	70-130	2	10		
Beryllium, Dissolved	ug/L	ND	5000	5000	4500	4520	90	90	70-130	0	7		
Cadmium, Dissolved	ug/L	ND	5000	5000	5140	5110	103	102	70-130	1	10		
Chromium, Dissolved	ug/L	111	5000	5000	4640	4590	91	90	70-130	1	10		
Cobalt, Dissolved	ug/L	ND	5000	5000	4700	4720	94	94	70-130	0	6		
Copper, Dissolved	ug/L	ND	5000	5000	5200	5220	104	104	70-130	0	11		
Iron, Dissolved	ug/L	303000	50000	50000	428000	388000	250	171	70-130	10	10	M1	
Lead, Dissolved	ug/L	37.7	5000	5000	4460	4470	88	89	70-130	0	10		
Nickel, Dissolved	ug/L	57.2	5000	5000	4600	4600	91	91	70-130	0	10		
Selenium, Dissolved	ug/L	ND	5000	5000	5850	5800	117	116	70-130	1	10		
Silver, Dissolved	ug/L	ND	2500	2500	2520	2500	101	100	70-130	1	10		
Thallium, Dissolved	ug/L	ND	5000	5000	4080	4120	82	82	70-130	1	6		
Zinc, Dissolved	ug/L	2190	5000	5000	7410	7100	104	98	70-130	4	11		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-258

Pace Project No.: 60166218

QC Batch:	MSV/60626	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples: 60166218001, 60166218002			

METHOD BLANK: 1356447 Matrix: Water

Associated Lab Samples: 60166218001, 60166218002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/07/14 10:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/07/14 10:47	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/07/14 10:47	
1,2-Dichloroethane	ug/L	ND	1.0	04/07/14 10:47	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/07/14 10:47	
2-Butanone (MEK)	ug/L	ND	10.0	04/07/14 10:47	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/07/14 10:47	N2
Acetone	ug/L	ND	10.0	04/07/14 10:47	N2
Benzene	ug/L	ND	1.0	04/07/14 10:47	
Bromodichloromethane	ug/L	ND	1.0	04/07/14 10:47	
Bromoform	ug/L	ND	1.0	04/07/14 10:47	
Bromomethane	ug/L	ND	5.0	04/07/14 10:47	
Carbon tetrachloride	ug/L	ND	1.0	04/07/14 10:47	
Chloroethane	ug/L	ND	1.0	04/07/14 10:47	
Chloroform	ug/L	ND	1.0	04/07/14 10:47	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/07/14 10:47	N2
Ethylbenzene	ug/L	ND	1.0	04/07/14 10:47	
Methylene chloride	ug/L	ND	1.0	04/07/14 10:47	
Tetrachloroethene	ug/L	ND	1.0	04/07/14 10:47	
Toluene	ug/L	ND	1.0	04/07/14 10:47	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/07/14 10:47	
Trichloroethene	ug/L	ND	1.0	04/07/14 10:47	
Vinyl chloride	ug/L	ND	1.0	04/07/14 10:47	
Xylene (Total)	ug/L	ND	3.0	04/07/14 10:47	N2
1,2-Dichloroethane-d4 (S)	%	99	80-120	04/07/14 10:47	
4-Bromofluorobenzene (S)	%	94	80-120	04/07/14 10:47	
Toluene-d8 (S)	%	104	80-120	04/07/14 10:47	

LABORATORY CONTROL SAMPLE: 1356448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.2	91	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	18.9	94	67-127	N2
1,1,2-Trichloroethane	ug/L	20	18.9	94	67-124	
1,2-Dichloroethane	ug/L	20	19.4	97	70-126	
1,4-Dichlorobenzene	ug/L	20	18.1	90	74-120	
2-Butanone (MEK)	ug/L	100	118	118	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	97.2	97	59-131	N2
Acetone	ug/L	100	156	156	38-134	L0,N2
Benzene	ug/L	20	18.3	91	75-120	
Bromodichloromethane	ug/L	20	19.5	97	68-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-258

Pace Project No.: 60166218

LABORATORY CONTROL SAMPLE: 1356448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.5	102	65-127	
Bromomethane	ug/L	20	18.9	94	13-157	
Carbon tetrachloride	ug/L	20	19.7	99	70-131	
Chloroethane	ug/L	20	19.6	98	47-133	
Chloroform	ug/L	20	18.3	92	65-127	
cis-1,2-Dichloroethene	ug/L	20	18.8	94	68-127	N2
Ethylbenzene	ug/L	20	19.3	97	74-122	
Methylene chloride	ug/L	20	16.2	81	64-129	
Tetrachloroethene	ug/L	20	18.9	95	73-125	
Toluene	ug/L	20	18.4	92	69-126	
trans-1,2-Dichloroethene	ug/L	20	19.3	97	66-129	
Trichloroethene	ug/L	20	18.8	94	71-123	
Vinyl chloride	ug/L	20	20.6	103	43-129	
Xylene (Total)	ug/L	60	57.5	96	75-121	N2
1,2-Dichloroethane-d4 (S)	%			95	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			96	80-120	

MATRIX SPIKE SAMPLE: 1356449

Parameter	Units	60166218001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	10000	14800	148	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	10000	11100	111	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	10000	13000	130	52-143	
1,2-Dichloroethane	ug/L	ND	10000	13800	138	49-144	
1,4-Dichlorobenzene	ug/L	675	10000	10900	102	33-140	
2-Butanone (MEK)	ug/L	146000	50000	215000	138	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50000	76700	145	40-160	N2
Acetone	ug/L	334000	50000	411000	155	10-160	N2
Benzene	ug/L	ND	10000	13700	136	37-151	
Bromodichloromethane	ug/L	ND	10000	14400	144	35-142	M1
Bromoform	ug/L	ND	10000	13100	131	45-142	
Bromomethane	ug/L	ND	10000	13900	139	10-158	
Carbon tetrachloride	ug/L	ND	10000	16000	160	70-140	M1
Chloroethane	ug/L	ND	10000	14500	145	19-152	
Chloroform	ug/L	ND	10000	14000	140	51-138	M1
cis-1,2-Dichloroethene	ug/L	ND	10000	14200	142	34-147	N2
Ethylbenzene	ug/L	ND	10000	12500	124	40-142	
Methylene chloride	ug/L	760	10000	12900	121	31-144	
Tetrachloroethene	ug/L	ND	10000	13200	132	64-148	
Toluene	ug/L	ND	10000	13900	139	47-150	
trans-1,2-Dichloroethene	ug/L	ND	10000	14800	148	54-151	
Trichloroethene	ug/L	ND	10000	14400	144	71-149	
Vinyl chloride	ug/L	ND	10000	15700	157	22-146	M1
Xylene (Total)	ug/L	ND	30000	37700	126	37-144	N2
1,2-Dichloroethane-d4 (S)	%				133	80-120	S0
4-Bromofluorobenzene (S)	%				96	80-120	S2

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-258

Pace Project No.: 60166218

MATRIX SPIKE SAMPLE: 1356449

Parameter	Units	60166218001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%					101	
Preservation pH		6.0		6.0		80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-258
Pace Project No.: 60166218

QC Batch:	OEXT/43485	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60166218001		

METHOD BLANK: 1355151 Matrix: Water
Associated Lab Samples: 60166218001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/07/14 13:37	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/07/14 13:37	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/07/14 13:37	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/07/14 13:37	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/07/14 13:37	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/07/14 13:37	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/07/14 13:37	
Hexachloroethane	ug/L	ND	5.0	04/07/14 13:37	
Naphthalene	ug/L	ND	5.0	04/07/14 13:37	
Nitrobenzene	ug/L	ND	5.0	04/07/14 13:37	
Pentachlorophenol	ug/L	ND	5.0	04/07/14 13:37	
Phenol	ug/L	ND	5.0	04/07/14 13:37	
2,4,6-Tribromophenol (S)	%	76	39-120	04/07/14 13:37	
2-Fluorobiphenyl (S)	%	77	39-120	04/07/14 13:37	
2-Fluorophenol (S)	%	40	17-120	04/07/14 13:37	
Nitrobenzene-d5 (S)	%	76	33-120	04/07/14 13:37	
Phenol-d6 (S)	%	26	11-120	04/07/14 13:37	
Terphenyl-d14 (S)	%	76	45-120	04/07/14 13:37	

LABORATORY CONTROL SAMPLE: 1355152

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	36.6	73	46-120	
2,4,6-Trichlorophenol	ug/L	50	37.4	75	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	28.8	58	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	25.5	51	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	42.1	84	40-133	
Hexachloro-1,3-butadiene	ug/L	50	36.6	73	44-116	
Hexachlorocyclopentadiene	ug/L	100	72.3	72	24-120	
Hexachloroethane	ug/L	50	33.5	67	43-113	
Naphthalene	ug/L	50	36.5	73	48-120	
Nitrobenzene	ug/L	50	36.8	74	48-120	
Pentachlorophenol	ug/L	50	37.0	74	47-120	
Phenol	ug/L	50	12.1	24	16-112	
2,4,6-Tribromophenol (S)	%			80	39-120	
2-Fluorobiphenyl (S)	%			77	39-120	
2-Fluorophenol (S)	%			37	17-120	
Nitrobenzene-d5 (S)	%			75	33-120	
Phenol-d6 (S)	%			24	11-120	
Terphenyl-d14 (S)	%			78	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-258

Pace Project No.: 60166218

MATRIX SPIKE SAMPLE:		1355153					
Parameter	Units	60166218001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3910	78	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4400	88	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	4060	81	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	7840	5000	9500	33	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	2520J	50	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3830	77	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	2000	20	11-120	
Hexachloroethane	ug/L	ND	5000	3420	68	40-113	
Naphthalene	ug/L	1760	5000	5250	70	45-120	
Nitrobenzene	ug/L	ND	5000	4060	81	38-120	
Pentachlorophenol	ug/L	ND	5000	4740	95	43-135	
Phenol	ug/L	11400	5000	10700	-16	13-112	M1
2,4,6-Tribromophenol (S)	%				89	39-120	
2-Fluorobiphenyl (S)	%				84	39-120	
2-Fluorophenol (S)	%				42	17-120	
Nitrobenzene-d5 (S)	%				132	33-120	S0
Phenol-d6 (S)	%				30	11-120	
Terphenyl-d14 (S)	%				103	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-258

Pace Project No.: 60166218

QC Batch:	WET/47176	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60166218001		

METHOD BLANK: 1356614 Matrix: Water

Associated Lab Samples: 60166218001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/08/14 07:27	

LABORATORY CONTROL SAMPLE: 1356615

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	40.2	100	78-114	

MATRIX SPIKE SAMPLE: 1356620

Parameter	Units	60165777006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	9.9	41.7	47.8	91	78-114	

SAMPLE DUPLICATE: 1356622

Parameter	Units	60166218001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1580	1420	11	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-258

Pace Project No.: 60166218

QC Batch: WET/47263

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60166218001

METHOD BLANK: 1358903

Matrix: Water

Associated Lab Samples: 60166218001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	04/11/14 10:13	

LABORATORY CONTROL SAMPLE: 1358904

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: 1358906

Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	13.3	83.3	71.2	69	64-132	

SAMPLE DUPLICATE: 1358905

Parameter	Units	60166218001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	7.7	9.2	18	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-258

Pace Project No.: 60166218

QC Batch: WET/47157

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60166218001

METHOD BLANK: 1356358

Matrix: Water

Associated Lab Samples: 60166218001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/07/14 09:30	

SAMPLE DUPLICATE: 1356359

Parameter	Units	60166094001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	26.0	23.0	12	10	D6

SAMPLE DUPLICATE: 1356360

Parameter	Units	60166218001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2940	3060	4	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-258

Pace Project No.: 60166218

QC Batch:	WET/47169	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
Associated Lab Samples:	60166218001		

SAMPLE DUPLICATE: 1356543

Parameter	Units	60166218001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.6	5.6	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-258

Pace Project No.: 60166218

QC Batch: WET/47100

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60166218001

METHOD BLANK: 1355077

Matrix: Water

Associated Lab Samples: 60166218001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/08/14 15:18	

LABORATORY CONTROL SAMPLE: 1355078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	201	102	85-115	

SAMPLE DUPLICATE: 1355079

Parameter	Units	60166184002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	12.2	12.1	1	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-258

Pace Project No.: 60166218

QC Batch: WETA/28881

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60166218001

METHOD BLANK: 1355243

Matrix: Water

Associated Lab Samples: 60166218001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/04/14 11:13	

LABORATORY CONTROL SAMPLE: 1355244

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

MATRIX SPIKE SAMPLE: 1355254

Parameter	Units	60166324001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1.6	2	3.1	75	90-110	M1

MATRIX SPIKE SAMPLE: 1355255

Parameter	Units	60166229001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	3.3	2	5.0	85	90-110	M1

SAMPLE DUPLICATE: 1355245

Parameter	Units	60166218001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	570	575	1	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-258

Pace Project No.: 60166218

QC Batch:	WETA/28960	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60166218001		

METHOD BLANK: 1357750 Matrix: Water

Associated Lab Samples: 60166218001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	04/10/14 13:30	

LABORATORY CONTROL SAMPLE: 1357751

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	48.9	98	90-110	

MATRIX SPIKE SAMPLE: 1357752

Parameter	Units	60165921004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	1600	2500	3910	93	90-110	

MATRIX SPIKE SAMPLE: 1357754

Parameter	Units	60165795001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	1870	1000	2670	80	90-110	M1

SAMPLE DUPLICATE: 1357753

Parameter	Units	60165777003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	55.3	63.4	14	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-258

Pace Project No.: 60166218

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.
IS	The internal standard response is below criteria. Results may be biased high.
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.
N2	The lab does not hold TNI accreditation for this parameter.
P2	Re-extraction or re-analysis could not be performed due to insufficient sample amount.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
S2	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-258

Pace Project No.: 60166218

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60166218001	316-258	EPA 200.7	MPRP/26757	EPA 200.7	ICP/20331
60166218001	316-258	EPA 200.7	MPRP/26743	EPA 200.7	ICP/20320
60166218001	316-258	EPA 200.7	MPRP/26766	EPA 200.7	ICP/20340
60166218001	316-258	EPA 245.1	MERP/8278	EPA 245.1	MERC/8234
60166218001	316-258	EPA 245.1	MERP/8285	EPA 245.1	MERC/8239
60166218001	316-258	EPA 625	OEXT/43485	EPA 625	MSSV/13879
60166218001	316-258	EPA 624 Low	MSV/60626		
60166218002	TRIP BLANK	EPA 624 Low	MSV/60626		
60166218001	316-258	EPA 1664A	WET/47176		
60166218001	316-258	EPA 1664A	WET/47263		
60166218001	316-258	SM 2540D	WET/47157		
60166218001	316-258	SM 4500-H+B	WET/47169		
60166218001	316-258	SM 5210B	WET/47100	SM 5210B	WET/47193
60166218001	316-258	EPA 350.1	WETA/28881		
60166218001	316-258	EPA 410.4	WETA/28960		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60166218



60166218

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 ☒ 2PLC

Thermometer Used: T-239 / T-194

Type of Ice: Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 3.4

Date and initials of person examining contents: 4/3/14 BA

Temperature should be above freezing to 6°C

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☒ Yes ☐ No ☐ N/A	6. <u>pH, BOD</u>
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	
Pace containers used:	☒ Yes ☐ No ☐ N/A	9.
Containers intact:	☒ Yes ☐ No ☐ N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	11.
Filtered volume received for dissolved tests?	☐ Yes ☐ No ☒ N/A	12.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	
Includes date/time/ID/analyses	Matrix: <u>WT</u>	13.
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	Nitric preserved pH 6.0, added 2.5ml pH went to 4.0 Sulfuric preserved pH 6.0, added 2.0ml pH 3.0
All containers needing preservation are found to be in compliance with EPA recommendation.	☒ Yes ☒ No ☐ N/A	
Exceptions: <u>VOA</u> coliform, TOC <u>O&G</u> WI-DRO (water), Phenolics	☒ Yes ☐ No	Initial when completed <u>BA</u>
Trip Blank present:	☒ Yes ☐ No ☐ N/A	Lot # of added preservative <u>12513 (HNO3)</u>
Pace Trip Blank lot # (if purchased): <u>Covered by label</u>		15.
Headspace in VOA vials (>6mm):	☒ Yes ☐ No ☐ N/A	
		16. <u>2015 (316-258)</u>
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ 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: _____

Date: 4/3/14

April 11, 2014

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

RE: Project: BRIDGETON LF 323-MSD TB4
Pace Project No.: 60166334

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 04, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 323-MSD TB4

Pace Project No.: 60166334

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 323-MSD TB4

Pace Project No.: 60166334

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60166334001	323-MSD TB4	Water	04/03/14 14:01	04/04/14 01:15
60166334002	TRIP BLANK	Water	04/03/14 00:00	04/04/14 01:15

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 323-MSD TB4

Pace Project No.: 60166334

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60166334001	323-MSD TB4	EPA 200.7	NDJ	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
60166334002	TRIP BLANK	EPA 624 Low	EAK	28

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ANALYTICAL RESULTS

Project: BRIDGETON LF 323-MSD TB4

Pace Project No.: 60166334

Sample: 323-MSD TB4		Lab ID: 60166334001	Collected: 04/03/14 14:01	Received: 04/04/14 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	16400	ug/L	750	2	04/09/14 15:30	04/10/14 15:55	7429-90-5	D3	
Antimony	57.8	ug/L	50.0	1	04/09/14 15:30	04/10/14 15:53	7440-36-0		
Arsenic	1180	ug/L	50.0	1	04/09/14 15:30	04/10/14 15:53	7440-38-2		
Beryllium	ND	ug/L	5.0	1	04/09/14 15:30	04/10/14 15:53	7440-41-7		
Cadmium	ND	ug/L	25.0	1	04/09/14 15:30	04/10/14 15:53	7440-43-9		
Chromium	256	ug/L	25.0	1	04/09/14 15:30	04/10/14 15:53	7440-47-3		
Cobalt	38.9	ug/L	25.0	1	04/09/14 15:30	04/10/14 15:53	7440-48-4		
Copper	59.7	ug/L	50.0	1	04/09/14 15:30	04/10/14 15:53	7440-50-8		
Iron	883000	ug/L	250	1	04/09/14 15:30	04/10/14 15:53	7439-89-6		
Lead	143	ug/L	25.0	1	04/09/14 15:30	04/10/14 15:53	7439-92-1		
Nickel	122	ug/L	25.0	1	04/09/14 15:30	04/10/14 15:53	7440-02-0		
Selenium	ND	ug/L	75.0	1	04/09/14 15:30	04/10/14 15:53	7782-49-2		
Silver	ND	ug/L	35.0	1	04/09/14 15:30	04/10/14 15:53	7440-22-4		
Thallium	ND	ug/L	100	1	04/09/14 15:30	04/10/14 15:53	7440-28-0		
Zinc	4620	ug/L	500	2	04/09/14 15:30	04/10/14 15:55	7440-66-6		
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	1630	ug/L	750	2	04/10/14 18:40	04/11/14 11:22	7429-90-5		D3
Antimony, Dissolved	ND	ug/L	100	2	04/10/14 18:40	04/11/14 11:22	7440-36-0		
Arsenic, Dissolved	1050	ug/L	50.0	1	04/10/14 18:40	04/11/14 11:18	7440-38-2		
Beryllium, Dissolved	ND	ug/L	5.0	1	04/10/14 18:40	04/11/14 11:18	7440-41-7		
Cadmium, Dissolved	ND	ug/L	25.0	1	04/10/14 18:40	04/11/14 11:18	7440-43-9		
Chromium, Dissolved	218	ug/L	25.0	1	04/10/14 18:40	04/11/14 11:18	7440-47-3		
Cobalt, Dissolved	35.0	ug/L	25.0	1	04/10/14 18:40	04/11/14 11:18	7440-48-4		
Copper, Dissolved	ND	ug/L	50.0	1	04/10/14 18:40	04/11/14 11:18	7440-50-8		
Iron, Dissolved	665000	ug/L	250	1	04/10/14 18:40	04/11/14 11:18	7439-89-6		
Lead, Dissolved	79.0	ug/L	25.0	1	04/10/14 18:40	04/11/14 11:18	7439-92-1		
Nickel, Dissolved	95.8	ug/L	25.0	1	04/10/14 18:40	04/11/14 11:18	7440-02-0		
Selenium, Dissolved	75.9	ug/L	75.0	1	04/10/14 18:40	04/11/14 11:18	7782-49-2		
Silver, Dissolved	ND	ug/L	35.0	1	04/10/14 18:40	04/11/14 11:18	7440-22-4		
Thallium, Dissolved	ND	ug/L	100	1	04/10/14 18:40	04/11/14 11:18	7440-28-0		
Zinc, Dissolved	4030	ug/L	500	2	04/10/14 18:40	04/11/14 11:22	7440-66-6		
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	52.5	ug/L	6.0	1	04/07/14 11:00	04/08/14 10:42	7439-97-6		
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury, Dissolved	ND	ug/L	6.0	1	04/11/14 09:45	04/11/14 15:25	7439-97-6		
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	04/08/14 00:00	04/09/14 09:59	534-52-1	M1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	04/08/14 00:00	04/09/14 09:59	87-68-3		
Hexachlorocyclopentadiene	ND	ug/L	1000	2	04/08/14 00:00	04/09/14 09:59	77-47-4		
Hexachloroethane	ND	ug/L	1000	2	04/08/14 00:00	04/09/14 09:59	67-72-1		
2-Methylphenol(o-Cresol)	ND	ug/L	2000	2	04/08/14 00:00	04/09/14 09:59	95-48-7		
3&4-Methylphenol(m&p Cresol)	10600	ug/L	4000	2	04/08/14 00:00	04/09/14 09:59			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 323-MSD TB4

Pace Project No.: 60166334

Sample: 323-MSD TB4		Lab ID: 60166334001	Collected: 04/03/14 14:01	Received: 04/04/14 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						
Naphthalene	6180 ug/L		1000	2	04/08/14 00:00	04/09/14 09:59	91-20-3	M1
Nitrobenzene	ND ug/L		1000	2	04/08/14 00:00	04/09/14 09:59	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	04/08/14 00:00	04/09/14 09:59	87-86-5	
Phenol	14000 ug/L		1000	2	04/08/14 00:00	04/09/14 09:59	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	04/08/14 00:00	04/09/14 09:59	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	04/08/14 00:00	04/09/14 09:59	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	199 %		33-120	2	04/08/14 00:00	04/09/14 09:59	4165-60-0	S2
2-Fluorobiphenyl (S)	109 %		39-120	2	04/08/14 00:00	04/09/14 09:59	321-60-8	
Terphenyl-d14 (S)	112 %		45-120	2	04/08/14 00:00	04/09/14 09:59	1718-51-0	
Phenol-d6 (S)	38 %		11-120	2	04/08/14 00:00	04/09/14 09:59	13127-88-3	
2-Fluorophenol (S)	51 %		17-120	2	04/08/14 00:00	04/09/14 09:59	367-12-4	
2,4,6-Tribromophenol (S)	115 %		39-120	2	04/08/14 00:00	04/09/14 09:59	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	259000 ug/L		5000	500		04/07/14 12:06	67-64-1	L1,N2
Benzene	ND ug/L		500	500		04/07/14 12:06	71-43-2	
Bromodichloromethane	ND ug/L		500	500		04/07/14 12:06	75-27-4	
Bromoform	ND ug/L		500	500		04/07/14 12:06	75-25-2	
Bromomethane	ND ug/L		2500	500		04/07/14 12:06	74-83-9	
2-Butanone (MEK)	117000 ug/L		5000	500		04/07/14 12:06	78-93-3	N2
Carbon tetrachloride	ND ug/L		500	500		04/07/14 12:06	56-23-5	
Chloroethane	ND ug/L		500	500		04/07/14 12:06	75-00-3	
Chloroform	ND ug/L		500	500		04/07/14 12:06	67-66-3	
1,4-Dichlorobenzene	1700 ug/L		500	500		04/07/14 12:06	106-46-7	
1,2-Dichloroethane	ND ug/L		500	500		04/07/14 12:06	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		500	500		04/07/14 12:06	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		500	500		04/07/14 12:06	156-60-5	
Ethylbenzene	ND ug/L		500	500		04/07/14 12:06	100-41-4	
Methylene chloride	872 ug/L		500	500		04/07/14 12:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5000	500		04/07/14 12:06	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		500	500		04/07/14 12:06	79-34-5	N2
Tetrachloroethene	ND ug/L		500	500		04/07/14 12:06	127-18-4	
Toluene	ND ug/L		500	500		04/07/14 12:06	108-88-3	
1,1,1-Trichloroethane	ND ug/L		500	500		04/07/14 12:06	71-55-6	
1,1,2-Trichloroethane	ND ug/L		500	500		04/07/14 12:06	79-00-5	
Trichloroethene	ND ug/L		500	500		04/07/14 12:06	79-01-6	
Vinyl chloride	ND ug/L		500	500		04/07/14 12:06	75-01-4	
Xylene (Total)	ND ug/L		1500	500		04/07/14 12:06	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	96 %		80-120	500		04/07/14 12:06	460-00-4	
Toluene-d8 (S)	102 %		80-120	500		04/07/14 12:06	2037-26-5	
1,2-Dichloroethane-d4 (S)	111 %		80-120	500		04/07/14 12:06	17060-07-0	
Preservation pH	6.0		1.0	500		04/07/14 12:06		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1920 mg/L		5.0	1		04/09/14 07:03		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 323-MSD TB4

Pace Project No.: 60166334

Sample: 323-MSD TB4		Lab ID: 60166334001	Collected: 04/03/14 14:01	Received: 04/04/14 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	22.3	mg/L	5.0	1		04/11/14 10:15		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	3220	mg/L	5.0	1		04/08/14 12:22		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.3	Std. Units	0.10	1		04/07/14 16:20		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	38900	mg/L	2.0	1	04/05/14 09:22	04/10/14 12:49		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	627	mg/L	20.0	200		04/08/14 12:11	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	55800	mg/L	5000	500		04/11/14 10:46		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 323-MSD TB4

Pace Project No.: 60166334

Sample: TRIP BLANK		Lab ID: 60166334002	Collected: 04/03/14 00:00	Received: 04/04/14 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		04/04/14 15:28	67-64-1	L3,N2
Benzene	ND ug/L		1.0	1		04/04/14 15:28	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/04/14 15:28	75-27-4	
Bromoform	ND ug/L		1.0	1		04/04/14 15:28	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/04/14 15:28	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/04/14 15:28	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		04/04/14 15:28	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/04/14 15:28	75-00-3	
Chloroform	ND ug/L		1.0	1		04/04/14 15:28	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/04/14 15:28	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/04/14 15:28	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/04/14 15:28	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/04/14 15:28	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/04/14 15:28	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/04/14 15:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/04/14 15:28	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/04/14 15:28	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/04/14 15:28	127-18-4	
Toluene	ND ug/L		1.0	1		04/04/14 15:28	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/04/14 15:28	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/04/14 15:28	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/04/14 15:28	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/04/14 15:28	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/04/14 15:28	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	94 %		80-120	1		04/04/14 15:28	460-00-4	
Toluene-d8 (S)	100 %		80-120	1		04/04/14 15:28	2037-26-5	
1,2-Dichloroethane-d4 (S)	96 %		80-120	1		04/04/14 15:28	17060-07-0	
Preservation pH	6.0		1.0	1		04/04/14 15:28		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 323-MSD TB4

Pace Project No.: 60166334

QC Batch: MERP/8284

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60166334001

METHOD BLANK: 1356429

Matrix: Water

Associated Lab Samples: 60166334001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/08/14 10:27	

LABORATORY CONTROL SAMPLE: 1356430

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.6	111	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1356431 1356432

Parameter	Units	60166324001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.8	4.4	95	87	70-130	9	20	

MATRIX SPIKE SAMPLE: 1356433

Parameter	Units	60166224002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	3.8	77	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 323-MSD TB4

Pace Project No.: 60166334

QC Batch: MERP/8295

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60166334001

METHOD BLANK: 1358795

Matrix: Water

Associated Lab Samples: 60166334001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/11/14 15:20	

LABORATORY CONTROL SAMPLE: 1358796

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.7	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1358797 1358798

Parameter	Units	60166481001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	119	118	79	79	70-130	1	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 323-MSD TB4

Pace Project No.: 60166334

QC Batch: MPRP/26774

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Associated Lab Samples: 60166334001

METHOD BLANK: 1357680

Matrix: Water

Associated Lab Samples: 60166334001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/10/14 15:48	
Antimony	ug/L	ND	10.0	04/10/14 15:48	
Arsenic	ug/L	ND	10.0	04/10/14 15:48	
Beryllium	ug/L	ND	1.0	04/10/14 15:48	
Cadmium	ug/L	ND	5.0	04/10/14 15:48	
Chromium	ug/L	ND	5.0	04/10/14 15:48	
Cobalt	ug/L	ND	5.0	04/10/14 15:48	
Copper	ug/L	ND	10.0	04/10/14 15:48	
Iron	ug/L	ND	50.0	04/10/14 15:48	
Lead	ug/L	ND	5.0	04/10/14 15:48	
Nickel	ug/L	ND	5.0	04/10/14 15:48	
Selenium	ug/L	ND	15.0	04/10/14 15:48	
Silver	ug/L	ND	7.0	04/10/14 15:48	
Thallium	ug/L	ND	20.0	04/10/14 15:48	
Zinc	ug/L	ND	50.0	04/10/14 15:48	

LABORATORY CONTROL SAMPLE: 1357681

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10000	100	85-115	
Antimony	ug/L	1000	1050	105	85-115	
Arsenic	ug/L	1000	1000	100	85-115	
Beryllium	ug/L	1000	1000	100	85-115	
Cadmium	ug/L	1000	1030	103	85-115	
Chromium	ug/L	1000	961	96	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	982	98	85-115	
Iron	ug/L	10000	10200	102	85-115	
Lead	ug/L	1000	1030	103	85-115	
Nickel	ug/L	1000	1050	105	85-115	
Selenium	ug/L	1000	1010	101	85-115	
Silver	ug/L	500	482	96	85-115	
Thallium	ug/L	1000	1060	106	85-115	
Zinc	ug/L	1000	986	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1357678

1357679

Parameter	Units	60166481001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	9160	50000	50000	66100	66700	114	115	70-130	1	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 323-MSD TB4

Pace Project No.: 60166334

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1357678 1357679											
Parameter	Units	60166481001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Antimony	ug/L	ND	5000	5000	5530	5590	110	111	70-130	1	7
Arsenic	ug/L	950	5000	5000	6640	6740	114	116	70-130	1	10
Beryllium	ug/L	ND	5000	5000	4980	4980	100	100	70-130	0	7
Cadmium	ug/L	ND	5000	5000	5440	5500	109	110	70-130	1	10
Chromium	ug/L	193	5000	5000	5040	5070	97	98	70-130	1	10
Cobalt	ug/L	36.5	5000	5000	4940	4990	98	99	70-130	1	6
Copper	ug/L	ND	5000	5000	5330	5360	106	107	70-130	1	11
Iron	ug/L	648000	50000	50000	764000	734000	233	174	70-130	4	10 M1
Lead	ug/L	88.3	5000	5000	4830	4910	95	96	70-130	2	10
Nickel	ug/L	98.6	5000	5000	5020	5100	99	100	70-130	1	10
Selenium	ug/L	ND	5000	5000	6010	6060	120	121	70-130	1	10
Silver	ug/L	ND	2500	2500	2670	2660	107	106	70-130	0	10
Thallium	ug/L	ND	5000	5000	4600	4720	92	94	70-130	3	6
Zinc	ug/L	4180	5000	5000	9350	9130	103	99	70-130	2	11

SAMPLE DUPLICATE: 1359124

Parameter	Units	60166480001 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum	ug/L	637	522	20	20	
Antimony	ug/L	ND	ND		20	
Arsenic	ug/L	ND	6.7J		20	
Beryllium	ug/L	ND	ND		20	
Cadmium	ug/L	ND	ND		20	
Chromium	ug/L	ND	1.9J		20	
Cobalt	ug/L	ND	ND		20	
Copper	ug/L	ND	3.2J		20	
Iron	ug/L	782	754	4	20	
Lead	ug/L	ND	ND		20	
Nickel	ug/L	ND	3.3J		20	
Selenium	ug/L	ND	2.2J		20	
Silver	ug/L	ND	ND		20	
Thallium	ug/L	ND	ND		20	
Zinc	ug/L	ND	57.1		20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 323-MSD TB4

Pace Project No.: 60166334

QC Batch: MPRP/26792

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60166334001

METHOD BLANK: 1358631

Matrix: Water

Associated Lab Samples: 60166334001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/11/14 11:15	
Antimony, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Arsenic, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Beryllium, Dissolved	ug/L	ND	1.0	04/11/14 11:15	
Cadmium, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Chromium, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Cobalt, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Copper, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Iron, Dissolved	ug/L	ND	50.0	04/11/14 11:15	
Lead, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Nickel, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Selenium, Dissolved	ug/L	ND	15.0	04/11/14 11:15	
Silver, Dissolved	ug/L	ND	7.0	04/11/14 11:15	
Thallium, Dissolved	ug/L	ND	20.0	04/11/14 11:15	
Zinc, Dissolved	ug/L	ND	50.0	04/11/14 11:15	

LABORATORY CONTROL SAMPLE: 1358632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9940	99	85-115	
Antimony, Dissolved	ug/L	1000	1050	105	85-115	
Arsenic, Dissolved	ug/L	1000	979	98	85-115	
Beryllium, Dissolved	ug/L	1000	1030	103	85-115	
Cadmium, Dissolved	ug/L	1000	994	99	85-115	
Chromium, Dissolved	ug/L	1000	971	97	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	10000	100	85-115	
Lead, Dissolved	ug/L	1000	1010	101	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1030	103	85-115	
Silver, Dissolved	ug/L	500	497	99	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	973	97	85-115	

MATRIX SPIKE SAMPLE: 1358633

Parameter	Units	60166517001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	ND	10000	9990	100	70-130	
Antimony, Dissolved	ug/L	ND	1000	1120	112	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 323-MSD TB4

Pace Project No.: 60166334

MATRIX SPIKE SAMPLE:		1358633					
Parameter	Units	60166517001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	ND	1000	1050	105	70-130	
Beryllium, Dissolved	ug/L	ND	1000	1010	101	70-130	
Cadmium, Dissolved	ug/L	ND	1000	1030	103	70-130	
Chromium, Dissolved	ug/L	ND	1000	952	95	70-130	
Cobalt, Dissolved	ug/L	ND	1000	1010	101	70-130	
Copper, Dissolved	ug/L	ND	1000	1060	106	70-130	
Iron, Dissolved	ug/L	ND	10000	9690	97	70-130	
Lead, Dissolved	ug/L	ND	1000	972	97	70-130	
Nickel, Dissolved	ug/L	ND	1000	1010	101	70-130	
Selenium, Dissolved	ug/L	ND	1000	1090	109	70-130	
Silver, Dissolved	ug/L	ND	500	516	103	70-130	
Thallium, Dissolved	ug/L	ND	1000	964	96	70-130	
Zinc, Dissolved	ug/L	ND	1000	934	93	70-130	

MATRIX SPIKE SAMPLE:		1358634					
Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	1010	50000	50900	100	70-130	
Antimony, Dissolved	ug/L	ND	5000	6390	126	70-130	
Arsenic, Dissolved	ug/L	798	5000	6320	110	70-130	
Beryllium, Dissolved	ug/L	ND	5000	4890	98	70-130	
Cadmium, Dissolved	ug/L	ND	5000	5290	106	70-130	
Chromium, Dissolved	ug/L	154	5000	4870	94	70-130	
Cobalt, Dissolved	ug/L	27.1	5000	4960	99	70-130	
Copper, Dissolved	ug/L	ND	5000	5560	111	70-130	
Iron, Dissolved	ug/L	355000	50000	402000	96	70-130	
Lead, Dissolved	ug/L	40.6	5000	4630	92	70-130	
Nickel, Dissolved	ug/L	80.0	5000	4990	98	70-130	
Selenium, Dissolved	ug/L	ND	5000	6300	125	70-130	
Silver, Dissolved	ug/L	ND	2500	2720	108	70-130	
Thallium, Dissolved	ug/L	ND	5000	4430	89	70-130	
Zinc, Dissolved	ug/L	3550	5000	9280	115	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 323-MSD TB4

Pace Project No.: 60166334

QC Batch:	MSV/60587	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60166334002		

METHOD BLANK: 1355375 Matrix: Water

Associated Lab Samples: 60166334002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/04/14 14:41	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/04/14 14:41	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/04/14 14:41	
1,2-Dichloroethane	ug/L	ND	1.0	04/04/14 14:41	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/04/14 14:41	
2-Butanone (MEK)	ug/L	ND	10.0	04/04/14 14:41	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/04/14 14:41	N2
Acetone	ug/L	ND	10.0	04/04/14 14:41	N2
Benzene	ug/L	ND	1.0	04/04/14 14:41	
Bromodichloromethane	ug/L	ND	1.0	04/04/14 14:41	
Bromoform	ug/L	ND	1.0	04/04/14 14:41	
Bromomethane	ug/L	ND	5.0	04/04/14 14:41	
Carbon tetrachloride	ug/L	ND	1.0	04/04/14 14:41	
Chloroethane	ug/L	ND	1.0	04/04/14 14:41	
Chloroform	ug/L	ND	1.0	04/04/14 14:41	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/04/14 14:41	N2
Ethylbenzene	ug/L	ND	1.0	04/04/14 14:41	
Methylene chloride	ug/L	ND	1.0	04/04/14 14:41	
Tetrachloroethene	ug/L	ND	1.0	04/04/14 14:41	
Toluene	ug/L	ND	1.0	04/04/14 14:41	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/04/14 14:41	
Trichloroethene	ug/L	ND	1.0	04/04/14 14:41	
Vinyl chloride	ug/L	ND	1.0	04/04/14 14:41	
Xylene (Total)	ug/L	ND	3.0	04/04/14 14:41	N2
1,2-Dichloroethane-d4 (S)	%	99	80-120	04/04/14 14:41	
4-Bromofluorobenzene (S)	%	92	80-120	04/04/14 14:41	
Toluene-d8 (S)	%	102	80-120	04/04/14 14:41	

LABORATORY CONTROL SAMPLE: 1355376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.9	100	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.6	103	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.9	100	67-124	
1,2-Dichloroethane	ug/L	20	19.6	98	70-126	
1,4-Dichlorobenzene	ug/L	20	19.4	97	74-120	
2-Butanone (MEK)	ug/L	100	120	120	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	59-131	N2
Acetone	ug/L	100	155	155	38-134	L0,N2
Benzene	ug/L	20	19.2	96	75-120	
Bromodichloromethane	ug/L	20	19.7	98	68-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 323-MSD TB4

Pace Project No.: 60166334

LABORATORY CONTROL SAMPLE: 1355376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.8	99	65-127	
Bromomethane	ug/L	20	20.2	101	13-157	
Carbon tetrachloride	ug/L	20	20.3	102	70-131	
Chloroethane	ug/L	20	20.4	102	47-133	
Chloroform	ug/L	20	19.2	96	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.1	101	68-127	N2
Ethylbenzene	ug/L	20	19.6	98	74-122	
Methylene chloride	ug/L	20	17.8	89	64-129	
Tetrachloroethene	ug/L	20	20.0	100	73-125	
Toluene	ug/L	20	19.7	99	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.0	100	66-129	
Trichloroethene	ug/L	20	20.1	100	71-123	
Vinyl chloride	ug/L	20	21.7	109	43-129	
Xylene (Total)	ug/L	60	60.7	101	75-121	N2
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			96	80-120	
Toluene-d8 (S)	%			100	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 323-MSD TB4

Pace Project No.: 60166334

QC Batch:	MSV/60626	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60166334001		

METHOD BLANK: 1356447 Matrix: Water

Associated Lab Samples: 60166334001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/07/14 10:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/07/14 10:47	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/07/14 10:47	
1,2-Dichloroethane	ug/L	ND	1.0	04/07/14 10:47	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/07/14 10:47	
2-Butanone (MEK)	ug/L	ND	10.0	04/07/14 10:47	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/07/14 10:47	N2
Acetone	ug/L	ND	10.0	04/07/14 10:47	N2
Benzene	ug/L	ND	1.0	04/07/14 10:47	
Bromodichloromethane	ug/L	ND	1.0	04/07/14 10:47	
Bromoform	ug/L	ND	1.0	04/07/14 10:47	
Bromomethane	ug/L	ND	5.0	04/07/14 10:47	
Carbon tetrachloride	ug/L	ND	1.0	04/07/14 10:47	
Chloroethane	ug/L	ND	1.0	04/07/14 10:47	
Chloroform	ug/L	ND	1.0	04/07/14 10:47	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/07/14 10:47	N2
Ethylbenzene	ug/L	ND	1.0	04/07/14 10:47	
Methylene chloride	ug/L	ND	1.0	04/07/14 10:47	
Tetrachloroethene	ug/L	ND	1.0	04/07/14 10:47	
Toluene	ug/L	ND	1.0	04/07/14 10:47	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/07/14 10:47	
Trichloroethene	ug/L	ND	1.0	04/07/14 10:47	
Vinyl chloride	ug/L	ND	1.0	04/07/14 10:47	
Xylene (Total)	ug/L	ND	3.0	04/07/14 10:47	N2
1,2-Dichloroethane-d4 (S)	%	99	80-120	04/07/14 10:47	
4-Bromofluorobenzene (S)	%	94	80-120	04/07/14 10:47	
Toluene-d8 (S)	%	104	80-120	04/07/14 10:47	

LABORATORY CONTROL SAMPLE: 1356448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.2	91	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	18.9	94	67-127	N2
1,1,2-Trichloroethane	ug/L	20	18.9	94	67-124	
1,2-Dichloroethane	ug/L	20	19.4	97	70-126	
1,4-Dichlorobenzene	ug/L	20	18.1	90	74-120	
2-Butanone (MEK)	ug/L	100	118	118	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	97.2	97	59-131	N2
Acetone	ug/L	100	156	156	38-134	L0,N2
Benzene	ug/L	20	18.3	91	75-120	
Bromodichloromethane	ug/L	20	19.5	97	68-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 323-MSD TB4

Pace Project No.: 60166334

LABORATORY CONTROL SAMPLE: 1356448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.5	102	65-127	
Bromomethane	ug/L	20	18.9	94	13-157	
Carbon tetrachloride	ug/L	20	19.7	99	70-131	
Chloroethane	ug/L	20	19.6	98	47-133	
Chloroform	ug/L	20	18.3	92	65-127	
cis-1,2-Dichloroethene	ug/L	20	18.8	94	68-127	N2
Ethylbenzene	ug/L	20	19.3	97	74-122	
Methylene chloride	ug/L	20	16.2	81	64-129	
Tetrachloroethene	ug/L	20	18.9	95	73-125	
Toluene	ug/L	20	18.4	92	69-126	
trans-1,2-Dichloroethene	ug/L	20	19.3	97	66-129	
Trichloroethene	ug/L	20	18.8	94	71-123	
Vinyl chloride	ug/L	20	20.6	103	43-129	
Xylene (Total)	ug/L	60	57.5	96	75-121	N2
1,2-Dichloroethane-d4 (S)	%			95	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			96	80-120	

MATRIX SPIKE SAMPLE: 1356449

Parameter	Units	60166218001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	10000	14800	148	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	10000	11100	111	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	10000	13000	130	52-143	
1,2-Dichloroethane	ug/L	ND	10000	13800	138	49-144	
1,4-Dichlorobenzene	ug/L	675	10000	10900	102	33-140	
2-Butanone (MEK)	ug/L	146000	50000	215000	138	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50000	76700	145	40-160	N2
Acetone	ug/L	334000	50000	411000	155	10-160	N2
Benzene	ug/L	ND	10000	13700	136	37-151	
Bromodichloromethane	ug/L	ND	10000	14400	144	35-142	M1
Bromoform	ug/L	ND	10000	13100	131	45-142	
Bromomethane	ug/L	ND	10000	13900	139	10-158	
Carbon tetrachloride	ug/L	ND	10000	16000	160	70-140	M1
Chloroethane	ug/L	ND	10000	14500	145	19-152	
Chloroform	ug/L	ND	10000	14000	140	51-138	M1
cis-1,2-Dichloroethene	ug/L	ND	10000	14200	142	34-147	N2
Ethylbenzene	ug/L	ND	10000	12500	124	40-142	
Methylene chloride	ug/L	760	10000	12900	121	31-144	
Tetrachloroethene	ug/L	ND	10000	13200	132	64-148	
Toluene	ug/L	ND	10000	13900	139	47-150	
trans-1,2-Dichloroethene	ug/L	ND	10000	14800	148	54-151	
Trichloroethene	ug/L	ND	10000	14400	144	71-149	
Vinyl chloride	ug/L	ND	10000	15700	157	22-146	M1
Xylene (Total)	ug/L	ND	30000	37700	126	37-144	N2
1,2-Dichloroethane-d4 (S)	%				133	80-120	S0
4-Bromofluorobenzene (S)	%				96	80-120	S2

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 323-MSD TB4

Pace Project No.: 60166334

MATRIX SPIKE SAMPLE:		1356449					
Parameter	Units	60166218001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%					101	
Preservation pH		6.0		6.0		80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 323-MSD TB4

Pace Project No.: 60166334

QC Batch: OEXT/43531

Analysis Method: EPA 625

QC Batch Method: EPA 625

Analysis Description: 625 MSS

Associated Lab Samples: 60166334001

METHOD BLANK: 1356629

Matrix: Water

Associated Lab Samples: 60166334001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/09/14 08:56	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/09/14 08:56	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/09/14 08:56	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/09/14 08:56	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/09/14 08:56	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/09/14 08:56	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/09/14 08:56	
Hexachloroethane	ug/L	ND	5.0	04/09/14 08:56	
Naphthalene	ug/L	ND	5.0	04/09/14 08:56	
Nitrobenzene	ug/L	ND	5.0	04/09/14 08:56	
Pentachlorophenol	ug/L	ND	5.0	04/09/14 08:56	
Phenol	ug/L	ND	5.0	04/09/14 08:56	
2,4,6-Tribromophenol (S)	%	125	39-120	04/09/14 08:56	S3
2-Fluorobiphenyl (S)	%	120	39-120	04/09/14 08:56	
2-Fluorophenol (S)	%	55	17-120	04/09/14 08:56	
Nitrobenzene-d5 (S)	%	118	33-120	04/09/14 08:56	
Phenol-d6 (S)	%	36	11-120	04/09/14 08:56	
Terphenyl-d14 (S)	%	126	45-120	04/09/14 08:56	S3

LABORATORY CONTROL SAMPLE: 1356630

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	46.7	93	46-120	
2,4,6-Trichlorophenol	ug/L	50	50.1	100	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	37.1	74	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	33.0	66	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	60.5	121	40-133	
Hexachloro-1,3-butadiene	ug/L	50	46.2	92	44-116	
Hexachlorocyclopentadiene	ug/L	100	90.8	91	24-120	
Hexachloroethane	ug/L	50	42.9	86	43-113	
Naphthalene	ug/L	50	46.8	94	48-120	
Nitrobenzene	ug/L	50	48.9	98	48-120	
Pentachlorophenol	ug/L	50	47.6	95	47-120	
Phenol	ug/L	50	15.2	30	16-112	
2,4,6-Tribromophenol (S)	%			111	39-120	
2-Fluorobiphenyl (S)	%			102	39-120	
2-Fluorophenol (S)	%			44	17-120	
Nitrobenzene-d5 (S)	%			99	33-120	
Phenol-d6 (S)	%			30	11-120	
Terphenyl-d14 (S)	%			109	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 323-MSD TB4

Pace Project No.: 60166334

MATRIX SPIKE SAMPLE:		1356631					
Parameter	Units	60166334001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	4610	92	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	5960	119	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	5770	115	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	10600	5000	18600	161	27-120	M1, N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	6480	130	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4450	89	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	11200	112	11-120	
Hexachloroethane	ug/L	ND	5000	5830	117	40-113	M1
Naphthalene	ug/L	6180	5000	15400	185	45-120	M1
Nitrobenzene	ug/L	ND	5000	4850	97	38-120	
Pentachlorophenol	ug/L	ND	5000	6010	120	43-135	
Phenol	ug/L	14000	5000	17000	61	13-112	
2,4,6-Tribromophenol (S)	%				120	39-120	
2-Fluorobiphenyl (S)	%				107	39-120	
2-Fluorophenol (S)	%				57	17-120	
Nitrobenzene-d5 (S)	%				242	33-120	S2
Phenol-d6 (S)	%				45	11-120	
Terphenyl-d14 (S)	%				116	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 323-MSD TB4

Pace Project No.: 60166334

QC Batch: WET/47196

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60166334001

METHOD BLANK: 1357230

Matrix: Water

Associated Lab Samples: 60166334001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/09/14 07:02	

LABORATORY CONTROL SAMPLE: 1357231

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.6	99	78-114	

MATRIX SPIKE SAMPLE: 1357234

Parameter	Units	60165975001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40.4	41.4	97	78-114	

SAMPLE DUPLICATE: 1357235

Parameter	Units	60165975002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	2.5J		18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 323-MSD TB4

Pace Project No.: 60166334

QC Batch: WET/47263

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60166334001

METHOD BLANK: 1358903

Matrix: Water

Associated Lab Samples: 60166334001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	04/11/14 10:13	

LABORATORY CONTROL SAMPLE: 1358904

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: 1358906

Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	13.3	83.3	71.2	69	64-132	

SAMPLE DUPLICATE: 1358905

Parameter	Units	60166218001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	7.7	9.2	18	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 323-MSD TB4

Pace Project No.: 60166334

QC Batch: WET/47183

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60166334001

METHOD BLANK: 1356708

Matrix: Water

Associated Lab Samples: 60166334001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/08/14 12:21	

SAMPLE DUPLICATE: 1356709

Parameter	Units	60166481001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3240	3300	2	10	

SAMPLE DUPLICATE: 1356710

Parameter	Units	60166190003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2400	2460	2	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 323-MSD TB4

Pace Project No.: 60166334

QC Batch: WET/47169 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60166334001

SAMPLE DUPLICATE: 1356543

Parameter	Units	60166218001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.6	5.6	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 323-MSD TB4

Pace Project No.: 60166334

QC Batch: WET/47133

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60166334001

METHOD BLANK: 1356082

Matrix: Water

Associated Lab Samples: 60166334001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/10/14 12:15	

LABORATORY CONTROL SAMPLE: 1356083

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	186	94	85-115	

SAMPLE DUPLICATE: 1356084

Parameter	Units	60166425001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	33.0	34.5	5	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 323-MSD TB4

Pace Project No.: 60166334

QC Batch: WETA/28924

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60166334001

METHOD BLANK: 1356876

Matrix: Water

Associated Lab Samples: 60166334001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/08/14 12:04	

LABORATORY CONTROL SAMPLE: 1356877

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

MATRIX SPIKE SAMPLE: 1356878

Parameter	Units	60165290002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.9	93	90-110	

SAMPLE DUPLICATE: 1356879

Parameter	Units	60166334001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	627	601	4	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 323-MSD TB4

Pace Project No.: 60166334

QC Batch:	WETA/28982	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60166334001		

METHOD BLANK: 1358471 Matrix: Water
Associated Lab Samples: 60166334001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	04/11/14 10:33	

LABORATORY CONTROL SAMPLE: 1358472

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	53.5	107	90-110	

MATRIX SPIKE SAMPLE: 1358473

Parameter	Units	60165991001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	10400	5000	14400	80	90-110	M1

SAMPLE DUPLICATE: 1358474

Parameter	Units	60165991005 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	2960	3110	5	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 323-MSD TB4

Pace Project No.: 60166334

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/60587

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

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

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.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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

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.

S2 Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 323-MSD TB4

Pace Project No.: 60166334

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60166334001	323-MSD TB4	EPA 200.7	MPRP/26774	EPA 200.7	ICP/20344
60166334001	323-MSD TB4	EPA 200.7	MPRP/26792	EPA 200.7	ICP/20356
60166334001	323-MSD TB4	EPA 245.1	MERP/8284	EPA 245.1	MERC/8240
60166334001	323-MSD TB4	EPA 245.1	MERP/8295	EPA 245.1	MERC/8251
60166334001	323-MSD TB4	EPA 625	OEXT/43531	EPA 625	MSSV/13891
60166334001	323-MSD TB4	EPA 624 Low	MSV/60626		
60166334002	TRIP BLANK	EPA 624 Low	MSV/60587		
60166334001	323-MSD TB4	EPA 1664A	WET/47196		
60166334001	323-MSD TB4	EPA 1664A	WET/47263		
60166334001	323-MSD TB4	SM 2540D	WET/47183		
60166334001	323-MSD TB4	SM 4500-H+B	WET/47169		
60166334001	323-MSD TB4	SM 5210B	WET/47133	SM 5210B	WET/47245
60166334001	323-MSD TB4	EPA 350.1	WETA/28924		
60166334001	323-MSD TB4	EPA 410.4	WETA/28982		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60166334



60166334

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 ☒

Thermometer Used: T-239 / T-194

Type of Ice: Wet Blue ☐ None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 3.0

Temperature should be above freezing to 6°C

Date and initials of person examining contents: pv 7/4/14

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☒ Yes ☐ No ☐ N/A	6. <u>Bed pH</u>
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	9.
Pace containers used:	☒ Yes ☐ No ☐ N/A	10.
Containers intact:	☒ Yes ☐ No ☐ N/A	11.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	12.
Filtered volume received for dissolved tests?	☐ Yes ☐ No ☒ N/A	13.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	14.
Includes date/time/ID/analyses Matrix: <u>WT</u>		15.
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	16.
All containers needing preservation are found to be in compliance with EPA recommendation.	☒ Yes ☒ No ☐ N/A	17.
Exceptions: <u>VOA</u> , coliform, TOC, <u>O&G</u> , WI-DRO (water), Phenolics	☒ Yes ☐ No	Initial when completed <u>pv</u>
Trip Blank present:	☒ Yes ☐ No ☐ N/A	Lot # of added preservative <u>12513</u> <u>12522</u>
Pace Trip Blank lot # (if purchased): <u>cover</u>		18.
Headspace in VOA vials (>6mm):	☐ Yes ☒ No ☐ N/A	19.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ N/A	20. List State: <u>WA</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: 7/4/14

April 16, 2014

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

RE: Project: BRIDGETON LF 316-259R2
Pace Project No.: 60166436

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 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 for sample ID correction.

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.
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-259R2

Pace Project No.: 60166436

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 316-259R2

Pace Project No.: 60166436

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60166436001	316-259R2	Water	04/03/14 17:47	04/05/14 01:35
60166436002	TRIP BLANK	Water	04/03/14 17:47	04/05/14 01:35

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-259R2

Pace Project No.: 60166436

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60166436001	316-259R2	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
		EPA 624 Low	EAK	28
60166436002	TRIP BLANK			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-259R2

Pace Project No.: 60166436

Sample: 316-259R2		Lab ID: 60166436001	Collected: 04/03/14 17:47	Received: 04/05/14 01:35	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	6040	ug/L	750	2	04/08/14 12:45	04/09/14 17:11	7429-90-5	D3
Antimony	ND	ug/L	100	2	04/08/14 12:45	04/09/14 17:11	7440-36-0	
Arsenic	906	ug/L	50.0	1	04/08/14 12:45	04/09/14 17:08	7440-38-2	
Beryllium	ND	ug/L	5.0	1	04/08/14 12:45	04/09/14 17:08	7440-41-7	
Cadmium	ND	ug/L	25.0	1	04/08/14 12:45	04/09/14 17:08	7440-43-9	
Chromium	195	ug/L	25.0	1	04/08/14 12:45	04/09/14 17:08	7440-47-3	
Cobalt	35.9	ug/L	25.0	1	04/08/14 12:45	04/09/14 17:08	7440-48-4	
Copper	ND	ug/L	50.0	1	04/08/14 12:45	04/09/14 17:08	7440-50-8	
Iron	574000	ug/L	250	1	04/08/14 12:45	04/09/14 17:08	7439-89-6	
Lead	98.4	ug/L	25.0	1	04/08/14 12:45	04/09/14 17:08	7439-92-1	
Nickel	105	ug/L	25.0	1	04/08/14 12:45	04/09/14 17:08	7440-02-0	
Selenium	ND	ug/L	75.0	1	04/08/14 12:45	04/09/14 17:08	7782-49-2	
Silver	ND	ug/L	35.0	1	04/08/14 12:45	04/09/14 17:08	7440-22-4	
Thallium	ND	ug/L	100	1	04/08/14 12:45	04/09/14 17:08	7440-28-0	
Zinc	3120	ug/L	500	2	04/08/14 12:45	04/09/14 17:11	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	790	ug/L	750	2	04/10/14 18:40	04/11/14 11:29	7429-90-5	D3
Antimony, Dissolved	ND	ug/L	100	2	04/10/14 18:40	04/11/14 11:29	7440-36-0	
Arsenic, Dissolved	777	ug/L	50.0	1	04/10/14 18:40	04/11/14 11:25	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	04/10/14 18:40	04/11/14 11:25	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	04/10/14 18:40	04/11/14 11:25	7440-43-9	
Chromium, Dissolved	157	ug/L	25.0	1	04/10/14 18:40	04/11/14 11:25	7440-47-3	
Cobalt, Dissolved	ND	ug/L	25.0	1	04/10/14 18:40	04/11/14 11:25	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	04/10/14 18:40	04/11/14 11:25	7440-50-8	
Iron, Dissolved	374000	ug/L	250	1	04/10/14 18:40	04/11/14 11:25	7439-89-6	
Lead, Dissolved	42.2	ug/L	25.0	1	04/10/14 18:40	04/11/14 11:25	7439-92-1	
Nickel, Dissolved	85.8	ug/L	25.0	1	04/10/14 18:40	04/11/14 11:25	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	04/10/14 18:40	04/11/14 11:25	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	04/10/14 18:40	04/11/14 11:25	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	04/10/14 18:40	04/11/14 11:25	7440-28-0	
Zinc, Dissolved	2880	ug/L	500	2	04/10/14 18:40	04/11/14 11:29	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND	ug/L	6.0	1	04/07/14 11:00	04/08/14 10:58	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	04/11/14 09:45	04/11/14 15:31	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	04/10/14 00:00	04/11/14 11:18	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	04/10/14 00:00	04/11/14 11:18	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	04/10/14 00:00	04/11/14 11:18	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	04/10/14 00:00	04/11/14 11:18	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	2	04/10/14 00:00	04/11/14 11:18	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	10100	ug/L	4000	2	04/10/14 00:00	04/11/14 11:18		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-259R2

Pace Project No.: 60166436

Sample: 316-259R2		Lab ID: 60166436001	Collected: 04/03/14 17:47	Received: 04/05/14 01:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	5380 ug/L		1000	2	04/10/14 00:00	04/11/14 11:18	91-20-3	
Nitrobenzene	ND ug/L		1000	2	04/10/14 00:00	04/11/14 11:18	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	04/10/14 00:00	04/11/14 11:18	87-86-5	
Phenol	13100 ug/L		1000	2	04/10/14 00:00	04/11/14 11:18	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	04/10/14 00:00	04/11/14 11:18	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	04/10/14 00:00	04/11/14 11:18	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	174 %		33-120	2	04/10/14 00:00	04/11/14 11:18	4165-60-0	S0
2-Fluorobiphenyl (S)	90 %		39-120	2	04/10/14 00:00	04/11/14 11:18	321-60-8	
Terphenyl-d14 (S)	90 %		45-120	2	04/10/14 00:00	04/11/14 11:18	1718-51-0	
Phenol-d6 (S)	37 %		11-120	2	04/10/14 00:00	04/11/14 11:18	13127-88-3	
2-Fluorophenol (S)	52 %		17-120	2	04/10/14 00:00	04/11/14 11:18	367-12-4	
2,4,6-Tribromophenol (S)	97 %		39-120	2	04/10/14 00:00	04/11/14 11:18	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	357000 ug/L		5000	500		04/09/14 15:16	67-64-1	L1,N2
Benzene	ND ug/L		500	500		04/09/14 15:16	71-43-2	
Bromodichloromethane	ND ug/L		500	500		04/09/14 15:16	75-27-4	
Bromoform	ND ug/L		500	500		04/09/14 15:16	75-25-2	
Bromomethane	2810 ug/L		2500	500		04/09/14 15:16	74-83-9	
2-Butanone (MEK)	153000 ug/L		5000	500		04/09/14 15:16	78-93-3	N2
Carbon tetrachloride	ND ug/L		500	500		04/09/14 15:16	56-23-5	
Chloroethane	ND ug/L		500	500		04/09/14 15:16	75-00-3	
Chloroform	ND ug/L		500	500		04/09/14 15:16	67-66-3	
1,4-Dichlorobenzene	1920 ug/L		500	500		04/09/14 15:16	106-46-7	
1,2-Dichloroethane	ND ug/L		500	500		04/09/14 15:16	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		500	500		04/09/14 15:16	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		500	500		04/09/14 15:16	156-60-5	
Ethylbenzene	ND ug/L		500	500		04/09/14 15:16	100-41-4	
Methylene chloride	ND ug/L		500	500		04/09/14 15:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	6010 ug/L		5000	500		04/09/14 15:16	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		500	500		04/09/14 15:16	79-34-5	N2
Tetrachloroethene	ND ug/L		500	500		04/09/14 15:16	127-18-4	
Toluene	ND ug/L		500	500		04/09/14 15:16	108-88-3	
1,1,1-Trichloroethane	ND ug/L		500	500		04/09/14 15:16	71-55-6	
1,1,2-Trichloroethane	ND ug/L		500	500		04/09/14 15:16	79-00-5	
Trichloroethene	ND ug/L		500	500		04/09/14 15:16	79-01-6	
Vinyl chloride	ND ug/L		500	500		04/09/14 15:16	75-01-4	
Xylene (Total)	1810 ug/L		1500	500		04/09/14 15:16	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	500		04/09/14 15:16	460-00-4	S2
Toluene-d8 (S)	105 %		80-120	500		04/09/14 15:16	2037-26-5	
1,2-Dichloroethane-d4 (S)	146 %		80-120	500		04/09/14 15:16	17060-07-0	S0
Preservation pH	6.0		1.0	500		04/09/14 15:16		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	2590 mg/L		5.0	1		04/10/14 06:49		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-259R2

Pace Project No.: 60166436

Sample: 316-259R2		Lab ID: 60166436001	Collected: 04/03/14 17:47	Received: 04/05/14 01:35	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		04/11/14 10:15		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	3220	mg/L	5.0	1		04/10/14 14:27		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.5	Std. Units	0.10	1		04/07/14 16:20		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	41600	mg/L	2.0	1	04/05/14 10:10	04/10/14 14:12		D6
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	590	mg/L	20.0	200		04/10/14 12:18	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	59200	mg/L	5000	500		04/14/14 10:29		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-259R2

Pace Project No.: 60166436

Sample: TRIP BLANK		Lab ID: 60166436002	Collected: 04/03/14 17:47	Received: 04/05/14 01:35	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		04/09/14 15:00	67-64-1	L1,N2
Benzene	ND ug/L		1.0	1		04/09/14 15:00	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/09/14 15:00	75-27-4	
Bromoform	ND ug/L		1.0	1		04/09/14 15:00	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/09/14 15:00	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/09/14 15:00	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		04/09/14 15:00	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/09/14 15:00	75-00-3	
Chloroform	ND ug/L		1.0	1		04/09/14 15:00	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/09/14 15:00	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/09/14 15:00	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/09/14 15:00	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/09/14 15:00	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/09/14 15:00	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/09/14 15:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/09/14 15:00	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/09/14 15:00	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/09/14 15:00	127-18-4	
Toluene	ND ug/L		1.0	1		04/09/14 15:00	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/09/14 15:00	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/09/14 15:00	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/09/14 15:00	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/09/14 15:00	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/09/14 15:00	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	102 %		80-120	1		04/09/14 15:00	460-00-4	
Toluene-d8 (S)	98 %		80-120	1		04/09/14 15:00	2037-26-5	
1,2-Dichloroethane-d4 (S)	95 %		80-120	1		04/09/14 15:00	17060-07-0	
Preservation pH	6.0		1.0	1		04/09/14 15:00		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-259R2

Pace Project No.: 60166436

QC Batch: MERP/8284

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60166436001

METHOD BLANK: 1356429

Matrix: Water

Associated Lab Samples: 60166436001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/08/14 10:27	

LABORATORY CONTROL SAMPLE: 1356430

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.6	111	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1356431 1356432

Parameter	Units	60166324001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.8	4.4	95	87	70-130	9	20	

MATRIX SPIKE SAMPLE: 1356433

Parameter	Units	60166224002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	3.8	77	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-259R2

Pace Project No.: 60166436

QC Batch: MERP/8295

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60166436001

METHOD BLANK: 1358795

Matrix: Water

Associated Lab Samples: 60166436001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/11/14 15:20	

LABORATORY CONTROL SAMPLE: 1358796

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.7	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1358797 1358798

Parameter	Units	60166481001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	119	118	79	79	70-130	1	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-259R2
Pace Project No.: 60166436

QC Batch: MPRP/26757 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60166436001

METHOD BLANK: 1356774 Matrix: Water
Associated Lab Samples: 60166436001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/09/14 16:07	
Antimony	ug/L	ND	10.0	04/09/14 16:07	
Arsenic	ug/L	ND	10.0	04/09/14 16:07	
Beryllium	ug/L	ND	1.0	04/09/14 16:07	
Cadmium	ug/L	ND	5.0	04/09/14 16:07	
Chromium	ug/L	ND	5.0	04/09/14 16:07	
Cobalt	ug/L	ND	5.0	04/09/14 16:07	
Copper	ug/L	ND	10.0	04/09/14 16:07	
Iron	ug/L	ND	50.0	04/09/14 16:07	
Lead	ug/L	ND	5.0	04/09/14 16:07	
Nickel	ug/L	ND	5.0	04/09/14 16:07	
Selenium	ug/L	ND	15.0	04/09/14 16:07	
Silver	ug/L	ND	7.0	04/09/14 16:07	
Thallium	ug/L	ND	20.0	04/09/14 16:07	
Zinc	ug/L	ND	50.0	04/09/14 16:07	

LABORATORY CONTROL SAMPLE: 1356775

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9850	99	85-115	
Antimony	ug/L	1000	1090	109	85-115	
Arsenic	ug/L	1000	1020	102	85-115	
Beryllium	ug/L	1000	994	99	85-115	
Cadmium	ug/L	1000	1030	103	85-115	
Chromium	ug/L	1000	949	95	85-115	
Cobalt	ug/L	1000	1030	103	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	9720	97	85-115	
Lead	ug/L	1000	1010	101	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1060	106	85-115	
Silver	ug/L	500	493	99	85-115	
Thallium	ug/L	1000	1030	103	85-115	
Zinc	ug/L	1000	947	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1356776 1356777

Parameter	Units	60166218001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	ND	50000	50000	49300	51400	97	101	70-130	4	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-259R2

Pace Project No.: 60166436

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1356776 1356777												
Parameter	Units	60166218001		MS	MSD	MS		MSD	% Rec		Max	
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	RPD	RPD
Antimony	ug/L	ND	5000	5000	5000	5580	5820	111	115	70-130	4	7
Arsenic	ug/L	1020	5000	5000	5000	6560	6760	111	115	70-130	3	10
Beryllium	ug/L	ND	5000	5000	5000	4710	4830	94	97	70-130	3	7
Cadmium	ug/L	ND	5000	5000	5000	5440	5660	109	113	70-130	4	10
Chromium	ug/L	184	5000	5000	5000	4830	5040	93	97	70-130	4	10
Cobalt	ug/L	27.6	5000	5000	5000	4940	5140	98	102	70-130	4	6
Copper	ug/L	ND	5000	5000	5000	5500	5730	110	115	70-130	4	11
Iron	ug/L	452000	50000	50000	50000	428000	427000	-49	-50	70-130	0	10 M1
Lead	ug/L	35.4	5000	5000	5000	4610	4790	91	95	70-130	4	10
Nickel	ug/L	101	5000	5000	5000	4870	5000	95	98	70-130	3	10
Selenium	ug/L	75.0	5000	5000	5000	6320	6440	125	127	70-130	2	10
Silver	ug/L	ND	2500	2500	2500	2670	2760	107	110	70-130	3	10
Thallium	ug/L	ND	5000	5000	5000	4470	4710	89	94	70-130	5	6
Zinc	ug/L	3140	5000	5000	5000	7060	7180	78	81	70-130	2	11

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-259R2
Pace Project No.: 60166436

QC Batch:	MPRP/26792	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60166436001		

METHOD BLANK: 1358631 Matrix: Water
Associated Lab Samples: 60166436001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/11/14 11:15	
Antimony, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Arsenic, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Beryllium, Dissolved	ug/L	ND	1.0	04/11/14 11:15	
Cadmium, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Chromium, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Cobalt, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Copper, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Iron, Dissolved	ug/L	ND	50.0	04/11/14 11:15	
Lead, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Nickel, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Selenium, Dissolved	ug/L	ND	15.0	04/11/14 11:15	
Silver, Dissolved	ug/L	ND	7.0	04/11/14 11:15	
Thallium, Dissolved	ug/L	ND	20.0	04/11/14 11:15	
Zinc, Dissolved	ug/L	ND	50.0	04/11/14 11:15	

LABORATORY CONTROL SAMPLE: 1358632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9940	99	85-115	
Antimony, Dissolved	ug/L	1000	1050	105	85-115	
Arsenic, Dissolved	ug/L	1000	979	98	85-115	
Beryllium, Dissolved	ug/L	1000	1030	103	85-115	
Cadmium, Dissolved	ug/L	1000	994	99	85-115	
Chromium, Dissolved	ug/L	1000	971	97	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	10000	100	85-115	
Lead, Dissolved	ug/L	1000	1010	101	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1030	103	85-115	
Silver, Dissolved	ug/L	500	497	99	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	973	97	85-115	

MATRIX SPIKE SAMPLE: 1358633

Parameter	Units	60166517001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	ND	10000	9990	100	70-130	
Antimony, Dissolved	ug/L	ND	1000	1120	112	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-259R2

Pace Project No.: 60166436

MATRIX SPIKE SAMPLE:		1358633					
Parameter	Units	60166517001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	ND	1000	1050	105	70-130	
Beryllium, Dissolved	ug/L	ND	1000	1010	101	70-130	
Cadmium, Dissolved	ug/L	ND	1000	1030	103	70-130	
Chromium, Dissolved	ug/L	ND	1000	952	95	70-130	
Cobalt, Dissolved	ug/L	ND	1000	1010	101	70-130	
Copper, Dissolved	ug/L	ND	1000	1060	106	70-130	
Iron, Dissolved	ug/L	ND	10000	9690	97	70-130	
Lead, Dissolved	ug/L	ND	1000	972	97	70-130	
Nickel, Dissolved	ug/L	ND	1000	1010	101	70-130	
Selenium, Dissolved	ug/L	ND	1000	1090	109	70-130	
Silver, Dissolved	ug/L	ND	500	516	103	70-130	
Thallium, Dissolved	ug/L	ND	1000	964	96	70-130	
Zinc, Dissolved	ug/L	ND	1000	934	93	70-130	

MATRIX SPIKE SAMPLE:		1358634					
Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	1010	50000	50900	100	70-130	
Antimony, Dissolved	ug/L	ND	5000	6390	126	70-130	
Arsenic, Dissolved	ug/L	798	5000	6320	110	70-130	
Beryllium, Dissolved	ug/L	ND	5000	4890	98	70-130	
Cadmium, Dissolved	ug/L	ND	5000	5290	106	70-130	
Chromium, Dissolved	ug/L	154	5000	4870	94	70-130	
Cobalt, Dissolved	ug/L	27.1	5000	4960	99	70-130	
Copper, Dissolved	ug/L	ND	5000	5560	111	70-130	
Iron, Dissolved	ug/L	355000	50000	402000	96	70-130	
Lead, Dissolved	ug/L	40.6	5000	4630	92	70-130	
Nickel, Dissolved	ug/L	80.0	5000	4990	98	70-130	
Selenium, Dissolved	ug/L	ND	5000	6300	125	70-130	
Silver, Dissolved	ug/L	ND	2500	2720	108	70-130	
Thallium, Dissolved	ug/L	ND	5000	4430	89	70-130	
Zinc, Dissolved	ug/L	3550	5000	9280	115	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-259R2

Pace Project No.: 60166436

QC Batch: MSV/60683 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60166436001, 60166436002

METHOD BLANK: 1357477

Matrix: Water

Associated Lab Samples: 60166436001, 60166436002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/09/14 14:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/09/14 14:29	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/09/14 14:29	
1,2-Dichloroethane	ug/L	ND	1.0	04/09/14 14:29	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/09/14 14:29	
2-Butanone (MEK)	ug/L	ND	10.0	04/09/14 14:29	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/09/14 14:29	N2
Acetone	ug/L	ND	10.0	04/09/14 14:29	N2
Benzene	ug/L	ND	1.0	04/09/14 14:29	
Bromodichloromethane	ug/L	ND	1.0	04/09/14 14:29	
Bromoform	ug/L	ND	1.0	04/09/14 14:29	
Bromomethane	ug/L	ND	5.0	04/09/14 14:29	
Carbon tetrachloride	ug/L	ND	1.0	04/09/14 14:29	
Chloroethane	ug/L	ND	1.0	04/09/14 14:29	
Chloroform	ug/L	ND	1.0	04/09/14 14:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/09/14 14:29	N2
Ethylbenzene	ug/L	ND	1.0	04/09/14 14:29	
Methylene chloride	ug/L	ND	1.0	04/09/14 14:29	
Tetrachloroethene	ug/L	ND	1.0	04/09/14 14:29	
Toluene	ug/L	ND	1.0	04/09/14 14:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/09/14 14:29	
Trichloroethene	ug/L	ND	1.0	04/09/14 14:29	
Vinyl chloride	ug/L	ND	1.0	04/09/14 14:29	
Xylene (Total)	ug/L	ND	3.0	04/09/14 14:29	N2
1,2-Dichloroethane-d4 (S)	%	102	80-120	04/09/14 14:29	
4-Bromofluorobenzene (S)	%	103	80-120	04/09/14 14:29	
Toluene-d8 (S)	%	101	80-120	04/09/14 14:29	

LABORATORY CONTROL SAMPLE: 1357478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.5	98	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.2	101	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.1	95	67-124	
1,2-Dichloroethane	ug/L	20	19.5	97	70-126	
1,4-Dichlorobenzene	ug/L	20	18.6	93	74-120	
2-Butanone (MEK)	ug/L	100	142	142	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	59-131	N2
Acetone	ug/L	100	182	182	38-134	L0,N2
Benzene	ug/L	20	19.1	95	75-120	
Bromodichloromethane	ug/L	20	20.0	100	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-259R2

Pace Project No.: 60166436

LABORATORY CONTROL SAMPLE: 1357478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.0	100	65-127	
Bromomethane	ug/L	20	21.8	109	13-157	
Carbon tetrachloride	ug/L	20	19.5	98	70-131	
Chloroethane	ug/L	20	20.9	104	47-133	
Chloroform	ug/L	20	19.1	95	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.6	103	68-127	N2
Ethylbenzene	ug/L	20	18.8	94	74-122	
Methylene chloride	ug/L	20	20.0	100	64-129	
Tetrachloroethene	ug/L	20	19.1	96	73-125	
Toluene	ug/L	20	19.2	96	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.3	101	66-129	
Trichloroethene	ug/L	20	20.0	100	71-123	
Vinyl chloride	ug/L	20	23.2	116	43-129	
Xylene (Total)	ug/L	60	56.6	94	75-121	N2
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			107	80-120	
Toluene-d8 (S)	%			102	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-259R2

Pace Project No.: 60166436

QC Batch: OEXT/43578

Analysis Method: EPA 625

QC Batch Method: EPA 625

Analysis Description: 625 MSS

Associated Lab Samples: 60166436001

METHOD BLANK: 1357790

Matrix: Water

Associated Lab Samples: 60166436001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/11/14 09:14	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/11/14 09:14	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/11/14 09:14	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/11/14 09:14	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/11/14 09:14	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/11/14 09:14	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/11/14 09:14	
Hexachloroethane	ug/L	ND	5.0	04/11/14 09:14	
Naphthalene	ug/L	ND	5.0	04/11/14 09:14	
Nitrobenzene	ug/L	ND	5.0	04/11/14 09:14	
Pentachlorophenol	ug/L	ND	5.0	04/11/14 09:14	
Phenol	ug/L	ND	5.0	04/11/14 09:14	
2,4,6-Tribromophenol (S)	%	86	39-120	04/11/14 09:14	
2-Fluorobiphenyl (S)	%	87	39-120	04/11/14 09:14	
2-Fluorophenol (S)	%	43	17-120	04/11/14 09:14	
Nitrobenzene-d5 (S)	%	83	33-120	04/11/14 09:14	
Phenol-d6 (S)	%	29	11-120	04/11/14 09:14	
Terphenyl-d14 (S)	%	91	45-120	04/11/14 09:14	

LABORATORY CONTROL SAMPLE: 1357791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	40.0	80	46-120	
2,4,6-Trichlorophenol	ug/L	50	41.0	82	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	36.2	72	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	33.0	66	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	48.2	96	40-133	
Hexachloro-1,3-butadiene	ug/L	50	40.7	81	44-116	
Hexachlorocyclopentadiene	ug/L	100	77.4	77	24-120	
Hexachloroethane	ug/L	50	41.0	82	43-113	
Naphthalene	ug/L	50	39.2	78	48-120	
Nitrobenzene	ug/L	50	40.7	81	48-120	
Pentachlorophenol	ug/L	50	40.4	81	47-120	
Phenol	ug/L	50	18.5	37	16-112	
2,4,6-Tribromophenol (S)	%			91	39-120	
2-Fluorobiphenyl (S)	%			84	39-120	
2-Fluorophenol (S)	%			48	17-120	
Nitrobenzene-d5 (S)	%			80	33-120	
Phenol-d6 (S)	%			32	11-120	
Terphenyl-d14 (S)	%			90	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-259R2

Pace Project No.: 60166436

MATRIX SPIKE SAMPLE:		1357792					
Parameter	Units	60166436001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3820	76	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4470	89	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	4800	96	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	10100	5000	13000	56	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4990J	100	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3850	77	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	8300	83	11-120	
Hexachloroethane	ug/L	ND	5000	4170	83	40-113	
Naphthalene	ug/L	5380	5000	9330	79	45-120	
Nitrobenzene	ug/L	ND	5000	4300	86	38-120	
Pentachlorophenol	ug/L	ND	5000	5220	104	43-135	
Phenol	ug/L	13100	5000	13800	14	13-112	
2,4,6-Tribromophenol (S)	%				98	39-120	
2-Fluorobiphenyl (S)	%				88	39-120	
2-Fluorophenol (S)	%				51	17-120	
Nitrobenzene-d5 (S)	%				163	33-120	S0
Phenol-d6 (S)	%				37	11-120	
Terphenyl-d14 (S)	%				87	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-259R2

Pace Project No.: 60166436

QC Batch: WET/47228

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60166436001

METHOD BLANK: 1357785

Matrix: Water

Associated Lab Samples: 60166436001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/10/14 06:47	

LABORATORY CONTROL SAMPLE: 1357786

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: 1357787

Parameter	Units	60166608001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	43	45.3	103	78-114	

SAMPLE DUPLICATE: 1357789

Parameter	Units	60166481001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1390	1350	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-259R2

Pace Project No.: 60166436

QC Batch: WET/47263

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60166436001

METHOD BLANK: 1358903

Matrix: Water

Associated Lab Samples: 60166436001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	04/11/14 10:13	

LABORATORY CONTROL SAMPLE: 1358904

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: 1358906

Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	13.3	83.3	71.2	69	64-132	

SAMPLE DUPLICATE: 1358905

Parameter	Units	60166218001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	7.7	9.2	18	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-259R2

Pace Project No.: 60166436

QC Batch: WET/47250

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60166436001

METHOD BLANK: 1358316

Matrix: Water

Associated Lab Samples: 60166436001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/10/14 14:27	

SAMPLE DUPLICATE: 1358317

Parameter	Units	60166436001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3220	3240	1	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-259R2

Pace Project No.: 60166436

QC Batch: WET/47169 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60166436001

SAMPLE DUPLICATE: 1356543

Parameter	Units	60166218001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.6	5.6	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-259R2

Pace Project No.: 60166436

QC Batch: WET/47135

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60166436001

METHOD BLANK: 1356120

Matrix: Water

Associated Lab Samples: 60166436001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/10/14 14:09	

LABORATORY CONTROL SAMPLE: 1356121

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	193	98	85-115	

SAMPLE DUPLICATE: 1356122

Parameter	Units	60166436001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	41600	33100	23	17	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-259R2

Pace Project No.: 60166436

QC Batch: WETA/28972

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60166436001

METHOD BLANK: 1357981

Matrix: Water

Associated Lab Samples: 60166436001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/10/14 12:03	

LABORATORY CONTROL SAMPLE: 1357982

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

MATRIX SPIKE SAMPLE: 1357983

Parameter	Units	60166333001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.7	86	90-110	M1

MATRIX SPIKE SAMPLE: 1357984

Parameter	Units	60166341003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.1	105	90-110	

SAMPLE DUPLICATE: 1357985

Parameter	Units	60166481001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	559	576	3	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-259R2

Pace Project No.: 60166436

QC Batch:	WETA/29003	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60166436001		

METHOD BLANK: 1360047 Matrix: Water
Associated Lab Samples: 60166436001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	04/14/14 10:26	

LABORATORY CONTROL SAMPLE: 1360048

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	52.0	104	90-110	

MATRIX SPIKE SAMPLE: 1360049

Parameter	Units	60166122001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	12.9	50	59.4	93	90-110	

MATRIX SPIKE SAMPLE: 1360051

Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50700	25000	69300	74	90-110	M1

SAMPLE DUPLICATE: 1360050

Parameter	Units	60166284001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	566	550	3	25	

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QUALIFIERS

Project: BRIDGETON LF 316-259R2
Pace Project No.: 60166436

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/60683

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

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
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.
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.
S2	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-259R2

Pace Project No.: 60166436

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60166436001	316-259R2	EPA 200.7	MPRP/26757	EPA 200.7	ICP/20331
60166436001	316-259R2	EPA 200.7	MPRP/26792	EPA 200.7	ICP/20356
60166436001	316-259R2	EPA 245.1	MERP/8284	EPA 245.1	MERC/8240
60166436001	316-259R2	EPA 245.1	MERP/8295	EPA 245.1	MERC/8251
60166436001	316-259R2	EPA 625	OEXT/43578	EPA 625	MSSV/13910
60166436001	316-259R2	EPA 624 Low	MSV/60683		
60166436002	TRIP BLANK	EPA 624 Low	MSV/60683		
60166436001	316-259R2	EPA 1664A	WET/47228		
60166436001	316-259R2	EPA 1664A	WET/47263		
60166436001	316-259R2	SM 2540D	WET/47250		
60166436001	316-259R2	SM 4500-H+B	WET/47169		
60166436001	316-259R2	SM 5210B	WET/47135	SM 5210B	WET/47249
60166436001	316-259R2	EPA 350.1	WETA/28972		
60166436001	316-259R2	EPA 410.4	WETA/29003		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO# : 60166436

60166436

Client Name: BarrCourier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☒ XroadTracking #: _____ 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 ☒ ZIPILThermometer Used: T-239 / T-194Type of Ice: Wet Blue ☐ None ☐ Samples received on ice, cooling process has begun.
(circle one)Cooler Temperature: 3.4

Temperature should be above freezing to 6°C

Date and initials of person examining contents: pv 4/5/14

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☒ Yes ☐ No ☐ N/A	6. <u>Boo PH</u>
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	9.
Pace containers used:	☒ Yes ☐ No ☐ N/A	10.
Containers intact:	☒ Yes ☐ No ☐ N/A	11.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	12.
Filtered volume received for dissolved tests?	☐ Yes ☐ No ☒ N/A	13.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	14.
Includes date/time/ID/analyses	Matrix: <u>WT</u>	15.
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	16.
All containers needing preservation are found to be in compliance with EPA recommendation.	☒ Yes ☐ No ☐ N/A	17.
Exceptions: <u>VOA</u> coliform, TOC, <u>O&G</u> , WI-DRO (water), Phenolics	☒ Yes ☐ No	Initial when completed <u>pv</u>
Trip Blank present:	☒ Yes ☐ No ☐ N/A	Lot # of added preservative <u>12522</u>
Pace Trip Blank lot # (if purchased): <u>Cover</u>		<u>12513</u>
Headspace in VOA vials (>6mm):	☐ Yes ☒ No ☐ N/A	
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ 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: 4/5/14

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: Fax:

Requested Due Date/TAT:

Section B

Required Project Information:

Report To: ED GALBRAITH/BARR

Copy To: SCOTT FEDAK/FEEZOR
DANA BAKER/MARGARET TREANOR-BARR

Purchase Order No.: PO 3727110

Project Name: WEEKLY UNTREATED COMMINGLED-
BRIDGETON LE

Project Number:

Section C

Invoice Information:

Attention: JANET ROLLEN
AMY HARGROVE/BRIAN POWER

Company Name: REPUBLIC SERVICES

Address: BRIDGETON, MO 63044

Pace Quote Reference: 130426 7588

Pace Project Manager: Angie Brown 913-563-1402

Pace Profile #: PROFILE 6787-LINE 62

Page: / of /

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

Site Location

MO

STATE:

Requested Analysis Filtered (Y/N)

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 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											
					DATE	TIME	DATE	TIME																					
1	316-259 R2 2A44h 1BP34		OT	G	4/3/14	1747				15	10	4	1	3A636	1BP35	X	X	X	X	X	X	X	X	X	X	X	X	X	18P24 2BP24 5D/HA 01
2	TRIP BLANK									2	2																		2D69uTB 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		
	Paul L. Wiscott	04/04/14	3:56pm	William A. Bernathy	04/04/14	3:56pm			
					4/5/14	0135	3-4	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed
(MM/DD/YY):

Temp in °C

Received on
Ice (Y/N)

Custody Sealed
Cooler (Y/N)

Samples Intact
(Y/N)

April 14, 2014

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

RE: Project: BRIDGETON LF 328-MSD TB-1
Pace Project No.: 60166437

Dear Ed Galbraith:

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

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.
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 328-MSD TB-1

Pace Project No.: 60166437

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 328-MSD TB-1

Pace Project No.: 60166437

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60166437001	328-MSD TB-1	Water	04/04/14 10:40	04/05/14 01:35
60166437002	TRIP BLANK	Water	04/04/14 10:40	04/05/14 01:35

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 328-MSD TB-1

Pace Project No.: 60166437

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60166437001	328-MSD TB-1	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
		EPA 624 Low	EAK	28
60166437002	TRIP BLANK			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 328-MSD TB-1

Pace Project No.: 60166437

Sample: 328-MSD TB-1		Lab ID: 60166437001	Collected: 04/04/14 10:40	Received: 04/05/14 01:35	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	5650 ug/L		750	2	04/08/14 12:45	04/09/14 17:18	7429-90-5	D3
Antimony	ND ug/L		100	2	04/08/14 12:45	04/09/14 17:18	7440-36-0	
Arsenic	1740 ug/L		50.0	1	04/08/14 12:45	04/09/14 17:15	7440-38-2	
Beryllium	ND ug/L		5.0	1	04/08/14 12:45	04/09/14 17:15	7440-41-7	
Cadmium	ND ug/L		25.0	1	04/08/14 12:45	04/09/14 17:15	7440-43-9	
Chromium	462 ug/L		25.0	1	04/08/14 12:45	04/09/14 17:15	7440-47-3	
Cobalt	45.7 ug/L		25.0	1	04/08/14 12:45	04/09/14 17:15	7440-48-4	
Copper	56.8 ug/L		50.0	1	04/08/14 12:45	04/09/14 17:15	7440-50-8	
Iron	1250000 ug/L		250	1	04/08/14 12:45	04/09/14 17:15	7439-89-6	
Lead	128 ug/L		25.0	1	04/08/14 12:45	04/09/14 17:15	7439-92-1	
Nickel	244 ug/L		25.0	1	04/08/14 12:45	04/09/14 17:15	7440-02-0	
Selenium	112 ug/L		75.0	1	04/08/14 12:45	04/09/14 17:15	7782-49-2	
Silver	ND ug/L		35.0	1	04/08/14 12:45	04/09/14 17:15	7440-22-4	
Thallium	ND ug/L		100	1	04/08/14 12:45	04/09/14 17:15	7440-28-0	
Zinc	4410 ug/L		500	2	04/08/14 12:45	04/09/14 17:18	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	2120 ug/L		750	2	04/10/14 18:40	04/11/14 11:36	7429-90-5	D9
Antimony, Dissolved	106 ug/L		100	2	04/10/14 18:40	04/11/14 11:36	7440-36-0	
Arsenic, Dissolved	1500 ug/L		50.0	1	04/10/14 18:40	04/11/14 11:32	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	04/10/14 18:40	04/11/14 11:32	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	04/10/14 18:40	04/11/14 11:32	7440-43-9	
Chromium, Dissolved	406 ug/L		25.0	1	04/10/14 18:40	04/11/14 11:32	7440-47-3	
Cobalt, Dissolved	37.1 ug/L		25.0	1	04/10/14 18:40	04/11/14 11:32	7440-48-4	
Copper, Dissolved	57.4 ug/L		50.0	1	04/10/14 18:40	04/11/14 11:32	7440-50-8	
Iron, Dissolved	1080000 ug/L		250	1	04/10/14 18:40	04/11/14 11:32	7439-89-6	
Lead, Dissolved	96.0 ug/L		25.0	1	04/10/14 18:40	04/11/14 11:32	7439-92-1	
Nickel, Dissolved	216 ug/L		25.0	1	04/10/14 18:40	04/11/14 11:32	7440-02-0	
Selenium, Dissolved	99.8 ug/L		75.0	1	04/10/14 18:40	04/11/14 11:32	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	04/10/14 18:40	04/11/14 11:32	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	04/10/14 18:40	04/11/14 11:32	7440-28-0	
Zinc, Dissolved	4220 ug/L		500	2	04/10/14 18:40	04/11/14 11:36	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND ug/L		6.0	1	04/07/14 11:00	04/08/14 11:00	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		6.0	1	04/11/14 09:45	04/11/14 15:33	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	04/10/14 00:00	04/11/14 11:59	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	04/10/14 00:00	04/11/14 11:59	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	04/10/14 00:00	04/11/14 11:59	77-47-4	
Hexachloroethane	ND ug/L		1000	2	04/10/14 00:00	04/11/14 11:59	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	04/10/14 00:00	04/11/14 11:59	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	7970 ug/L		4000	2	04/10/14 00:00	04/11/14 11:59		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 328-MSD TB-1

Pace Project No.: 60166437

Sample: 328-MSD TB-1		Lab ID: 60166437001	Collected: 04/04/14 10:40	Received: 04/05/14 01:35	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	04/10/14 00:00	04/11/14 11:59	91-20-3	
Nitrobenzene	ND ug/L		1000	2	04/10/14 00:00	04/11/14 11:59	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	04/10/14 00:00	04/11/14 11:59	87-86-5	
Phenol	21000 ug/L		2500	5	04/10/14 00:00	04/11/14 13:22	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	04/10/14 00:00	04/11/14 11:59	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	04/10/14 00:00	04/11/14 11:59	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	206 %		33-120	2	04/10/14 00:00	04/11/14 11:59	4165-60-0	S0
2-Fluorobiphenyl (S)	85 %		39-120	2	04/10/14 00:00	04/11/14 11:59	321-60-8	
Terphenyl-d14 (S)	87 %		45-120	2	04/10/14 00:00	04/11/14 11:59	1718-51-0	
Phenol-d6 (S)	34 %		11-120	2	04/10/14 00:00	04/11/14 11:59	13127-88-3	
2-Fluorophenol (S)	46 %		17-120	2	04/10/14 00:00	04/11/14 11:59	367-12-4	
2,4,6-Tribromophenol (S)	93 %		39-120	2	04/10/14 00:00	04/11/14 11:59	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	129000 ug/L		2500	250		04/07/14 12:37	67-64-1	L1,N2
Benzene	ND ug/L		250	250		04/07/14 12:37	71-43-2	
Bromodichloromethane	ND ug/L		250	250		04/07/14 12:37	75-27-4	
Bromoform	ND ug/L		250	250		04/07/14 12:37	75-25-2	
Bromomethane	ND ug/L		1250	250		04/07/14 12:37	74-83-9	
2-Butanone (MEK)	43900 ug/L		2500	250		04/07/14 12:37	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		04/07/14 12:37	56-23-5	
Chloroethane	ND ug/L		250	250		04/07/14 12:37	75-00-3	
Chloroform	ND ug/L		250	250		04/07/14 12:37	67-66-3	
1,4-Dichlorobenzene	ND ug/L		250	250		04/07/14 12:37	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		04/07/14 12:37	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		04/07/14 12:37	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		04/07/14 12:37	156-60-5	
Ethylbenzene	ND ug/L		250	250		04/07/14 12:37	100-41-4	
Methylene chloride	446 ug/L		250	250		04/07/14 12:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		04/07/14 12:37	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		04/07/14 12:37	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		04/07/14 12:37	127-18-4	
Toluene	ND ug/L		250	250		04/07/14 12:37	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		04/07/14 12:37	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		04/07/14 12:37	79-00-5	
Trichloroethene	ND ug/L		250	250		04/07/14 12:37	79-01-6	
Vinyl chloride	ND ug/L		250	250		04/07/14 12:37	75-01-4	
Xylene (Total)	ND ug/L		750	250		04/07/14 12:37	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	94 %		80-120	250		04/07/14 12:37	460-00-4	
Toluene-d8 (S)	99 %		80-120	250		04/07/14 12:37	2037-26-5	
1,2-Dichloroethane-d4 (S)	109 %		80-120	250		04/07/14 12:37	17060-07-0	
Preservation pH	6.0		1.0	250		04/07/14 12:37		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1080 mg/L		5.0	1		04/10/14 06:50		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 328-MSD TB-1

Pace Project No.: 60166437

Sample: 328-MSD TB-1		Lab ID: 60166437001	Collected: 04/04/14 10:40	Received: 04/05/14 01:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	9.2	mg/L	5.0	1		04/11/14 10:15		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	1300	mg/L	5.0	1		04/08/14 12:21		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	4.5	Std. Units	0.10	1		04/07/14 16:20		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	41400	mg/L	2.0	1	04/05/14 10:25	04/10/14 14:20		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	283	mg/L	20.0	200		04/10/14 12:19	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	68000	mg/L	5000	500		04/14/14 10:29		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 328-MSD TB-1

Pace Project No.: 60166437

Sample: TRIP BLANK		Lab ID: 60166437002	Collected: 04/04/14 10:40	Received: 04/05/14 01:35	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		04/07/14 14:11	67-64-1	L1,N2
Benzene	ND ug/L		1.0	1		04/07/14 14:11	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/07/14 14:11	75-27-4	
Bromoform	ND ug/L		1.0	1		04/07/14 14:11	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/07/14 14:11	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/07/14 14:11	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		04/07/14 14:11	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/07/14 14:11	75-00-3	
Chloroform	ND ug/L		1.0	1		04/07/14 14:11	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/07/14 14:11	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/07/14 14:11	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/07/14 14:11	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/07/14 14:11	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/07/14 14:11	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/07/14 14:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/07/14 14:11	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/07/14 14:11	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/07/14 14:11	127-18-4	
Toluene	ND ug/L		1.0	1		04/07/14 14:11	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/07/14 14:11	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/07/14 14:11	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/07/14 14:11	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/07/14 14:11	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/07/14 14:11	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	93 %		80-120	1		04/07/14 14:11	460-00-4	
Toluene-d8 (S)	96 %		80-120	1		04/07/14 14:11	2037-26-5	
1,2-Dichloroethane-d4 (S)	96 %		80-120	1		04/07/14 14:11	17060-07-0	
Preservation pH	6.0		1.0	1		04/07/14 14:11		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 328-MSD TB-1

Pace Project No.: 60166437

QC Batch: MERP/8284

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60166437001

METHOD BLANK: 1356429

Matrix: Water

Associated Lab Samples: 60166437001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/08/14 10:27	

LABORATORY CONTROL SAMPLE: 1356430

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.6	111	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1356431 1356432

Parameter	Units	60166324001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.8	4.4	95	87	70-130	9	20	

MATRIX SPIKE SAMPLE: 1356433

Parameter	Units	60166224002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	3.8	77	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 328-MSD TB-1

Pace Project No.: 60166437

QC Batch: MERP/8295

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60166437001

METHOD BLANK: 1358795

Matrix: Water

Associated Lab Samples: 60166437001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/11/14 15:20	

LABORATORY CONTROL SAMPLE: 1358796

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.7	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1358797 1358798

Parameter	Units	60166481001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	119	118	79	79	70-130	1	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 328-MSD TB-1

Pace Project No.: 60166437

QC Batch: MPRP/26757

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Associated Lab Samples: 60166437001

METHOD BLANK: 1356774

Matrix: Water

Associated Lab Samples: 60166437001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/09/14 16:07	
Antimony	ug/L	ND	10.0	04/09/14 16:07	
Arsenic	ug/L	ND	10.0	04/09/14 16:07	
Beryllium	ug/L	ND	1.0	04/09/14 16:07	
Cadmium	ug/L	ND	5.0	04/09/14 16:07	
Chromium	ug/L	ND	5.0	04/09/14 16:07	
Cobalt	ug/L	ND	5.0	04/09/14 16:07	
Copper	ug/L	ND	10.0	04/09/14 16:07	
Iron	ug/L	ND	50.0	04/09/14 16:07	
Lead	ug/L	ND	5.0	04/09/14 16:07	
Nickel	ug/L	ND	5.0	04/09/14 16:07	
Selenium	ug/L	ND	15.0	04/09/14 16:07	
Silver	ug/L	ND	7.0	04/09/14 16:07	
Thallium	ug/L	ND	20.0	04/09/14 16:07	
Zinc	ug/L	ND	50.0	04/09/14 16:07	

LABORATORY CONTROL SAMPLE: 1356775

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9850	99	85-115	
Antimony	ug/L	1000	1090	109	85-115	
Arsenic	ug/L	1000	1020	102	85-115	
Beryllium	ug/L	1000	994	99	85-115	
Cadmium	ug/L	1000	1030	103	85-115	
Chromium	ug/L	1000	949	95	85-115	
Cobalt	ug/L	1000	1030	103	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	9720	97	85-115	
Lead	ug/L	1000	1010	101	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1060	106	85-115	
Silver	ug/L	500	493	99	85-115	
Thallium	ug/L	1000	1030	103	85-115	
Zinc	ug/L	1000	947	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1356776

1356777

Parameter	Units	60166218001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	ND	50000	50000	49300	51400	97	101	70-130	4	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 328-MSD TB-1

Pace Project No.: 60166437

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1356776 1356777											
Parameter	Units	60166218001		MS	MSD	MS		MSD	% Rec	Max	
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	RPD
Antimony	ug/L	ND	5000	5000	5000	5580	5820	111	115	70-130	4
Arsenic	ug/L	1020	5000	5000	5000	6560	6760	111	115	70-130	3
Beryllium	ug/L	ND	5000	5000	5000	4710	4830	94	97	70-130	3
Cadmium	ug/L	ND	5000	5000	5000	5440	5660	109	113	70-130	4
Chromium	ug/L	184	5000	5000	5000	4830	5040	93	97	70-130	4
Cobalt	ug/L	27.6	5000	5000	5000	4940	5140	98	102	70-130	4
Copper	ug/L	ND	5000	5000	5000	5500	5730	110	115	70-130	4
Iron	ug/L	452000	50000	50000	50000	428000	427000	-49	-50	70-130	0
Lead	ug/L	35.4	5000	5000	5000	4610	4790	91	95	70-130	4
Nickel	ug/L	101	5000	5000	5000	4870	5000	95	98	70-130	3
Selenium	ug/L	75.0	5000	5000	5000	6320	6440	125	127	70-130	2
Silver	ug/L	ND	2500	2500	2500	2670	2760	107	110	70-130	3
Thallium	ug/L	ND	5000	5000	5000	4470	4710	89	94	70-130	5
Zinc	ug/L	3140	5000	5000	5000	7060	7180	78	81	70-130	2

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QUALITY CONTROL DATA

Project: BRIDGETON LF 328-MSD TB-1

Pace Project No.: 60166437

QC Batch:	MPRP/26792	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60166437001		

METHOD BLANK: 1358631 Matrix: Water

Associated Lab Samples: 60166437001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/11/14 11:15	
Antimony, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Arsenic, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Beryllium, Dissolved	ug/L	ND	1.0	04/11/14 11:15	
Cadmium, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Chromium, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Cobalt, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Copper, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Iron, Dissolved	ug/L	ND	50.0	04/11/14 11:15	
Lead, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Nickel, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Selenium, Dissolved	ug/L	ND	15.0	04/11/14 11:15	
Silver, Dissolved	ug/L	ND	7.0	04/11/14 11:15	
Thallium, Dissolved	ug/L	ND	20.0	04/11/14 11:15	
Zinc, Dissolved	ug/L	ND	50.0	04/11/14 11:15	

LABORATORY CONTROL SAMPLE: 1358632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9940	99	85-115	
Antimony, Dissolved	ug/L	1000	1050	105	85-115	
Arsenic, Dissolved	ug/L	1000	979	98	85-115	
Beryllium, Dissolved	ug/L	1000	1030	103	85-115	
Cadmium, Dissolved	ug/L	1000	994	99	85-115	
Chromium, Dissolved	ug/L	1000	971	97	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	10000	100	85-115	
Lead, Dissolved	ug/L	1000	1010	101	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1030	103	85-115	
Silver, Dissolved	ug/L	500	497	99	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	973	97	85-115	

MATRIX SPIKE SAMPLE: 1358633

Parameter	Units	60166517001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	ND	10000	9990	100	70-130	
Antimony, Dissolved	ug/L	ND	1000	1120	112	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 328-MSD TB-1

Pace Project No.: 60166437

MATRIX SPIKE SAMPLE:		1358633					
Parameter	Units	60166517001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	ND	1000	1050	105	70-130	
Beryllium, Dissolved	ug/L	ND	1000	1010	101	70-130	
Cadmium, Dissolved	ug/L	ND	1000	1030	103	70-130	
Chromium, Dissolved	ug/L	ND	1000	952	95	70-130	
Cobalt, Dissolved	ug/L	ND	1000	1010	101	70-130	
Copper, Dissolved	ug/L	ND	1000	1060	106	70-130	
Iron, Dissolved	ug/L	ND	10000	9690	97	70-130	
Lead, Dissolved	ug/L	ND	1000	972	97	70-130	
Nickel, Dissolved	ug/L	ND	1000	1010	101	70-130	
Selenium, Dissolved	ug/L	ND	1000	1090	109	70-130	
Silver, Dissolved	ug/L	ND	500	516	103	70-130	
Thallium, Dissolved	ug/L	ND	1000	964	96	70-130	
Zinc, Dissolved	ug/L	ND	1000	934	93	70-130	

MATRIX SPIKE SAMPLE:		1358634					
Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	1010	50000	50900	100	70-130	
Antimony, Dissolved	ug/L	ND	5000	6390	126	70-130	
Arsenic, Dissolved	ug/L	798	5000	6320	110	70-130	
Beryllium, Dissolved	ug/L	ND	5000	4890	98	70-130	
Cadmium, Dissolved	ug/L	ND	5000	5290	106	70-130	
Chromium, Dissolved	ug/L	154	5000	4870	94	70-130	
Cobalt, Dissolved	ug/L	27.1	5000	4960	99	70-130	
Copper, Dissolved	ug/L	ND	5000	5560	111	70-130	
Iron, Dissolved	ug/L	355000	50000	402000	96	70-130	
Lead, Dissolved	ug/L	40.6	5000	4630	92	70-130	
Nickel, Dissolved	ug/L	80.0	5000	4990	98	70-130	
Selenium, Dissolved	ug/L	ND	5000	6300	125	70-130	
Silver, Dissolved	ug/L	ND	2500	2720	108	70-130	
Thallium, Dissolved	ug/L	ND	5000	4430	89	70-130	
Zinc, Dissolved	ug/L	3550	5000	9280	115	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 328-MSD TB-1

Pace Project No.: 60166437

QC Batch:	MSV/60626	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples: 60166437001, 60166437002			

METHOD BLANK: 1356447 Matrix: Water

Associated Lab Samples: 60166437001, 60166437002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/07/14 10:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/07/14 10:47	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/07/14 10:47	
1,2-Dichloroethane	ug/L	ND	1.0	04/07/14 10:47	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/07/14 10:47	
2-Butanone (MEK)	ug/L	ND	10.0	04/07/14 10:47	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/07/14 10:47	N2
Acetone	ug/L	ND	10.0	04/07/14 10:47	N2
Benzene	ug/L	ND	1.0	04/07/14 10:47	
Bromodichloromethane	ug/L	ND	1.0	04/07/14 10:47	
Bromoform	ug/L	ND	1.0	04/07/14 10:47	
Bromomethane	ug/L	ND	5.0	04/07/14 10:47	
Carbon tetrachloride	ug/L	ND	1.0	04/07/14 10:47	
Chloroethane	ug/L	ND	1.0	04/07/14 10:47	
Chloroform	ug/L	ND	1.0	04/07/14 10:47	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/07/14 10:47	N2
Ethylbenzene	ug/L	ND	1.0	04/07/14 10:47	
Methylene chloride	ug/L	ND	1.0	04/07/14 10:47	
Tetrachloroethene	ug/L	ND	1.0	04/07/14 10:47	
Toluene	ug/L	ND	1.0	04/07/14 10:47	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/07/14 10:47	
Trichloroethene	ug/L	ND	1.0	04/07/14 10:47	
Vinyl chloride	ug/L	ND	1.0	04/07/14 10:47	
Xylene (Total)	ug/L	ND	3.0	04/07/14 10:47	N2
1,2-Dichloroethane-d4 (S)	%	99	80-120	04/07/14 10:47	
4-Bromofluorobenzene (S)	%	94	80-120	04/07/14 10:47	
Toluene-d8 (S)	%	104	80-120	04/07/14 10:47	

LABORATORY CONTROL SAMPLE: 1356448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.2	91	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	18.9	94	67-127	N2
1,1,2-Trichloroethane	ug/L	20	18.9	94	67-124	
1,2-Dichloroethane	ug/L	20	19.4	97	70-126	
1,4-Dichlorobenzene	ug/L	20	18.1	90	74-120	
2-Butanone (MEK)	ug/L	100	118	118	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	97.2	97	59-131	N2
Acetone	ug/L	100	156	156	38-134	L0,N2
Benzene	ug/L	20	18.3	91	75-120	
Bromodichloromethane	ug/L	20	19.5	97	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 328-MSD TB-1

Pace Project No.: 60166437

LABORATORY CONTROL SAMPLE: 1356448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.5	102	65-127	
Bromomethane	ug/L	20	18.9	94	13-157	
Carbon tetrachloride	ug/L	20	19.7	99	70-131	
Chloroethane	ug/L	20	19.6	98	47-133	
Chloroform	ug/L	20	18.3	92	65-127	
cis-1,2-Dichloroethene	ug/L	20	18.8	94	68-127	N2
Ethylbenzene	ug/L	20	19.3	97	74-122	
Methylene chloride	ug/L	20	16.2	81	64-129	
Tetrachloroethene	ug/L	20	18.9	95	73-125	
Toluene	ug/L	20	18.4	92	69-126	
trans-1,2-Dichloroethene	ug/L	20	19.3	97	66-129	
Trichloroethene	ug/L	20	18.8	94	71-123	
Vinyl chloride	ug/L	20	20.6	103	43-129	
Xylene (Total)	ug/L	60	57.5	96	75-121	N2
1,2-Dichloroethane-d4 (S)	%			95	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			96	80-120	

MATRIX SPIKE SAMPLE: 1356449

Parameter	Units	60166218001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	10000	14800	148	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	10000	11100	111	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	10000	13000	130	52-143	
1,2-Dichloroethane	ug/L	ND	10000	13800	138	49-144	
1,4-Dichlorobenzene	ug/L	675	10000	10900	102	33-140	
2-Butanone (MEK)	ug/L	146000	50000	215000	138	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50000	76700	145	40-160	N2
Acetone	ug/L	334000	50000	411000	155	10-160	N2
Benzene	ug/L	ND	10000	13700	136	37-151	
Bromodichloromethane	ug/L	ND	10000	14400	144	35-142	M1
Bromoform	ug/L	ND	10000	13100	131	45-142	
Bromomethane	ug/L	ND	10000	13900	139	10-158	
Carbon tetrachloride	ug/L	ND	10000	16000	160	70-140	M1
Chloroethane	ug/L	ND	10000	14500	145	19-152	
Chloroform	ug/L	ND	10000	14000	140	51-138	M1
cis-1,2-Dichloroethene	ug/L	ND	10000	14200	142	34-147	N2
Ethylbenzene	ug/L	ND	10000	12500	124	40-142	
Methylene chloride	ug/L	760	10000	12900	121	31-144	
Tetrachloroethene	ug/L	ND	10000	13200	132	64-148	
Toluene	ug/L	ND	10000	13900	139	47-150	
trans-1,2-Dichloroethene	ug/L	ND	10000	14800	148	54-151	
Trichloroethene	ug/L	ND	10000	14400	144	71-149	
Vinyl chloride	ug/L	ND	10000	15700	157	22-146	M1
Xylene (Total)	ug/L	ND	30000	37700	126	37-144	N2
1,2-Dichloroethane-d4 (S)	%				133	80-120	S0
4-Bromofluorobenzene (S)	%				96	80-120	S2

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 328-MSD TB-1

Pace Project No.: 60166437

MATRIX SPIKE SAMPLE:		1356449					
Parameter	Units	60166218001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
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 328-MSD TB-1
Pace Project No.: 60166437

QC Batch:	OEXT/43578	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60166437001		

METHOD BLANK: 1357790 Matrix: Water
Associated Lab Samples: 60166437001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/11/14 09:14	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/11/14 09:14	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/11/14 09:14	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/11/14 09:14	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/11/14 09:14	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/11/14 09:14	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/11/14 09:14	
Hexachloroethane	ug/L	ND	5.0	04/11/14 09:14	
Naphthalene	ug/L	ND	5.0	04/11/14 09:14	
Nitrobenzene	ug/L	ND	5.0	04/11/14 09:14	
Pentachlorophenol	ug/L	ND	5.0	04/11/14 09:14	
Phenol	ug/L	ND	5.0	04/11/14 09:14	
2,4,6-Tribromophenol (S)	%	86	39-120	04/11/14 09:14	
2-Fluorobiphenyl (S)	%	87	39-120	04/11/14 09:14	
2-Fluorophenol (S)	%	43	17-120	04/11/14 09:14	
Nitrobenzene-d5 (S)	%	83	33-120	04/11/14 09:14	
Phenol-d6 (S)	%	29	11-120	04/11/14 09:14	
Terphenyl-d14 (S)	%	91	45-120	04/11/14 09:14	

LABORATORY CONTROL SAMPLE: 1357791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	40.0	80	46-120	
2,4,6-Trichlorophenol	ug/L	50	41.0	82	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	36.2	72	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	33.0	66	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	48.2	96	40-133	
Hexachloro-1,3-butadiene	ug/L	50	40.7	81	44-116	
Hexachlorocyclopentadiene	ug/L	100	77.4	77	24-120	
Hexachloroethane	ug/L	50	41.0	82	43-113	
Naphthalene	ug/L	50	39.2	78	48-120	
Nitrobenzene	ug/L	50	40.7	81	48-120	
Pentachlorophenol	ug/L	50	40.4	81	47-120	
Phenol	ug/L	50	18.5	37	16-112	
2,4,6-Tribromophenol (S)	%			91	39-120	
2-Fluorobiphenyl (S)	%			84	39-120	
2-Fluorophenol (S)	%			48	17-120	
Nitrobenzene-d5 (S)	%			80	33-120	
Phenol-d6 (S)	%			32	11-120	
Terphenyl-d14 (S)	%			90	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 328-MSD TB-1

Pace Project No.: 60166437

MATRIX SPIKE SAMPLE:		1357792					
Parameter	Units	60166436001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3820	76	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4470	89	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	4800	96	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	10100	5000	13000	56	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4990J	100	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3850	77	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	8300	83	11-120	
Hexachloroethane	ug/L	ND	5000	4170	83	40-113	
Naphthalene	ug/L	5380	5000	9330	79	45-120	
Nitrobenzene	ug/L	ND	5000	4300	86	38-120	
Pentachlorophenol	ug/L	ND	5000	5220	104	43-135	
Phenol	ug/L	13100	5000	13800	14	13-112	
2,4,6-Tribromophenol (S)	%				98	39-120	
2-Fluorobiphenyl (S)	%				88	39-120	
2-Fluorophenol (S)	%				51	17-120	
Nitrobenzene-d5 (S)	%				163	33-120	SO
Phenol-d6 (S)	%				37	11-120	
Terphenyl-d14 (S)	%				87	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 328-MSD TB-1

Pace Project No.: 60166437

QC Batch: WET/47228

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60166437001

METHOD BLANK: 1357785

Matrix: Water

Associated Lab Samples: 60166437001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/10/14 06:47	

LABORATORY CONTROL SAMPLE: 1357786

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: 1357787

Parameter	Units	60166608001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	43	45.3	103	78-114	

SAMPLE DUPLICATE: 1357789

Parameter	Units	60166481001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1390	1350	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 328-MSD TB-1

Pace Project No.: 60166437

QC Batch: WET/47263

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60166437001

METHOD BLANK: 1358903

Matrix: Water

Associated Lab Samples: 60166437001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	04/11/14 10:13	

LABORATORY CONTROL SAMPLE: 1358904

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: 1358906

Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	13.3	83.3	71.2	69	64-132	

SAMPLE DUPLICATE: 1358905

Parameter	Units	60166218001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	7.7	9.2	18	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 328-MSD TB-1

Pace Project No.: 60166437

QC Batch: WET/47183

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60166437001

METHOD BLANK: 1356708

Matrix: Water

Associated Lab Samples: 60166437001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/08/14 12:21	

SAMPLE DUPLICATE: 1356709

Parameter	Units	60166481001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3240	3300	2	10	

SAMPLE DUPLICATE: 1356710

Parameter	Units	60166190003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2400	2460	2	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 328-MSD TB-1

Pace Project No.: 60166437

QC Batch: WET/47169 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60166437001

SAMPLE DUPLICATE: 1356543

Parameter	Units	60166218001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.6	5.6	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 328-MSD TB-1

Pace Project No.: 60166437

QC Batch: WET/47135

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60166437001

METHOD BLANK: 1356120

Matrix: Water

Associated Lab Samples: 60166437001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/10/14 14:09	

LABORATORY CONTROL SAMPLE: 1356121

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	193	98	85-115	

SAMPLE DUPLICATE: 1356122

Parameter	Units	60166436001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	41600	33100	23	17	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 328-MSD TB-1

Pace Project No.: 60166437

QC Batch: WETA/28972

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60166437001

METHOD BLANK: 1357981

Matrix: Water

Associated Lab Samples: 60166437001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/10/14 12:03	

LABORATORY CONTROL SAMPLE: 1357982

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

MATRIX SPIKE SAMPLE: 1357983

Parameter	Units	60166333001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.7	86	90-110	M1

MATRIX SPIKE SAMPLE: 1357984

Parameter	Units	60166341003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.1	105	90-110	

SAMPLE DUPLICATE: 1357985

Parameter	Units	60166481001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	559	576	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 328-MSD TB-1

Pace Project No.: 60166437

QC Batch:	WETA/29003	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60166437001		

METHOD BLANK: 1360047 Matrix: Water
Associated Lab Samples: 60166437001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	04/14/14 10:26	

LABORATORY CONTROL SAMPLE: 1360048

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	52.0	104	90-110	

MATRIX SPIKE SAMPLE: 1360049

Parameter	Units	60166122001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	12.9	50	59.4	93	90-110	

MATRIX SPIKE SAMPLE: 1360051

Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50700	25000	69300	74	90-110	M1

SAMPLE DUPLICATE: 1360050

Parameter	Units	60166284001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	566	550	3	25	

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QUALIFIERS

Project: BRIDGETON LF 328-MSD TB-1

Pace Project No.: 60166437

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
D9	Dissolved result is greater than the total. Data is within laboratory control limits.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
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.
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.
S2	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 328-MSD TB-1

Pace Project No.: 60166437

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60166437001	328-MSD TB-1	EPA 200.7	MPRP/26757	EPA 200.7	ICP/20331
60166437001	328-MSD TB-1	EPA 200.7	MPRP/26792	EPA 200.7	ICP/20356
60166437001	328-MSD TB-1	EPA 245.1	MERP/8284	EPA 245.1	MERC/8240
60166437001	328-MSD TB-1	EPA 245.1	MERP/8295	EPA 245.1	MERC/8251
60166437001	328-MSD TB-1	EPA 625	OEXT/43578	EPA 625	MSSV/13910
60166437001	328-MSD TB-1	EPA 624 Low	MSV/60626		
60166437002	TRIP BLANK	EPA 624 Low	MSV/60626		
60166437001	328-MSD TB-1	EPA 1664A	WET/47228		
60166437001	328-MSD TB-1	EPA 1664A	WET/47263		
60166437001	328-MSD TB-1	SM 2540D	WET/47183		
60166437001	328-MSD TB-1	SM 4500-H+B	WET/47169		
60166437001	328-MSD TB-1	SM 5210B	WET/47135	SM 5210B	WET/47249
60166437001	328-MSD TB-1	EPA 350.1	WETA/28972		
60166437001	328-MSD TB-1	EPA 410.4	WETA/29003		

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Sample Condition Upon Receipt

WO#: 60166437

60166437

Client Name: BarrCourier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☒ XroadTracking #: _____ 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 ☒ 2PICThermometer Used: T-239 / T-194Type of Ice: Wet Blue ☐ None ☐ Samples received on ice, cooling process has begun.
(circle one)Cooler Temperature: 1.4Date and initials of person examining contents: pu 9/5/14

Temperature should be above freezing to 6°C

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

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: 9/11/14

April 14, 2014

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

RE: Project: BRIDGETON LF 329 MSD TB-2
Pace Project No.: 60166438

Dear Ed Galbraith:

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

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.
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 329 MSD TB-2

Pace Project No.: 60166438

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 329 MSD TB-2

Pace Project No.: 60166438

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60166438001	329 MSD TB-2	Water	04/04/14 12:10	04/05/14 01:35
60166438002	TRIP BLANK	Water	04/04/14 12:10	04/05/14 01:35

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 329 MSD TB-2

Pace Project No.: 60166438

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60166438001	329 MSD TB-2	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
		EPA 624 Low	EAK	28
60166438002	TRIP BLANK			

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ANALYTICAL RESULTS

Project: BRIDGETON LF 329 MSD TB-2

Pace Project No.: 60166438

Sample: 329 MSD TB-2		Lab ID: 60166438001	Collected: 04/04/14 12:10	Received: 04/05/14 01:35	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	10500 ug/L		1120	3	04/08/14 12:45	04/10/14 09:02	7429-90-5	
Antimony	ND ug/L		150	3	04/08/14 12:45	04/10/14 09:02	7440-36-0	D3
Arsenic	581 ug/L		50.0	1	04/08/14 12:45	04/09/14 17:28	7440-38-2	
Beryllium	ND ug/L		5.0	1	04/08/14 12:45	04/09/14 17:28	7440-41-7	
Cadmium	ND ug/L		25.0	1	04/08/14 12:45	04/09/14 17:28	7440-43-9	
Chromium	708 ug/L		25.0	1	04/08/14 12:45	04/09/14 17:28	7440-47-3	
Cobalt	54.8 ug/L		25.0	1	04/08/14 12:45	04/09/14 17:28	7440-48-4	
Copper	ND ug/L		50.0	1	04/08/14 12:45	04/09/14 17:28	7440-50-8	
Iron	1300000 ug/L		250	1	04/08/14 12:45	04/09/14 17:28	7439-89-6	
Lead	154 ug/L		25.0	1	04/08/14 12:45	04/09/14 17:28	7439-92-1	
Nickel	168 ug/L		25.0	1	04/08/14 12:45	04/09/14 17:28	7440-02-0	
Selenium	126 ug/L		75.0	1	04/08/14 12:45	04/09/14 17:28	7782-49-2	
Silver	ND ug/L		35.0	1	04/08/14 12:45	04/09/14 17:28	7440-22-4	
Thallium	ND ug/L		100	1	04/08/14 12:45	04/09/14 17:28	7440-28-0	
Zinc	4200 ug/L		750	3	04/08/14 12:45	04/10/14 09:02	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1530 ug/L		1120	3	04/10/14 18:40	04/11/14 15:10	7429-90-5	
Antimony, Dissolved	ND ug/L		150	3	04/10/14 18:40	04/11/14 15:10	7440-36-0	D3
Arsenic, Dissolved	436 ug/L		50.0	1	04/10/14 18:40	04/11/14 11:39	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	04/10/14 18:40	04/11/14 11:39	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	04/10/14 18:40	04/11/14 11:39	7440-43-9	
Chromium, Dissolved	534 ug/L		25.0	1	04/10/14 18:40	04/11/14 11:39	7440-47-3	
Cobalt, Dissolved	31.1 ug/L		25.0	1	04/10/14 18:40	04/11/14 11:39	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	04/10/14 18:40	04/11/14 11:39	7440-50-8	
Iron, Dissolved	918000 ug/L		250	1	04/10/14 18:40	04/11/14 11:39	7439-89-6	
Lead, Dissolved	78.4 ug/L		25.0	1	04/10/14 18:40	04/11/14 11:39	7439-92-1	
Nickel, Dissolved	115 ug/L		25.0	1	04/10/14 18:40	04/11/14 11:39	7440-02-0	
Selenium, Dissolved	110 ug/L		75.0	1	04/10/14 18:40	04/11/14 11:39	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	04/10/14 18:40	04/11/14 11:39	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	04/10/14 18:40	04/11/14 11:39	7440-28-0	
Zinc, Dissolved	2900 ug/L		750	3	04/10/14 18:40	04/11/14 15:10	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND ug/L		6.0	1	04/07/14 11:00	04/08/14 11:02	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	04/11/14 09:45	04/11/14 15:36	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	04/10/14 00:00	04/11/14 12:20	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	04/10/14 00:00	04/11/14 12:20	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	04/10/14 00:00	04/11/14 12:20	77-47-4	
Hexachloroethane	ND ug/L		1000	2	04/10/14 00:00	04/11/14 12:20	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	04/10/14 00:00	04/11/14 12:20	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	11100 ug/L		4000	2	04/10/14 00:00	04/11/14 12:20		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 329 MSD TB-2

Pace Project No.: 60166438

Sample: 329 MSD TB-2		Lab ID: 60166438001	Collected: 04/04/14 12:10	Received: 04/05/14 01:35	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	04/10/14 00:00	04/11/14 12:20	91-20-3	
Nitrobenzene	ND ug/L		1000	2	04/10/14 00:00	04/11/14 12:20	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	04/10/14 00:00	04/11/14 12:20	87-86-5	
Phenol	15400 ug/L		1000	2	04/10/14 00:00	04/11/14 12:20	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	04/10/14 00:00	04/11/14 12:20	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	04/10/14 00:00	04/11/14 12:20	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	75 %		33-120	2	04/10/14 00:00	04/11/14 12:20	4165-60-0	
2-Fluorobiphenyl (S)	83 %		39-120	2	04/10/14 00:00	04/11/14 12:20	321-60-8	
Terphenyl-d14 (S)	85 %		45-120	2	04/10/14 00:00	04/11/14 12:20	1718-51-0	
Phenol-d6 (S)	31 %		11-120	2	04/10/14 00:00	04/11/14 12:20	13127-88-3	
2-Fluorophenol (S)	42 %		17-120	2	04/10/14 00:00	04/11/14 12:20	367-12-4	
2,4,6-Tribromophenol (S)	93 %		39-120	2	04/10/14 00:00	04/11/14 12:20	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	150000 ug/L		2500	250		04/09/14 15:32	67-64-1	L1,N2
Benzene	ND ug/L		250	250		04/09/14 15:32	71-43-2	
Bromodichloromethane	ND ug/L		250	250		04/09/14 15:32	75-27-4	
Bromoform	ND ug/L		250	250		04/09/14 15:32	75-25-2	
Bromomethane	ND ug/L		1250	250		04/09/14 15:32	74-83-9	
2-Butanone (MEK)	45200 ug/L		2500	250		04/09/14 15:32	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		04/09/14 15:32	56-23-5	
Chloroethane	ND ug/L		250	250		04/09/14 15:32	75-00-3	
Chloroform	ND ug/L		250	250		04/09/14 15:32	67-66-3	
1,4-Dichlorobenzene	ND ug/L		250	250		04/09/14 15:32	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		04/09/14 15:32	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		04/09/14 15:32	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		04/09/14 15:32	156-60-5	
Ethylbenzene	ND ug/L		250	250		04/09/14 15:32	100-41-4	
Methylene chloride	ND ug/L		250	250		04/09/14 15:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		04/09/14 15:32	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		04/09/14 15:32	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		04/09/14 15:32	127-18-4	
Toluene	ND ug/L		250	250		04/09/14 15:32	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		04/09/14 15:32	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		04/09/14 15:32	79-00-5	
Trichloroethene	ND ug/L		250	250		04/09/14 15:32	79-01-6	
Vinyl chloride	ND ug/L		250	250		04/09/14 15:32	75-01-4	
Xylene (Total)	ND ug/L		750	250		04/09/14 15:32	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	97 %		80-120	250		04/09/14 15:32	460-00-4	S2
Toluene-d8 (S)	103 %		80-120	250		04/09/14 15:32	2037-26-5	
1,2-Dichloroethane-d4 (S)	130 %		80-120	250		04/09/14 15:32	17060-07-0	S0
Preservation pH	6.0		1.0	250		04/09/14 15:32		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1420 mg/L		5.0	1		04/10/14 06:50		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 329 MSD TB-2

Pace Project No.: 60166438

Sample: 329 MSD TB-2		Lab ID: 60166438001	Collected: 04/04/14 12:10	Received: 04/05/14 01:35	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		04/11/14 10:15		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	5780	mg/L	5.0	1		04/08/14 12:21		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.2	Std. Units	0.10	1		04/07/14 16:20		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	34400	mg/L	2.0	1	04/05/14 10:49	04/10/14 14:32		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	820	mg/L	20.0	200		04/10/14 12:22	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	73800	mg/L	5000	500		04/14/14 10:30		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 329 MSD TB-2

Pace Project No.: 60166438

Sample: TRIP BLANK		Lab ID: 60166438002	Collected: 04/04/14 12:10	Received: 04/05/14 01:35	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		04/07/14 14:27	67-64-1	L1,N2
Benzene	ND ug/L		1.0	1		04/07/14 14:27	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/07/14 14:27	75-27-4	
Bromoform	ND ug/L		1.0	1		04/07/14 14:27	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/07/14 14:27	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/07/14 14:27	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		04/07/14 14:27	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/07/14 14:27	75-00-3	
Chloroform	ND ug/L		1.0	1		04/07/14 14:27	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/07/14 14:27	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/07/14 14:27	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/07/14 14:27	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/07/14 14:27	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/07/14 14:27	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/07/14 14:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/07/14 14:27	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/07/14 14:27	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/07/14 14:27	127-18-4	
Toluene	ND ug/L		1.0	1		04/07/14 14:27	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/07/14 14:27	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/07/14 14:27	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/07/14 14:27	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/07/14 14:27	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/07/14 14:27	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	94 %		80-120	1		04/07/14 14:27	460-00-4	
Toluene-d8 (S)	98 %		80-120	1		04/07/14 14:27	2037-26-5	
1,2-Dichloroethane-d4 (S)	99 %		80-120	1		04/07/14 14:27	17060-07-0	
Preservation pH	6.0		1.0	1		04/07/14 14:27		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 329 MSD TB-2

Pace Project No.: 60166438

QC Batch: MERP/8284

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60166438001

METHOD BLANK: 1356429

Matrix: Water

Associated Lab Samples: 60166438001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/08/14 10:27	

LABORATORY CONTROL SAMPLE: 1356430

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.6	111	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1356431 1356432

Parameter	Units	60166324001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.8	4.4	95	87	70-130	9	20	

MATRIX SPIKE SAMPLE: 1356433

Parameter	Units	60166224002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	3.8	77	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 329 MSD TB-2

Pace Project No.: 60166438

QC Batch: MERP/8295

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60166438001

METHOD BLANK: 1358795

Matrix: Water

Associated Lab Samples: 60166438001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/11/14 15:20	

LABORATORY CONTROL SAMPLE: 1358796

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.7	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1358797 1358798

Parameter	Units	60166481001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	119	118	79	79	70-130	1	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 329 MSD TB-2

Pace Project No.: 60166438

QC Batch: MPRP/26757

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Associated Lab Samples: 60166438001

METHOD BLANK: 1356774

Matrix: Water

Associated Lab Samples: 60166438001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/09/14 16:07	
Antimony	ug/L	ND	10.0	04/09/14 16:07	
Arsenic	ug/L	ND	10.0	04/09/14 16:07	
Beryllium	ug/L	ND	1.0	04/09/14 16:07	
Cadmium	ug/L	ND	5.0	04/09/14 16:07	
Chromium	ug/L	ND	5.0	04/09/14 16:07	
Cobalt	ug/L	ND	5.0	04/09/14 16:07	
Copper	ug/L	ND	10.0	04/09/14 16:07	
Iron	ug/L	ND	50.0	04/09/14 16:07	
Lead	ug/L	ND	5.0	04/09/14 16:07	
Nickel	ug/L	ND	5.0	04/09/14 16:07	
Selenium	ug/L	ND	15.0	04/09/14 16:07	
Silver	ug/L	ND	7.0	04/09/14 16:07	
Thallium	ug/L	ND	20.0	04/09/14 16:07	
Zinc	ug/L	ND	50.0	04/09/14 16:07	

LABORATORY CONTROL SAMPLE: 1356775

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9850	99	85-115	
Antimony	ug/L	1000	1090	109	85-115	
Arsenic	ug/L	1000	1020	102	85-115	
Beryllium	ug/L	1000	994	99	85-115	
Cadmium	ug/L	1000	1030	103	85-115	
Chromium	ug/L	1000	949	95	85-115	
Cobalt	ug/L	1000	1030	103	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	9720	97	85-115	
Lead	ug/L	1000	1010	101	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1060	106	85-115	
Silver	ug/L	500	493	99	85-115	
Thallium	ug/L	1000	1030	103	85-115	
Zinc	ug/L	1000	947	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1356776

1356777

Parameter	Units	60166218001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	ND	50000	50000	49300	51400	97	101	70-130	4	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 329 MSD TB-2

Pace Project No.: 60166438

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1356776 1356777												
Parameter	Units	60166218001		MS	MSD	MS		MSD	% Rec		Max	
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	RPD	RPD
Antimony	ug/L	ND	5000	5000	5000	5580	5820	111	115	70-130	4	7
Arsenic	ug/L	1020	5000	5000	5000	6560	6760	111	115	70-130	3	10
Beryllium	ug/L	ND	5000	5000	5000	4710	4830	94	97	70-130	3	7
Cadmium	ug/L	ND	5000	5000	5000	5440	5660	109	113	70-130	4	10
Chromium	ug/L	184	5000	5000	5000	4830	5040	93	97	70-130	4	10
Cobalt	ug/L	27.6	5000	5000	5000	4940	5140	98	102	70-130	4	6
Copper	ug/L	ND	5000	5000	5000	5500	5730	110	115	70-130	4	11
Iron	ug/L	452000	50000	50000	50000	428000	427000	-49	-50	70-130	0	10 M1
Lead	ug/L	35.4	5000	5000	5000	4610	4790	91	95	70-130	4	10
Nickel	ug/L	101	5000	5000	5000	4870	5000	95	98	70-130	3	10
Selenium	ug/L	75.0	5000	5000	5000	6320	6440	125	127	70-130	2	10
Silver	ug/L	ND	2500	2500	2500	2670	2760	107	110	70-130	3	10
Thallium	ug/L	ND	5000	5000	5000	4470	4710	89	94	70-130	5	6
Zinc	ug/L	3140	5000	5000	5000	7060	7180	78	81	70-130	2	11

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 329 MSD TB-2

Pace Project No.: 60166438

QC Batch:	MPRP/26792	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60166438001		

METHOD BLANK: 1358631 Matrix: Water

Associated Lab Samples: 60166438001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/11/14 11:15	
Antimony, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Arsenic, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Beryllium, Dissolved	ug/L	ND	1.0	04/11/14 11:15	
Cadmium, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Chromium, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Cobalt, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Copper, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Iron, Dissolved	ug/L	ND	50.0	04/11/14 11:15	
Lead, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Nickel, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Selenium, Dissolved	ug/L	ND	15.0	04/11/14 11:15	
Silver, Dissolved	ug/L	ND	7.0	04/11/14 11:15	
Thallium, Dissolved	ug/L	ND	20.0	04/11/14 11:15	
Zinc, Dissolved	ug/L	ND	50.0	04/11/14 11:15	

LABORATORY CONTROL SAMPLE: 1358632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9940	99	85-115	
Antimony, Dissolved	ug/L	1000	1050	105	85-115	
Arsenic, Dissolved	ug/L	1000	979	98	85-115	
Beryllium, Dissolved	ug/L	1000	1030	103	85-115	
Cadmium, Dissolved	ug/L	1000	994	99	85-115	
Chromium, Dissolved	ug/L	1000	971	97	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	10000	100	85-115	
Lead, Dissolved	ug/L	1000	1010	101	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1030	103	85-115	
Silver, Dissolved	ug/L	500	497	99	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	973	97	85-115	

MATRIX SPIKE SAMPLE: 1358633

Parameter	Units	60166517001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	ND	10000	9990	100	70-130	
Antimony, Dissolved	ug/L	ND	1000	1120	112	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 329 MSD TB-2
Pace Project No.: 60166438

MATRIX SPIKE SAMPLE:		1358633					
Parameter	Units	60166517001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	ND	1000	1050	105	70-130	
Beryllium, Dissolved	ug/L	ND	1000	1010	101	70-130	
Cadmium, Dissolved	ug/L	ND	1000	1030	103	70-130	
Chromium, Dissolved	ug/L	ND	1000	952	95	70-130	
Cobalt, Dissolved	ug/L	ND	1000	1010	101	70-130	
Copper, Dissolved	ug/L	ND	1000	1060	106	70-130	
Iron, Dissolved	ug/L	ND	10000	9690	97	70-130	
Lead, Dissolved	ug/L	ND	1000	972	97	70-130	
Nickel, Dissolved	ug/L	ND	1000	1010	101	70-130	
Selenium, Dissolved	ug/L	ND	1000	1090	109	70-130	
Silver, Dissolved	ug/L	ND	500	516	103	70-130	
Thallium, Dissolved	ug/L	ND	1000	964	96	70-130	
Zinc, Dissolved	ug/L	ND	1000	934	93	70-130	

MATRIX SPIKE SAMPLE:		1358634					
Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	1010	50000	50900	100	70-130	
Antimony, Dissolved	ug/L	ND	5000	6390	126	70-130	
Arsenic, Dissolved	ug/L	798	5000	6320	110	70-130	
Beryllium, Dissolved	ug/L	ND	5000	4890	98	70-130	
Cadmium, Dissolved	ug/L	ND	5000	5290	106	70-130	
Chromium, Dissolved	ug/L	154	5000	4870	94	70-130	
Cobalt, Dissolved	ug/L	27.1	5000	4960	99	70-130	
Copper, Dissolved	ug/L	ND	5000	5560	111	70-130	
Iron, Dissolved	ug/L	355000	50000	402000	96	70-130	
Lead, Dissolved	ug/L	40.6	5000	4630	92	70-130	
Nickel, Dissolved	ug/L	80.0	5000	4990	98	70-130	
Selenium, Dissolved	ug/L	ND	5000	6300	125	70-130	
Silver, Dissolved	ug/L	ND	2500	2720	108	70-130	
Thallium, Dissolved	ug/L	ND	5000	4430	89	70-130	
Zinc, Dissolved	ug/L	3550	5000	9280	115	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 329 MSD TB-2
Pace Project No.: 60166438

QC Batch:	MSV/60626	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60166438002		

METHOD BLANK: 1356447 Matrix: Water
Associated Lab Samples: 60166438002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/07/14 10:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/07/14 10:47	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/07/14 10:47	
1,2-Dichloroethane	ug/L	ND	1.0	04/07/14 10:47	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/07/14 10:47	
2-Butanone (MEK)	ug/L	ND	10.0	04/07/14 10:47	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/07/14 10:47	N2
Acetone	ug/L	ND	10.0	04/07/14 10:47	N2
Benzene	ug/L	ND	1.0	04/07/14 10:47	
Bromodichloromethane	ug/L	ND	1.0	04/07/14 10:47	
Bromoform	ug/L	ND	1.0	04/07/14 10:47	
Bromomethane	ug/L	ND	5.0	04/07/14 10:47	
Carbon tetrachloride	ug/L	ND	1.0	04/07/14 10:47	
Chloroethane	ug/L	ND	1.0	04/07/14 10:47	
Chloroform	ug/L	ND	1.0	04/07/14 10:47	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/07/14 10:47	N2
Ethylbenzene	ug/L	ND	1.0	04/07/14 10:47	
Methylene chloride	ug/L	ND	1.0	04/07/14 10:47	
Tetrachloroethene	ug/L	ND	1.0	04/07/14 10:47	
Toluene	ug/L	ND	1.0	04/07/14 10:47	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/07/14 10:47	
Trichloroethene	ug/L	ND	1.0	04/07/14 10:47	
Vinyl chloride	ug/L	ND	1.0	04/07/14 10:47	
Xylene (Total)	ug/L	ND	3.0	04/07/14 10:47	N2
1,2-Dichloroethane-d4 (S)	%	99	80-120	04/07/14 10:47	
4-Bromofluorobenzene (S)	%	94	80-120	04/07/14 10:47	
Toluene-d8 (S)	%	104	80-120	04/07/14 10:47	

LABORATORY CONTROL SAMPLE: 1356448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.2	91	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	18.9	94	67-127	N2
1,1,2-Trichloroethane	ug/L	20	18.9	94	67-124	
1,2-Dichloroethane	ug/L	20	19.4	97	70-126	
1,4-Dichlorobenzene	ug/L	20	18.1	90	74-120	
2-Butanone (MEK)	ug/L	100	118	118	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	97.2	97	59-131	N2
Acetone	ug/L	100	156	156	38-134	L0,N2
Benzene	ug/L	20	18.3	91	75-120	
Bromodichloromethane	ug/L	20	19.5	97	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 329 MSD TB-2

Pace Project No.: 60166438

LABORATORY CONTROL SAMPLE: 1356448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.5	102	65-127	
Bromomethane	ug/L	20	18.9	94	13-157	
Carbon tetrachloride	ug/L	20	19.7	99	70-131	
Chloroethane	ug/L	20	19.6	98	47-133	
Chloroform	ug/L	20	18.3	92	65-127	
cis-1,2-Dichloroethene	ug/L	20	18.8	94	68-127	N2
Ethylbenzene	ug/L	20	19.3	97	74-122	
Methylene chloride	ug/L	20	16.2	81	64-129	
Tetrachloroethene	ug/L	20	18.9	95	73-125	
Toluene	ug/L	20	18.4	92	69-126	
trans-1,2-Dichloroethene	ug/L	20	19.3	97	66-129	
Trichloroethene	ug/L	20	18.8	94	71-123	
Vinyl chloride	ug/L	20	20.6	103	43-129	
Xylene (Total)	ug/L	60	57.5	96	75-121	N2
1,2-Dichloroethane-d4 (S)	%			95	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			96	80-120	

MATRIX SPIKE SAMPLE: 1356449

Parameter	Units	60166218001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	10000	14800	148	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	10000	11100	111	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	10000	13000	130	52-143	
1,2-Dichloroethane	ug/L	ND	10000	13800	138	49-144	
1,4-Dichlorobenzene	ug/L	675	10000	10900	102	33-140	
2-Butanone (MEK)	ug/L	146000	50000	215000	138	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50000	76700	145	40-160	N2
Acetone	ug/L	334000	50000	411000	155	10-160	N2
Benzene	ug/L	ND	10000	13700	136	37-151	
Bromodichloromethane	ug/L	ND	10000	14400	144	35-142	M1
Bromoform	ug/L	ND	10000	13100	131	45-142	
Bromomethane	ug/L	ND	10000	13900	139	10-158	
Carbon tetrachloride	ug/L	ND	10000	16000	160	70-140	M1
Chloroethane	ug/L	ND	10000	14500	145	19-152	
Chloroform	ug/L	ND	10000	14000	140	51-138	M1
cis-1,2-Dichloroethene	ug/L	ND	10000	14200	142	34-147	N2
Ethylbenzene	ug/L	ND	10000	12500	124	40-142	
Methylene chloride	ug/L	760	10000	12900	121	31-144	
Tetrachloroethene	ug/L	ND	10000	13200	132	64-148	
Toluene	ug/L	ND	10000	13900	139	47-150	
trans-1,2-Dichloroethene	ug/L	ND	10000	14800	148	54-151	
Trichloroethene	ug/L	ND	10000	14400	144	71-149	
Vinyl chloride	ug/L	ND	10000	15700	157	22-146	M1
Xylene (Total)	ug/L	ND	30000	37700	126	37-144	N2
1,2-Dichloroethane-d4 (S)	%				133	80-120	S0
4-Bromofluorobenzene (S)	%				96	80-120	S2

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QUALITY CONTROL DATA

Project: BRIDGETON LF 329 MSD TB-2

Pace Project No.: 60166438

MATRIX SPIKE SAMPLE:		1356449					
Parameter	Units	60166218001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%					101	
Preservation pH		6.0		6.0		80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 329 MSD TB-2

Pace Project No.: 60166438

QC Batch:	MSV/60683	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60166438001		

METHOD BLANK: 1357477 Matrix: Water

Associated Lab Samples: 60166438001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/09/14 14:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/09/14 14:29	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/09/14 14:29	
1,2-Dichloroethane	ug/L	ND	1.0	04/09/14 14:29	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/09/14 14:29	
2-Butanone (MEK)	ug/L	ND	10.0	04/09/14 14:29	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/09/14 14:29	N2
Acetone	ug/L	ND	10.0	04/09/14 14:29	N2
Benzene	ug/L	ND	1.0	04/09/14 14:29	
Bromodichloromethane	ug/L	ND	1.0	04/09/14 14:29	
Bromoform	ug/L	ND	1.0	04/09/14 14:29	
Bromomethane	ug/L	ND	5.0	04/09/14 14:29	
Carbon tetrachloride	ug/L	ND	1.0	04/09/14 14:29	
Chloroethane	ug/L	ND	1.0	04/09/14 14:29	
Chloroform	ug/L	ND	1.0	04/09/14 14:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/09/14 14:29	N2
Ethylbenzene	ug/L	ND	1.0	04/09/14 14:29	
Methylene chloride	ug/L	ND	1.0	04/09/14 14:29	
Tetrachloroethene	ug/L	ND	1.0	04/09/14 14:29	
Toluene	ug/L	ND	1.0	04/09/14 14:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/09/14 14:29	
Trichloroethene	ug/L	ND	1.0	04/09/14 14:29	
Vinyl chloride	ug/L	ND	1.0	04/09/14 14:29	
Xylene (Total)	ug/L	ND	3.0	04/09/14 14:29	N2
1,2-Dichloroethane-d4 (S)	%	102	80-120	04/09/14 14:29	
4-Bromofluorobenzene (S)	%	103	80-120	04/09/14 14:29	
Toluene-d8 (S)	%	101	80-120	04/09/14 14:29	

LABORATORY CONTROL SAMPLE: 1357478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.5	98	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.2	101	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.1	95	67-124	
1,2-Dichloroethane	ug/L	20	19.5	97	70-126	
1,4-Dichlorobenzene	ug/L	20	18.6	93	74-120	
2-Butanone (MEK)	ug/L	100	142	142	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	59-131	N2
Acetone	ug/L	100	182	182	38-134	L0,N2
Benzene	ug/L	20	19.1	95	75-120	
Bromodichloromethane	ug/L	20	20.0	100	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 329 MSD TB-2

Pace Project No.: 60166438

LABORATORY CONTROL SAMPLE: 1357478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.0	100	65-127	
Bromomethane	ug/L	20	21.8	109	13-157	
Carbon tetrachloride	ug/L	20	19.5	98	70-131	
Chloroethane	ug/L	20	20.9	104	47-133	
Chloroform	ug/L	20	19.1	95	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.6	103	68-127	N2
Ethylbenzene	ug/L	20	18.8	94	74-122	
Methylene chloride	ug/L	20	20.0	100	64-129	
Tetrachloroethene	ug/L	20	19.1	96	73-125	
Toluene	ug/L	20	19.2	96	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.3	101	66-129	
Trichloroethene	ug/L	20	20.0	100	71-123	
Vinyl chloride	ug/L	20	23.2	116	43-129	
Xylene (Total)	ug/L	60	56.6	94	75-121	N2
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			107	80-120	
Toluene-d8 (S)	%			102	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 329 MSD TB-2
Pace Project No.: 60166438

QC Batch:	OEXT/43578	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60166438001		

METHOD BLANK: 1357790 Matrix: Water
Associated Lab Samples: 60166438001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/11/14 09:14	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/11/14 09:14	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/11/14 09:14	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/11/14 09:14	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/11/14 09:14	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/11/14 09:14	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/11/14 09:14	
Hexachloroethane	ug/L	ND	5.0	04/11/14 09:14	
Naphthalene	ug/L	ND	5.0	04/11/14 09:14	
Nitrobenzene	ug/L	ND	5.0	04/11/14 09:14	
Pentachlorophenol	ug/L	ND	5.0	04/11/14 09:14	
Phenol	ug/L	ND	5.0	04/11/14 09:14	
2,4,6-Tribromophenol (S)	%	86	39-120	04/11/14 09:14	
2-Fluorobiphenyl (S)	%	87	39-120	04/11/14 09:14	
2-Fluorophenol (S)	%	43	17-120	04/11/14 09:14	
Nitrobenzene-d5 (S)	%	83	33-120	04/11/14 09:14	
Phenol-d6 (S)	%	29	11-120	04/11/14 09:14	
Terphenyl-d14 (S)	%	91	45-120	04/11/14 09:14	

LABORATORY CONTROL SAMPLE: 1357791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	40.0	80	46-120	
2,4,6-Trichlorophenol	ug/L	50	41.0	82	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	36.2	72	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	33.0	66	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	48.2	96	40-133	
Hexachloro-1,3-butadiene	ug/L	50	40.7	81	44-116	
Hexachlorocyclopentadiene	ug/L	100	77.4	77	24-120	
Hexachloroethane	ug/L	50	41.0	82	43-113	
Naphthalene	ug/L	50	39.2	78	48-120	
Nitrobenzene	ug/L	50	40.7	81	48-120	
Pentachlorophenol	ug/L	50	40.4	81	47-120	
Phenol	ug/L	50	18.5	37	16-112	
2,4,6-Tribromophenol (S)	%			91	39-120	
2-Fluorobiphenyl (S)	%			84	39-120	
2-Fluorophenol (S)	%			48	17-120	
Nitrobenzene-d5 (S)	%			80	33-120	
Phenol-d6 (S)	%			32	11-120	
Terphenyl-d14 (S)	%			90	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 329 MSD TB-2

Pace Project No.: 60166438

MATRIX SPIKE SAMPLE:		1357792					
Parameter	Units	60166436001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3820	76	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4470	89	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	4800	96	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	10100	5000	13000	56	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4990J	100	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3850	77	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	8300	83	11-120	
Hexachloroethane	ug/L	ND	5000	4170	83	40-113	
Naphthalene	ug/L	5380	5000	9330	79	45-120	
Nitrobenzene	ug/L	ND	5000	4300	86	38-120	
Pentachlorophenol	ug/L	ND	5000	5220	104	43-135	
Phenol	ug/L	13100	5000	13800	14	13-112	
2,4,6-Tribromophenol (S)	%				98	39-120	
2-Fluorobiphenyl (S)	%				88	39-120	
2-Fluorophenol (S)	%				51	17-120	
Nitrobenzene-d5 (S)	%				163	33-120	S0
Phenol-d6 (S)	%				37	11-120	
Terphenyl-d14 (S)	%				87	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 329 MSD TB-2

Pace Project No.: 60166438

QC Batch: WET/47228

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60166438001

METHOD BLANK: 1357785

Matrix: Water

Associated Lab Samples: 60166438001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/10/14 06:47	

LABORATORY CONTROL SAMPLE: 1357786

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: 1357787

Parameter	Units	60166608001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	43	45.3	103	78-114	

SAMPLE DUPLICATE: 1357789

Parameter	Units	60166481001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1390	1350	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 329 MSD TB-2

Pace Project No.: 60166438

QC Batch: WET/47263

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60166438001

METHOD BLANK: 1358903

Matrix: Water

Associated Lab Samples: 60166438001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	04/11/14 10:13	

LABORATORY CONTROL SAMPLE: 1358904

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: 1358906

Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	13.3	83.3	71.2	69	64-132	

SAMPLE DUPLICATE: 1358905

Parameter	Units	60166218001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	7.7	9.2	18	34	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 329 MSD TB-2

Pace Project No.: 60166438

QC Batch: WET/47183

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60166438001

METHOD BLANK: 1356708

Matrix: Water

Associated Lab Samples: 60166438001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/08/14 12:21	

SAMPLE DUPLICATE: 1356709

Parameter	Units	60166481001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3240	3300	2	10	

SAMPLE DUPLICATE: 1356710

Parameter	Units	60166190003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2400	2460	2	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 329 MSD TB-2

Pace Project No.: 60166438

QC Batch: WET/47169 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60166438001

SAMPLE DUPLICATE: 1356543

Parameter	Units	60166218001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.6	5.6	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 329 MSD TB-2

Pace Project No.: 60166438

QC Batch: WET/47135

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60166438001

METHOD BLANK: 1356120

Matrix: Water

Associated Lab Samples: 60166438001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/10/14 14:09	

LABORATORY CONTROL SAMPLE: 1356121

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	193	98	85-115	

SAMPLE DUPLICATE: 1356122

Parameter	Units	60166436001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	41600	33100	23	17	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 329 MSD TB-2

Pace Project No.: 60166438

QC Batch: WETA/28972

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60166438001

METHOD BLANK: 1357981

Matrix: Water

Associated Lab Samples: 60166438001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/10/14 12:03	

LABORATORY CONTROL SAMPLE: 1357982

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

MATRIX SPIKE SAMPLE: 1357983

Parameter	Units	60166333001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.7	86	90-110	M1

MATRIX SPIKE SAMPLE: 1357984

Parameter	Units	60166341003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.1	105	90-110	

SAMPLE DUPLICATE: 1357985

Parameter	Units	60166481001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	559	576	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 329 MSD TB-2

Pace Project No.: 60166438

QC Batch:	WETA/29003	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60166438001		

METHOD BLANK: 1360047 Matrix: Water

Associated Lab Samples: 60166438001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	04/14/14 10:26	

LABORATORY CONTROL SAMPLE: 1360048

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	52.0	104	90-110	

MATRIX SPIKE SAMPLE: 1360049

Parameter	Units	60166122001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	12.9	50	59.4	93	90-110	

MATRIX SPIKE SAMPLE: 1360051

Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50700	25000	69300	74	90-110	M1

SAMPLE DUPLICATE: 1360050

Parameter	Units	60166284001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	566	550	3	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 329 MSD TB-2
Pace Project No.: 60166438

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/60683

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

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
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.
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.
S2	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 329 MSD TB-2

Pace Project No.: 60166438

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60166438001	329 MSD TB-2	EPA 200.7	MPRP/26757	EPA 200.7	ICP/20331
60166438001	329 MSD TB-2	EPA 200.7	MPRP/26792	EPA 200.7	ICP/20356
60166438001	329 MSD TB-2	EPA 245.1	MERP/8284	EPA 245.1	MERC/8240
60166438001	329 MSD TB-2	EPA 245.1	MERP/8295	EPA 245.1	MERC/8251
60166438001	329 MSD TB-2	EPA 625	OEXT/43578	EPA 625	MSSV/13910
60166438001	329 MSD TB-2	EPA 624 Low	MSV/60683		
60166438002	TRIP BLANK	EPA 624 Low	MSV/60626		
60166438001	329 MSD TB-2	EPA 1664A	WET/47228		
60166438001	329 MSD TB-2	EPA 1664A	WET/47263		
60166438001	329 MSD TB-2	SM 2540D	WET/47183		
60166438001	329 MSD TB-2	SM 4500-H+B	WET/47169		
60166438001	329 MSD TB-2	SM 5210B	WET/47135	SM 5210B	WET/47249
60166438001	329 MSD TB-2	EPA 350.1	WETA/28972		
60166438001	329 MSD TB-2	EPA 410.4	WETA/29003		

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Sample Condition Upon Receipt

WO#: 60166438



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 ☒ ZPU

Thermometer Used: T-239 / T-194

Type of Ice: Wet Blue ☐ None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 3.4

Date and initials of person examining contents: 4/5/14 BA

Temperature should be above freezing to 6°C

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☒ Yes ☐ No ☐ N/A	6. BOD, pH
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	
Pace containers used:	☒ Yes ☐ No ☐ N/A	9.
Containers intact:	☒ Yes ☐ No ☐ N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	11.
Filtered volume received for dissolved tests?	☐ Yes ☐ No ☒ N/A	12.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	
Includes date/time/ID/analyses	Matrix: <u>WT</u>	13.
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	Initial Final Nitric pH 6.0 pH 6.0 Added 2.5 HNO3 Sulfuric pH 6.0 pH 3.0 Added 2.0 H2SO4
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☒ No ☐ N/A	14.
Exceptions: <u>VOA</u> coliform, TOC, <u>O&G</u> , WI-DRO (water), Phenolics	☒ Yes ☐ No	Initial when completed <u>BA</u> Lot # of added preservative <u>12513</u>
Trip Blank present:	☒ Yes ☐ No ☐ N/A	
Pace Trip Blank lot # (if purchased):		15.
Headspace in VOA vials (>6mm):	☐ Yes ☒ No ☐ N/A	
		16.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ 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: [Signature] Date: 4/7/14

April 14, 2014

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

RE: Project: BRIDGETON LF 316-260
Pace Project No.: 60166439

Dear Ed Galbraith:

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

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.
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-260

Pace Project No.: 60166439

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 316-260

Pace Project No.: 60166439

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60166439001	316-260	Water	04/04/14 13:10	04/05/14 01:35
60166439002	TRIP BLANK	Water	04/04/14 13:10	04/05/14 01:35

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-260

Pace Project No.: 60166439

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60166439001	316-260	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
		EPA 624 Low	EAK	28
60166439002	TRIP BLANK			

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-260

Pace Project No.: 60166439

Sample: 316-260		Lab ID: 60166439001	Collected: 04/04/14 13:10	Received: 04/05/14 01:35	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	4210	ug/L	375	1	04/08/14 12:45	04/09/14 17:36	7429-90-5	
Antimony	ND	ug/L	50.0	1	04/08/14 12:45	04/09/14 17:36	7440-36-0	
Arsenic	770	ug/L	50.0	1	04/08/14 12:45	04/09/14 17:36	7440-38-2	
Beryllium	ND	ug/L	5.0	1	04/08/14 12:45	04/09/14 17:36	7440-41-7	
Cadmium	ND	ug/L	25.0	1	04/08/14 12:45	04/09/14 17:36	7440-43-9	
Chromium	155	ug/L	25.0	1	04/08/14 12:45	04/09/14 17:36	7440-47-3	
Cobalt	28.9	ug/L	25.0	1	04/08/14 12:45	04/09/14 17:36	7440-48-4	
Copper	ND	ug/L	50.0	1	04/08/14 12:45	04/09/14 17:36	7440-50-8	
Iron	418000	ug/L	250	1	04/08/14 12:45	04/09/14 17:36	7439-89-6	
Lead	64.4	ug/L	25.0	1	04/08/14 12:45	04/09/14 17:36	7439-92-1	
Nickel	79.0	ug/L	25.0	1	04/08/14 12:45	04/09/14 17:36	7440-02-0	
Selenium	ND	ug/L	75.0	1	04/08/14 12:45	04/09/14 17:36	7782-49-2	
Silver	ND	ug/L	35.0	1	04/08/14 12:45	04/09/14 17:36	7440-22-4	
Thallium	ND	ug/L	100	1	04/08/14 12:45	04/09/14 17:36	7440-28-0	
Zinc	2830	ug/L	250	1	04/08/14 12:45	04/09/14 17:36	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	906	ug/L	750	2	04/10/14 18:40	04/11/14 12:00	7429-90-5	
Antimony, Dissolved	ND	ug/L	100	2	04/10/14 18:40	04/11/14 12:00	7440-36-0	D3
Arsenic, Dissolved	735	ug/L	50.0	1	04/10/14 18:40	04/11/14 11:47	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	04/10/14 18:40	04/11/14 11:47	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	04/10/14 18:40	04/11/14 11:47	7440-43-9	
Chromium, Dissolved	146	ug/L	25.0	1	04/10/14 18:40	04/11/14 11:47	7440-47-3	
Cobalt, Dissolved	ND	ug/L	25.0	1	04/10/14 18:40	04/11/14 11:47	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	04/10/14 18:40	04/11/14 11:47	7440-50-8	
Iron, Dissolved	332000	ug/L	250	1	04/10/14 18:40	04/11/14 11:47	7439-89-6	
Lead, Dissolved	39.7	ug/L	25.0	1	04/10/14 18:40	04/11/14 11:47	7439-92-1	
Nickel, Dissolved	72.7	ug/L	25.0	1	04/10/14 18:40	04/11/14 11:47	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	04/10/14 18:40	04/11/14 11:47	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	04/10/14 18:40	04/11/14 11:47	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	04/10/14 18:40	04/11/14 11:47	7440-28-0	
Zinc, Dissolved	2890	ug/L	500	2	04/10/14 18:40	04/11/14 12:00	7440-66-6	D9
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND	ug/L	6.0	1	04/07/14 11:00	04/08/14 11:04	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	04/11/14 09:45	04/11/14 15:38	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	04/10/14 00:00	04/11/14 12:41	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	04/10/14 00:00	04/11/14 12:41	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	04/10/14 00:00	04/11/14 12:41	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	04/10/14 00:00	04/11/14 12:41	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	2	04/10/14 00:00	04/11/14 12:41	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	6980	ug/L	4000	2	04/10/14 00:00	04/11/14 12:41		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-260
Pace Project No.: 60166439

Sample: 316-260		Lab ID: 60166439001	Collected: 04/04/14 13:10	Received: 04/05/14 01:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	2650 ug/L		1000	2	04/10/14 00:00	04/11/14 12:41	91-20-3	
Nitrobenzene	ND ug/L		1000	2	04/10/14 00:00	04/11/14 12:41	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	04/10/14 00:00	04/11/14 12:41	87-86-5	
Phenol	8840 ug/L		1000	2	04/10/14 00:00	04/11/14 12:41	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	04/10/14 00:00	04/11/14 12:41	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	04/10/14 00:00	04/11/14 12:41	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	131 %		33-120	2	04/10/14 00:00	04/11/14 12:41	4165-60-0	S0
2-Fluorobiphenyl (S)	83 %		39-120	2	04/10/14 00:00	04/11/14 12:41	321-60-8	
Terphenyl-d14 (S)	83 %		45-120	2	04/10/14 00:00	04/11/14 12:41	1718-51-0	
Phenol-d6 (S)	32 %		11-120	2	04/10/14 00:00	04/11/14 12:41	13127-88-3	
2-Fluorophenol (S)	44 %		17-120	2	04/10/14 00:00	04/11/14 12:41	367-12-4	
2,4,6-Tribromophenol (S)	96 %		39-120	2	04/10/14 00:00	04/11/14 12:41	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	178000 ug/L		2500	250		04/07/14 13:08	67-64-1	L1,N2
Benzene	ND ug/L		250	250		04/07/14 13:08	71-43-2	
Bromodichloromethane	ND ug/L		250	250		04/07/14 13:08	75-27-4	
Bromoform	ND ug/L		250	250		04/07/14 13:08	75-25-2	
Bromomethane	ND ug/L		1250	250		04/07/14 13:08	74-83-9	
2-Butanone (MEK)	76100 ug/L		2500	250		04/07/14 13:08	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		04/07/14 13:08	56-23-5	
Chloroethane	ND ug/L		250	250		04/07/14 13:08	75-00-3	
Chloroform	ND ug/L		250	250		04/07/14 13:08	67-66-3	
1,4-Dichlorobenzene	1120 ug/L		250	250		04/07/14 13:08	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		04/07/14 13:08	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		04/07/14 13:08	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		04/07/14 13:08	156-60-5	
Ethylbenzene	ND ug/L		250	250		04/07/14 13:08	100-41-4	
Methylene chloride	401 ug/L		250	250		04/07/14 13:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		04/07/14 13:08	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		04/07/14 13:08	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		04/07/14 13:08	127-18-4	
Toluene	ND ug/L		250	250		04/07/14 13:08	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		04/07/14 13:08	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		04/07/14 13:08	79-00-5	
Trichloroethene	ND ug/L		250	250		04/07/14 13:08	79-01-6	
Vinyl chloride	ND ug/L		250	250		04/07/14 13:08	75-01-4	
Xylene (Total)	ND ug/L		750	250		04/07/14 13:08	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	98 %		80-120	250		04/07/14 13:08	460-00-4	
Toluene-d8 (S)	98 %		80-120	250		04/07/14 13:08	2037-26-5	
1,2-Dichloroethane-d4 (S)	102 %		80-120	250		04/07/14 13:08	17060-07-0	
Preservation pH	6.0		1.0	250		04/07/14 13:08		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1360 mg/L		5.0	1		04/10/14 06:50		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-260

Pace Project No.: 60166439

Sample: 316-260		Lab ID: 60166439001	Collected: 04/04/14 13:10	Received: 04/05/14 01:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	18.3	mg/L	5.0	1		04/11/14 10:15		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	2240	mg/L	5.0	1		04/08/14 12:21		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.4	Std. Units	0.10	1		04/07/14 16:20		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	27600	mg/L	2.0	1	04/05/14 10:54	04/10/14 14:34		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	554	mg/L	20.0	200		04/10/14 12:23	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	49500	mg/L	5000	500		04/14/14 10:31		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-260

Pace Project No.: 60166439

Sample: TRIP BLANK		Lab ID: 60166439002	Collected: 04/04/14 13:10	Received: 04/05/14 01:35	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		04/07/14 14:43	67-64-1	L1,N2
Benzene	ND ug/L		1.0	1		04/07/14 14:43	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/07/14 14:43	75-27-4	
Bromoform	ND ug/L		1.0	1		04/07/14 14:43	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/07/14 14:43	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/07/14 14:43	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		04/07/14 14:43	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/07/14 14:43	75-00-3	
Chloroform	ND ug/L		1.0	1		04/07/14 14:43	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/07/14 14:43	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/07/14 14:43	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/07/14 14:43	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/07/14 14:43	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/07/14 14:43	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/07/14 14:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/07/14 14:43	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/07/14 14:43	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/07/14 14:43	127-18-4	
Toluene	ND ug/L		1.0	1		04/07/14 14:43	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/07/14 14:43	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/07/14 14:43	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/07/14 14:43	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/07/14 14:43	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/07/14 14:43	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	95 %		80-120	1		04/07/14 14:43	460-00-4	
Toluene-d8 (S)	99 %		80-120	1		04/07/14 14:43	2037-26-5	
1,2-Dichloroethane-d4 (S)	100 %		80-120	1		04/07/14 14:43	17060-07-0	
Preservation pH	6.0		1.0	1		04/07/14 14:43		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-260

Pace Project No.: 60166439

QC Batch: MERP/8284

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60166439001

METHOD BLANK: 1356429

Matrix: Water

Associated Lab Samples: 60166439001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/08/14 10:27	

LABORATORY CONTROL SAMPLE: 1356430

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.6	111	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1356431 1356432

Parameter	Units	60166324001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.8	4.4	95	87	70-130	9	20	

MATRIX SPIKE SAMPLE: 1356433

Parameter	Units	60166224002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	3.8	77	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-260

Pace Project No.: 60166439

QC Batch: MERP/8295

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60166439001

METHOD BLANK: 1358795

Matrix: Water

Associated Lab Samples: 60166439001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/11/14 15:20	

LABORATORY CONTROL SAMPLE: 1358796

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.7	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1358797 1358798

Parameter	Units	60166481001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	119	118	79	79	70-130	1	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-260
Pace Project No.: 60166439

QC Batch: MPRP/26757 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60166439001

METHOD BLANK: 1356774 Matrix: Water
Associated Lab Samples: 60166439001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/09/14 16:07	
Antimony	ug/L	ND	10.0	04/09/14 16:07	
Arsenic	ug/L	ND	10.0	04/09/14 16:07	
Beryllium	ug/L	ND	1.0	04/09/14 16:07	
Cadmium	ug/L	ND	5.0	04/09/14 16:07	
Chromium	ug/L	ND	5.0	04/09/14 16:07	
Cobalt	ug/L	ND	5.0	04/09/14 16:07	
Copper	ug/L	ND	10.0	04/09/14 16:07	
Iron	ug/L	ND	50.0	04/09/14 16:07	
Lead	ug/L	ND	5.0	04/09/14 16:07	
Nickel	ug/L	ND	5.0	04/09/14 16:07	
Selenium	ug/L	ND	15.0	04/09/14 16:07	
Silver	ug/L	ND	7.0	04/09/14 16:07	
Thallium	ug/L	ND	20.0	04/09/14 16:07	
Zinc	ug/L	ND	50.0	04/09/14 16:07	

LABORATORY CONTROL SAMPLE: 1356775

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9850	99	85-115	
Antimony	ug/L	1000	1090	109	85-115	
Arsenic	ug/L	1000	1020	102	85-115	
Beryllium	ug/L	1000	994	99	85-115	
Cadmium	ug/L	1000	1030	103	85-115	
Chromium	ug/L	1000	949	95	85-115	
Cobalt	ug/L	1000	1030	103	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	9720	97	85-115	
Lead	ug/L	1000	1010	101	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1060	106	85-115	
Silver	ug/L	500	493	99	85-115	
Thallium	ug/L	1000	1030	103	85-115	
Zinc	ug/L	1000	947	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1356776 1356777

Parameter	Units	60166218001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	ND	50000	50000	49300	51400	97	101	70-130	4	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-260

Pace Project No.: 60166439

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1356776 1356777													
Parameter	Units	60166218001		MS	MSD	MS	MSD	MS	MSD	% Rec Limits	Max		Qual
		Result	Conc.	Spike	Spike						Result	Result	
Antimony	ug/L	ND	5000	5000	5580	5820	111	115	70-130	4	7		
Arsenic	ug/L	1020	5000	5000	6560	6760	111	115	70-130	3	10		
Beryllium	ug/L	ND	5000	5000	4710	4830	94	97	70-130	3	7		
Cadmium	ug/L	ND	5000	5000	5440	5660	109	113	70-130	4	10		
Chromium	ug/L	184	5000	5000	4830	5040	93	97	70-130	4	10		
Cobalt	ug/L	27.6	5000	5000	4940	5140	98	102	70-130	4	6		
Copper	ug/L	ND	5000	5000	5500	5730	110	115	70-130	4	11		
Iron	ug/L	452000	50000	50000	428000	427000	-49	-50	70-130	0	10	M1	
Lead	ug/L	35.4	5000	5000	4610	4790	91	95	70-130	4	10		
Nickel	ug/L	101	5000	5000	4870	5000	95	98	70-130	3	10		
Selenium	ug/L	75.0	5000	5000	6320	6440	125	127	70-130	2	10		
Silver	ug/L	ND	2500	2500	2670	2760	107	110	70-130	3	10		
Thallium	ug/L	ND	5000	5000	4470	4710	89	94	70-130	5	6		
Zinc	ug/L	3140	5000	5000	7060	7180	78	81	70-130	2	11		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-260
Pace Project No.: 60166439

QC Batch:	MPRP/26792	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60166439001		

METHOD BLANK: 1358631 Matrix: Water
Associated Lab Samples: 60166439001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/11/14 11:15	
Antimony, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Arsenic, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Beryllium, Dissolved	ug/L	ND	1.0	04/11/14 11:15	
Cadmium, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Chromium, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Cobalt, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Copper, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Iron, Dissolved	ug/L	ND	50.0	04/11/14 11:15	
Lead, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Nickel, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Selenium, Dissolved	ug/L	ND	15.0	04/11/14 11:15	
Silver, Dissolved	ug/L	ND	7.0	04/11/14 11:15	
Thallium, Dissolved	ug/L	ND	20.0	04/11/14 11:15	
Zinc, Dissolved	ug/L	ND	50.0	04/11/14 11:15	

LABORATORY CONTROL SAMPLE: 1358632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9940	99	85-115	
Antimony, Dissolved	ug/L	1000	1050	105	85-115	
Arsenic, Dissolved	ug/L	1000	979	98	85-115	
Beryllium, Dissolved	ug/L	1000	1030	103	85-115	
Cadmium, Dissolved	ug/L	1000	994	99	85-115	
Chromium, Dissolved	ug/L	1000	971	97	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	10000	100	85-115	
Lead, Dissolved	ug/L	1000	1010	101	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1030	103	85-115	
Silver, Dissolved	ug/L	500	497	99	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	973	97	85-115	

MATRIX SPIKE SAMPLE: 1358633

Parameter	Units	60166517001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	ND	10000	9990	100	70-130	
Antimony, Dissolved	ug/L	ND	1000	1120	112	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-260

Pace Project No.: 60166439

MATRIX SPIKE SAMPLE:		1358633					
Parameter	Units	60166517001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	ND	1000	1050	105	70-130	
Beryllium, Dissolved	ug/L	ND	1000	1010	101	70-130	
Cadmium, Dissolved	ug/L	ND	1000	1030	103	70-130	
Chromium, Dissolved	ug/L	ND	1000	952	95	70-130	
Cobalt, Dissolved	ug/L	ND	1000	1010	101	70-130	
Copper, Dissolved	ug/L	ND	1000	1060	106	70-130	
Iron, Dissolved	ug/L	ND	10000	9690	97	70-130	
Lead, Dissolved	ug/L	ND	1000	972	97	70-130	
Nickel, Dissolved	ug/L	ND	1000	1010	101	70-130	
Selenium, Dissolved	ug/L	ND	1000	1090	109	70-130	
Silver, Dissolved	ug/L	ND	500	516	103	70-130	
Thallium, Dissolved	ug/L	ND	1000	964	96	70-130	
Zinc, Dissolved	ug/L	ND	1000	934	93	70-130	

MATRIX SPIKE SAMPLE:		1358634					
Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	1010	50000	50900	100	70-130	
Antimony, Dissolved	ug/L	ND	5000	6390	126	70-130	
Arsenic, Dissolved	ug/L	798	5000	6320	110	70-130	
Beryllium, Dissolved	ug/L	ND	5000	4890	98	70-130	
Cadmium, Dissolved	ug/L	ND	5000	5290	106	70-130	
Chromium, Dissolved	ug/L	154	5000	4870	94	70-130	
Cobalt, Dissolved	ug/L	27.1	5000	4960	99	70-130	
Copper, Dissolved	ug/L	ND	5000	5560	111	70-130	
Iron, Dissolved	ug/L	355000	50000	402000	96	70-130	
Lead, Dissolved	ug/L	40.6	5000	4630	92	70-130	
Nickel, Dissolved	ug/L	80.0	5000	4990	98	70-130	
Selenium, Dissolved	ug/L	ND	5000	6300	125	70-130	
Silver, Dissolved	ug/L	ND	2500	2720	108	70-130	
Thallium, Dissolved	ug/L	ND	5000	4430	89	70-130	
Zinc, Dissolved	ug/L	3550	5000	9280	115	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-260

Pace Project No.: 60166439

QC Batch: MSV/60626 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60166439001, 60166439002

METHOD BLANK: 1356447 Matrix: Water

Associated Lab Samples: 60166439001, 60166439002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/07/14 10:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/07/14 10:47	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/07/14 10:47	
1,2-Dichloroethane	ug/L	ND	1.0	04/07/14 10:47	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/07/14 10:47	
2-Butanone (MEK)	ug/L	ND	10.0	04/07/14 10:47	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/07/14 10:47	N2
Acetone	ug/L	ND	10.0	04/07/14 10:47	N2
Benzene	ug/L	ND	1.0	04/07/14 10:47	
Bromodichloromethane	ug/L	ND	1.0	04/07/14 10:47	
Bromoform	ug/L	ND	1.0	04/07/14 10:47	
Bromomethane	ug/L	ND	5.0	04/07/14 10:47	
Carbon tetrachloride	ug/L	ND	1.0	04/07/14 10:47	
Chloroethane	ug/L	ND	1.0	04/07/14 10:47	
Chloroform	ug/L	ND	1.0	04/07/14 10:47	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/07/14 10:47	N2
Ethylbenzene	ug/L	ND	1.0	04/07/14 10:47	
Methylene chloride	ug/L	ND	1.0	04/07/14 10:47	
Tetrachloroethene	ug/L	ND	1.0	04/07/14 10:47	
Toluene	ug/L	ND	1.0	04/07/14 10:47	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/07/14 10:47	
Trichloroethene	ug/L	ND	1.0	04/07/14 10:47	
Vinyl chloride	ug/L	ND	1.0	04/07/14 10:47	
Xylene (Total)	ug/L	ND	3.0	04/07/14 10:47	N2
1,2-Dichloroethane-d4 (S)	%	99	80-120	04/07/14 10:47	
4-Bromofluorobenzene (S)	%	94	80-120	04/07/14 10:47	
Toluene-d8 (S)	%	104	80-120	04/07/14 10:47	

LABORATORY CONTROL SAMPLE: 1356448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.2	91	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	18.9	94	67-127	N2
1,1,2-Trichloroethane	ug/L	20	18.9	94	67-124	
1,2-Dichloroethane	ug/L	20	19.4	97	70-126	
1,4-Dichlorobenzene	ug/L	20	18.1	90	74-120	
2-Butanone (MEK)	ug/L	100	118	118	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	97.2	97	59-131	N2
Acetone	ug/L	100	156	156	38-134	L0,N2
Benzene	ug/L	20	18.3	91	75-120	
Bromodichloromethane	ug/L	20	19.5	97	68-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-260

Pace Project No.: 60166439

LABORATORY CONTROL SAMPLE: 1356448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.5	102	65-127	
Bromomethane	ug/L	20	18.9	94	13-157	
Carbon tetrachloride	ug/L	20	19.7	99	70-131	
Chloroethane	ug/L	20	19.6	98	47-133	
Chloroform	ug/L	20	18.3	92	65-127	
cis-1,2-Dichloroethene	ug/L	20	18.8	94	68-127	N2
Ethylbenzene	ug/L	20	19.3	97	74-122	
Methylene chloride	ug/L	20	16.2	81	64-129	
Tetrachloroethene	ug/L	20	18.9	95	73-125	
Toluene	ug/L	20	18.4	92	69-126	
trans-1,2-Dichloroethene	ug/L	20	19.3	97	66-129	
Trichloroethene	ug/L	20	18.8	94	71-123	
Vinyl chloride	ug/L	20	20.6	103	43-129	
Xylene (Total)	ug/L	60	57.5	96	75-121	N2
1,2-Dichloroethane-d4 (S)	%			95	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			96	80-120	

MATRIX SPIKE SAMPLE: 1356449

Parameter	Units	60166218001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	10000	14800	148	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	10000	11100	111	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	10000	13000	130	52-143	
1,2-Dichloroethane	ug/L	ND	10000	13800	138	49-144	
1,4-Dichlorobenzene	ug/L	675	10000	10900	102	33-140	
2-Butanone (MEK)	ug/L	146000	50000	215000	138	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50000	76700	145	40-160	N2
Acetone	ug/L	334000	50000	411000	155	10-160	N2
Benzene	ug/L	ND	10000	13700	136	37-151	
Bromodichloromethane	ug/L	ND	10000	14400	144	35-142	M1
Bromoform	ug/L	ND	10000	13100	131	45-142	
Bromomethane	ug/L	ND	10000	13900	139	10-158	
Carbon tetrachloride	ug/L	ND	10000	16000	160	70-140	M1
Chloroethane	ug/L	ND	10000	14500	145	19-152	
Chloroform	ug/L	ND	10000	14000	140	51-138	M1
cis-1,2-Dichloroethene	ug/L	ND	10000	14200	142	34-147	N2
Ethylbenzene	ug/L	ND	10000	12500	124	40-142	
Methylene chloride	ug/L	760	10000	12900	121	31-144	
Tetrachloroethene	ug/L	ND	10000	13200	132	64-148	
Toluene	ug/L	ND	10000	13900	139	47-150	
trans-1,2-Dichloroethene	ug/L	ND	10000	14800	148	54-151	
Trichloroethene	ug/L	ND	10000	14400	144	71-149	
Vinyl chloride	ug/L	ND	10000	15700	157	22-146	M1
Xylene (Total)	ug/L	ND	30000	37700	126	37-144	N2
1,2-Dichloroethane-d4 (S)	%				133	80-120	S0
4-Bromofluorobenzene (S)	%				96	80-120	S2

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-260

Pace Project No.: 60166439

MATRIX SPIKE SAMPLE:		1356449					
Parameter	Units	60166218001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%					101	
Preservation pH		6.0		6.0		80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-260
Pace Project No.: 60166439

QC Batch:	OEXT/43578	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60166439001		

METHOD BLANK: 1357790 Matrix: Water
Associated Lab Samples: 60166439001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/11/14 09:14	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/11/14 09:14	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/11/14 09:14	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/11/14 09:14	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/11/14 09:14	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/11/14 09:14	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/11/14 09:14	
Hexachloroethane	ug/L	ND	5.0	04/11/14 09:14	
Naphthalene	ug/L	ND	5.0	04/11/14 09:14	
Nitrobenzene	ug/L	ND	5.0	04/11/14 09:14	
Pentachlorophenol	ug/L	ND	5.0	04/11/14 09:14	
Phenol	ug/L	ND	5.0	04/11/14 09:14	
2,4,6-Tribromophenol (S)	%	86	39-120	04/11/14 09:14	
2-Fluorobiphenyl (S)	%	87	39-120	04/11/14 09:14	
2-Fluorophenol (S)	%	43	17-120	04/11/14 09:14	
Nitrobenzene-d5 (S)	%	83	33-120	04/11/14 09:14	
Phenol-d6 (S)	%	29	11-120	04/11/14 09:14	
Terphenyl-d14 (S)	%	91	45-120	04/11/14 09:14	

LABORATORY CONTROL SAMPLE: 1357791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	40.0	80	46-120	
2,4,6-Trichlorophenol	ug/L	50	41.0	82	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	36.2	72	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	33.0	66	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	48.2	96	40-133	
Hexachloro-1,3-butadiene	ug/L	50	40.7	81	44-116	
Hexachlorocyclopentadiene	ug/L	100	77.4	77	24-120	
Hexachloroethane	ug/L	50	41.0	82	43-113	
Naphthalene	ug/L	50	39.2	78	48-120	
Nitrobenzene	ug/L	50	40.7	81	48-120	
Pentachlorophenol	ug/L	50	40.4	81	47-120	
Phenol	ug/L	50	18.5	37	16-112	
2,4,6-Tribromophenol (S)	%			91	39-120	
2-Fluorobiphenyl (S)	%			84	39-120	
2-Fluorophenol (S)	%			48	17-120	
Nitrobenzene-d5 (S)	%			80	33-120	
Phenol-d6 (S)	%			32	11-120	
Terphenyl-d14 (S)	%			90	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-260

Pace Project No.: 60166439

MATRIX SPIKE SAMPLE:		1357792					
Parameter	Units	60166436001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3820	76	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4470	89	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	4800	96	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	10100	5000	13000	56	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4990J	100	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3850	77	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	8300	83	11-120	
Hexachloroethane	ug/L	ND	5000	4170	83	40-113	
Naphthalene	ug/L	5380	5000	9330	79	45-120	
Nitrobenzene	ug/L	ND	5000	4300	86	38-120	
Pentachlorophenol	ug/L	ND	5000	5220	104	43-135	
Phenol	ug/L	13100	5000	13800	14	13-112	
2,4,6-Tribromophenol (S)	%				98	39-120	
2-Fluorobiphenyl (S)	%				88	39-120	
2-Fluorophenol (S)	%				51	17-120	
Nitrobenzene-d5 (S)	%				163	33-120	S0
Phenol-d6 (S)	%				37	11-120	
Terphenyl-d14 (S)	%				87	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-260

Pace Project No.: 60166439

QC Batch: WET/47228

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60166439001

METHOD BLANK: 1357785

Matrix: Water

Associated Lab Samples: 60166439001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/10/14 06:47	

LABORATORY CONTROL SAMPLE: 1357786

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: 1357787

Parameter	Units	60166608001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	43	45.3	103	78-114	

SAMPLE DUPLICATE: 1357789

Parameter	Units	60166481001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1390	1350	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-260

Pace Project No.: 60166439

QC Batch: WET/47263

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60166439001

METHOD BLANK: 1358903

Matrix: Water

Associated Lab Samples: 60166439001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	04/11/14 10:13	

LABORATORY CONTROL SAMPLE: 1358904

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: 1358906

Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	13.3	83.3	71.2	69	64-132	

SAMPLE DUPLICATE: 1358905

Parameter	Units	60166218001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	7.7	9.2	18	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-260

Pace Project No.: 60166439

QC Batch: WET/47183

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60166439001

METHOD BLANK: 1356708

Matrix: Water

Associated Lab Samples: 60166439001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/08/14 12:21	

SAMPLE DUPLICATE: 1356709

Parameter	Units	60166481001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3240	3300	2	10	

SAMPLE DUPLICATE: 1356710

Parameter	Units	60166190003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2400	2460	2	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-260

Pace Project No.: 60166439

QC Batch: WET/47169

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Associated Lab Samples: 60166439001

SAMPLE DUPLICATE: 1356543

Parameter	Units	60166218001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.6	5.6	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-260

Pace Project No.: 60166439

QC Batch: WET/47135

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60166439001

METHOD BLANK: 1356120

Matrix: Water

Associated Lab Samples: 60166439001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/10/14 14:09	

LABORATORY CONTROL SAMPLE: 1356121

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	193	98	85-115	

SAMPLE DUPLICATE: 1356122

Parameter	Units	60166436001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	41600	33100	23	17	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-260

Pace Project No.: 60166439

QC Batch: WETA/28972

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60166439001

METHOD BLANK: 1357981

Matrix: Water

Associated Lab Samples: 60166439001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/10/14 12:03	

LABORATORY CONTROL SAMPLE: 1357982

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

MATRIX SPIKE SAMPLE: 1357983

Parameter	Units	60166333001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.7	86	90-110	M1

MATRIX SPIKE SAMPLE: 1357984

Parameter	Units	60166341003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.1	105	90-110	

SAMPLE DUPLICATE: 1357985

Parameter	Units	60166481001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	559	576	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-260

Pace Project No.: 60166439

QC Batch:	WETA/29003	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60166439001		

METHOD BLANK: 1360047 Matrix: Water
Associated Lab Samples: 60166439001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	04/14/14 10:26	

LABORATORY CONTROL SAMPLE: 1360048

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	52.0	104	90-110	

MATRIX SPIKE SAMPLE: 1360049

Parameter	Units	60166122001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	12.9	50	59.4	93	90-110	

MATRIX SPIKE SAMPLE: 1360051

Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50700	25000	69300	74	90-110	M1

SAMPLE DUPLICATE: 1360050

Parameter	Units	60166284001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	566	550	3	25	

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QUALIFIERS

Project: BRIDGETON LF 316-260

Pace Project No.: 60166439

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- | | |
|----|---|
| D3 | Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference. |
| D6 | The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits. |
| D9 | Dissolved result is greater than the total. Data is within laboratory control limits. |
| H6 | Analysis initiated outside of the 15 minute EPA recommended holding time. |
| 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. |
| 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. |
| S2 | Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis). |

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-260

Pace Project No.: 60166439

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60166439001	316-260	EPA 200.7	MPRP/26757	EPA 200.7	ICP/20331
60166439001	316-260	EPA 200.7	MPRP/26792	EPA 200.7	ICP/20356
60166439001	316-260	EPA 245.1	MERP/8284	EPA 245.1	MERC/8240
60166439001	316-260	EPA 245.1	MERP/8295	EPA 245.1	MERC/8251
60166439001	316-260	EPA 625	OEXT/43578	EPA 625	MSSV/13910
60166439001	316-260	EPA 624 Low	MSV/60626		
60166439002	TRIP BLANK	EPA 624 Low	MSV/60626		
60166439001	316-260	EPA 1664A	WET/47228		
60166439001	316-260	EPA 1664A	WET/47263		
60166439001	316-260	SM 2540D	WET/47183		
60166439001	316-260	SM 4500-H+B	WET/47169		
60166439001	316-260	SM 5210B	WET/47135	SM 5210B	WET/47249
60166439001	316-260	EPA 350.1	WETA/28972		
60166439001	316-260	EPA 410.4	WETA/29003		

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Sample Condition Upon Receipt

WO#: 60166439

60166439

Client Name: Barr Eng.Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☒ XRoadsTracking #: _____ 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 ☒ ZPLThermometer Used: T-239 / T-194Type of Ice: Wet Blue ☐ None ☐ Samples received on ice, cooling process has begun.
(circle one)Cooler Temperature: 3-8Date and initials of person examining contents: 4/5/14 BA

Temperature should be above freezing to 6°C

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

Client Notification/ Resolution:

Copy COC to Client? Y ☐ N ☒Field Data Required? Y ☐ N ☒

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

April 14, 2014

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

RE: Project: BRIDGETON LF 96-SW3R22
Pace Project No.: 60166442

Dear Ed Galbraith:

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

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.
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 96-SW3R22

Pace Project No.: 60166442

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 96-SW3R22

Pace Project No.: 60166442

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60166442001	96-SW3R22	Water	04/04/14 07:36	04/05/14 01:35
60166442002	TRIP BLANK	Water	04/04/14 07:36	04/05/14 01:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 96-SW3R22

Pace Project No.: 60166442

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60166442001	96-SW3R22	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
		EPA 624 Low	EAK	28
60166442002	TRIP BLANK			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 96-SW3R22

Pace Project No.: 60166442

Sample: 96-SW3R22		Lab ID: 60166442001	Collected: 04/04/14 07:36	Received: 04/05/14 01:35	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	582 ug/L		75.0	1	04/08/14 12:45	04/09/14 17:42	7429-90-5	
Antimony	ND ug/L		10.0	1	04/08/14 12:45	04/09/14 17:42	7440-36-0	
Arsenic	49.7 ug/L		10.0	1	04/08/14 12:45	04/09/14 17:42	7440-38-2	
Beryllium	ND ug/L		1.0	1	04/08/14 12:45	04/09/14 17:42	7440-41-7	
Cadmium	ND ug/L		5.0	1	04/08/14 12:45	04/09/14 17:42	7440-43-9	
Chromium	11.9 ug/L		5.0	1	04/08/14 12:45	04/09/14 17:42	7440-47-3	
Cobalt	12.6 ug/L		5.0	1	04/08/14 12:45	04/09/14 17:42	7440-48-4	
Copper	11.9 ug/L		10.0	1	04/08/14 12:45	04/09/14 17:42	7440-50-8	
Iron	31400 ug/L		50.0	1	04/08/14 12:45	04/09/14 17:42	7439-89-6	
Lead	ND ug/L		5.0	1	04/08/14 12:45	04/09/14 17:42	7439-92-1	
Nickel	18.1 ug/L		5.0	1	04/08/14 12:45	04/09/14 17:42	7440-02-0	
Selenium	ND ug/L		15.0	1	04/08/14 12:45	04/09/14 17:42	7782-49-2	
Silver	ND ug/L		7.0	1	04/08/14 12:45	04/09/14 17:42	7440-22-4	
Thallium	ND ug/L		20.0	1	04/08/14 12:45	04/09/14 17:42	7440-28-0	
Zinc	305 ug/L		50.0	1	04/08/14 12:45	04/09/14 17:42	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	ND ug/L		75.0	1	04/10/14 18:40	04/11/14 12:03	7429-90-5	
Antimony, Dissolved	ND ug/L		10.0	1	04/10/14 18:40	04/11/14 12:03	7440-36-0	
Arsenic, Dissolved	41.0 ug/L		10.0	1	04/10/14 18:40	04/11/14 12:03	7440-38-2	
Beryllium, Dissolved	ND ug/L		1.0	1	04/10/14 18:40	04/11/14 12:03	7440-41-7	
Cadmium, Dissolved	ND ug/L		5.0	1	04/10/14 18:40	04/11/14 12:03	7440-43-9	
Chromium, Dissolved	7.9 ug/L		5.0	1	04/10/14 18:40	04/11/14 12:03	7440-47-3	
Cobalt, Dissolved	10.5 ug/L		5.0	1	04/10/14 18:40	04/11/14 12:03	7440-48-4	
Copper, Dissolved	23.8 ug/L		10.0	1	04/10/14 18:40	04/11/14 12:03	7440-50-8	D9
Iron, Dissolved	4660 ug/L		50.0	1	04/10/14 18:40	04/11/14 12:03	7439-89-6	
Lead, Dissolved	ND ug/L		5.0	1	04/10/14 18:40	04/11/14 12:03	7439-92-1	
Nickel, Dissolved	16.1 ug/L		5.0	1	04/10/14 18:40	04/11/14 12:03	7440-02-0	
Selenium, Dissolved	ND ug/L		15.0	1	04/10/14 18:40	04/11/14 12:03	7782-49-2	
Silver, Dissolved	ND ug/L		7.0	1	04/10/14 18:40	04/11/14 12:03	7440-22-4	
Thallium, Dissolved	ND ug/L		20.0	1	04/10/14 18:40	04/11/14 12:03	7440-28-0	
Zinc, Dissolved	202 ug/L		50.0	1	04/10/14 18:40	04/11/14 12:03	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	2.8 ug/L		0.20	1	04/07/14 11:00	04/08/14 11:07	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	04/11/14 09:45	04/11/14 15:40	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		250	1	04/10/14 00:00	04/11/14 13:01	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		50.0	1	04/10/14 00:00	04/11/14 13:01	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		50.0	1	04/10/14 00:00	04/11/14 13:01	77-47-4	
Hexachloroethane	ND ug/L		50.0	1	04/10/14 00:00	04/11/14 13:01	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		100	1	04/10/14 00:00	04/11/14 13:01	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	ND ug/L		200	1	04/10/14 00:00	04/11/14 13:01		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 96-SW3R22

Pace Project No.: 60166442

Sample: 96-SW3R22		Lab ID: 60166442001	Collected: 04/04/14 07:36	Received: 04/05/14 01:35	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		50.0	1	04/10/14 00:00	04/11/14 13:01	91-20-3	
Nitrobenzene	ND ug/L		50.0	1	04/10/14 00:00	04/11/14 13:01	98-95-3	
Pentachlorophenol	ND ug/L		50.0	1	04/10/14 00:00	04/11/14 13:01	87-86-5	
Phenol	492 ug/L		50.0	1	04/10/14 00:00	04/11/14 13:01	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		50.0	1	04/10/14 00:00	04/11/14 13:01	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		50.0	1	04/10/14 00:00	04/11/14 13:01	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	96 %		33-120	1	04/10/14 00:00	04/11/14 13:01	4165-60-0	
2-Fluorobiphenyl (S)	78 %		39-120	1	04/10/14 00:00	04/11/14 13:01	321-60-8	
Terphenyl-d14 (S)	84 %		45-120	1	04/10/14 00:00	04/11/14 13:01	1718-51-0	
Phenol-d6 (S)	29 %		11-120	1	04/10/14 00:00	04/11/14 13:01	13127-88-3	
2-Fluorophenol (S)	41 %		17-120	1	04/10/14 00:00	04/11/14 13:01	367-12-4	
2,4,6-Tribromophenol (S)	93 %		39-120	1	04/10/14 00:00	04/11/14 13:01	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	14500 ug/L		1000	100		04/10/14 20:00	67-64-1	L1,N2
Benzene	71.1 ug/L		10.0	10		04/07/14 13:24	71-43-2	
Bromodichloromethane	ND ug/L		10.0	10		04/07/14 13:24	75-27-4	
Bromoform	ND ug/L		10.0	10		04/07/14 13:24	75-25-2	
Bromomethane	ND ug/L		50.0	10		04/07/14 13:24	74-83-9	
2-Butanone (MEK)	9940 ug/L		100	10		04/07/14 13:24	78-93-3	N2
Carbon tetrachloride	ND ug/L		10.0	10		04/07/14 13:24	56-23-5	
Chloroethane	ND ug/L		10.0	10		04/07/14 13:24	75-00-3	
Chloroform	ND ug/L		10.0	10		04/07/14 13:24	67-66-3	
1,4-Dichlorobenzene	33.5 ug/L		10.0	10		04/07/14 13:24	106-46-7	
1,2-Dichloroethane	ND ug/L		10.0	10		04/07/14 13:24	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		10.0	10		04/07/14 13:24	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		10.0	10		04/07/14 13:24	156-60-5	
Ethylbenzene	ND ug/L		10.0	10		04/07/14 13:24	100-41-4	
Methylene chloride	30.3 ug/L		10.0	10		04/07/14 13:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	438 ug/L		100	10		04/07/14 13:24	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		10.0	10		04/07/14 13:24	79-34-5	N2
Tetrachloroethene	ND ug/L		10.0	10		04/07/14 13:24	127-18-4	
Toluene	ND ug/L		10.0	10		04/07/14 13:24	108-88-3	
1,1,1-Trichloroethane	ND ug/L		10.0	10		04/07/14 13:24	71-55-6	
1,1,2-Trichloroethane	ND ug/L		10.0	10		04/07/14 13:24	79-00-5	
Trichloroethene	ND ug/L		10.0	10		04/07/14 13:24	79-01-6	
Vinyl chloride	ND ug/L		10.0	10		04/07/14 13:24	75-01-4	
Xylene (Total)	ND ug/L		30.0	10		04/07/14 13:24	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	97 %		80-120	10		04/07/14 13:24	460-00-4	
Toluene-d8 (S)	99 %		80-120	10		04/07/14 13:24	2037-26-5	
1,2-Dichloroethane-d4 (S)	119 %		80-120	10		04/07/14 13:24	17060-07-0	
Preservation pH	6.0		1.0	10		04/07/14 13:24		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	12.3 mg/L		5.0	1		04/10/14 06:50		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 96-SW3R22

Pace Project No.: 60166442

Sample: 96-SW3R22		Lab ID: 60166442001	Collected: 04/04/14 07:36	Received: 04/05/14 01:35	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		04/11/14 10:16		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	68.0	mg/L	5.0	1		04/08/14 12:22		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	7.0	Std. Units	0.10	1		04/07/14 16:20		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	1470	mg/L	2.0	1	04/05/14 10:22	04/10/14 14:18		1e
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	24.5	mg/L	1.0	10		04/10/14 12:43	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	2650	mg/L	500	50		04/14/14 10:32		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 96-SW3R22

Pace Project No.: 60166442

Sample: TRIP BLANK		Lab ID: 60166442002	Collected: 04/04/14 07:36	Received: 04/05/14 01:35	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		04/07/14 14:59	67-64-1	L1,N2
Benzene	ND ug/L		1.0	1		04/07/14 14:59	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/07/14 14:59	75-27-4	
Bromoform	ND ug/L		1.0	1		04/07/14 14:59	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/07/14 14:59	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/07/14 14:59	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		04/07/14 14:59	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/07/14 14:59	75-00-3	
Chloroform	ND ug/L		1.0	1		04/07/14 14:59	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/07/14 14:59	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/07/14 14:59	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/07/14 14:59	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/07/14 14:59	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/07/14 14:59	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/07/14 14:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/07/14 14:59	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/07/14 14:59	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/07/14 14:59	127-18-4	
Toluene	ND ug/L		1.0	1		04/07/14 14:59	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/07/14 14:59	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/07/14 14:59	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/07/14 14:59	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/07/14 14:59	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/07/14 14:59	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	96 %		80-120	1		04/07/14 14:59	460-00-4	
Toluene-d8 (S)	97 %		80-120	1		04/07/14 14:59	2037-26-5	
1,2-Dichloroethane-d4 (S)	99 %		80-120	1		04/07/14 14:59	17060-07-0	
Preservation pH	6.0		1.0	1		04/07/14 14:59		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW3R22

Pace Project No.: 60166442

QC Batch: MERP/8284

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60166442001

METHOD BLANK: 1356429

Matrix: Water

Associated Lab Samples: 60166442001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/08/14 10:27	

LABORATORY CONTROL SAMPLE: 1356430

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.6	111	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1356431 1356432

Parameter	Units	60166324001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.8	4.4	95	87	70-130	9	20	

MATRIX SPIKE SAMPLE: 1356433

Parameter	Units	60166224002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	3.8	77	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW3R22

Pace Project No.: 60166442

QC Batch: MERP/8295

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60166442001

METHOD BLANK: 1358795

Matrix: Water

Associated Lab Samples: 60166442001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/11/14 15:20	

LABORATORY CONTROL SAMPLE: 1358796

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.7	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1358797 1358798

Parameter	Units	60166481001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	119	118	79	79	70-130	1	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW3R22

Pace Project No.: 60166442

QC Batch: MPRP/26757

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Associated Lab Samples: 60166442001

METHOD BLANK: 1356774

Matrix: Water

Associated Lab Samples: 60166442001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/09/14 16:07	
Antimony	ug/L	ND	10.0	04/09/14 16:07	
Arsenic	ug/L	ND	10.0	04/09/14 16:07	
Beryllium	ug/L	ND	1.0	04/09/14 16:07	
Cadmium	ug/L	ND	5.0	04/09/14 16:07	
Chromium	ug/L	ND	5.0	04/09/14 16:07	
Cobalt	ug/L	ND	5.0	04/09/14 16:07	
Copper	ug/L	ND	10.0	04/09/14 16:07	
Iron	ug/L	ND	50.0	04/09/14 16:07	
Lead	ug/L	ND	5.0	04/09/14 16:07	
Nickel	ug/L	ND	5.0	04/09/14 16:07	
Selenium	ug/L	ND	15.0	04/09/14 16:07	
Silver	ug/L	ND	7.0	04/09/14 16:07	
Thallium	ug/L	ND	20.0	04/09/14 16:07	
Zinc	ug/L	ND	50.0	04/09/14 16:07	

LABORATORY CONTROL SAMPLE: 1356775

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9850	99	85-115	
Antimony	ug/L	1000	1090	109	85-115	
Arsenic	ug/L	1000	1020	102	85-115	
Beryllium	ug/L	1000	994	99	85-115	
Cadmium	ug/L	1000	1030	103	85-115	
Chromium	ug/L	1000	949	95	85-115	
Cobalt	ug/L	1000	1030	103	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	9720	97	85-115	
Lead	ug/L	1000	1010	101	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1060	106	85-115	
Silver	ug/L	500	493	99	85-115	
Thallium	ug/L	1000	1030	103	85-115	
Zinc	ug/L	1000	947	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1356776

1356777

Parameter	Units	60166218001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	ND	50000	50000	49300	51400	97	101	70-130	4	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW3R22

Pace Project No.: 60166442

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1356776 1356777													
Parameter	Units	60166218001		MS	MSD	MS	MSD	MS	MSD	% Rec Limits	Max		Qual
		Result	Conc.	Spike	Spike						Result	Result	
Antimony	ug/L	ND	5000	5000	5580	5820	111	115	70-130	4	7		
Arsenic	ug/L	1020	5000	5000	6560	6760	111	115	70-130	3	10		
Beryllium	ug/L	ND	5000	5000	4710	4830	94	97	70-130	3	7		
Cadmium	ug/L	ND	5000	5000	5440	5660	109	113	70-130	4	10		
Chromium	ug/L	184	5000	5000	4830	5040	93	97	70-130	4	10		
Cobalt	ug/L	27.6	5000	5000	4940	5140	98	102	70-130	4	6		
Copper	ug/L	ND	5000	5000	5500	5730	110	115	70-130	4	11		
Iron	ug/L	452000	50000	50000	428000	427000	-49	-50	70-130	0	10	M1	
Lead	ug/L	35.4	5000	5000	4610	4790	91	95	70-130	4	10		
Nickel	ug/L	101	5000	5000	4870	5000	95	98	70-130	3	10		
Selenium	ug/L	75.0	5000	5000	6320	6440	125	127	70-130	2	10		
Silver	ug/L	ND	2500	2500	2670	2760	107	110	70-130	3	10		
Thallium	ug/L	ND	5000	5000	4470	4710	89	94	70-130	5	6		
Zinc	ug/L	3140	5000	5000	7060	7180	78	81	70-130	2	11		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW3R22

Pace Project No.: 60166442

QC Batch: MPRP/26792

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60166442001

METHOD BLANK: 1358631

Matrix: Water

Associated Lab Samples: 60166442001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/11/14 11:15	
Antimony, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Arsenic, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Beryllium, Dissolved	ug/L	ND	1.0	04/11/14 11:15	
Cadmium, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Chromium, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Cobalt, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Copper, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Iron, Dissolved	ug/L	ND	50.0	04/11/14 11:15	
Lead, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Nickel, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Selenium, Dissolved	ug/L	ND	15.0	04/11/14 11:15	
Silver, Dissolved	ug/L	ND	7.0	04/11/14 11:15	
Thallium, Dissolved	ug/L	ND	20.0	04/11/14 11:15	
Zinc, Dissolved	ug/L	ND	50.0	04/11/14 11:15	

LABORATORY CONTROL SAMPLE: 1358632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9940	99	85-115	
Antimony, Dissolved	ug/L	1000	1050	105	85-115	
Arsenic, Dissolved	ug/L	1000	979	98	85-115	
Beryllium, Dissolved	ug/L	1000	1030	103	85-115	
Cadmium, Dissolved	ug/L	1000	994	99	85-115	
Chromium, Dissolved	ug/L	1000	971	97	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	10000	100	85-115	
Lead, Dissolved	ug/L	1000	1010	101	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1030	103	85-115	
Silver, Dissolved	ug/L	500	497	99	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	973	97	85-115	

MATRIX SPIKE SAMPLE: 1358633

Parameter	Units	60166517001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	ND	10000	9990	100	70-130	
Antimony, Dissolved	ug/L	ND	1000	1120	112	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW3R22

Pace Project No.: 60166442

MATRIX SPIKE SAMPLE:		1358633					
Parameter	Units	60166517001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	ND	1000	1050	105	70-130	
Beryllium, Dissolved	ug/L	ND	1000	1010	101	70-130	
Cadmium, Dissolved	ug/L	ND	1000	1030	103	70-130	
Chromium, Dissolved	ug/L	ND	1000	952	95	70-130	
Cobalt, Dissolved	ug/L	ND	1000	1010	101	70-130	
Copper, Dissolved	ug/L	ND	1000	1060	106	70-130	
Iron, Dissolved	ug/L	ND	10000	9690	97	70-130	
Lead, Dissolved	ug/L	ND	1000	972	97	70-130	
Nickel, Dissolved	ug/L	ND	1000	1010	101	70-130	
Selenium, Dissolved	ug/L	ND	1000	1090	109	70-130	
Silver, Dissolved	ug/L	ND	500	516	103	70-130	
Thallium, Dissolved	ug/L	ND	1000	964	96	70-130	
Zinc, Dissolved	ug/L	ND	1000	934	93	70-130	

MATRIX SPIKE SAMPLE:		1358634					
Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	1010	50000	50900	100	70-130	
Antimony, Dissolved	ug/L	ND	5000	6390	126	70-130	
Arsenic, Dissolved	ug/L	798	5000	6320	110	70-130	
Beryllium, Dissolved	ug/L	ND	5000	4890	98	70-130	
Cadmium, Dissolved	ug/L	ND	5000	5290	106	70-130	
Chromium, Dissolved	ug/L	154	5000	4870	94	70-130	
Cobalt, Dissolved	ug/L	27.1	5000	4960	99	70-130	
Copper, Dissolved	ug/L	ND	5000	5560	111	70-130	
Iron, Dissolved	ug/L	355000	50000	402000	96	70-130	
Lead, Dissolved	ug/L	40.6	5000	4630	92	70-130	
Nickel, Dissolved	ug/L	80.0	5000	4990	98	70-130	
Selenium, Dissolved	ug/L	ND	5000	6300	125	70-130	
Silver, Dissolved	ug/L	ND	2500	2720	108	70-130	
Thallium, Dissolved	ug/L	ND	5000	4430	89	70-130	
Zinc, Dissolved	ug/L	3550	5000	9280	115	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW3R22

Pace Project No.: 60166442

QC Batch: MSV/60626 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60166442001, 60166442002

METHOD BLANK: 1356447

Matrix: Water

Associated Lab Samples: 60166442001, 60166442002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/07/14 10:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/07/14 10:47	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/07/14 10:47	
1,2-Dichloroethane	ug/L	ND	1.0	04/07/14 10:47	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/07/14 10:47	
2-Butanone (MEK)	ug/L	ND	10.0	04/07/14 10:47	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/07/14 10:47	N2
Acetone	ug/L	ND	10.0	04/07/14 10:47	N2
Benzene	ug/L	ND	1.0	04/07/14 10:47	
Bromodichloromethane	ug/L	ND	1.0	04/07/14 10:47	
Bromoform	ug/L	ND	1.0	04/07/14 10:47	
Bromomethane	ug/L	ND	5.0	04/07/14 10:47	
Carbon tetrachloride	ug/L	ND	1.0	04/07/14 10:47	
Chloroethane	ug/L	ND	1.0	04/07/14 10:47	
Chloroform	ug/L	ND	1.0	04/07/14 10:47	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/07/14 10:47	N2
Ethylbenzene	ug/L	ND	1.0	04/07/14 10:47	
Methylene chloride	ug/L	ND	1.0	04/07/14 10:47	
Tetrachloroethene	ug/L	ND	1.0	04/07/14 10:47	
Toluene	ug/L	ND	1.0	04/07/14 10:47	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/07/14 10:47	
Trichloroethene	ug/L	ND	1.0	04/07/14 10:47	
Vinyl chloride	ug/L	ND	1.0	04/07/14 10:47	
Xylene (Total)	ug/L	ND	3.0	04/07/14 10:47	N2
1,2-Dichloroethane-d4 (S)	%	99	80-120	04/07/14 10:47	
4-Bromofluorobenzene (S)	%	94	80-120	04/07/14 10:47	
Toluene-d8 (S)	%	104	80-120	04/07/14 10:47	

LABORATORY CONTROL SAMPLE: 1356448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.2	91	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	18.9	94	67-127	N2
1,1,2-Trichloroethane	ug/L	20	18.9	94	67-124	
1,2-Dichloroethane	ug/L	20	19.4	97	70-126	
1,4-Dichlorobenzene	ug/L	20	18.1	90	74-120	
2-Butanone (MEK)	ug/L	100	118	118	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	97.2	97	59-131	N2
Acetone	ug/L	100	156	156	38-134	L0,N2
Benzene	ug/L	20	18.3	91	75-120	
Bromodichloromethane	ug/L	20	19.5	97	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW3R22

Pace Project No.: 60166442

LABORATORY CONTROL SAMPLE: 1356448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.5	102	65-127	
Bromomethane	ug/L	20	18.9	94	13-157	
Carbon tetrachloride	ug/L	20	19.7	99	70-131	
Chloroethane	ug/L	20	19.6	98	47-133	
Chloroform	ug/L	20	18.3	92	65-127	
cis-1,2-Dichloroethene	ug/L	20	18.8	94	68-127	N2
Ethylbenzene	ug/L	20	19.3	97	74-122	
Methylene chloride	ug/L	20	16.2	81	64-129	
Tetrachloroethene	ug/L	20	18.9	95	73-125	
Toluene	ug/L	20	18.4	92	69-126	
trans-1,2-Dichloroethene	ug/L	20	19.3	97	66-129	
Trichloroethene	ug/L	20	18.8	94	71-123	
Vinyl chloride	ug/L	20	20.6	103	43-129	
Xylene (Total)	ug/L	60	57.5	96	75-121	N2
1,2-Dichloroethane-d4 (S)	%			95	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			96	80-120	

MATRIX SPIKE SAMPLE: 1356449

Parameter	Units	60166218001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	10000	14800	148	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	10000	11100	111	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	10000	13000	130	52-143	
1,2-Dichloroethane	ug/L	ND	10000	13800	138	49-144	
1,4-Dichlorobenzene	ug/L	675	10000	10900	102	33-140	
2-Butanone (MEK)	ug/L	146000	50000	215000	138	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50000	76700	145	40-160	N2
Acetone	ug/L	334000	50000	411000	155	10-160	N2
Benzene	ug/L	ND	10000	13700	136	37-151	
Bromodichloromethane	ug/L	ND	10000	14400	144	35-142	M1
Bromoform	ug/L	ND	10000	13100	131	45-142	
Bromomethane	ug/L	ND	10000	13900	139	10-158	
Carbon tetrachloride	ug/L	ND	10000	16000	160	70-140	M1
Chloroethane	ug/L	ND	10000	14500	145	19-152	
Chloroform	ug/L	ND	10000	14000	140	51-138	M1
cis-1,2-Dichloroethene	ug/L	ND	10000	14200	142	34-147	N2
Ethylbenzene	ug/L	ND	10000	12500	124	40-142	
Methylene chloride	ug/L	760	10000	12900	121	31-144	
Tetrachloroethene	ug/L	ND	10000	13200	132	64-148	
Toluene	ug/L	ND	10000	13900	139	47-150	
trans-1,2-Dichloroethene	ug/L	ND	10000	14800	148	54-151	
Trichloroethene	ug/L	ND	10000	14400	144	71-149	
Vinyl chloride	ug/L	ND	10000	15700	157	22-146	M1
Xylene (Total)	ug/L	ND	30000	37700	126	37-144	N2
1,2-Dichloroethane-d4 (S)	%				133	80-120	S0
4-Bromofluorobenzene (S)	%				96	80-120	S2

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW3R22

Pace Project No.: 60166442

MATRIX SPIKE SAMPLE:		1356449					
Parameter	Units	60166218001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				101	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW3R22

Pace Project No.: 60166442

QC Batch:	MSV/60719	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60166442001		

METHOD BLANK: 1358312 Matrix: Water

Associated Lab Samples: 60166442001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acetone	ug/L	ND	10.0	04/10/14 19:28	N2
1,2-Dichloroethane-d4 (S)	%	96	80-120	04/10/14 19:28	
4-Bromofluorobenzene (S)	%	97	80-120	04/10/14 19:28	
Toluene-d8 (S)	%	89	80-120	04/10/14 19:28	

LABORATORY CONTROL SAMPLE: 1358313

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	100	147	147	38-134	L0,N2
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			97	80-120	
Toluene-d8 (S)	%			90	80-120	

MATRIX SPIKE SAMPLE: 1358314

Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	176000	50000	224000	97	10-160	N2
1,2-Dichloroethane-d4 (S)	%				114	80-120	
4-Bromofluorobenzene (S)	%				93	80-120	
Toluene-d8 (S)	%				91	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW3R22

Pace Project No.: 60166442

QC Batch: OEXT/43578

Analysis Method: EPA 625

QC Batch Method: EPA 625

Analysis Description: 625 MSS

Associated Lab Samples: 60166442001

METHOD BLANK: 1357790

Matrix: Water

Associated Lab Samples: 60166442001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/11/14 09:14	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/11/14 09:14	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/11/14 09:14	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/11/14 09:14	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/11/14 09:14	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/11/14 09:14	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/11/14 09:14	
Hexachloroethane	ug/L	ND	5.0	04/11/14 09:14	
Naphthalene	ug/L	ND	5.0	04/11/14 09:14	
Nitrobenzene	ug/L	ND	5.0	04/11/14 09:14	
Pentachlorophenol	ug/L	ND	5.0	04/11/14 09:14	
Phenol	ug/L	ND	5.0	04/11/14 09:14	
2,4,6-Tribromophenol (S)	%	86	39-120	04/11/14 09:14	
2-Fluorobiphenyl (S)	%	87	39-120	04/11/14 09:14	
2-Fluorophenol (S)	%	43	17-120	04/11/14 09:14	
Nitrobenzene-d5 (S)	%	83	33-120	04/11/14 09:14	
Phenol-d6 (S)	%	29	11-120	04/11/14 09:14	
Terphenyl-d14 (S)	%	91	45-120	04/11/14 09:14	

LABORATORY CONTROL SAMPLE: 1357791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	40.0	80	46-120	
2,4,6-Trichlorophenol	ug/L	50	41.0	82	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	36.2	72	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	33.0	66	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	48.2	96	40-133	
Hexachloro-1,3-butadiene	ug/L	50	40.7	81	44-116	
Hexachlorocyclopentadiene	ug/L	100	77.4	77	24-120	
Hexachloroethane	ug/L	50	41.0	82	43-113	
Naphthalene	ug/L	50	39.2	78	48-120	
Nitrobenzene	ug/L	50	40.7	81	48-120	
Pentachlorophenol	ug/L	50	40.4	81	47-120	
Phenol	ug/L	50	18.5	37	16-112	
2,4,6-Tribromophenol (S)	%			91	39-120	
2-Fluorobiphenyl (S)	%			84	39-120	
2-Fluorophenol (S)	%			48	17-120	
Nitrobenzene-d5 (S)	%			80	33-120	
Phenol-d6 (S)	%			32	11-120	
Terphenyl-d14 (S)	%			90	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW3R22

Pace Project No.: 60166442

MATRIX SPIKE SAMPLE:		1357792					
Parameter	Units	60166436001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3820	76	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4470	89	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	4800	96	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	10100	5000	13000	56	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4990J	100	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3850	77	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	8300	83	11-120	
Hexachloroethane	ug/L	ND	5000	4170	83	40-113	
Naphthalene	ug/L	5380	5000	9330	79	45-120	
Nitrobenzene	ug/L	ND	5000	4300	86	38-120	
Pentachlorophenol	ug/L	ND	5000	5220	104	43-135	
Phenol	ug/L	13100	5000	13800	14	13-112	
2,4,6-Tribromophenol (S)	%				98	39-120	
2-Fluorobiphenyl (S)	%				88	39-120	
2-Fluorophenol (S)	%				51	17-120	
Nitrobenzene-d5 (S)	%				163	33-120	SO
Phenol-d6 (S)	%				37	11-120	
Terphenyl-d14 (S)	%				87	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW3R22

Pace Project No.: 60166442

QC Batch: WET/47228

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60166442001

METHOD BLANK: 1357785

Matrix: Water

Associated Lab Samples: 60166442001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/10/14 06:47	

LABORATORY CONTROL SAMPLE: 1357786

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: 1357787

Parameter	Units	60166608001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	43	45.3	103	78-114	

SAMPLE DUPLICATE: 1357789

Parameter	Units	60166481001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1390	1350	3	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW3R22

Pace Project No.: 60166442

QC Batch: WET/47263

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60166442001

METHOD BLANK: 1358903

Matrix: Water

Associated Lab Samples: 60166442001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	04/11/14 10:13	

LABORATORY CONTROL SAMPLE: 1358904

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: 1358906

Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	13.3	83.3	71.2	69	64-132	

SAMPLE DUPLICATE: 1358905

Parameter	Units	60166218001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	7.7	9.2	18	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW3R22

Pace Project No.: 60166442

QC Batch: WET/47183

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60166442001

METHOD BLANK: 1356708

Matrix: Water

Associated Lab Samples: 60166442001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/08/14 12:21	

SAMPLE DUPLICATE: 1356709

Parameter	Units	60166481001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3240	3300	2	10	

SAMPLE DUPLICATE: 1356710

Parameter	Units	60166190003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2400	2460	2	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW3R22

Pace Project No.: 60166442

QC Batch: WET/47169 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60166442001

SAMPLE DUPLICATE: 1356543

Parameter	Units	60166218001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.6	5.6	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW3R22

Pace Project No.: 60166442

QC Batch: WET/47135

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60166442001

METHOD BLANK: 1356120

Matrix: Water

Associated Lab Samples: 60166442001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/10/14 14:09	

LABORATORY CONTROL SAMPLE: 1356121

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	193	98	85-115	

SAMPLE DUPLICATE: 1356122

Parameter	Units	60166436001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	41600	33100	23	17	D6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW3R22

Pace Project No.: 60166442

QC Batch: WETA/28972

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60166442001

METHOD BLANK: 1357981

Matrix: Water

Associated Lab Samples: 60166442001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/10/14 12:03	

LABORATORY CONTROL SAMPLE: 1357982

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

MATRIX SPIKE SAMPLE: 1357983

Parameter	Units	60166333001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.7	86	90-110	M1

MATRIX SPIKE SAMPLE: 1357984

Parameter	Units	60166341003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.1	105	90-110	

SAMPLE DUPLICATE: 1357985

Parameter	Units	60166481001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	559	576	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 96-SW3R22

Pace Project No.: 60166442

QC Batch:	WETA/29003	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60166442001		

METHOD BLANK: 1360047 Matrix: Water
Associated Lab Samples: 60166442001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	04/14/14 10:26	

LABORATORY CONTROL SAMPLE: 1360048

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	52.0	104	90-110	

MATRIX SPIKE SAMPLE: 1360049

Parameter	Units	60166122001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	12.9	50	59.4	93	90-110	

MATRIX SPIKE SAMPLE: 1360051

Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50700	25000	69300	74	90-110	M1

SAMPLE DUPLICATE: 1360050

Parameter	Units	60166284001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	566	550	3	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 96-SW3R22

Pace Project No.: 60166442

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	Oxygen usage is less than 2.0 for all dilutions set. The reported value is an estimated value.
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.
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.
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.
S2	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 96-SW3R22

Pace Project No.: 60166442

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60166442001	96-SW3R22	EPA 200.7	MPRP/26757	EPA 200.7	ICP/20331
60166442001	96-SW3R22	EPA 200.7	MPRP/26792	EPA 200.7	ICP/20356
60166442001	96-SW3R22	EPA 245.1	MERP/8284	EPA 245.1	MERC/8240
60166442001	96-SW3R22	EPA 245.1	MERP/8295	EPA 245.1	MERC/8251
60166442001	96-SW3R22	EPA 625	OEXT/43578	EPA 625	MSSV/13910
60166442001	96-SW3R22	EPA 624 Low	MSV/60626		
60166442001	96-SW3R22	EPA 624 Low	MSV/60719		
60166442002	TRIP BLANK	EPA 624 Low	MSV/60626		
60166442001	96-SW3R22	EPA 1664A	WET/47228		
60166442001	96-SW3R22	EPA 1664A	WET/47263		
60166442001	96-SW3R22	SM 2540D	WET/47183		
60166442001	96-SW3R22	SM 4500-H+B	WET/47169		
60166442001	96-SW3R22	SM 5210B	WET/47135	SM 5210B	WET/47249
60166442001	96-SW3R22	EPA 350.1	WETA/28972		
60166442001	96-SW3R22	EPA 410.4	WETA/29003		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60166442

60166442

Client Name: BarrCourier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☒ roadTracking #: _____ 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 ☒ 2PICThermometer Used: T-239 / T-194Type of Ice: Wet Blue ☐ None ☐ Samples received on ice, cooling process has begun.
(circle one)Cooler Temperature: 2-2Date and initials of person examining contents: pu 4/5/14

Temperature should be above freezing to 6°C

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

May 08, 2014

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

RE: Project: BRIDGETON LF 316-261
Pace Project No.: 60166481

Dear Ed Galbraith:

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

Amended report revised 05/08/14 for correction of qualifiers associated with dissolved Antimony and Zinc.

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 B. Pasi, Barr Engineering Co.
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-261

Pace Project No.: 60166481

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 316-261

Pace Project No.: 60166481

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60166481001	316-261	Water	04/05/14 16:15	04/07/14 13:20
60166481002	TRIP BLANK	Water	04/05/14 08:00	04/07/14 13:20

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-261

Pace Project No.: 60166481

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60166481001	316-261	EPA 200.7	NDJ	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	NDL	1
		SM 5210B	DJR	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
		EPA 624 Low	EAK	28
60166481002	TRIP BLANK			

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-261

Pace Project No.: 60166481

Sample: 316-261		Lab ID: 60166481001	Collected: 04/05/14 16:15	Received: 04/07/14 13:20	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	9160	ug/L	750	2	04/09/14 15:30	04/10/14 16:07	7429-90-5	
Antimony	ND	ug/L	50.0	1	04/09/14 15:30	04/10/14 16:00	7440-36-0	
Arsenic	950	ug/L	50.0	1	04/09/14 15:30	04/10/14 16:00	7440-38-2	
Beryllium	ND	ug/L	5.0	1	04/09/14 15:30	04/10/14 16:00	7440-41-7	
Cadmium	ND	ug/L	25.0	1	04/09/14 15:30	04/10/14 16:00	7440-43-9	
Chromium	193	ug/L	25.0	1	04/09/14 15:30	04/10/14 16:00	7440-47-3	
Cobalt	36.5	ug/L	25.0	1	04/09/14 15:30	04/10/14 16:00	7440-48-4	
Copper	ND	ug/L	50.0	1	04/09/14 15:30	04/10/14 16:00	7440-50-8	
Iron	648000	ug/L	250	1	04/09/14 15:30	04/10/14 16:00	7439-89-6	M1
Lead	88.3	ug/L	25.0	1	04/09/14 15:30	04/10/14 16:00	7439-92-1	
Nickel	98.6	ug/L	25.0	1	04/09/14 15:30	04/10/14 16:00	7440-02-0	
Selenium	ND	ug/L	75.0	1	04/09/14 15:30	04/10/14 16:00	7782-49-2	
Silver	ND	ug/L	35.0	1	04/09/14 15:30	04/10/14 16:00	7440-22-4	
Thallium	ND	ug/L	100	1	04/09/14 15:30	04/10/14 16:00	7440-28-0	
Zinc	4180	ug/L	500	2	04/09/14 15:30	04/10/14 16:07	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1010	ug/L	750	2	04/10/14 18:40	04/11/14 12:17	7429-90-5	
Antimony, Dissolved	ND	ug/L	100	2	04/10/14 18:40	04/11/14 12:17	7440-36-0	D3,R1
Arsenic, Dissolved	798	ug/L	50.0	1	04/10/14 18:40	04/11/14 12:13	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	04/10/14 18:40	04/11/14 12:13	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	04/10/14 18:40	04/11/14 12:13	7440-43-9	
Chromium, Dissolved	154	ug/L	25.0	1	04/10/14 18:40	04/11/14 12:13	7440-47-3	
Cobalt, Dissolved	27.1	ug/L	25.0	1	04/10/14 18:40	04/11/14 12:13	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	04/10/14 18:40	04/11/14 12:13	7440-50-8	
Iron, Dissolved	355000	ug/L	250	1	04/10/14 18:40	04/11/14 12:13	7439-89-6	
Lead, Dissolved	40.6	ug/L	25.0	1	04/10/14 18:40	04/11/14 12:13	7439-92-1	
Nickel, Dissolved	80.0	ug/L	25.0	1	04/10/14 18:40	04/11/14 12:13	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	04/10/14 18:40	04/11/14 12:13	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	04/10/14 18:40	04/11/14 12:13	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	04/10/14 18:40	04/11/14 12:13	7440-28-0	
Zinc, Dissolved	3550	ug/L	500	2	04/10/14 18:40	04/11/14 12:17	7440-66-6	R1
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	14.5	ug/L	6.0	1	04/11/14 09:45	04/11/14 14:42	7439-97-6	M1
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND	ug/L	6.0	1	04/11/14 09:45	04/11/14 00:00	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	04/11/14 00:00	04/14/14 10:27	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	04/11/14 00:00	04/14/14 10:27	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	04/11/14 00:00	04/14/14 10:27	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	04/11/14 00:00	04/14/14 10:27	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	2	04/11/14 00:00	04/14/14 10:27	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	7040	ug/L	4000	2	04/11/14 00:00	04/14/14 10:27		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-261

Pace Project No.: 60166481

Sample: 316-261		Lab ID: 60166481001	Collected: 04/05/14 16:15	Received: 04/07/14 13:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	3160 ug/L		1000	2	04/11/14 00:00	04/14/14 10:27	91-20-3	
Nitrobenzene	ND ug/L		1000	2	04/11/14 00:00	04/14/14 10:27	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	04/11/14 00:00	04/14/14 10:27	87-86-5	
Phenol	9480 ug/L		1000	2	04/11/14 00:00	04/14/14 10:27	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	04/11/14 00:00	04/14/14 10:27	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	04/11/14 00:00	04/14/14 10:27	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	160 %		33-120	2	04/11/14 00:00	04/14/14 10:27	4165-60-0	S0
2-Fluorobiphenyl (S)	85 %		39-120	2	04/11/14 00:00	04/14/14 10:27	321-60-8	
Terphenyl-d14 (S)	87 %		45-120	2	04/11/14 00:00	04/14/14 10:27	1718-51-0	
Phenol-d6 (S)	34 %		11-120	2	04/11/14 00:00	04/14/14 10:27	13127-88-3	
2-Fluorophenol (S)	47 %		17-120	2	04/11/14 00:00	04/14/14 10:27	367-12-4	
2,4,6-Tribromophenol (S)	94 %		39-120	2	04/11/14 00:00	04/14/14 10:27	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	176000 ug/L		5000	500		04/10/14 20:16	67-64-1	L1,N2
Benzene	ND ug/L		500	500		04/10/14 20:16	71-43-2	
Bromodichloromethane	ND ug/L		500	500		04/10/14 20:16	75-27-4	
Bromoform	ND ug/L		500	500		04/10/14 20:16	75-25-2	
Bromomethane	ND ug/L		2500	500		04/10/14 20:16	74-83-9	
2-Butanone (MEK)	70900 ug/L		5000	500		04/10/14 20:16	78-93-3	N2
Carbon tetrachloride	ND ug/L		500	500		04/10/14 20:16	56-23-5	
Chloroethane	ND ug/L		500	500		04/10/14 20:16	75-00-3	
Chloroform	ND ug/L		500	500		04/10/14 20:16	67-66-3	
1,4-Dichlorobenzene	754 ug/L		500	500		04/10/14 20:16	106-46-7	
1,2-Dichloroethane	ND ug/L		500	500		04/10/14 20:16	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		500	500		04/10/14 20:16	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		500	500		04/10/14 20:16	156-60-5	
Ethylbenzene	ND ug/L		500	500		04/10/14 20:16	100-41-4	
Methylene chloride	ND ug/L		500	500		04/10/14 20:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5000	500		04/10/14 20:16	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		500	500		04/10/14 20:16	79-34-5	N2
Tetrachloroethene	ND ug/L		500	500		04/10/14 20:16	127-18-4	
Toluene	ND ug/L		500	500		04/10/14 20:16	108-88-3	
1,1,1-Trichloroethane	ND ug/L		500	500		04/10/14 20:16	71-55-6	
1,1,2-Trichloroethane	ND ug/L		500	500		04/10/14 20:16	79-00-5	
Trichloroethene	ND ug/L		500	500		04/10/14 20:16	79-01-6	
Vinyl chloride	ND ug/L		500	500		04/10/14 20:16	75-01-4	
Xylene (Total)	ND ug/L		1500	500		04/10/14 20:16	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	95 %		80-120	500		04/10/14 20:16	460-00-4	
Toluene-d8 (S)	92 %		80-120	500		04/10/14 20:16	2037-26-5	
1,2-Dichloroethane-d4 (S)	115 %		80-120	500		04/10/14 20:16	17060-07-0	
Preservation pH	6.0		1.0	500		04/10/14 20:16		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1390 mg/L		5.0	1		04/10/14 06:50		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-261

Pace Project No.: 60166481

Sample: 316-261		Lab ID: 60166481001	Collected: 04/05/14 16:15	Received: 04/07/14 13:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	13.3	mg/L	5.0	1		04/11/14 10:16		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	3240	mg/L	5.0	1		04/08/14 12:22		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.3	Std. Units	0.10	1		04/09/14 15:10		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	24800	mg/L	2.0	1	04/07/14 16:00	04/12/14 09:03		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	559	mg/L	20.0	200		04/10/14 12:28	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	50700	mg/L	5000	500		04/14/14 10:32		M1

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-261

Pace Project No.: 60166481

Sample: TRIP BLANK		Lab ID: 60166481002	Collected: 04/05/14 08:00	Received: 04/07/14 13:20	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		04/09/14 17:37	67-64-1	L1,N2
Benzene	ND ug/L		1.0	1		04/09/14 17:37	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/09/14 17:37	75-27-4	
Bromoform	ND ug/L		1.0	1		04/09/14 17:37	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/09/14 17:37	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/09/14 17:37	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		04/09/14 17:37	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/09/14 17:37	75-00-3	
Chloroform	ND ug/L		1.0	1		04/09/14 17:37	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/09/14 17:37	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/09/14 17:37	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/09/14 17:37	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/09/14 17:37	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/09/14 17:37	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/09/14 17:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/09/14 17:37	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/09/14 17:37	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/09/14 17:37	127-18-4	
Toluene	ND ug/L		1.0	1		04/09/14 17:37	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/09/14 17:37	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/09/14 17:37	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/09/14 17:37	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/09/14 17:37	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/09/14 17:37	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	94 %		80-120	1		04/09/14 17:37	460-00-4	
Toluene-d8 (S)	90 %		80-120	1		04/09/14 17:37	2037-26-5	
1,2-Dichloroethane-d4 (S)	98 %		80-120	1		04/09/14 17:37	17060-07-0	
Preservation pH	6.0		1.0	1		04/09/14 17:37		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-261

Pace Project No.: 60166481

QC Batch: MERP/8296

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60166481001

METHOD BLANK: 1358877

Matrix: Water

Associated Lab Samples: 60166481001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/11/14 14:38	

LABORATORY CONTROL SAMPLE: 1358878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1358879 1358880

Parameter	Units	60166481001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	14.5	150	150	101	118	58	69	70-130	16	20	M1

MATRIX SPIKE SAMPLE: 1358881

Parameter	Units	60166482001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	17.1	150	116	66	70-130	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-261

Pace Project No.: 60166481

QC Batch:	MERP/8295	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60166481001		

METHOD BLANK: 1358795 Matrix: Water

Associated Lab Samples: 60166481001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/11/14 15:20	

LABORATORY CONTROL SAMPLE: 1358796

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.7	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1358797 1358798

Parameter	Units	60166481001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	119	118	79	79	70-130	1	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-261
Pace Project No.: 60166481

QC Batch:	MPRP/26774	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
Associated Lab Samples:	60166481001		

METHOD BLANK: 1357680 Matrix: Water
Associated Lab Samples: 60166481001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/10/14 15:48	
Antimony	ug/L	ND	10.0	04/10/14 15:48	
Arsenic	ug/L	ND	10.0	04/10/14 15:48	
Beryllium	ug/L	ND	1.0	04/10/14 15:48	
Cadmium	ug/L	ND	5.0	04/10/14 15:48	
Chromium	ug/L	ND	5.0	04/10/14 15:48	
Cobalt	ug/L	ND	5.0	04/10/14 15:48	
Copper	ug/L	ND	10.0	04/10/14 15:48	
Iron	ug/L	ND	50.0	04/10/14 15:48	
Lead	ug/L	ND	5.0	04/10/14 15:48	
Nickel	ug/L	ND	5.0	04/10/14 15:48	
Selenium	ug/L	ND	15.0	04/10/14 15:48	
Silver	ug/L	ND	7.0	04/10/14 15:48	
Thallium	ug/L	ND	20.0	04/10/14 15:48	
Zinc	ug/L	ND	50.0	04/10/14 15:48	

LABORATORY CONTROL SAMPLE: 1357681

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10000	100	85-115	
Antimony	ug/L	1000	1050	105	85-115	
Arsenic	ug/L	1000	1000	100	85-115	
Beryllium	ug/L	1000	1000	100	85-115	
Cadmium	ug/L	1000	1030	103	85-115	
Chromium	ug/L	1000	961	96	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	982	98	85-115	
Iron	ug/L	10000	10200	102	85-115	
Lead	ug/L	1000	1030	103	85-115	
Nickel	ug/L	1000	1050	105	85-115	
Selenium	ug/L	1000	1010	101	85-115	
Silver	ug/L	500	482	96	85-115	
Thallium	ug/L	1000	1060	106	85-115	
Zinc	ug/L	1000	986	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1357678 1357679

Parameter	Units	60166481001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	9160	50000	50000	66100	66700	114	115	70-130	1	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-261

Pace Project No.: 60166481

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1357678 1357679											
Parameter	Units	60166481001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Antimony	ug/L	ND	5000	5000	5530	5590	110	111	70-130	1	7
Arsenic	ug/L	950	5000	5000	6640	6740	114	116	70-130	1	10
Beryllium	ug/L	ND	5000	5000	4980	4980	100	100	70-130	0	7
Cadmium	ug/L	ND	5000	5000	5440	5500	109	110	70-130	1	10
Chromium	ug/L	193	5000	5000	5040	5070	97	98	70-130	1	10
Cobalt	ug/L	36.5	5000	5000	4940	4990	98	99	70-130	1	6
Copper	ug/L	ND	5000	5000	5330	5360	106	107	70-130	1	11
Iron	ug/L	648000	50000	50000	764000	734000	233	174	70-130	4	10 M1
Lead	ug/L	88.3	5000	5000	4830	4910	95	96	70-130	2	10
Nickel	ug/L	98.6	5000	5000	5020	5100	99	100	70-130	1	10
Selenium	ug/L	ND	5000	5000	6010	6060	120	121	70-130	1	10
Silver	ug/L	ND	2500	2500	2670	2660	107	106	70-130	0	10
Thallium	ug/L	ND	5000	5000	4600	4720	92	94	70-130	3	6
Zinc	ug/L	4180	5000	5000	9350	9130	103	99	70-130	2	11

SAMPLE DUPLICATE: 1359124

Parameter	Units	60166480001 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum	ug/L	637	522	20	20	
Antimony	ug/L	ND	ND		20	
Arsenic	ug/L	ND	6.7J		20	
Beryllium	ug/L	ND	ND		20	
Cadmium	ug/L	ND	ND		20	
Chromium	ug/L	ND	1.9J		20	
Cobalt	ug/L	ND	ND		20	
Copper	ug/L	ND	3.2J		20	
Iron	ug/L	782	754	4	20	
Lead	ug/L	ND	ND		20	
Nickel	ug/L	ND	3.3J		20	
Selenium	ug/L	ND	2.2J		20	
Silver	ug/L	ND	ND		20	
Thallium	ug/L	ND	ND		20	
Zinc	ug/L	ND	57.1		20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-261
Pace Project No.: 60166481

QC Batch:	MPRP/26792	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60166481001		

METHOD BLANK: 1358631 Matrix: Water
Associated Lab Samples: 60166481001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/11/14 11:15	
Antimony, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Arsenic, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Beryllium, Dissolved	ug/L	ND	1.0	04/11/14 11:15	
Cadmium, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Chromium, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Cobalt, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Copper, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Iron, Dissolved	ug/L	ND	50.0	04/11/14 11:15	
Lead, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Nickel, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Selenium, Dissolved	ug/L	ND	15.0	04/11/14 11:15	
Silver, Dissolved	ug/L	ND	7.0	04/11/14 11:15	
Thallium, Dissolved	ug/L	ND	20.0	04/11/14 11:15	
Zinc, Dissolved	ug/L	ND	50.0	04/11/14 11:15	

LABORATORY CONTROL SAMPLE: 1358632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9940	99	85-115	
Antimony, Dissolved	ug/L	1000	1050	105	85-115	
Arsenic, Dissolved	ug/L	1000	979	98	85-115	
Beryllium, Dissolved	ug/L	1000	1030	103	85-115	
Cadmium, Dissolved	ug/L	1000	994	99	85-115	
Chromium, Dissolved	ug/L	1000	971	97	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	10000	100	85-115	
Lead, Dissolved	ug/L	1000	1010	101	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1030	103	85-115	
Silver, Dissolved	ug/L	500	497	99	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	973	97	85-115	

MATRIX SPIKE SAMPLE: 1358633

Parameter	Units	60166517001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	ND	10000	9990	100	70-130	
Antimony, Dissolved	ug/L	ND	1000	1120	112	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-261

Pace Project No.: 60166481

MATRIX SPIKE SAMPLE: 1358633		60166517001	Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Limits	
Arsenic, Dissolved	ug/L	ND	1000	1050	105	70-130	
Beryllium, Dissolved	ug/L	ND	1000	1010	101	70-130	
Cadmium, Dissolved	ug/L	ND	1000	1030	103	70-130	
Chromium, Dissolved	ug/L	ND	1000	952	95	70-130	
Cobalt, Dissolved	ug/L	ND	1000	1010	101	70-130	
Copper, Dissolved	ug/L	ND	1000	1060	106	70-130	
Iron, Dissolved	ug/L	ND	10000	9690	97	70-130	
Lead, Dissolved	ug/L	ND	1000	972	97	70-130	
Nickel, Dissolved	ug/L	ND	1000	1010	101	70-130	
Selenium, Dissolved	ug/L	ND	1000	1090	109	70-130	
Silver, Dissolved	ug/L	ND	500	516	103	70-130	
Thallium, Dissolved	ug/L	ND	1000	964	96	70-130	
Zinc, Dissolved	ug/L	ND	1000	934	93	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1358634		1358635									
Parameter	Units	60166481001	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Aluminum, Dissolved	ug/L	1010	50000	50000	50900	51700	100	101	70-130	2	8
Antimony, Dissolved	ug/L	ND	5000	5000	6390	5590	126	110	70-130	13	7 R1
Arsenic, Dissolved	ug/L	798	5000	5000	6320	6340	110	111	70-130	0	10
Beryllium, Dissolved	ug/L	ND	5000	5000	4890	4910	98	98	70-130	0	7
Cadmium, Dissolved	ug/L	ND	5000	5000	5290	5300	106	106	70-130	0	10
Chromium, Dissolved	ug/L	154	5000	5000	4870	4910	94	95	70-130	1	10
Cobalt, Dissolved	ug/L	27.1	5000	5000	4960	4970	99	99	70-130	0	6
Copper, Dissolved	ug/L	ND	5000	5000	5560	5590	111	112	70-130	0	11
Iron, Dissolved	ug/L	355000	50000	50000	402000	404000	96	100	70-130	0	10
Lead, Dissolved	ug/L	40.6	5000	5000	4630	4650	92	92	70-130	0	10
Nickel, Dissolved	ug/L	80.0	5000	5000	4990	5000	98	98	70-130	0	10
Selenium, Dissolved	ug/L	ND	5000	5000	6300	6340	125	126	70-130	1	10
Silver, Dissolved	ug/L	ND	2500	2500	2720	2720	108	109	70-130	0	10
Thallium, Dissolved	ug/L	ND	5000	5000	4430	4460	89	89	70-130	1	6
Zinc, Dissolved	ug/L	3550	5000	5000	9280	8160	115	92	70-130	13	11 R1

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-261
Pace Project No.: 60166481

QC Batch:	MSV/60683	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60166481002		

METHOD BLANK: 1357477 Matrix: Water
Associated Lab Samples: 60166481002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/09/14 14:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/09/14 14:29	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/09/14 14:29	
1,2-Dichloroethane	ug/L	ND	1.0	04/09/14 14:29	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/09/14 14:29	
2-Butanone (MEK)	ug/L	ND	10.0	04/09/14 14:29	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/09/14 14:29	N2
Acetone	ug/L	ND	10.0	04/09/14 14:29	N2
Benzene	ug/L	ND	1.0	04/09/14 14:29	
Bromodichloromethane	ug/L	ND	1.0	04/09/14 14:29	
Bromoform	ug/L	ND	1.0	04/09/14 14:29	
Bromomethane	ug/L	ND	5.0	04/09/14 14:29	
Carbon tetrachloride	ug/L	ND	1.0	04/09/14 14:29	
Chloroethane	ug/L	ND	1.0	04/09/14 14:29	
Chloroform	ug/L	ND	1.0	04/09/14 14:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/09/14 14:29	N2
Ethylbenzene	ug/L	ND	1.0	04/09/14 14:29	
Methylene chloride	ug/L	ND	1.0	04/09/14 14:29	
Tetrachloroethene	ug/L	ND	1.0	04/09/14 14:29	
Toluene	ug/L	ND	1.0	04/09/14 14:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/09/14 14:29	
Trichloroethene	ug/L	ND	1.0	04/09/14 14:29	
Vinyl chloride	ug/L	ND	1.0	04/09/14 14:29	
Xylene (Total)	ug/L	ND	3.0	04/09/14 14:29	N2
1,2-Dichloroethane-d4 (S)	%	102	80-120	04/09/14 14:29	
4-Bromofluorobenzene (S)	%	103	80-120	04/09/14 14:29	
Toluene-d8 (S)	%	101	80-120	04/09/14 14:29	

LABORATORY CONTROL SAMPLE: 1357478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.5	98	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.2	101	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.1	95	67-124	
1,2-Dichloroethane	ug/L	20	19.5	97	70-126	
1,4-Dichlorobenzene	ug/L	20	18.6	93	74-120	
2-Butanone (MEK)	ug/L	100	142	142	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	59-131	N2
Acetone	ug/L	100	182	182	38-134	L0,N2
Benzene	ug/L	20	19.1	95	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 316-261

Pace Project No.: 60166481

LABORATORY CONTROL SAMPLE: 1357478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.0	100	65-127	
Bromomethane	ug/L	20	21.8	109	13-157	
Carbon tetrachloride	ug/L	20	19.5	98	70-131	
Chloroethane	ug/L	20	20.9	104	47-133	
Chloroform	ug/L	20	19.1	95	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.6	103	68-127	N2
Ethylbenzene	ug/L	20	18.8	94	74-122	
Methylene chloride	ug/L	20	20.0	100	64-129	
Tetrachloroethene	ug/L	20	19.1	96	73-125	
Toluene	ug/L	20	19.2	96	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.3	101	66-129	
Trichloroethene	ug/L	20	20.0	100	71-123	
Vinyl chloride	ug/L	20	23.2	116	43-129	
Xylene (Total)	ug/L	60	56.6	94	75-121	N2
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			107	80-120	
Toluene-d8 (S)	%			102	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-261
Pace Project No.: 60166481

QC Batch:	MSV/60719	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60166481001		

METHOD BLANK: 1358312 Matrix: Water
Associated Lab Samples: 60166481001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/10/14 19:28	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/10/14 19:28	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/10/14 19:28	
1,2-Dichloroethane	ug/L	ND	1.0	04/10/14 19:28	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/10/14 19:28	
2-Butanone (MEK)	ug/L	ND	10.0	04/10/14 19:28	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/10/14 19:28	N2
Acetone	ug/L	ND	10.0	04/10/14 19:28	N2
Benzene	ug/L	ND	1.0	04/10/14 19:28	
Bromodichloromethane	ug/L	ND	1.0	04/10/14 19:28	
Bromoform	ug/L	ND	1.0	04/10/14 19:28	
Bromomethane	ug/L	ND	5.0	04/10/14 19:28	
Carbon tetrachloride	ug/L	ND	1.0	04/10/14 19:28	
Chloroethane	ug/L	ND	1.0	04/10/14 19:28	
Chloroform	ug/L	ND	1.0	04/10/14 19:28	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/10/14 19:28	N2
Ethylbenzene	ug/L	ND	1.0	04/10/14 19:28	
Methylene chloride	ug/L	ND	1.0	04/10/14 19:28	
Tetrachloroethene	ug/L	ND	1.0	04/10/14 19:28	
Toluene	ug/L	ND	1.0	04/10/14 19:28	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/10/14 19:28	
Trichloroethene	ug/L	ND	1.0	04/10/14 19:28	
Vinyl chloride	ug/L	ND	1.0	04/10/14 19:28	
Xylene (Total)	ug/L	ND	3.0	04/10/14 19:28	N2
1,2-Dichloroethane-d4 (S)	%	96	80-120	04/10/14 19:28	
4-Bromofluorobenzene (S)	%	97	80-120	04/10/14 19:28	
Toluene-d8 (S)	%	89	80-120	04/10/14 19:28	

LABORATORY CONTROL SAMPLE: 1358313

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.7	88	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.6	103	67-127	N2
1,1,2-Trichloroethane	ug/L	20	22.7	114	67-124	
1,2-Dichloroethane	ug/L	20	17.8	89	70-126	
1,4-Dichlorobenzene	ug/L	20	19.9	100	74-120	
2-Butanone (MEK)	ug/L	100	119	119	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	91.0	91	59-131	N2
Acetone	ug/L	100	147	147	38-134	L0,N2
Benzene	ug/L	20	16.9	84	75-120	
Bromodichloromethane	ug/L	20	17.4	87	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-261

Pace Project No.: 60166481

LABORATORY CONTROL SAMPLE: 1358313

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.3	97	65-127	
Bromomethane	ug/L	20	12.5	62	13-157	
Carbon tetrachloride	ug/L	20	16.1	80	70-131	
Chloroethane	ug/L	20	17.2	86	47-133	
Chloroform	ug/L	20	17.6	88	65-127	
cis-1,2-Dichloroethene	ug/L	20	18.6	93	68-127	N2
Ethylbenzene	ug/L	20	20.9	104	74-122	
Methylene chloride	ug/L	20	18.4	92	64-129	
Tetrachloroethene	ug/L	20	21.7	108	73-125	
Toluene	ug/L	20	17.3	86	69-126	
trans-1,2-Dichloroethene	ug/L	20	18.5	92	66-129	
Trichloroethene	ug/L	20	18.9	95	71-123	
Vinyl chloride	ug/L	20	18.0	90	43-129	
Xylene (Total)	ug/L	60	62.3	104	75-121	N2
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			97	80-120	
Toluene-d8 (S)	%			90	80-120	

MATRIX SPIKE SAMPLE: 1358314

Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	10000	11500	115	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	10000	12200	122	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	10000	13800	138	52-143	
1,2-Dichloroethane	ug/L	ND	10000	11200	112	49-144	
1,4-Dichlorobenzene	ug/L	754	10000	11700	109	33-140	
2-Butanone (MEK)	ug/L	70900	50000	130000	118	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50000	56200	110	40-160	N2
Acetone	ug/L	176000	50000	224000	97	10-160	N2
Benzene	ug/L	ND	10000	11200	112	37-151	
Bromodichloromethane	ug/L	ND	10000	10900	109	35-142	
Bromoform	ug/L	ND	10000	12800	128	45-142	
Bromomethane	ug/L	ND	10000	7630	76	10-158	
Carbon tetrachloride	ug/L	ND	10000	11900	119	70-140	
Chloroethane	ug/L	ND	10000	11100	111	19-152	
Chloroform	ug/L	ND	10000	10700	107	51-138	
cis-1,2-Dichloroethene	ug/L	ND	10000	11900	119	34-147	N2
Ethylbenzene	ug/L	ND	10000	13000	130	40-142	
Methylene chloride	ug/L	ND	10000	11300	112	31-144	
Tetrachloroethene	ug/L	ND	10000	14000	140	64-148	
Toluene	ug/L	ND	10000	10800	108	47-150	
trans-1,2-Dichloroethene	ug/L	ND	10000	11800	118	54-151	
Trichloroethene	ug/L	ND	10000	11800	118	71-149	
Vinyl chloride	ug/L	ND	10000	12000	120	22-146	
Xylene (Total)	ug/L	ND	30000	38700	129	37-144	N2
1,2-Dichloroethane-d4 (S)	%				114	80-120	
4-Bromofluorobenzene (S)	%				93	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-261

Pace Project No.: 60166481

MATRIX SPIKE SAMPLE:		1358314					
Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%					91	80-120
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-261
Pace Project No.: 60166481

QC Batch:	OEXT/43599	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60166481001		

METHOD BLANK: 1358662 Matrix: Water
Associated Lab Samples: 60166481001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/14/14 09:25	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/14/14 09:25	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/14/14 09:25	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/14/14 09:25	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/14/14 09:25	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/14/14 09:25	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/14/14 09:25	
Hexachloroethane	ug/L	ND	5.0	04/14/14 09:25	
Naphthalene	ug/L	ND	5.0	04/14/14 09:25	
Nitrobenzene	ug/L	ND	5.0	04/14/14 09:25	
Pentachlorophenol	ug/L	ND	5.0	04/14/14 09:25	
Phenol	ug/L	ND	5.0	04/14/14 09:25	
2,4,6-Tribromophenol (S)	%	73	39-120	04/14/14 09:25	
2-Fluorobiphenyl (S)	%	63	39-120	04/14/14 09:25	
2-Fluorophenol (S)	%	35	17-120	04/14/14 09:25	
Nitrobenzene-d5 (S)	%	64	33-120	04/14/14 09:25	
Phenol-d6 (S)	%	23	11-120	04/14/14 09:25	
Terphenyl-d14 (S)	%	76	45-120	04/14/14 09:25	

LABORATORY CONTROL SAMPLE: 1358663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	38.3	77	46-120	
2,4,6-Trichlorophenol	ug/L	50	41.0	82	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	29.5	59	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	26.1	52	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	48.2	96	40-133	
Hexachloro-1,3-butadiene	ug/L	50	38.5	77	44-116	
Hexachlorocyclopentadiene	ug/L	100	68.8	69	24-120	
Hexachloroethane	ug/L	50	35.5	71	43-113	
Naphthalene	ug/L	50	38.2	76	48-120	
Nitrobenzene	ug/L	50	39.7	79	48-120	
Pentachlorophenol	ug/L	50	46.7	93	47-120	
Phenol	ug/L	50	14.2	28	16-112	
2,4,6-Tribromophenol (S)	%			93	39-120	
2-Fluorobiphenyl (S)	%			85	39-120	
2-Fluorophenol (S)	%			37	17-120	
Nitrobenzene-d5 (S)	%			81	33-120	
Phenol-d6 (S)	%			24	11-120	
Terphenyl-d14 (S)	%			94	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-261

Pace Project No.: 60166481

MATRIX SPIKE SAMPLE:		1358664					
Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3850	77	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4590	92	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	4030	81	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	7040	5000	10800	75	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4610J	92	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3800	76	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	8180	82	11-120	
Hexachloroethane	ug/L	ND	5000	3980	80	40-113	
Naphthalene	ug/L	3160	5000	7170	80	45-120	
Nitrobenzene	ug/L	ND	5000	4310	86	38-120	
Pentachlorophenol	ug/L	ND	5000	4660	93	43-135	
Phenol	ug/L	9480	5000	11500	40	13-112	
2,4,6-Tribromophenol (S)	%				90	39-120	
2-Fluorobiphenyl (S)	%				88	39-120	
2-Fluorophenol (S)	%				45	17-120	
Nitrobenzene-d5 (S)	%				160	33-120	S0
Phenol-d6 (S)	%				32	11-120	
Terphenyl-d14 (S)	%				86	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-261

Pace Project No.: 60166481

QC Batch:	WET/47228	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60166481001		

METHOD BLANK: 1357785 Matrix: Water

Associated Lab Samples: 60166481001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/10/14 06:47	

LABORATORY CONTROL SAMPLE: 1357786

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: 1357787

Parameter	Units	60166608001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	43	45.3	103	78-114	

SAMPLE DUPLICATE: 1357789

Parameter	Units	60166481001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1390	1350	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-261

Pace Project No.: 60166481

QC Batch: WET/47263

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60166481001

METHOD BLANK: 1358903

Matrix: Water

Associated Lab Samples: 60166481001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	04/11/14 10:13	

LABORATORY CONTROL SAMPLE: 1358904

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: 1358906

Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	13.3	83.3	71.2	69	64-132	

SAMPLE DUPLICATE: 1358905

Parameter	Units	60166218001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	7.7	9.2	18	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-261

Pace Project No.: 60166481

QC Batch: WET/47183

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60166481001

METHOD BLANK: 1356708

Matrix: Water

Associated Lab Samples: 60166481001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/08/14 12:21	

SAMPLE DUPLICATE: 1356709

Parameter	Units	60166481001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3240	3300	2	10	

SAMPLE DUPLICATE: 1356710

Parameter	Units	60166190003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2400	2460	2	10	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-261

Pace Project No.: 60166481

QC Batch: WET/47218 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60166481001

SAMPLE DUPLICATE: 1357727

Parameter	Units	60166481001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.3	5.4	1	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-261

Pace Project No.: 60166481

QC Batch: WET/47173

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60166481001

METHOD BLANK: 1356574

Matrix: Water

Associated Lab Samples: 60166481001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/12/14 08:59	

LABORATORY CONTROL SAMPLE: 1356575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	182	92	85-115	

SAMPLE DUPLICATE: 1356576

Parameter	Units	60166476001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	27.1	28.3	4	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-261

Pace Project No.: 60166481

QC Batch: WETA/28972

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60166481001

METHOD BLANK: 1357981

Matrix: Water

Associated Lab Samples: 60166481001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/10/14 12:03	

LABORATORY CONTROL SAMPLE: 1357982

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

MATRIX SPIKE SAMPLE: 1357983

Parameter	Units	60166333001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.7	86	90-110	M1

MATRIX SPIKE SAMPLE: 1357984

Parameter	Units	60166341003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.1	105	90-110	

SAMPLE DUPLICATE: 1357985

Parameter	Units	60166481001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	559	576	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-261

Pace Project No.: 60166481

QC Batch:	WETA/29003	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60166481001		

METHOD BLANK: 1360047 Matrix: Water
Associated Lab Samples: 60166481001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	04/14/14 10:26	

LABORATORY CONTROL SAMPLE: 1360048

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	52.0	104	90-110	

MATRIX SPIKE SAMPLE: 1360049

Parameter	Units	60166122001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	12.9	50	59.4	93	90-110	

MATRIX SPIKE SAMPLE: 1360051

Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50700	25000	69300	74	90-110	M1

SAMPLE DUPLICATE: 1360050

Parameter	Units	60166284001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	566	550	3	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-261
Pace Project No.: 60166481

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/60683

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

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

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.

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 316-261

Pace Project No.: 60166481

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60166481001	316-261	EPA 200.7	MPRP/26774	EPA 200.7	ICP/20344
60166481001	316-261	EPA 200.7	MPRP/26792	EPA 200.7	ICP/20356
60166481001	316-261	EPA 245.1	MERP/8296	EPA 245.1	MERC/8250
60166481001	316-261	EPA 245.1	MERP/8295	EPA 245.1	MERC/8251
60166481001	316-261	EPA 625	OEXT/43599	EPA 625	MSSV/13918
60166481001	316-261	EPA 624 Low	MSV/60719		
60166481002	TRIP BLANK	EPA 624 Low	MSV/60683		
60166481001	316-261	EPA 1664A	WET/47228		
60166481001	316-261	EPA 1664A	WET/47263		
60166481001	316-261	SM 2540D	WET/47183		
60166481001	316-261	SM 4500-H+B	WET/47218		
60166481001	316-261	SM 5210B	WET/47173	SM 5210B	WET/47292
60166481001	316-261	EPA 350.1	WETA/28972		
60166481001	316-261	EPA 410.4	WETA/29003		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60166481



Client Name: Barr Eng

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

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

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

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

Thermometer Used: T-239 / T-194

Type of Ice: Ice Blue ☐ None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 1.6

Temperature should be above freezing to 6°C

Date and initials of person examining contents: _____

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☒ Yes ☐ No ☐ N/A	6. <u>BoD</u>
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	9.
Pace containers used:	☒ Yes ☐ No ☐ N/A	10.
Containers intact:	☒ Yes ☐ No ☐ N/A	11.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	12.
Filtered volume received for dissolved tests?	☐ Yes ☐ No ☒ N/A	13.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	14.
Includes date/time/ID/analyses	Matrix: <u>water</u>	15.
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	16.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☒ No ☐ N/A	17.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☒ Yes ☐ No	Initial when completed <u>NA</u> Lot # of added preservative
Trip Blank present:	☒ Yes ☐ No ☐ N/A	18.
Pace Trip Blank lot # (if purchased):	<u>012714-3</u>	19.
Headspace in VOA vials (>6mm):	☐ Yes ☒ No ☐ N/A	20. <u>none detectable</u>
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ N/A	21. List State: <u>WA</u>

Client Notification/ Resolution:

Copy COC to Client? Y ☐ N ☒

Field Data Required? Y ☐ N ☒

Person Contacted: _____

Date/Time: 4/9/14

Comments/ Resolution: _____

Project Manager Review: [Signature]

Date: 4/9/14

April 14, 2014

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

RE: Project: BRIDGETON LF 316-262
Pace Project No.: 60166482

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 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.
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-262

Pace Project No.: 60166482

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 316-262

Pace Project No.: 60166482

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60166482001	316-262	Water	04/06/14 10:22	04/07/14 13:20
60166482002	TRIP BLANK	Water	04/06/14 08:00	04/07/14 13:20

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-262

Pace Project No.: 60166482

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60166482001	316-262	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	NDL	1
		SM 5210B	DJR	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
		EPA 624 Low	EAK	28
60166482002	TRIP BLANK			

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-262

Pace Project No.: 60166482

Sample: 316-262		Lab ID: 60166482001	Collected: 04/06/14 10:22	Received: 04/07/14 13:20	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	11500 ug/L		750	2	04/11/14 13:00	04/11/14 14:25	7429-90-5	
Antimony	ND ug/L		100	2	04/11/14 13:00	04/11/14 14:25	7440-36-0	D3
Arsenic	993 ug/L		50.0	1	04/11/14 13:00	04/11/14 14:22	7440-38-2	
Beryllium	ND ug/L		5.0	1	04/11/14 13:00	04/11/14 14:22	7440-41-7	
Cadmium	ND ug/L		25.0	1	04/11/14 13:00	04/11/14 14:22	7440-43-9	
Chromium	216 ug/L		25.0	1	04/11/14 13:00	04/11/14 14:22	7440-47-3	
Cobalt	43.0 ug/L		25.0	1	04/11/14 13:00	04/11/14 14:22	7440-48-4	
Copper	ND ug/L		50.0	1	04/11/14 13:00	04/11/14 14:22	7440-50-8	
Iron	613000 ug/L		250	1	04/11/14 13:00	04/11/14 14:22	7439-89-6	
Lead	103 ug/L		25.0	1	04/11/14 13:00	04/11/14 14:22	7439-92-1	
Nickel	113 ug/L		25.0	1	04/11/14 13:00	04/11/14 14:22	7440-02-0	
Selenium	79.0 ug/L		75.0	1	04/11/14 13:00	04/11/14 14:22	7782-49-2	
Silver	ND ug/L		35.0	1	04/11/14 13:00	04/11/14 14:22	7440-22-4	
Thallium	ND ug/L		100	1	04/11/14 13:00	04/11/14 14:22	7440-28-0	
Zinc	4800 ug/L		500	2	04/11/14 13:00	04/11/14 14:25	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1140 ug/L		750	2	04/10/14 18:40	04/11/14 12:44	7429-90-5	
Antimony, Dissolved	ND ug/L		100	2	04/10/14 18:40	04/11/14 12:44	7440-36-0	D3
Arsenic, Dissolved	780 ug/L		50.0	1	04/10/14 18:40	04/11/14 12:41	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	04/10/14 18:40	04/11/14 12:41	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	04/10/14 18:40	04/11/14 12:41	7440-43-9	
Chromium, Dissolved	155 ug/L		25.0	1	04/10/14 18:40	04/11/14 12:41	7440-47-3	
Cobalt, Dissolved	28.0 ug/L		25.0	1	04/10/14 18:40	04/11/14 12:41	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	04/10/14 18:40	04/11/14 12:41	7440-50-8	
Iron, Dissolved	357000 ug/L		250	1	04/10/14 18:40	04/11/14 12:41	7439-89-6	
Lead, Dissolved	44.2 ug/L		25.0	1	04/10/14 18:40	04/11/14 12:41	7439-92-1	
Nickel, Dissolved	76.4 ug/L		25.0	1	04/10/14 18:40	04/11/14 12:41	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	04/10/14 18:40	04/11/14 12:41	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	04/10/14 18:40	04/11/14 12:41	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	04/10/14 18:40	04/11/14 12:41	7440-28-0	
Zinc, Dissolved	4020 ug/L		500	2	04/10/14 18:40	04/11/14 12:44	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	17.1 ug/L		6.0	1	04/11/14 09:45	04/11/14 14:49	7439-97-6	M1
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		6.0	1	04/11/14 09:45	04/11/14 00:00	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	04/11/14 00:00	04/14/14 10:48	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	04/11/14 00:00	04/14/14 10:48	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	04/11/14 00:00	04/14/14 10:48	77-47-4	
Hexachloroethane	ND ug/L		1000	2	04/11/14 00:00	04/14/14 10:48	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	04/11/14 00:00	04/14/14 10:48	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	6410 ug/L		4000	2	04/11/14 00:00	04/14/14 10:48		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-262

Pace Project No.: 60166482

Sample: 316-262		Lab ID: 60166482001	Collected: 04/06/14 10:22	Received: 04/07/14 13:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	2610	ug/L	1000	2	04/11/14 00:00	04/14/14 10:48	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	04/11/14 00:00	04/14/14 10:48	98-95-3	
Pentachlorophenol	ND	ug/L	1000	2	04/11/14 00:00	04/14/14 10:48	87-86-5	
Phenol	8460	ug/L	1000	2	04/11/14 00:00	04/14/14 10:48	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	1000	2	04/11/14 00:00	04/14/14 10:48	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	1000	2	04/11/14 00:00	04/14/14 10:48	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	145	%	33-120	2	04/11/14 00:00	04/14/14 10:48	4165-60-0	S0
2-Fluorobiphenyl (S)	84	%	39-120	2	04/11/14 00:00	04/14/14 10:48	321-60-8	
Terphenyl-d14 (S)	87	%	45-120	2	04/11/14 00:00	04/14/14 10:48	1718-51-0	
Phenol-d6 (S)	30	%	11-120	2	04/11/14 00:00	04/14/14 10:48	13127-88-3	
2-Fluorophenol (S)	42	%	17-120	2	04/11/14 00:00	04/14/14 10:48	367-12-4	
2,4,6-Tribromophenol (S)	94	%	39-120	2	04/11/14 00:00	04/14/14 10:48	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	259000	ug/L	5000	500		04/10/14 20:47	67-64-1	L1,N2
Benzene	ND	ug/L	500	500		04/10/14 20:47	71-43-2	
Bromodichloromethane	ND	ug/L	500	500		04/10/14 20:47	75-27-4	
Bromoform	ND	ug/L	500	500		04/10/14 20:47	75-25-2	
Bromomethane	2770	ug/L	2500	500		04/10/14 20:47	74-83-9	
2-Butanone (MEK)	112000	ug/L	5000	500		04/10/14 20:47	78-93-3	N2
Carbon tetrachloride	ND	ug/L	500	500		04/10/14 20:47	56-23-5	
Chloroethane	ND	ug/L	500	500		04/10/14 20:47	75-00-3	
Chloroform	ND	ug/L	500	500		04/10/14 20:47	67-66-3	
1,4-Dichlorobenzene	861	ug/L	500	500		04/10/14 20:47	106-46-7	
1,2-Dichloroethane	ND	ug/L	500	500		04/10/14 20:47	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	500	500		04/10/14 20:47	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	500	500		04/10/14 20:47	156-60-5	
Ethylbenzene	ND	ug/L	500	500		04/10/14 20:47	100-41-4	
Methylene chloride	ND	ug/L	500	500		04/10/14 20:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5000	500		04/10/14 20:47	108-10-1	N2
1,1,1,2-Tetrachloroethane	ND	ug/L	500	500		04/10/14 20:47	79-34-5	N2
Tetrachloroethene	ND	ug/L	500	500		04/10/14 20:47	127-18-4	
Toluene	ND	ug/L	500	500		04/10/14 20:47	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	500	500		04/10/14 20:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	500	500		04/10/14 20:47	79-00-5	
Trichloroethene	ND	ug/L	500	500		04/10/14 20:47	79-01-6	
Vinyl chloride	ND	ug/L	500	500		04/10/14 20:47	75-01-4	
Xylene (Total)	ND	ug/L	1500	500		04/10/14 20:47	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	92	%	80-120	500		04/10/14 20:47	460-00-4	S2
Toluene-d8 (S)	97	%	80-120	500		04/10/14 20:47	2037-26-5	
1,2-Dichloroethane-d4 (S)	146	%	80-120	500		04/10/14 20:47	17060-07-0	S0
Preservation pH	6.0		1.0	500		04/10/14 20:47		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1170	mg/L	5.0	1		04/10/14 06:51		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-262

Pace Project No.: 60166482

Sample: 316-262		Lab ID: 60166482001	Collected: 04/06/14 10:22	Received: 04/07/14 13:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	9.2	mg/L	5.0	1		04/11/14 10:16		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	3800	mg/L	5.0	1		04/08/14 12:22		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.3	Std. Units	0.10	1		04/09/14 15:10		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	29200	mg/L	2.0	1	04/07/14 16:08	04/12/14 09:07		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	570	mg/L	20.0	200		04/10/14 12:30	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	52900	mg/L	5000	500		04/14/14 10:33		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-262

Pace Project No.: 60166482

Sample: TRIP BLANK		Lab ID: 60166482002	Collected: 04/06/14 08:00	Received: 04/07/14 13:20	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		04/09/14 17:53	67-64-1	L1,N2
Benzene	ND ug/L		1.0	1		04/09/14 17:53	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/09/14 17:53	75-27-4	
Bromoform	ND ug/L		1.0	1		04/09/14 17:53	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/09/14 17:53	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/09/14 17:53	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		04/09/14 17:53	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/09/14 17:53	75-00-3	
Chloroform	ND ug/L		1.0	1		04/09/14 17:53	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/09/14 17:53	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/09/14 17:53	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/09/14 17:53	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/09/14 17:53	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/09/14 17:53	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/09/14 17:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/09/14 17:53	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/09/14 17:53	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/09/14 17:53	127-18-4	
Toluene	ND ug/L		1.0	1		04/09/14 17:53	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/09/14 17:53	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/09/14 17:53	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/09/14 17:53	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/09/14 17:53	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/09/14 17:53	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	96 %		80-120	1		04/09/14 17:53	460-00-4	
Toluene-d8 (S)	91 %		80-120	1		04/09/14 17:53	2037-26-5	
1,2-Dichloroethane-d4 (S)	93 %		80-120	1		04/09/14 17:53	17060-07-0	
Preservation pH	6.0		1.0	1		04/09/14 17:53		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-262

Pace Project No.: 60166482

QC Batch: MERP/8296

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60166482001

METHOD BLANK: 1358877

Matrix: Water

Associated Lab Samples: 60166482001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/11/14 14:38	

LABORATORY CONTROL SAMPLE: 1358878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1358879 1358880

Parameter	Units	60166481001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	14.5	150	150	101	118	58	69	70-130	16	20	M1

MATRIX SPIKE SAMPLE: 1358881

Parameter	Units	60166482001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	17.1	150	116	66	70-130	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-262

Pace Project No.: 60166482

QC Batch: MERP/8295

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60166482001

METHOD BLANK: 1358795

Matrix: Water

Associated Lab Samples: 60166482001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/11/14 15:20	

LABORATORY CONTROL SAMPLE: 1358796

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.7	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1358797 1358798

Parameter	Units	60166481001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	119	118	79	79	70-130	1	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-262
Pace Project No.: 60166482

QC Batch:	MPRP/26793	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
Associated Lab Samples:	60166482001		

METHOD BLANK: 1358824 Matrix: Water
Associated Lab Samples: 60166482001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/11/14 14:15	
Antimony	ug/L	ND	10.0	04/11/14 14:15	
Arsenic	ug/L	ND	10.0	04/11/14 14:15	
Beryllium	ug/L	ND	1.0	04/11/14 14:15	
Cadmium	ug/L	ND	5.0	04/11/14 14:15	
Chromium	ug/L	ND	5.0	04/11/14 14:15	
Cobalt	ug/L	ND	5.0	04/11/14 14:15	
Copper	ug/L	ND	10.0	04/11/14 14:15	
Iron	ug/L	ND	50.0	04/11/14 14:15	
Lead	ug/L	ND	5.0	04/11/14 14:15	
Nickel	ug/L	ND	5.0	04/11/14 14:15	
Selenium	ug/L	ND	15.0	04/11/14 14:15	
Silver	ug/L	ND	7.0	04/11/14 14:15	
Thallium	ug/L	ND	20.0	04/11/14 14:15	
Zinc	ug/L	ND	50.0	04/11/14 14:15	

LABORATORY CONTROL SAMPLE: 1358825

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9920	99	85-115	
Antimony	ug/L	1000	1080	108	85-115	
Arsenic	ug/L	1000	983	98	85-115	
Beryllium	ug/L	1000	991	99	85-115	
Cadmium	ug/L	1000	985	98	85-115	
Chromium	ug/L	1000	939	94	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	9390	94	85-115	
Lead	ug/L	1000	991	99	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1040	104	85-115	
Silver	ug/L	500	488	98	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	922	92	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1358826 1358827

Parameter	Units	60166588002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	13100	50000	50000	69800	68600	114	111	70-130	2	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-262

Pace Project No.: 60166482

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1358826 1358827											
Parameter	Units	60166588002		MS	MSD	MS		MSD	% Rec	Max	
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	RPD
Antimony	ug/L	ND	5000	5000	5000	5680	5580	112	110	70-130	2
Arsenic	ug/L	1010	5000	5000	5000	6600	6580	112	111	70-130	0
Beryllium	ug/L	ND	5000	5000	5000	4680	4670	94	93	70-130	0
Cadmium	ug/L	ND	5000	5000	5000	5220	5200	104	104	70-130	0
Chromium	ug/L	230	5000	5000	5000	4770	4730	91	90	70-130	1
Cobalt	ug/L	44.9	5000	5000	5000	4830	4820	96	95	70-130	0
Copper	ug/L	ND	5000	5000	5000	5580	5530	111	110	70-130	1
Iron	ug/L	626000	50000	50000	50000	664000	666000	77	79	70-130	0
Lead	ug/L	104	5000	5000	5000	4450	4430	87	87	70-130	0
Nickel	ug/L	126	5000	5000	5000	4840	4860	94	95	70-130	0
Selenium	ug/L	90.0	5000	5000	5000	6420	6500	127	128	70-130	1
Silver	ug/L	ND	2500	2500	2500	2660	2650	106	106	70-130	1
Thallium	ug/L	ND	5000	5000	5000	4230	4200	85	84	70-130	1
Zinc	ug/L	5300	5000	5000	5000	9650	9580	87	86	70-130	1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-262
Pace Project No.: 60166482

QC Batch:	MPRP/26792	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60166482001		

METHOD BLANK: 1358631 Matrix: Water
Associated Lab Samples: 60166482001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/11/14 11:15	
Antimony, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Arsenic, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Beryllium, Dissolved	ug/L	ND	1.0	04/11/14 11:15	
Cadmium, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Chromium, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Cobalt, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Copper, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Iron, Dissolved	ug/L	ND	50.0	04/11/14 11:15	
Lead, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Nickel, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Selenium, Dissolved	ug/L	ND	15.0	04/11/14 11:15	
Silver, Dissolved	ug/L	ND	7.0	04/11/14 11:15	
Thallium, Dissolved	ug/L	ND	20.0	04/11/14 11:15	
Zinc, Dissolved	ug/L	ND	50.0	04/11/14 11:15	

LABORATORY CONTROL SAMPLE: 1358632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9940	99	85-115	
Antimony, Dissolved	ug/L	1000	1050	105	85-115	
Arsenic, Dissolved	ug/L	1000	979	98	85-115	
Beryllium, Dissolved	ug/L	1000	1030	103	85-115	
Cadmium, Dissolved	ug/L	1000	994	99	85-115	
Chromium, Dissolved	ug/L	1000	971	97	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	10000	100	85-115	
Lead, Dissolved	ug/L	1000	1010	101	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1030	103	85-115	
Silver, Dissolved	ug/L	500	497	99	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	973	97	85-115	

MATRIX SPIKE SAMPLE: 1358633

Parameter	Units	60166517001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	ND	10000	9990	100	70-130	
Antimony, Dissolved	ug/L	ND	1000	1120	112	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-262

Pace Project No.: 60166482

MATRIX SPIKE SAMPLE:		1358633					
Parameter	Units	60166517001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	ND	1000	1050	105	70-130	
Beryllium, Dissolved	ug/L	ND	1000	1010	101	70-130	
Cadmium, Dissolved	ug/L	ND	1000	1030	103	70-130	
Chromium, Dissolved	ug/L	ND	1000	952	95	70-130	
Cobalt, Dissolved	ug/L	ND	1000	1010	101	70-130	
Copper, Dissolved	ug/L	ND	1000	1060	106	70-130	
Iron, Dissolved	ug/L	ND	10000	9690	97	70-130	
Lead, Dissolved	ug/L	ND	1000	972	97	70-130	
Nickel, Dissolved	ug/L	ND	1000	1010	101	70-130	
Selenium, Dissolved	ug/L	ND	1000	1090	109	70-130	
Silver, Dissolved	ug/L	ND	500	516	103	70-130	
Thallium, Dissolved	ug/L	ND	1000	964	96	70-130	
Zinc, Dissolved	ug/L	ND	1000	934	93	70-130	

MATRIX SPIKE SAMPLE:		1358634					
Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	1010	50000	50900	100	70-130	
Antimony, Dissolved	ug/L	ND	5000	6390	126	70-130	
Arsenic, Dissolved	ug/L	798	5000	6320	110	70-130	
Beryllium, Dissolved	ug/L	ND	5000	4890	98	70-130	
Cadmium, Dissolved	ug/L	ND	5000	5290	106	70-130	
Chromium, Dissolved	ug/L	154	5000	4870	94	70-130	
Cobalt, Dissolved	ug/L	27.1	5000	4960	99	70-130	
Copper, Dissolved	ug/L	ND	5000	5560	111	70-130	
Iron, Dissolved	ug/L	355000	50000	402000	96	70-130	
Lead, Dissolved	ug/L	40.6	5000	4630	92	70-130	
Nickel, Dissolved	ug/L	80.0	5000	4990	98	70-130	
Selenium, Dissolved	ug/L	ND	5000	6300	125	70-130	
Silver, Dissolved	ug/L	ND	2500	2720	108	70-130	
Thallium, Dissolved	ug/L	ND	5000	4430	89	70-130	
Zinc, Dissolved	ug/L	3550	5000	9280	115	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-262

Pace Project No.: 60166482

QC Batch:	MSV/60683	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60166482002		

METHOD BLANK: 1357477 Matrix: Water

Associated Lab Samples: 60166482002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/09/14 14:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/09/14 14:29	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/09/14 14:29	
1,2-Dichloroethane	ug/L	ND	1.0	04/09/14 14:29	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/09/14 14:29	
2-Butanone (MEK)	ug/L	ND	10.0	04/09/14 14:29	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/09/14 14:29	N2
Acetone	ug/L	ND	10.0	04/09/14 14:29	N2
Benzene	ug/L	ND	1.0	04/09/14 14:29	
Bromodichloromethane	ug/L	ND	1.0	04/09/14 14:29	
Bromoform	ug/L	ND	1.0	04/09/14 14:29	
Bromomethane	ug/L	ND	5.0	04/09/14 14:29	
Carbon tetrachloride	ug/L	ND	1.0	04/09/14 14:29	
Chloroethane	ug/L	ND	1.0	04/09/14 14:29	
Chloroform	ug/L	ND	1.0	04/09/14 14:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/09/14 14:29	N2
Ethylbenzene	ug/L	ND	1.0	04/09/14 14:29	
Methylene chloride	ug/L	ND	1.0	04/09/14 14:29	
Tetrachloroethene	ug/L	ND	1.0	04/09/14 14:29	
Toluene	ug/L	ND	1.0	04/09/14 14:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/09/14 14:29	
Trichloroethene	ug/L	ND	1.0	04/09/14 14:29	
Vinyl chloride	ug/L	ND	1.0	04/09/14 14:29	
Xylene (Total)	ug/L	ND	3.0	04/09/14 14:29	N2
1,2-Dichloroethane-d4 (S)	%	102	80-120	04/09/14 14:29	
4-Bromofluorobenzene (S)	%	103	80-120	04/09/14 14:29	
Toluene-d8 (S)	%	101	80-120	04/09/14 14:29	

LABORATORY CONTROL SAMPLE: 1357478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.5	98	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.2	101	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.1	95	67-124	
1,2-Dichloroethane	ug/L	20	19.5	97	70-126	
1,4-Dichlorobenzene	ug/L	20	18.6	93	74-120	
2-Butanone (MEK)	ug/L	100	142	142	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	59-131	N2
Acetone	ug/L	100	182	182	38-134	L0,N2
Benzene	ug/L	20	19.1	95	75-120	
Bromodichloromethane	ug/L	20	20.0	100	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-262

Pace Project No.: 60166482

LABORATORY CONTROL SAMPLE: 1357478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.0	100	65-127	
Bromomethane	ug/L	20	21.8	109	13-157	
Carbon tetrachloride	ug/L	20	19.5	98	70-131	
Chloroethane	ug/L	20	20.9	104	47-133	
Chloroform	ug/L	20	19.1	95	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.6	103	68-127	N2
Ethylbenzene	ug/L	20	18.8	94	74-122	
Methylene chloride	ug/L	20	20.0	100	64-129	
Tetrachloroethene	ug/L	20	19.1	96	73-125	
Toluene	ug/L	20	19.2	96	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.3	101	66-129	
Trichloroethene	ug/L	20	20.0	100	71-123	
Vinyl chloride	ug/L	20	23.2	116	43-129	
Xylene (Total)	ug/L	60	56.6	94	75-121	N2
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			107	80-120	
Toluene-d8 (S)	%			102	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-262
Pace Project No.: 60166482

QC Batch:	MSV/60719	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60166482001		

METHOD BLANK: 1358312 Matrix: Water
Associated Lab Samples: 60166482001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/10/14 19:28	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/10/14 19:28	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/10/14 19:28	
1,2-Dichloroethane	ug/L	ND	1.0	04/10/14 19:28	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/10/14 19:28	
2-Butanone (MEK)	ug/L	ND	10.0	04/10/14 19:28	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/10/14 19:28	N2
Acetone	ug/L	ND	10.0	04/10/14 19:28	N2
Benzene	ug/L	ND	1.0	04/10/14 19:28	
Bromodichloromethane	ug/L	ND	1.0	04/10/14 19:28	
Bromoform	ug/L	ND	1.0	04/10/14 19:28	
Bromomethane	ug/L	ND	5.0	04/10/14 19:28	
Carbon tetrachloride	ug/L	ND	1.0	04/10/14 19:28	
Chloroethane	ug/L	ND	1.0	04/10/14 19:28	
Chloroform	ug/L	ND	1.0	04/10/14 19:28	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/10/14 19:28	N2
Ethylbenzene	ug/L	ND	1.0	04/10/14 19:28	
Methylene chloride	ug/L	ND	1.0	04/10/14 19:28	
Tetrachloroethene	ug/L	ND	1.0	04/10/14 19:28	
Toluene	ug/L	ND	1.0	04/10/14 19:28	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/10/14 19:28	
Trichloroethene	ug/L	ND	1.0	04/10/14 19:28	
Vinyl chloride	ug/L	ND	1.0	04/10/14 19:28	
Xylene (Total)	ug/L	ND	3.0	04/10/14 19:28	N2
1,2-Dichloroethane-d4 (S)	%	96	80-120	04/10/14 19:28	
4-Bromofluorobenzene (S)	%	97	80-120	04/10/14 19:28	
Toluene-d8 (S)	%	89	80-120	04/10/14 19:28	

LABORATORY CONTROL SAMPLE: 1358313

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.7	88	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.6	103	67-127	N2
1,1,2-Trichloroethane	ug/L	20	22.7	114	67-124	
1,2-Dichloroethane	ug/L	20	17.8	89	70-126	
1,4-Dichlorobenzene	ug/L	20	19.9	100	74-120	
2-Butanone (MEK)	ug/L	100	119	119	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	91.0	91	59-131	N2
Acetone	ug/L	100	147	147	38-134	L0,N2
Benzene	ug/L	20	16.9	84	75-120	
Bromodichloromethane	ug/L	20	17.4	87	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-262

Pace Project No.: 60166482

LABORATORY CONTROL SAMPLE: 1358313

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.3	97	65-127	
Bromomethane	ug/L	20	12.5	62	13-157	
Carbon tetrachloride	ug/L	20	16.1	80	70-131	
Chloroethane	ug/L	20	17.2	86	47-133	
Chloroform	ug/L	20	17.6	88	65-127	
cis-1,2-Dichloroethene	ug/L	20	18.6	93	68-127	N2
Ethylbenzene	ug/L	20	20.9	104	74-122	
Methylene chloride	ug/L	20	18.4	92	64-129	
Tetrachloroethene	ug/L	20	21.7	108	73-125	
Toluene	ug/L	20	17.3	86	69-126	
trans-1,2-Dichloroethene	ug/L	20	18.5	92	66-129	
Trichloroethene	ug/L	20	18.9	95	71-123	
Vinyl chloride	ug/L	20	18.0	90	43-129	
Xylene (Total)	ug/L	60	62.3	104	75-121	N2
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			97	80-120	
Toluene-d8 (S)	%			90	80-120	

MATRIX SPIKE SAMPLE: 1358314

Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	10000	11500	115	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	10000	12200	122	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	10000	13800	138	52-143	
1,2-Dichloroethane	ug/L	ND	10000	11200	112	49-144	
1,4-Dichlorobenzene	ug/L	754	10000	11700	109	33-140	
2-Butanone (MEK)	ug/L	70900	50000	130000	118	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50000	56200	110	40-160	N2
Acetone	ug/L	176000	50000	224000	97	10-160	N2
Benzene	ug/L	ND	10000	11200	112	37-151	
Bromodichloromethane	ug/L	ND	10000	10900	109	35-142	
Bromoform	ug/L	ND	10000	12800	128	45-142	
Bromomethane	ug/L	ND	10000	7630	76	10-158	
Carbon tetrachloride	ug/L	ND	10000	11900	119	70-140	
Chloroethane	ug/L	ND	10000	11100	111	19-152	
Chloroform	ug/L	ND	10000	10700	107	51-138	
cis-1,2-Dichloroethene	ug/L	ND	10000	11900	119	34-147	N2
Ethylbenzene	ug/L	ND	10000	13000	130	40-142	
Methylene chloride	ug/L	ND	10000	11300	112	31-144	
Tetrachloroethene	ug/L	ND	10000	14000	140	64-148	
Toluene	ug/L	ND	10000	10800	108	47-150	
trans-1,2-Dichloroethene	ug/L	ND	10000	11800	118	54-151	
Trichloroethene	ug/L	ND	10000	11800	118	71-149	
Vinyl chloride	ug/L	ND	10000	12000	120	22-146	
Xylene (Total)	ug/L	ND	30000	38700	129	37-144	N2
1,2-Dichloroethane-d4 (S)	%				114	80-120	
4-Bromofluorobenzene (S)	%				93	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-262

Pace Project No.: 60166482

MATRIX SPIKE SAMPLE:		1358314					
Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%					91	80-120
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-262
Pace Project No.: 60166482

QC Batch:	OEXT/43599	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60166482001		

METHOD BLANK: 1358662 Matrix: Water
Associated Lab Samples: 60166482001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/14/14 09:25	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/14/14 09:25	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/14/14 09:25	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/14/14 09:25	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/14/14 09:25	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/14/14 09:25	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/14/14 09:25	
Hexachloroethane	ug/L	ND	5.0	04/14/14 09:25	
Naphthalene	ug/L	ND	5.0	04/14/14 09:25	
Nitrobenzene	ug/L	ND	5.0	04/14/14 09:25	
Pentachlorophenol	ug/L	ND	5.0	04/14/14 09:25	
Phenol	ug/L	ND	5.0	04/14/14 09:25	
2,4,6-Tribromophenol (S)	%	73	39-120	04/14/14 09:25	
2-Fluorobiphenyl (S)	%	63	39-120	04/14/14 09:25	
2-Fluorophenol (S)	%	35	17-120	04/14/14 09:25	
Nitrobenzene-d5 (S)	%	64	33-120	04/14/14 09:25	
Phenol-d6 (S)	%	23	11-120	04/14/14 09:25	
Terphenyl-d14 (S)	%	76	45-120	04/14/14 09:25	

LABORATORY CONTROL SAMPLE: 1358663

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	38.3	77	46-120	
2,4,6-Trichlorophenol	ug/L	50	41.0	82	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	29.5	59	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	26.1	52	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	48.2	96	40-133	
Hexachloro-1,3-butadiene	ug/L	50	38.5	77	44-116	
Hexachlorocyclopentadiene	ug/L	100	68.8	69	24-120	
Hexachloroethane	ug/L	50	35.5	71	43-113	
Naphthalene	ug/L	50	38.2	76	48-120	
Nitrobenzene	ug/L	50	39.7	79	48-120	
Pentachlorophenol	ug/L	50	46.7	93	47-120	
Phenol	ug/L	50	14.2	28	16-112	
2,4,6-Tribromophenol (S)	%			93	39-120	
2-Fluorobiphenyl (S)	%			85	39-120	
2-Fluorophenol (S)	%			37	17-120	
Nitrobenzene-d5 (S)	%			81	33-120	
Phenol-d6 (S)	%			24	11-120	
Terphenyl-d14 (S)	%			94	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-262

Pace Project No.: 60166482

MATRIX SPIKE SAMPLE:		1358664					
Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3850	77	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4590	92	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	4030	81	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	7040	5000	10800	75	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4610J	92	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3800	76	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	8180	82	11-120	
Hexachloroethane	ug/L	ND	5000	3980	80	40-113	
Naphthalene	ug/L	3160	5000	7170	80	45-120	
Nitrobenzene	ug/L	ND	5000	4310	86	38-120	
Pentachlorophenol	ug/L	ND	5000	4660	93	43-135	
Phenol	ug/L	9480	5000	11500	40	13-112	
2,4,6-Tribromophenol (S)	%				90	39-120	
2-Fluorobiphenyl (S)	%				88	39-120	
2-Fluorophenol (S)	%				45	17-120	
Nitrobenzene-d5 (S)	%				160	33-120	SO
Phenol-d6 (S)	%				32	11-120	
Terphenyl-d14 (S)	%				86	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-262

Pace Project No.: 60166482

QC Batch:	WET/47228	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60166482001		

METHOD BLANK: 1357785 Matrix: Water

Associated Lab Samples: 60166482001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/10/14 06:47	

LABORATORY CONTROL SAMPLE: 1357786

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: 1357787

Parameter	Units	60166608001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	43	45.3	103	78-114	

SAMPLE DUPLICATE: 1357789

Parameter	Units	60166481001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1390	1350	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-262

Pace Project No.: 60166482

QC Batch: WET/47263

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60166482001

METHOD BLANK: 1358903

Matrix: Water

Associated Lab Samples: 60166482001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	04/11/14 10:13	

LABORATORY CONTROL SAMPLE: 1358904

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: 1358906

Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	13.3	83.3	71.2	69	64-132	

SAMPLE DUPLICATE: 1358905

Parameter	Units	60166218001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	7.7	9.2	18	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-262

Pace Project No.: 60166482

QC Batch: WET/47183

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60166482001

METHOD BLANK: 1356708

Matrix: Water

Associated Lab Samples: 60166482001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/08/14 12:21	

SAMPLE DUPLICATE: 1356709

Parameter	Units	60166481001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3240	3300	2	10	

SAMPLE DUPLICATE: 1356710

Parameter	Units	60166190003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2400	2460	2	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-262

Pace Project No.: 60166482

QC Batch:	WET/47218	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
Associated Lab Samples:	60166482001		

SAMPLE DUPLICATE: 1357727

Parameter	Units	60166481001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.3	5.4	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-262

Pace Project No.: 60166482

QC Batch: WET/47173

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60166482001

METHOD BLANK: 1356574

Matrix: Water

Associated Lab Samples: 60166482001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/12/14 08:59	

LABORATORY CONTROL SAMPLE: 1356575

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	182	92	85-115	

SAMPLE DUPLICATE: 1356576

Parameter	Units	60166476001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	27.1	28.3	4	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-262

Pace Project No.: 60166482

QC Batch: WETA/28972

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60166482001

METHOD BLANK: 1357981

Matrix: Water

Associated Lab Samples: 60166482001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/10/14 12:03	

LABORATORY CONTROL SAMPLE: 1357982

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

MATRIX SPIKE SAMPLE: 1357983

Parameter	Units	60166333001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.7	86	90-110	M1

MATRIX SPIKE SAMPLE: 1357984

Parameter	Units	60166341003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.1	105	90-110	

SAMPLE DUPLICATE: 1357985

Parameter	Units	60166481001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	559	576	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-262

Pace Project No.: 60166482

QC Batch:	WETA/29003	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60166482001		

METHOD BLANK: 1360047 Matrix: Water
Associated Lab Samples: 60166482001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	04/14/14 10:26	

LABORATORY CONTROL SAMPLE: 1360048

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	52.0	104	90-110	

MATRIX SPIKE SAMPLE: 1360049

Parameter	Units	60166122001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	12.9	50	59.4	93	90-110	

MATRIX SPIKE SAMPLE: 1360051

Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50700	25000	69300	74	90-110	M1

SAMPLE DUPLICATE: 1360050

Parameter	Units	60166284001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	566	550	3	25	

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QUALIFIERS

Project: BRIDGETON LF 316-262

Pace Project No.: 60166482

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/60683

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

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

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.

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.

S2 Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-262

Pace Project No.: 60166482

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60166482001	316-262	EPA 200.7	MPRP/26793	EPA 200.7	ICP/20359
60166482001	316-262	EPA 200.7	MPRP/26792	EPA 200.7	ICP/20356
60166482001	316-262	EPA 245.1	MERP/8296	EPA 245.1	MERC/8250
60166482001	316-262	EPA 245.1	MERP/8295	EPA 245.1	MERC/8251
60166482001	316-262	EPA 625	OEXT/43599	EPA 625	MSSV/13918
60166482001	316-262	EPA 624 Low	MSV/60719		
60166482002	TRIP BLANK	EPA 624 Low	MSV/60683		
60166482001	316-262	EPA 1664A	WET/47228		
60166482001	316-262	EPA 1664A	WET/47263		
60166482001	316-262	SM 2540D	WET/47183		
60166482001	316-262	SM 4500-H+B	WET/47218		
60166482001	316-262	SM 5210B	WET/47173	SM 5210B	WET/47292
60166482001	316-262	EPA 350.1	WETA/28972		
60166482001	316-262	EPA 410.4	WETA/29003		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60166482



60166482

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 ☐

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

Date and initials of person examining contents: _____

Temperature should be above freezing to 6°C

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☒ Yes ☐ No ☐ N/A	6. <u>BOD</u>
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	9.
Pace containers used:	☒ Yes ☐ No ☐ N/A	10.
Containers intact:	☒ Yes ☐ No ☐ N/A	11.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	12.
Filtered volume received for dissolved tests?	☐ Yes ☐ No ☒ N/A	13.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	14.
Includes date/time/ID/analyses	Matrix: <u>water</u>	15.
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	16. <u>BSPN + BPS unable to be preserved.</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☒ No ☐ N/A	17. Initial when completed <u>NA</u> Lot # of added preservative
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☒ Yes ☐ No	18. <u>none detectable</u>
Trip Blank present:	☒ Yes ☐ No ☐ N/A	19. List State: <u>MD</u>
Pace Trip Blank lot # (if purchased): <u>012714-3</u>		20. <u>none detectable</u>
Headspace in VOA vials (>6mm):	☐ Yes ☒ No ☐ N/A	21.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ N/A	22.

Client Notification/ Resolution:

Copy COC to Client? Y ☐ N ☒

Field Data Required? Y ☐ N ☒

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: MB

Date: 4/19/14

April 17, 2014

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

RE: Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60166483

Dear Ed Galbraith:

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

Amended report revised 04/17/14 to include Trip Blank analyses.

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.
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60166483

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.: 60166483

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60166483001	TCLP 4-5-14	Water	04/05/14 12:54	04/07/14 13:20
60166483002	TRIP BLANK	Water	04/05/14 08:00	04/07/14 13:20

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SAMPLE ANALYTE COUNT

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60166483

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60166483001	TCLP 4-5-14	EPA 8260	JKL	13
		EPA 5030B/8260	PRG	28
		EPA 1664A	JMC1	1
		SM 2540B	RAH	1
60166483002	TRIP BLANK	EPA 5030B/8260	PRG	28

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60166483

Sample: TCLP 4-5-14		Lab ID: 60166483001	Collected: 04/05/14 12:54	Received: 04/07/14 13:20	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; 04/09/14 00:00						
Benzene	888 ug/L		250	5		04/13/14 16:46	71-43-2	
2-Butanone (MEK)	53300 ug/L		5000	5		04/10/14 19:10	78-93-3	
Carbon tetrachloride	ND ug/L		250	5		04/13/14 16:46	56-23-5	
Chlorobenzene	ND ug/L		250	5		04/13/14 16:46	108-90-7	
Chloroform	ND ug/L		1000	5		04/13/14 16:46	67-66-3	
1,2-Dichloroethane	ND ug/L		250	5		04/13/14 16:46	107-06-2	
1,1-Dichloroethene	ND ug/L		250	5		04/13/14 16:46	75-35-4	
Tetrachloroethene	ND ug/L		250	5		04/13/14 16:46	127-18-4	
Trichloroethene	ND ug/L		250	5		04/13/14 16:46	79-01-6	
Vinyl chloride	ND ug/L		100	5		04/13/14 16:46	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	93 %		80-120	5		04/13/14 16:46	17060-07-0	
Toluene-d8 (S)	104 %		80-120	5		04/13/14 16:46	2037-26-5	
4-Bromofluorobenzene (S)	99 %		80-120	5		04/13/14 16:46	460-00-4	
8260 MSV		Analytical Method: EPA 5030B/8260						
Acetone	154000 ug/L		2500	250		04/11/14 14:21	67-64-1	L1
Benzene	1080 ug/L		250	250		04/11/14 14:21	71-43-2	
Bromodichloromethane	ND ug/L		250	250		04/11/14 14:21	75-27-4	
Bromoform	ND ug/L		250	250		04/11/14 14:21	75-25-2	
Bromomethane	ND ug/L		1250	250		04/11/14 14:21	74-83-9	
2-Butanone (MEK)	73700 ug/L		2500	250		04/11/14 14:21	78-93-3	
Carbon tetrachloride	ND ug/L		250	250		04/11/14 14:21	56-23-5	
Chloroethane	ND ug/L		250	250		04/11/14 14:21	75-00-3	
Chloroform	ND ug/L		250	250		04/11/14 14:21	67-66-3	
1,4-Dichlorobenzene	974 ug/L		250	250		04/11/14 14:21	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		04/11/14 14:21	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		04/11/14 14:21	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		250	250		04/11/14 14:21	156-60-5	
Ethylbenzene	295 ug/L		250	250		04/11/14 14:21	100-41-4	
Methylene chloride	ND ug/L		250	250		04/11/14 14:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		04/11/14 14:21	108-10-1	
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		04/11/14 14:21	79-34-5	
Tetrachloroethene	ND ug/L		250	250		04/11/14 14:21	127-18-4	
Toluene	314 ug/L		250	250		04/11/14 14:21	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		04/11/14 14:21	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		04/11/14 14:21	79-00-5	
Trichloroethene	ND ug/L		250	250		04/11/14 14:21	79-01-6	
Vinyl chloride	ND ug/L		250	250		04/11/14 14:21	75-01-4	
Xylene (Total)	1050 ug/L		750	250		04/11/14 14:21	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	102 %		80-120	250		04/11/14 14:21	460-00-4	
1,2-Dichloroethane-d4 (S)	101 %		80-120	250		04/11/14 14:21	17060-07-0	
Toluene-d8 (S)	108 %		80-120	250		04/11/14 14:21	2037-26-5	
Preservation pH	5.0		0.10	250		04/11/14 14:21		pH

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60166483

Sample: TCLP 4-5-14		Lab ID: 60166483001	Collected: 04/05/14 12:54	Received: 04/07/14 13:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	597	mg/L	5.0	1		04/10/14 06:52		
2540B Total Solids		Analytical Method: SM 2540B						
Total Solids	35800	mg/L	5.0	1		04/10/14 15:31		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60166483

Sample: TRIP BLANK		Lab ID: 60166483002	Collected: 04/05/14 08:00	Received: 04/07/14 13:20	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		04/16/14 14:26	67-64-1	L1
Benzene	ND ug/L		1.0	1		04/16/14 14:26	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/16/14 14:26	75-27-4	
Bromoform	ND ug/L		1.0	1		04/16/14 14:26	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/16/14 14:26	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/16/14 14:26	78-93-3	L1
Carbon tetrachloride	ND ug/L		1.0	1		04/16/14 14:26	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/16/14 14:26	75-00-3	
Chloroform	ND ug/L		1.0	1		04/16/14 14:26	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/16/14 14:26	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/16/14 14:26	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/16/14 14:26	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/16/14 14:26	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/16/14 14:26	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/16/14 14:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/16/14 14:26	108-10-1	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/16/14 14:26	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		04/16/14 14:26	127-18-4	
Toluene	ND ug/L		1.0	1		04/16/14 14:26	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/16/14 14:26	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/16/14 14:26	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/16/14 14:26	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/16/14 14:26	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/16/14 14:26	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	101 %		80-120	1		04/16/14 14:26	460-00-4	
1,2-Dichloroethane-d4 (S)	105 %		80-120	1		04/16/14 14:26	17060-07-0	
Toluene-d8 (S)	97 %		80-120	1		04/16/14 14:26	2037-26-5	
Preservation pH	1.0		0.10	1		04/16/14 14:26		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60166483

QC Batch: MSV/60693

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV TCLP

Associated Lab Samples: 60166483001

METHOD BLANK: 1357722

Matrix: Water

Associated Lab Samples: 60166483001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	04/13/14 16:31	
1,2-Dichloroethane	ug/L	ND	50.0	04/13/14 16:31	
Benzene	ug/L	ND	50.0	04/13/14 16:31	
Carbon tetrachloride	ug/L	ND	50.0	04/13/14 16:31	
Chlorobenzene	ug/L	ND	50.0	04/13/14 16:31	
Chloroform	ug/L	ND	200	04/13/14 16:31	
Tetrachloroethene	ug/L	ND	50.0	04/13/14 16:31	
Trichloroethene	ug/L	ND	50.0	04/13/14 16:31	
Vinyl chloride	ug/L	ND	20.0	04/13/14 16:31	
1,2-Dichloroethane-d4 (S)	%	88	80-120	04/13/14 16:31	
4-Bromofluorobenzene (S)	%	93	80-120	04/13/14 16:31	
Toluene-d8 (S)	%	98	80-120	04/13/14 16:31	

LABORATORY CONTROL SAMPLE: 1357723

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	1000	1010	101	78-126	
1,2-Dichloroethane	ug/L	1000	934	93	77-123	
Benzene	ug/L	1000	930	93	80-120	
Carbon tetrachloride	ug/L	1000	811	81	78-128	
Chlorobenzene	ug/L	1000	1020	102	80-120	
Chloroform	ug/L	1000	839	84	79-120	
Tetrachloroethene	ug/L	1000	1140	114	80-121	
Trichloroethene	ug/L	1000	1030	103	80-120	
Vinyl chloride	ug/L	1000	973	97	59-120	
1,2-Dichloroethane-d4 (S)	%			91	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			102	80-120	

MATRIX SPIKE SAMPLE: 1357724

Parameter	Units	60166483001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	5000	4870	97	60-144	
1,2-Dichloroethane	ug/L	ND	5000	4370	87	49-148	
Benzene	ug/L	888	5000	5340	89	37-157	
Carbon tetrachloride	ug/L	ND	5000	4190	84	68-142	
Chlorobenzene	ug/L	ND	5000	4860	97	66-133	
Chloroform	ug/L	ND	5000	4100	82	66-127	
Tetrachloroethene	ug/L	ND	5000	5730	115	69-133	
Trichloroethene	ug/L	ND	5000	5230	105	61-135	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60166483

MATRIX SPIKE SAMPLE:		1357724					
Parameter	Units	60166483001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	ND	5000	4490	90	44-128	
1,2-Dichloroethane-d4 (S)	%				92	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	
Toluene-d8 (S)	%				102	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60166483

QC Batch:	MSV/60764	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV TCLP
Associated Lab Samples:	60166483001		

METHOD BLANK: 1360071 Matrix: Water

Associated Lab Samples: 60166483001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2-Butanone (MEK)	ug/L	ND	1000	04/10/14 18:55	
1,2-Dichloroethane-d4 (S)	%	98	80-120	04/10/14 18:55	
4-Bromofluorobenzene (S)	%	94	80-120	04/10/14 18:55	
Toluene-d8 (S)	%	99	80-120	04/10/14 18:55	

LABORATORY CONTROL SAMPLE: 1360072

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Butanone (MEK)	ug/L	5000	7030	141	52-145	
1,2-Dichloroethane-d4 (S)	%			93	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1357724

Parameter	Units	60166483001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
2-Butanone (MEK)	ug/L	53300	25000	84200	124	36-145	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60166483

QC Batch:	MSV/60733	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
Associated Lab Samples:	60166483001		

METHOD BLANK: 1358841 Matrix: Water

Associated Lab Samples: 60166483001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/11/14 10:12	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/11/14 10:12	
1,1,2-Trichloroethane	ug/L	ND	1.0	04/11/14 10:12	
1,2-Dichloroethane	ug/L	ND	1.0	04/11/14 10:12	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/11/14 10:12	
2-Butanone (MEK)	ug/L	ND	10.0	04/11/14 10:12	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/11/14 10:12	
Acetone	ug/L	ND	10.0	04/11/14 10:12	
Benzene	ug/L	ND	1.0	04/11/14 10:12	
Bromodichloromethane	ug/L	ND	1.0	04/11/14 10:12	
Bromoform	ug/L	ND	1.0	04/11/14 10:12	
Bromomethane	ug/L	ND	5.0	04/11/14 10:12	
Carbon tetrachloride	ug/L	ND	1.0	04/11/14 10:12	
Chloroethane	ug/L	ND	1.0	04/11/14 10:12	
Chloroform	ug/L	ND	1.0	04/11/14 10:12	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/11/14 10:12	
Ethylbenzene	ug/L	ND	1.0	04/11/14 10:12	
Methylene chloride	ug/L	ND	1.0	04/11/14 10:12	
Tetrachloroethene	ug/L	ND	1.0	04/11/14 10:12	
Toluene	ug/L	ND	1.0	04/11/14 10:12	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/11/14 10:12	
Trichloroethene	ug/L	ND	1.0	04/11/14 10:12	
Vinyl chloride	ug/L	ND	1.0	04/11/14 10:12	
Xylene (Total)	ug/L	ND	3.0	04/11/14 10:12	
1,2-Dichloroethane-d4 (S)	%	99	80-120	04/11/14 10:12	
4-Bromofluorobenzene (S)	%	100	80-120	04/11/14 10:12	
Toluene-d8 (S)	%	105	80-120	04/11/14 10:12	

LABORATORY CONTROL SAMPLE: 1358842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.4	87	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	20.8	104	73-124	
1,1,2-Trichloroethane	ug/L	20	19.1	95	80-120	
1,2-Dichloroethane	ug/L	20	18.0	90	77-123	
1,4-Dichlorobenzene	ug/L	20	20.6	103	80-120	
2-Butanone (MEK)	ug/L	100	144	144	52-145	SS
4-Methyl-2-pentanone (MIBK)	ug/L	100	95.1	95	71-131	
Acetone	ug/L	100	225	225	32-155	L0,SS
Benzene	ug/L	20	18.1	90	80-120	
Bromodichloromethane	ug/L	20	17.2	86	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60166483

LABORATORY CONTROL SAMPLE: 1358842

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.3	97	73-124	
Bromomethane	ug/L	20	20.5	102	31-144	
Carbon tetrachloride	ug/L	20	18.4	92	78-128	
Chloroethane	ug/L	20	19.7	98	55-137	
Chloroform	ug/L	20	18.1	90	79-120	
cis-1,2-Dichloroethene	ug/L	20	18.2	91	80-120	
Ethylbenzene	ug/L	20	19.9	100	80-121	
Methylene chloride	ug/L	20	18.7	93	73-126	
Tetrachloroethene	ug/L	20	19.4	97	80-121	
Toluene	ug/L	20	21.1	106	80-122	
trans-1,2-Dichloroethene	ug/L	20	18.8	94	79-121	
Trichloroethene	ug/L	20	17.6	88	80-120	
Vinyl chloride	ug/L	20	17.9	90	59-120	
Xylene (Total)	ug/L	60	63.4	106	80-121	
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			95	80-120	
Toluene-d8 (S)	%			109	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60166483

QC Batch:	MSV/60855	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
Associated Lab Samples:	60166483002		

METHOD BLANK: 1361491 Matrix: Water

Associated Lab Samples: 60166483002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/16/14 11:22	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/16/14 11:22	
1,1,2-Trichloroethane	ug/L	ND	1.0	04/16/14 11:22	
1,2-Dichloroethane	ug/L	ND	1.0	04/16/14 11:22	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/16/14 11:22	
2-Butanone (MEK)	ug/L	ND	10.0	04/16/14 11:22	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/16/14 11:22	
Acetone	ug/L	ND	10.0	04/16/14 11:22	
Benzene	ug/L	ND	1.0	04/16/14 11:22	
Bromodichloromethane	ug/L	ND	1.0	04/16/14 11:22	
Bromoform	ug/L	ND	1.0	04/16/14 11:22	
Bromomethane	ug/L	ND	5.0	04/16/14 11:22	
Carbon tetrachloride	ug/L	ND	1.0	04/16/14 11:22	
Chloroethane	ug/L	ND	1.0	04/16/14 11:22	
Chloroform	ug/L	ND	1.0	04/16/14 11:22	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/16/14 11:22	
Ethylbenzene	ug/L	ND	1.0	04/16/14 11:22	
Methylene chloride	ug/L	ND	1.0	04/16/14 11:22	
Tetrachloroethene	ug/L	ND	1.0	04/16/14 11:22	
Toluene	ug/L	ND	1.0	04/16/14 11:22	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/16/14 11:22	
Trichloroethene	ug/L	ND	1.0	04/16/14 11:22	
Vinyl chloride	ug/L	ND	1.0	04/16/14 11:22	
Xylene (Total)	ug/L	ND	3.0	04/16/14 11:22	
1,2-Dichloroethane-d4 (S)	%	101	80-120	04/16/14 11:22	
4-Bromofluorobenzene (S)	%	106	80-120	04/16/14 11:22	
Toluene-d8 (S)	%	99	80-120	04/16/14 11:22	

LABORATORY CONTROL SAMPLE: 1361492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.7	109	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	20.4	102	73-124	
1,1,2-Trichloroethane	ug/L	20	19.0	95	80-120	
1,2-Dichloroethane	ug/L	20	21.2	106	77-123	
1,4-Dichlorobenzene	ug/L	20	20.6	103	80-120	
2-Butanone (MEK)	ug/L	100	156	156	52-145	L0
4-Methyl-2-pentanone (MIBK)	ug/L	100	109	109	71-131	
Acetone	ug/L	100	217	217	32-155	L0,SS
Benzene	ug/L	20	21.1	106	80-120	
Bromodichloromethane	ug/L	20	20.9	104	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60166483

LABORATORY CONTROL SAMPLE: 1361492

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.5	102	73-124	
Bromomethane	ug/L	20	23.1	115	31-144	
Carbon tetrachloride	ug/L	20	22.5	113	78-128	
Chloroethane	ug/L	20	22.6	113	55-137	
Chloroform	ug/L	20	20.3	102	79-120	
cis-1,2-Dichloroethene	ug/L	20	21.6	108	80-120	
Ethylbenzene	ug/L	20	22.1	111	80-121	
Methylene chloride	ug/L	20	19.6	98	73-126	
Tetrachloroethene	ug/L	20	21.2	106	80-121	
Toluene	ug/L	20	21.0	105	80-122	
trans-1,2-Dichloroethene	ug/L	20	20.7	103	79-121	
Trichloroethene	ug/L	20	20.6	103	80-120	
Vinyl chloride	ug/L	20	21.6	108	59-120	
Xylene (Total)	ug/L	60	64.5	107	80-121	
1,2-Dichloroethane-d4 (S)	%			103	80-120	
4-Bromofluorobenzene (S)	%			101	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.: 60166483

QC Batch:	WET/47228	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60166483001		

METHOD BLANK: 1357785 Matrix: Water

Associated Lab Samples: 60166483001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/10/14 06:47	

LABORATORY CONTROL SAMPLE: 1357786

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: 1357787

Parameter	Units	60166608001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	43	45.3	103	78-114	

SAMPLE DUPLICATE: 1357789

Parameter	Units	60166481001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1390	1350	3	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60166483

QC Batch: WET/47237

Analysis Method: SM 2540B

QC Batch Method: SM 2540B

Analysis Description: 2540B Total Solids

Associated Lab Samples: 60166483001

METHOD BLANK: 1357901

Matrix: Water

Associated Lab Samples: 60166483001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	5.0	04/10/14 15:31	

LABORATORY CONTROL SAMPLE: 1357902

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	1000	972	97	80-120	

SAMPLE DUPLICATE: 1357903

Parameter	Units	60166483001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	35800	35900	0	10	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60166483

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/60733

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

Batch: MSV/60855

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

ANALYTE QUALIFIERS

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.

SS This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

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.: 60166483

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60166483001	TCLP 4-5-14	EPA 8260	MSV/60693		
60166483001	TCLP 4-5-14	EPA 8260	MSV/60764		
60166483001	TCLP 4-5-14	EPA 5030B/8260	MSV/60733		
60166483002	TRIP BLANK	EPA 5030B/8260	MSV/60855		
60166483001	TCLP 4-5-14	EPA 1664A	WET/47228		
60166483001	TCLP 4-5-14	SM 2540B	WET/47237		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60166483



60166483

Client Name: Barr Eng

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

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: WA Blue ☐ None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 34

Temperature should be above freezing to 6°C

Date and initials of person examining contents: WA 4/7/14 1410

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☐ Yes ☒ No ☐ N/A	6.
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	9.
Pace containers used:	☒ Yes ☐ No ☐ N/A	10.
Containers intact:	☒ Yes ☐ No ☐ N/A	11.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	12.
Filtered volume received for dissolved tests?	☐ Yes ☐ No ☒ N/A	13.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	14.
Includes date/time/ID/analyses	Matrix: <u>water</u>	15.
All containers needing preservation have been checked.	☐ Yes ☐ No ☒ N/A	16.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☒ N/A	17.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☒ Yes ☐ No	Initial when completed
Trip Blank present:	☒ Yes ☐ No ☐ N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased): <u>unused</u>		18.
Headspace in VOA vials (>6mm):	☐ Yes ☒ No ☐ N/A	19. none detected
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ N/A	20. 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: 4/9/14

Section A
Required Client Information:

Company: BARR ENGINEERING
Address:
Email To:
Phone: Fax:
Requested Due Date/TAT:

Section B
Required Project Information:

Report To: ED GALBRAITH/BARR
Copy To: SCOTT FEDAK/FEEZOR
DANA BAKER/MARGARET TREANOR-BARR
Purchase Order No.: PO 3727110
Project Name: UNTREATED COMMINGLED
Project Number:

Section C
Invoice Information:

Attention: JANET ROLLEN
Company Name: REPUBLIC SERVICES
Address: BRIDGETON, MO 63044
Pace Quote Reference:
Pace Project Manager: Angie Brown 913-563-1402
Pace Profile #: PROFILE 6787-LINE 6

Page: / of /

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER
Site Location: MO
STATE: MO

ITEM #	Section D Required Client Information	Valid Matrix Codes		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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	MATRIX			CODE	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 *	% Solids	Oil and Grease																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
		FBI		4/7/14	9:00	Bill Stone 412		4/7/14	9:00				
						[Signature] (Pace)		4/7/14	1320	3A	Y	Y	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: [Signature]
DATE Signed (MM/DD/YY): 4/5/14

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

(Only if sample is liquid or semi-liquid. Skip if sample is obviously 100% solid.)

Pace Analytical
www.pacelabs.com

Reviewed by: _____

F-KS-128-rev.0
October 21, 2013

April 16, 2014

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

RE: Project: BRIDGETON LF 316-263
Pace Project No.: 60166588

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 09, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-263

Pace Project No.: 60166588

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 316-263

Pace Project No.: 60166588

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60166588001	316-263 [TSS]	Water	04/07/14 16:11	04/09/14 02:00
60166588002	316-263	Water	04/07/14 16:11	04/09/14 02:00
60166588003	TIRP BLANK	Water	04/07/14 00:00	04/09/14 02:00

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-263

Pace Project No.: 60166588

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60166588001	316-263 [TSS]	SM 2540D	RAH	1
60166588002	316-263	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 4500-H+B	NDL	1
		SM 5210B	DJR	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
60166588003	TIRP BLANK	EPA 624 Low	EAK	28

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-263

Pace Project No.: 60166588

Sample: 316-263 [TSS]		Lab ID: 60166588001	Collected: 04/07/14 16:11	Received: 04/09/14 02:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	3660	mg/L	5.0	1		04/09/14 12:36		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-263

Pace Project No.: 60166588

Sample: 316-263		Lab ID: 60166588002	Collected: 04/07/14 16:11	Received: 04/09/14 02:00	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	13100 ug/L		750	2	04/11/14 13:00	04/11/14 14:32	7429-90-5	
Antimony	ND ug/L		100	2	04/11/14 13:00	04/11/14 14:32	7440-36-0	D3
Arsenic	1010 ug/L		50.0	1	04/11/14 13:00	04/11/14 14:29	7440-38-2	
Beryllium	ND ug/L		5.0	1	04/11/14 13:00	04/11/14 14:29	7440-41-7	
Cadmium	ND ug/L		25.0	1	04/11/14 13:00	04/11/14 14:29	7440-43-9	
Chromium	230 ug/L		25.0	1	04/11/14 13:00	04/11/14 14:29	7440-47-3	
Cobalt	44.9 ug/L		25.0	1	04/11/14 13:00	04/11/14 14:29	7440-48-4	
Copper	ND ug/L		50.0	1	04/11/14 13:00	04/11/14 14:29	7440-50-8	
Iron	626000 ug/L		250	1	04/11/14 13:00	04/11/14 14:29	7439-89-6	
Lead	104 ug/L		25.0	1	04/11/14 13:00	04/11/14 14:29	7439-92-1	
Nickel	126 ug/L		25.0	1	04/11/14 13:00	04/11/14 14:29	7440-02-0	
Selenium	90.0 ug/L		75.0	1	04/11/14 13:00	04/11/14 14:29	7782-49-2	
Silver	ND ug/L		35.0	1	04/11/14 13:00	04/11/14 14:29	7440-22-4	
Thallium	ND ug/L		100	1	04/11/14 13:00	04/11/14 14:29	7440-28-0	
Zinc	5300 ug/L		500	2	04/11/14 13:00	04/11/14 14:32	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1150 ug/L		750	2	04/10/14 18:40	04/11/14 12:54	7429-90-5	
Antimony, Dissolved	ND ug/L		100	2	04/10/14 18:40	04/11/14 12:54	7440-36-0	D3
Arsenic, Dissolved	757 ug/L		50.0	1	04/10/14 18:40	04/11/14 12:51	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	04/10/14 18:40	04/11/14 12:51	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	04/10/14 18:40	04/11/14 12:51	7440-43-9	
Chromium, Dissolved	152 ug/L		25.0	1	04/10/14 18:40	04/11/14 12:51	7440-47-3	
Cobalt, Dissolved	26.5 ug/L		25.0	1	04/10/14 18:40	04/11/14 12:51	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	04/10/14 18:40	04/11/14 12:51	7440-50-8	
Iron, Dissolved	350000 ug/L		250	1	04/10/14 18:40	04/11/14 12:51	7439-89-6	
Lead, Dissolved	45.8 ug/L		25.0	1	04/10/14 18:40	04/11/14 12:51	7439-92-1	
Nickel, Dissolved	78.0 ug/L		25.0	1	04/10/14 18:40	04/11/14 12:51	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	04/10/14 18:40	04/11/14 12:51	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	04/10/14 18:40	04/11/14 12:51	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	04/10/14 18:40	04/11/14 12:51	7440-28-0	
Zinc, Dissolved	4480 ug/L		500	2	04/10/14 18:40	04/11/14 12:54	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	17.0 ug/L		6.0	1	04/11/14 09:45	04/11/14 15:05	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	04/11/14 09:45	04/11/14 00:00	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	04/09/14 00:00	04/10/14 19:13	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	04/09/14 00:00	04/10/14 19:13	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	04/09/14 00:00	04/10/14 19:13	77-47-4	
Hexachloroethane	ND ug/L		1000	2	04/09/14 00:00	04/10/14 19:13	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	04/09/14 00:00	04/10/14 19:13	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	8670 ug/L		4000	2	04/09/14 00:00	04/10/14 19:13		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-263

Pace Project No.: 60166588

Sample: 316-263		Lab ID: 60166588002	Collected: 04/07/14 16:11	Received: 04/09/14 02:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	2960 ug/L		1000	2	04/09/14 00:00	04/10/14 19:13	91-20-3	
Nitrobenzene	ND ug/L		1000	2	04/09/14 00:00	04/10/14 19:13	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	04/09/14 00:00	04/10/14 19:13	87-86-5	
Phenol	11700 ug/L		1000	2	04/09/14 00:00	04/10/14 19:13	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	04/09/14 00:00	04/10/14 19:13	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	04/09/14 00:00	04/10/14 19:13	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	170 %		33-120	2	04/09/14 00:00	04/10/14 19:13	4165-60-0	S0
2-Fluorobiphenyl (S)	96 %		39-120	2	04/09/14 00:00	04/10/14 19:13	321-60-8	
Terphenyl-d14 (S)	117 %		45-120	2	04/09/14 00:00	04/10/14 19:13	1718-51-0	
Phenol-d6 (S)	37 %		11-120	2	04/09/14 00:00	04/10/14 19:13	13127-88-3	
2-Fluorophenol (S)	50 %		17-120	2	04/09/14 00:00	04/10/14 19:13	367-12-4	
2,4,6-Tribromophenol (S)	102 %		39-120	2	04/09/14 00:00	04/10/14 19:13	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	203000 ug/L		2500	250		04/09/14 17:06	67-64-1	L1,N2
Benzene	ND ug/L		250	250		04/09/14 17:06	71-43-2	
Bromodichloromethane	ND ug/L		250	250		04/09/14 17:06	75-27-4	
Bromoform	ND ug/L		250	250		04/09/14 17:06	75-25-2	
Bromomethane	ND ug/L		1250	250		04/09/14 17:06	74-83-9	
2-Butanone (MEK)	81400 ug/L		2500	250		04/09/14 17:06	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		04/09/14 17:06	56-23-5	
Chloroethane	ND ug/L		250	250		04/09/14 17:06	75-00-3	
Chloroform	ND ug/L		250	250		04/09/14 17:06	67-66-3	
1,4-Dichlorobenzene	1040 ug/L		250	250		04/09/14 17:06	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		04/09/14 17:06	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		04/09/14 17:06	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		04/09/14 17:06	156-60-5	
Ethylbenzene	ND ug/L		250	250		04/09/14 17:06	100-41-4	
Methylene chloride	ND ug/L		250	250		04/09/14 17:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		04/09/14 17:06	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		04/09/14 17:06	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		04/09/14 17:06	127-18-4	
Toluene	ND ug/L		250	250		04/09/14 17:06	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		04/09/14 17:06	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		04/09/14 17:06	79-00-5	
Trichloroethene	ND ug/L		250	250		04/09/14 17:06	79-01-6	
Vinyl chloride	ND ug/L		250	250		04/09/14 17:06	75-01-4	
Xylene (Total)	ND ug/L		750	250		04/09/14 17:06	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	94 %		80-120	250		04/09/14 17:06	460-00-4	
Toluene-d8 (S)	95 %		80-120	250		04/09/14 17:06	2037-26-5	
1,2-Dichloroethane-d4 (S)	119 %		80-120	250		04/09/14 17:06	17060-07-0	
Preservation pH	6.0		1.0	250		04/09/14 17:06		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1410 mg/L		5.0	1		04/12/14 07:35		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-263

Pace Project No.: 60166588

Sample: 316-263		Lab ID: 60166588002	Collected: 04/07/14 16:11	Received: 04/09/14 02:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	11.2	mg/L	5.0	1		04/14/14 13:41		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.3	Std. Units	0.10	1		04/09/14 15:10		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	25900	mg/L	2.0	1	04/09/14 13:25	04/14/14 10:49		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	561	mg/L	20.0	200		04/10/14 12:36	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	68300	mg/L	5000	500		04/15/14 15:08		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-263

Pace Project No.: 60166588

Sample: TIRP BLANK		Lab ID: 60166588003	Collected: 04/07/14 00:00	Received: 04/09/14 02:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		04/09/14 18:09	67-64-1	L1,N2
Benzene	ND ug/L		1.0	1		04/09/14 18:09	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/09/14 18:09	75-27-4	
Bromoform	ND ug/L		1.0	1		04/09/14 18:09	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/09/14 18:09	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/09/14 18:09	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		04/09/14 18:09	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/09/14 18:09	75-00-3	
Chloroform	ND ug/L		1.0	1		04/09/14 18:09	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/09/14 18:09	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/09/14 18:09	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/09/14 18:09	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/09/14 18:09	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/09/14 18:09	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/09/14 18:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/09/14 18:09	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/09/14 18:09	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/09/14 18:09	127-18-4	
Toluene	ND ug/L		1.0	1		04/09/14 18:09	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/09/14 18:09	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/09/14 18:09	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/09/14 18:09	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/09/14 18:09	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/09/14 18:09	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	96 %		80-120	1		04/09/14 18:09	460-00-4	
Toluene-d8 (S)	88 %		80-120	1		04/09/14 18:09	2037-26-5	
1,2-Dichloroethane-d4 (S)	99 %		80-120	1		04/09/14 18:09	17060-07-0	
Preservation pH	6.0		1.0	1		04/09/14 18:09		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-263

Pace Project No.: 60166588

QC Batch: MERP/8296

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60166588002

METHOD BLANK: 1358877

Matrix: Water

Associated Lab Samples: 60166588002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/11/14 14:38	

LABORATORY CONTROL SAMPLE: 1358878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1358879 1358880

Parameter	Units	60166481001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	14.5	150	150	101	118	58	69	70-130	16	20	M1

MATRIX SPIKE SAMPLE: 1358881

Parameter	Units	60166482001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	17.1	150	116	66	70-130	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-263

Pace Project No.: 60166588

QC Batch: MERP/8295

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60166588002

METHOD BLANK: 1358795

Matrix: Water

Associated Lab Samples: 60166588002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/11/14 15:20	

LABORATORY CONTROL SAMPLE: 1358796

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.7	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1358797 1358798

Parameter	Units	60166481001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	119	118	79	79	70-130	1	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-263
Pace Project No.: 60166588

QC Batch: MPRP/26793 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60166588002

METHOD BLANK: 1358824 Matrix: Water
Associated Lab Samples: 60166588002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/11/14 14:15	
Antimony	ug/L	ND	10.0	04/11/14 14:15	
Arsenic	ug/L	ND	10.0	04/11/14 14:15	
Beryllium	ug/L	ND	1.0	04/11/14 14:15	
Cadmium	ug/L	ND	5.0	04/11/14 14:15	
Chromium	ug/L	ND	5.0	04/11/14 14:15	
Cobalt	ug/L	ND	5.0	04/11/14 14:15	
Copper	ug/L	ND	10.0	04/11/14 14:15	
Iron	ug/L	ND	50.0	04/11/14 14:15	
Lead	ug/L	ND	5.0	04/11/14 14:15	
Nickel	ug/L	ND	5.0	04/11/14 14:15	
Selenium	ug/L	ND	15.0	04/11/14 14:15	
Silver	ug/L	ND	7.0	04/11/14 14:15	
Thallium	ug/L	ND	20.0	04/11/14 14:15	
Zinc	ug/L	ND	50.0	04/11/14 14:15	

LABORATORY CONTROL SAMPLE: 1358825

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9920	99	85-115	
Antimony	ug/L	1000	1080	108	85-115	
Arsenic	ug/L	1000	983	98	85-115	
Beryllium	ug/L	1000	991	99	85-115	
Cadmium	ug/L	1000	985	98	85-115	
Chromium	ug/L	1000	939	94	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	9390	94	85-115	
Lead	ug/L	1000	991	99	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1040	104	85-115	
Silver	ug/L	500	488	98	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	922	92	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1358826 1358827

Parameter	Units	60166588002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	13100	50000	50000	69800	68600	114	111	70-130	2	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-263

Pace Project No.: 60166588

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1358826 1358827												
Parameter	Units	60166588002		MS	MSD	MS	MSD	MS	MSD	% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.							
Antimony	ug/L	ND	5000	5000	5680	5580	112	110	70-130	2	7	
Arsenic	ug/L	1010	5000	5000	6600	6580	112	111	70-130	0	10	
Beryllium	ug/L	ND	5000	5000	4680	4670	94	93	70-130	0	7	
Cadmium	ug/L	ND	5000	5000	5220	5200	104	104	70-130	0	10	
Chromium	ug/L	230	5000	5000	4770	4730	91	90	70-130	1	10	
Cobalt	ug/L	44.9	5000	5000	4830	4820	96	95	70-130	0	6	
Copper	ug/L	ND	5000	5000	5580	5530	111	110	70-130	1	11	
Iron	ug/L	626000	50000	50000	664000	666000	77	79	70-130	0	10	
Lead	ug/L	104	5000	5000	4450	4430	87	87	70-130	0	10	
Nickel	ug/L	126	5000	5000	4840	4860	94	95	70-130	0	10	
Selenium	ug/L	90.0	5000	5000	6420	6500	127	128	70-130	1	10	
Silver	ug/L	ND	2500	2500	2660	2650	106	106	70-130	1	10	
Thallium	ug/L	ND	5000	5000	4230	4200	85	84	70-130	1	6	
Zinc	ug/L	5300	5000	5000	9650	9580	87	86	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-263
Pace Project No.: 60166588

QC Batch:	MPRP/26792	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60166588002		

METHOD BLANK: 1358631 Matrix: Water
Associated Lab Samples: 60166588002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/11/14 11:15	
Antimony, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Arsenic, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Beryllium, Dissolved	ug/L	ND	1.0	04/11/14 11:15	
Cadmium, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Chromium, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Cobalt, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Copper, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Iron, Dissolved	ug/L	ND	50.0	04/11/14 11:15	
Lead, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Nickel, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Selenium, Dissolved	ug/L	ND	15.0	04/11/14 11:15	
Silver, Dissolved	ug/L	ND	7.0	04/11/14 11:15	
Thallium, Dissolved	ug/L	ND	20.0	04/11/14 11:15	
Zinc, Dissolved	ug/L	ND	50.0	04/11/14 11:15	

LABORATORY CONTROL SAMPLE: 1358632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9940	99	85-115	
Antimony, Dissolved	ug/L	1000	1050	105	85-115	
Arsenic, Dissolved	ug/L	1000	979	98	85-115	
Beryllium, Dissolved	ug/L	1000	1030	103	85-115	
Cadmium, Dissolved	ug/L	1000	994	99	85-115	
Chromium, Dissolved	ug/L	1000	971	97	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	10000	100	85-115	
Lead, Dissolved	ug/L	1000	1010	101	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1030	103	85-115	
Silver, Dissolved	ug/L	500	497	99	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	973	97	85-115	

MATRIX SPIKE SAMPLE: 1358633

Parameter	Units	60166517001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	ND	10000	9990	100	70-130	
Antimony, Dissolved	ug/L	ND	1000	1120	112	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-263

Pace Project No.: 60166588

MATRIX SPIKE SAMPLE:		1358633					
Parameter	Units	60166517001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	ND	1000	1050	105	70-130	
Beryllium, Dissolved	ug/L	ND	1000	1010	101	70-130	
Cadmium, Dissolved	ug/L	ND	1000	1030	103	70-130	
Chromium, Dissolved	ug/L	ND	1000	952	95	70-130	
Cobalt, Dissolved	ug/L	ND	1000	1010	101	70-130	
Copper, Dissolved	ug/L	ND	1000	1060	106	70-130	
Iron, Dissolved	ug/L	ND	10000	9690	97	70-130	
Lead, Dissolved	ug/L	ND	1000	972	97	70-130	
Nickel, Dissolved	ug/L	ND	1000	1010	101	70-130	
Selenium, Dissolved	ug/L	ND	1000	1090	109	70-130	
Silver, Dissolved	ug/L	ND	500	516	103	70-130	
Thallium, Dissolved	ug/L	ND	1000	964	96	70-130	
Zinc, Dissolved	ug/L	ND	1000	934	93	70-130	

MATRIX SPIKE SAMPLE:		1358634					
Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	1010	50000	50900	100	70-130	
Antimony, Dissolved	ug/L	ND	5000	6390	126	70-130	
Arsenic, Dissolved	ug/L	798	5000	6320	110	70-130	
Beryllium, Dissolved	ug/L	ND	5000	4890	98	70-130	
Cadmium, Dissolved	ug/L	ND	5000	5290	106	70-130	
Chromium, Dissolved	ug/L	154	5000	4870	94	70-130	
Cobalt, Dissolved	ug/L	27.1	5000	4960	99	70-130	
Copper, Dissolved	ug/L	ND	5000	5560	111	70-130	
Iron, Dissolved	ug/L	355000	50000	402000	96	70-130	
Lead, Dissolved	ug/L	40.6	5000	4630	92	70-130	
Nickel, Dissolved	ug/L	80.0	5000	4990	98	70-130	
Selenium, Dissolved	ug/L	ND	5000	6300	125	70-130	
Silver, Dissolved	ug/L	ND	2500	2720	108	70-130	
Thallium, Dissolved	ug/L	ND	5000	4430	89	70-130	
Zinc, Dissolved	ug/L	3550	5000	9280	115	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-263

Pace Project No.: 60166588

QC Batch: MSV/60683 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60166588002, 60166588003

METHOD BLANK: 1357477

Matrix: Water

Associated Lab Samples: 60166588002, 60166588003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/09/14 14:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/09/14 14:29	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/09/14 14:29	
1,2-Dichloroethane	ug/L	ND	1.0	04/09/14 14:29	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/09/14 14:29	
2-Butanone (MEK)	ug/L	ND	10.0	04/09/14 14:29	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/09/14 14:29	N2
Acetone	ug/L	ND	10.0	04/09/14 14:29	N2
Benzene	ug/L	ND	1.0	04/09/14 14:29	
Bromodichloromethane	ug/L	ND	1.0	04/09/14 14:29	
Bromoform	ug/L	ND	1.0	04/09/14 14:29	
Bromomethane	ug/L	ND	5.0	04/09/14 14:29	
Carbon tetrachloride	ug/L	ND	1.0	04/09/14 14:29	
Chloroethane	ug/L	ND	1.0	04/09/14 14:29	
Chloroform	ug/L	ND	1.0	04/09/14 14:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/09/14 14:29	N2
Ethylbenzene	ug/L	ND	1.0	04/09/14 14:29	
Methylene chloride	ug/L	ND	1.0	04/09/14 14:29	
Tetrachloroethene	ug/L	ND	1.0	04/09/14 14:29	
Toluene	ug/L	ND	1.0	04/09/14 14:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/09/14 14:29	
Trichloroethene	ug/L	ND	1.0	04/09/14 14:29	
Vinyl chloride	ug/L	ND	1.0	04/09/14 14:29	
Xylene (Total)	ug/L	ND	3.0	04/09/14 14:29	N2
1,2-Dichloroethane-d4 (S)	%	102	80-120	04/09/14 14:29	
4-Bromofluorobenzene (S)	%	103	80-120	04/09/14 14:29	
Toluene-d8 (S)	%	101	80-120	04/09/14 14:29	

LABORATORY CONTROL SAMPLE: 1357478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.5	98	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.2	101	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.1	95	67-124	
1,2-Dichloroethane	ug/L	20	19.5	97	70-126	
1,4-Dichlorobenzene	ug/L	20	18.6	93	74-120	
2-Butanone (MEK)	ug/L	100	142	142	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	59-131	N2
Acetone	ug/L	100	182	182	38-134	L0,N2
Benzene	ug/L	20	19.1	95	75-120	
Bromodichloromethane	ug/L	20	20.0	100	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-263

Pace Project No.: 60166588

LABORATORY CONTROL SAMPLE: 1357478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.0	100	65-127	
Bromomethane	ug/L	20	21.8	109	13-157	
Carbon tetrachloride	ug/L	20	19.5	98	70-131	
Chloroethane	ug/L	20	20.9	104	47-133	
Chloroform	ug/L	20	19.1	95	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.6	103	68-127	N2
Ethylbenzene	ug/L	20	18.8	94	74-122	
Methylene chloride	ug/L	20	20.0	100	64-129	
Tetrachloroethene	ug/L	20	19.1	96	73-125	
Toluene	ug/L	20	19.2	96	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.3	101	66-129	
Trichloroethene	ug/L	20	20.0	100	71-123	
Vinyl chloride	ug/L	20	23.2	116	43-129	
Xylene (Total)	ug/L	60	56.6	94	75-121	N2
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			107	80-120	
Toluene-d8 (S)	%			102	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-263
Pace Project No.: 60166588

QC Batch:	OEXT/43575	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60166588002		

METHOD BLANK: 1357780 Matrix: Water
Associated Lab Samples: 60166588002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/10/14 14:03	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/10/14 14:03	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/10/14 14:03	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/10/14 14:03	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/10/14 14:03	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/10/14 14:03	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/10/14 14:03	
Hexachloroethane	ug/L	ND	5.0	04/10/14 14:03	
Naphthalene	ug/L	ND	5.0	04/10/14 14:03	
Nitrobenzene	ug/L	ND	5.0	04/10/14 14:03	
Pentachlorophenol	ug/L	ND	5.0	04/10/14 14:03	
Phenol	ug/L	ND	5.0	04/10/14 14:03	
2,4,6-Tribromophenol (S)	%	100	39-120	04/10/14 14:03	
2-Fluorobiphenyl (S)	%	102	39-120	04/10/14 14:03	
2-Fluorophenol (S)	%	51	17-120	04/10/14 14:03	
Nitrobenzene-d5 (S)	%	101	33-120	04/10/14 14:03	
Phenol-d6 (S)	%	33	11-120	04/10/14 14:03	
Terphenyl-d14 (S)	%	103	45-120	04/10/14 14:03	

LABORATORY CONTROL SAMPLE: 1357781

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	46.9	94	46-120	
2,4,6-Trichlorophenol	ug/L	50	47.7	95	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	39.3	79	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	34.2	68	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	56.2	112	40-133	
Hexachloro-1,3-butadiene	ug/L	50	46.3	93	44-116	
Hexachlorocyclopentadiene	ug/L	100	88.8	89	24-120	
Hexachloroethane	ug/L	50	44.7	89	43-113	
Naphthalene	ug/L	50	47.4	95	48-120	
Nitrobenzene	ug/L	50	48.6	97	48-120	
Pentachlorophenol	ug/L	50	49.2	98	47-120	
Phenol	ug/L	50	19.7	39	16-112	
2,4,6-Tribromophenol (S)	%			98	39-120	
2-Fluorobiphenyl (S)	%			97	39-120	
2-Fluorophenol (S)	%			50	17-120	
Nitrobenzene-d5 (S)	%			98	33-120	
Phenol-d6 (S)	%			33	11-120	
Terphenyl-d14 (S)	%			101	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-263

Pace Project No.: 60166588

MATRIX SPIKE SAMPLE:		1357782					
Parameter	Units	60166588002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	4250	85	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4570	91	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	4740	95	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	8670	5000	11400	55	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	3520J	70	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4170	83	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	5400	54	11-120	
Hexachloroethane	ug/L	ND	5000	4420	88	40-113	
Naphthalene	ug/L	2960	5000	6670	74	45-120	
Nitrobenzene	ug/L	ND	5000	4320	86	38-120	
Pentachlorophenol	ug/L	ND	5000	4560	91	43-135	
Phenol	ug/L	11700	5000	12700	20	13-112	
2,4,6-Tribromophenol (S)	%				87	39-120	
2-Fluorobiphenyl (S)	%				93	39-120	
2-Fluorophenol (S)	%				50	17-120	
Nitrobenzene-d5 (S)	%				150	33-120	SO
Phenol-d6 (S)	%				35	11-120	
Terphenyl-d14 (S)	%				104	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-263

Pace Project No.: 60166588

QC Batch:	WET/47271	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60166588002		

METHOD BLANK: 1359406 Matrix: Water

Associated Lab Samples: 60166588002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/12/14 13:29	

LABORATORY CONTROL SAMPLE: 1359407

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	41.5	104	78-114	

MATRIX SPIKE SAMPLE: 1359410

Parameter	Units	60166245001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	41.2	42.5	101	78-114	

SAMPLE DUPLICATE: 1359411

Parameter	Units	60166267003 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	.83J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-263

Pace Project No.: 60166588

QC Batch: WET/47298

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60166588002

METHOD BLANK: 1360403

Matrix: Water

Associated Lab Samples: 60166588002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	04/14/14 13:39	

LABORATORY CONTROL SAMPLE: 1360404

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: 1360405

Parameter	Units	60166177002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	21.7	25.7	112	64-132	

SAMPLE DUPLICATE: 1360406

Parameter	Units	60166541001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	ND		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-263

Pace Project No.: 60166588

QC Batch: WET/47211

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60166588001

METHOD BLANK: 1357445

Matrix: Water

Associated Lab Samples: 60166588001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/09/14 12:36	

SAMPLE DUPLICATE: 1357446

Parameter	Units	60166588001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3660	3680	1	10	

SAMPLE DUPLICATE: 1357447

Parameter	Units	60166574002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3320	3260	2	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-263

Pace Project No.: 60166588

QC Batch:	WET/47218	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
Associated Lab Samples:	60166588002		

SAMPLE DUPLICATE: 1357727

Parameter	Units	60166481001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.3	5.4	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-263

Pace Project No.: 60166588

QC Batch: WET/47199

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60166588002

METHOD BLANK: 1357285

Matrix: Water

Associated Lab Samples: 60166588002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/14/14 09:27	

LABORATORY CONTROL SAMPLE: 1357286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	187	94	85-115	

SAMPLE DUPLICATE: 1357287

Parameter	Units	60166558001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	5.9	6.7	12	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-263

Pace Project No.: 60166588

QC Batch:	WETA/28972	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60166588002		

METHOD BLANK: 1357981 Matrix: Water

Associated Lab Samples: 60166588002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/10/14 12:03	

LABORATORY CONTROL SAMPLE: 1357982

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

MATRIX SPIKE SAMPLE: 1357983

Parameter	Units	60166333001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.7	86	90-110	M1

MATRIX SPIKE SAMPLE: 1357984

Parameter	Units	60166341003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.1	105	90-110	

SAMPLE DUPLICATE: 1357985

Parameter	Units	60166481001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	559	576	3	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-263

Pace Project No.: 60166588

QC Batch:	WETA/29023	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60166588002		

METHOD BLANK: 1360535 Matrix: Water
Associated Lab Samples: 60166588002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	04/15/14 15:03	

LABORATORY CONTROL SAMPLE: 1360536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	51.2	102	90-110	

MATRIX SPIKE SAMPLE: 1360537

Parameter	Units	60166434001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	6360	5000	13500	143	90-110	M1

MATRIX SPIKE SAMPLE: 1360539

Parameter	Units	60166553002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	1770	2500	5020	130	90-110	M1

SAMPLE DUPLICATE: 1360538

Parameter	Units	60166434005 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	1930	2370	20	25	

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QUALIFIERS

Project: BRIDGETON LF 316-263

Pace Project No.: 60166588

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/60683

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

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

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.

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 316-263

Pace Project No.: 60166588

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60166588002	316-263	EPA 200.7	MPRP/26793	EPA 200.7	ICP/20359
60166588002	316-263	EPA 200.7	MPRP/26792	EPA 200.7	ICP/20356
60166588002	316-263	EPA 245.1	MERP/8296	EPA 245.1	MERC/8250
60166588002	316-263	EPA 245.1	MERP/8295	EPA 245.1	MERC/8251
60166588002	316-263	EPA 625	OEXT/43575	EPA 625	MSSV/13900
60166588002	316-263	EPA 624 Low	MSV/60683		
60166588003	TIRP BLANK	EPA 624 Low	MSV/60683		
60166588002	316-263	EPA 1664A	WET/47271		
60166588002	316-263	EPA 1664A	WET/47298		
60166588001	316-263 [TSS]	SM 2540D	WET/47211		
60166588002	316-263	SM 4500-H+B	WET/47218		
60166588002	316-263	SM 5210B	WET/47199	SM 5210B	WET/47295
60166588002	316-263	EPA 350.1	WETA/28972		
60166588002	316-263	EPA 410.4	WETA/29023		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60166588



60166588

Client Name: Barr

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: 7.4

Temperature should be above freezing to 6°C

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

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

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: 12/19/14

April 16, 2014

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

RE: Project: BRIDGETON LF 316-264
Pace Project No.: 60166589

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 09, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-264

Pace Project No.: 60166589

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 316-264

Pace Project No.: 60166589

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60166589001	316-264	Water	04/08/14 09:28	04/09/14 02:00
60166589002	316-264 [TSS]	Water	04/08/14 09:28	04/09/14 02:00
60166589003	TRIP BLANK	Water	04/08/14 00:00	04/09/14 02:00

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-264

Pace Project No.: 60166589

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60166589001	316-264	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 4500-H+B	NDL	1
		SM 5210B	DJR	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
60166589002	316-264 [TSS]	SM 2540D	RAH	1
60166589003	TRIP BLANK	EPA 624 Low	EAK	28

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-264

Pace Project No.: 60166589

Sample: 316-264		Lab ID: 60166589001	Collected: 04/08/14 09:28	Received: 04/09/14 02:00	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	17100 ug/L		750	2	04/11/14 13:00	04/11/14 14:59	7429-90-5	
Antimony	ND ug/L		100	2	04/11/14 13:00	04/11/14 14:59	7440-36-0	D3
Arsenic	1030 ug/L		50.0	1	04/11/14 13:00	04/11/14 14:56	7440-38-2	
Beryllium	ND ug/L		5.0	1	04/11/14 13:00	04/11/14 14:56	7440-41-7	
Cadmium	ND ug/L		25.0	1	04/11/14 13:00	04/11/14 14:56	7440-43-9	
Chromium	228 ug/L		25.0	1	04/11/14 13:00	04/11/14 14:56	7440-47-3	
Cobalt	49.6 ug/L		25.0	1	04/11/14 13:00	04/11/14 14:56	7440-48-4	
Copper	ND ug/L		50.0	1	04/11/14 13:00	04/11/14 14:56	7440-50-8	
Iron	686000 ug/L		250	1	04/11/14 13:00	04/11/14 14:56	7439-89-6	
Lead	124 ug/L		25.0	1	04/11/14 13:00	04/11/14 14:56	7439-92-1	
Nickel	128 ug/L		25.0	1	04/11/14 13:00	04/11/14 14:56	7440-02-0	
Selenium	ND ug/L		75.0	1	04/11/14 13:00	04/11/14 14:56	7782-49-2	
Silver	ND ug/L		35.0	1	04/11/14 13:00	04/11/14 14:56	7440-22-4	
Thallium	ND ug/L		100	1	04/11/14 13:00	04/11/14 14:56	7440-28-0	
Zinc	5780 ug/L		500	2	04/11/14 13:00	04/11/14 14:59	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1150 ug/L		750	2	04/10/14 18:40	04/11/14 13:02	7429-90-5	
Antimony, Dissolved	ND ug/L		100	2	04/10/14 18:40	04/11/14 13:02	7440-36-0	D3
Arsenic, Dissolved	837 ug/L		50.0	1	04/10/14 18:40	04/11/14 12:58	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	04/10/14 18:40	04/11/14 12:58	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	04/10/14 18:40	04/11/14 12:58	7440-43-9	
Chromium, Dissolved	164 ug/L		25.0	1	04/10/14 18:40	04/11/14 12:58	7440-47-3	
Cobalt, Dissolved	29.8 ug/L		25.0	1	04/10/14 18:40	04/11/14 12:58	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	04/10/14 18:40	04/11/14 12:58	7440-50-8	
Iron, Dissolved	376000 ug/L		250	1	04/10/14 18:40	04/11/14 12:58	7439-89-6	
Lead, Dissolved	54.6 ug/L		25.0	1	04/10/14 18:40	04/11/14 12:58	7439-92-1	
Nickel, Dissolved	84.6 ug/L		25.0	1	04/10/14 18:40	04/11/14 12:58	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	04/10/14 18:40	04/11/14 12:58	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	04/10/14 18:40	04/11/14 12:58	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	04/10/14 18:40	04/11/14 12:58	7440-28-0	
Zinc, Dissolved	5170 ug/L		500	2	04/10/14 18:40	04/11/14 13:02	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	29.6 ug/L		6.0	1	04/11/14 09:45	04/11/14 15:07	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	04/11/14 09:45	04/11/14 00:00	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	04/09/14 00:00	04/10/14 19:33	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	04/09/14 00:00	04/10/14 19:33	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	04/09/14 00:00	04/10/14 19:33	77-47-4	
Hexachloroethane	ND ug/L		1000	2	04/09/14 00:00	04/10/14 19:33	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	04/09/14 00:00	04/10/14 19:33	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	8230 ug/L		4000	2	04/09/14 00:00	04/10/14 19:33		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-264

Pace Project No.: 60166589

Sample: 316-264		Lab ID: 60166589001	Collected: 04/08/14 09:28	Received: 04/09/14 02:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	3160 ug/L		1000	2	04/09/14 00:00	04/10/14 19:33	91-20-3	
Nitrobenzene	ND ug/L		1000	2	04/09/14 00:00	04/10/14 19:33	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	04/09/14 00:00	04/10/14 19:33	87-86-5	
Phenol	11200 ug/L		1000	2	04/09/14 00:00	04/10/14 19:33	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	04/09/14 00:00	04/10/14 19:33	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	04/09/14 00:00	04/10/14 19:33	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	166 %		33-120	2	04/09/14 00:00	04/10/14 19:33	4165-60-0	S0
2-Fluorobiphenyl (S)	105 %		39-120	2	04/09/14 00:00	04/10/14 19:33	321-60-8	
Terphenyl-d14 (S)	120 %		45-120	2	04/09/14 00:00	04/10/14 19:33	1718-51-0	
Phenol-d6 (S)	40 %		11-120	2	04/09/14 00:00	04/10/14 19:33	13127-88-3	
2-Fluorophenol (S)	54 %		17-120	2	04/09/14 00:00	04/10/14 19:33	367-12-4	
2,4,6-Tribromophenol (S)	113 %		39-120	2	04/09/14 00:00	04/10/14 19:33	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	220000 ug/L		2500	250		04/10/14 21:03	67-64-1	L1,N2
Benzene	ND ug/L		250	250		04/10/14 21:03	71-43-2	
Bromodichloromethane	ND ug/L		250	250		04/10/14 21:03	75-27-4	
Bromoform	ND ug/L		250	250		04/10/14 21:03	75-25-2	
Bromomethane	ND ug/L		1250	250		04/10/14 21:03	74-83-9	
2-Butanone (MEK)	88100 ug/L		2500	250		04/10/14 21:03	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		04/10/14 21:03	56-23-5	
Chloroethane	ND ug/L		250	250		04/10/14 21:03	75-00-3	
Chloroform	ND ug/L		250	250		04/10/14 21:03	67-66-3	
1,4-Dichlorobenzene	996 ug/L		250	250		04/10/14 21:03	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		04/10/14 21:03	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		04/10/14 21:03	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		04/10/14 21:03	156-60-5	
Ethylbenzene	ND ug/L		250	250		04/10/14 21:03	100-41-4	
Methylene chloride	ND ug/L		250	250		04/10/14 21:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		04/10/14 21:03	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		04/10/14 21:03	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		04/10/14 21:03	127-18-4	
Toluene	ND ug/L		250	250		04/10/14 21:03	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		04/10/14 21:03	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		04/10/14 21:03	79-00-5	
Trichloroethene	ND ug/L		250	250		04/10/14 21:03	79-01-6	
Vinyl chloride	ND ug/L		250	250		04/10/14 21:03	75-01-4	
Xylene (Total)	ND ug/L		750	250		04/10/14 21:03	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	96 %		80-120	250		04/10/14 21:03	460-00-4	S2
Toluene-d8 (S)	92 %		80-120	250		04/10/14 21:03	2037-26-5	
1,2-Dichloroethane-d4 (S)	130 %		80-120	250		04/10/14 21:03	17060-07-0	S0
Preservation pH	6.0		1.0	250		04/10/14 21:03		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1310 mg/L		5.0	1		04/12/14 07:36		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-264

Pace Project No.: 60166589

Sample: 316-264		Lab ID: 60166589001	Collected: 04/08/14 09:28	Received: 04/09/14 02:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	10.4	mg/L	5.0	1		04/14/14 13:42		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.3	Std. Units	0.10	1		04/09/14 15:10		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	27500	mg/L	2.0	1	04/09/14 13:34	04/14/14 10:58		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	587	mg/L	20.0	200		04/10/14 12:37	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	70000	mg/L	5000	500		04/15/14 15:13		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-264

Pace Project No.: 60166589

Sample: 316-264 [TSS]		Lab ID: 60166589002	Collected: 04/08/14 09:28	Received: 04/09/14 02:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	4260	mg/L	5.0	1		04/09/14 12:37		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-264

Pace Project No.: 60166589

Sample: TRIP BLANK		Lab ID: 60166589003	Collected: 04/08/14 00:00	Received: 04/09/14 02:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		04/09/14 18:24	67-64-1	L1,N2
Benzene	ND ug/L		1.0	1		04/09/14 18:24	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/09/14 18:24	75-27-4	
Bromoform	ND ug/L		1.0	1		04/09/14 18:24	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/09/14 18:24	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/09/14 18:24	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		04/09/14 18:24	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/09/14 18:24	75-00-3	
Chloroform	ND ug/L		1.0	1		04/09/14 18:24	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/09/14 18:24	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/09/14 18:24	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/09/14 18:24	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/09/14 18:24	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/09/14 18:24	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/09/14 18:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/09/14 18:24	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/09/14 18:24	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/09/14 18:24	127-18-4	
Toluene	ND ug/L		1.0	1		04/09/14 18:24	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/09/14 18:24	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/09/14 18:24	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/09/14 18:24	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/09/14 18:24	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/09/14 18:24	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	95 %		80-120	1		04/09/14 18:24	460-00-4	
Toluene-d8 (S)	89 %		80-120	1		04/09/14 18:24	2037-26-5	
1,2-Dichloroethane-d4 (S)	98 %		80-120	1		04/09/14 18:24	17060-07-0	
Preservation pH	6.0		1.0	1		04/09/14 18:24		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-264

Pace Project No.: 60166589

QC Batch: MERP/8296

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60166589001

METHOD BLANK: 1358877

Matrix: Water

Associated Lab Samples: 60166589001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/11/14 14:38	

LABORATORY CONTROL SAMPLE: 1358878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1358879 1358880

Parameter	Units	60166481001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	14.5	150	150	101	118	58	69	70-130	16	20	M1

MATRIX SPIKE SAMPLE: 1358881

Parameter	Units	60166482001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	17.1	150	116	66	70-130	M1

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-264

Pace Project No.: 60166589

QC Batch:	MERP/8295	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60166589001		

METHOD BLANK: 1358795 Matrix: Water
Associated Lab Samples: 60166589001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/11/14 15:20	

LABORATORY CONTROL SAMPLE: 1358796

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.7	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1358797 1358798

Parameter	Units	60166481001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	119	118	79	79	70-130	1	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-264
Pace Project No.: 60166589

QC Batch:	MPRP/26793	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
Associated Lab Samples:	60166589001		

METHOD BLANK: 1358824 Matrix: Water
Associated Lab Samples: 60166589001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/11/14 14:15	
Antimony	ug/L	ND	10.0	04/11/14 14:15	
Arsenic	ug/L	ND	10.0	04/11/14 14:15	
Beryllium	ug/L	ND	1.0	04/11/14 14:15	
Cadmium	ug/L	ND	5.0	04/11/14 14:15	
Chromium	ug/L	ND	5.0	04/11/14 14:15	
Cobalt	ug/L	ND	5.0	04/11/14 14:15	
Copper	ug/L	ND	10.0	04/11/14 14:15	
Iron	ug/L	ND	50.0	04/11/14 14:15	
Lead	ug/L	ND	5.0	04/11/14 14:15	
Nickel	ug/L	ND	5.0	04/11/14 14:15	
Selenium	ug/L	ND	15.0	04/11/14 14:15	
Silver	ug/L	ND	7.0	04/11/14 14:15	
Thallium	ug/L	ND	20.0	04/11/14 14:15	
Zinc	ug/L	ND	50.0	04/11/14 14:15	

LABORATORY CONTROL SAMPLE: 1358825

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9920	99	85-115	
Antimony	ug/L	1000	1080	108	85-115	
Arsenic	ug/L	1000	983	98	85-115	
Beryllium	ug/L	1000	991	99	85-115	
Cadmium	ug/L	1000	985	98	85-115	
Chromium	ug/L	1000	939	94	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	9390	94	85-115	
Lead	ug/L	1000	991	99	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1040	104	85-115	
Silver	ug/L	500	488	98	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	922	92	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1358826 1358827

Parameter	Units	60166588002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	13100	50000	50000	69800	68600	114	111	70-130	2	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-264

Pace Project No.: 60166589

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1358826 1358827											
Parameter	Units	60166588002		MS	MSD	MS		MSD	% Rec		Max
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	RPD
Antimony	ug/L	ND	5000	5000	5000	5680	5580	112	110	70-130	2
Arsenic	ug/L	1010	5000	5000	5000	6600	6580	112	111	70-130	0
Beryllium	ug/L	ND	5000	5000	5000	4680	4670	94	93	70-130	0
Cadmium	ug/L	ND	5000	5000	5000	5220	5200	104	104	70-130	0
Chromium	ug/L	230	5000	5000	5000	4770	4730	91	90	70-130	1
Cobalt	ug/L	44.9	5000	5000	5000	4830	4820	96	95	70-130	0
Copper	ug/L	ND	5000	5000	5000	5580	5530	111	110	70-130	1
Iron	ug/L	626000	50000	50000	50000	664000	666000	77	79	70-130	0
Lead	ug/L	104	5000	5000	5000	4450	4430	87	87	70-130	0
Nickel	ug/L	126	5000	5000	5000	4840	4860	94	95	70-130	0
Selenium	ug/L	90.0	5000	5000	5000	6420	6500	127	128	70-130	1
Silver	ug/L	ND	2500	2500	2500	2660	2650	106	106	70-130	1
Thallium	ug/L	ND	5000	5000	5000	4230	4200	85	84	70-130	1
Zinc	ug/L	5300	5000	5000	5000	9650	9580	87	86	70-130	1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-264
Pace Project No.: 60166589

QC Batch:	MPRP/26792	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60166589001		

METHOD BLANK: 1358631 Matrix: Water
Associated Lab Samples: 60166589001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/11/14 11:15	
Antimony, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Arsenic, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Beryllium, Dissolved	ug/L	ND	1.0	04/11/14 11:15	
Cadmium, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Chromium, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Cobalt, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Copper, Dissolved	ug/L	ND	10.0	04/11/14 11:15	
Iron, Dissolved	ug/L	ND	50.0	04/11/14 11:15	
Lead, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Nickel, Dissolved	ug/L	ND	5.0	04/11/14 11:15	
Selenium, Dissolved	ug/L	ND	15.0	04/11/14 11:15	
Silver, Dissolved	ug/L	ND	7.0	04/11/14 11:15	
Thallium, Dissolved	ug/L	ND	20.0	04/11/14 11:15	
Zinc, Dissolved	ug/L	ND	50.0	04/11/14 11:15	

LABORATORY CONTROL SAMPLE: 1358632

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9940	99	85-115	
Antimony, Dissolved	ug/L	1000	1050	105	85-115	
Arsenic, Dissolved	ug/L	1000	979	98	85-115	
Beryllium, Dissolved	ug/L	1000	1030	103	85-115	
Cadmium, Dissolved	ug/L	1000	994	99	85-115	
Chromium, Dissolved	ug/L	1000	971	97	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	10000	100	85-115	
Lead, Dissolved	ug/L	1000	1010	101	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1030	103	85-115	
Silver, Dissolved	ug/L	500	497	99	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	973	97	85-115	

MATRIX SPIKE SAMPLE: 1358633

Parameter	Units	60166517001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	ND	10000	9990	100	70-130	
Antimony, Dissolved	ug/L	ND	1000	1120	112	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-264

Pace Project No.: 60166589

MATRIX SPIKE SAMPLE:		1358633					
Parameter	Units	60166517001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	ND	1000	1050	105	70-130	
Beryllium, Dissolved	ug/L	ND	1000	1010	101	70-130	
Cadmium, Dissolved	ug/L	ND	1000	1030	103	70-130	
Chromium, Dissolved	ug/L	ND	1000	952	95	70-130	
Cobalt, Dissolved	ug/L	ND	1000	1010	101	70-130	
Copper, Dissolved	ug/L	ND	1000	1060	106	70-130	
Iron, Dissolved	ug/L	ND	10000	9690	97	70-130	
Lead, Dissolved	ug/L	ND	1000	972	97	70-130	
Nickel, Dissolved	ug/L	ND	1000	1010	101	70-130	
Selenium, Dissolved	ug/L	ND	1000	1090	109	70-130	
Silver, Dissolved	ug/L	ND	500	516	103	70-130	
Thallium, Dissolved	ug/L	ND	1000	964	96	70-130	
Zinc, Dissolved	ug/L	ND	1000	934	93	70-130	

MATRIX SPIKE SAMPLE:		1358634					
Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	1010	50000	50900	100	70-130	
Antimony, Dissolved	ug/L	ND	5000	6390	126	70-130	
Arsenic, Dissolved	ug/L	798	5000	6320	110	70-130	
Beryllium, Dissolved	ug/L	ND	5000	4890	98	70-130	
Cadmium, Dissolved	ug/L	ND	5000	5290	106	70-130	
Chromium, Dissolved	ug/L	154	5000	4870	94	70-130	
Cobalt, Dissolved	ug/L	27.1	5000	4960	99	70-130	
Copper, Dissolved	ug/L	ND	5000	5560	111	70-130	
Iron, Dissolved	ug/L	355000	50000	402000	96	70-130	
Lead, Dissolved	ug/L	40.6	5000	4630	92	70-130	
Nickel, Dissolved	ug/L	80.0	5000	4990	98	70-130	
Selenium, Dissolved	ug/L	ND	5000	6300	125	70-130	
Silver, Dissolved	ug/L	ND	2500	2720	108	70-130	
Thallium, Dissolved	ug/L	ND	5000	4430	89	70-130	
Zinc, Dissolved	ug/L	3550	5000	9280	115	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-264
Pace Project No.: 60166589

QC Batch:	MSV/60683	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60166589003		

METHOD BLANK: 1357477 Matrix: Water
Associated Lab Samples: 60166589003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/09/14 14:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/09/14 14:29	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/09/14 14:29	
1,2-Dichloroethane	ug/L	ND	1.0	04/09/14 14:29	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/09/14 14:29	
2-Butanone (MEK)	ug/L	ND	10.0	04/09/14 14:29	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/09/14 14:29	N2
Acetone	ug/L	ND	10.0	04/09/14 14:29	N2
Benzene	ug/L	ND	1.0	04/09/14 14:29	
Bromodichloromethane	ug/L	ND	1.0	04/09/14 14:29	
Bromoform	ug/L	ND	1.0	04/09/14 14:29	
Bromomethane	ug/L	ND	5.0	04/09/14 14:29	
Carbon tetrachloride	ug/L	ND	1.0	04/09/14 14:29	
Chloroethane	ug/L	ND	1.0	04/09/14 14:29	
Chloroform	ug/L	ND	1.0	04/09/14 14:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/09/14 14:29	N2
Ethylbenzene	ug/L	ND	1.0	04/09/14 14:29	
Methylene chloride	ug/L	ND	1.0	04/09/14 14:29	
Tetrachloroethene	ug/L	ND	1.0	04/09/14 14:29	
Toluene	ug/L	ND	1.0	04/09/14 14:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/09/14 14:29	
Trichloroethene	ug/L	ND	1.0	04/09/14 14:29	
Vinyl chloride	ug/L	ND	1.0	04/09/14 14:29	
Xylene (Total)	ug/L	ND	3.0	04/09/14 14:29	N2
1,2-Dichloroethane-d4 (S)	%	102	80-120	04/09/14 14:29	
4-Bromofluorobenzene (S)	%	103	80-120	04/09/14 14:29	
Toluene-d8 (S)	%	101	80-120	04/09/14 14:29	

LABORATORY CONTROL SAMPLE: 1357478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.5	98	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.2	101	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.1	95	67-124	
1,2-Dichloroethane	ug/L	20	19.5	97	70-126	
1,4-Dichlorobenzene	ug/L	20	18.6	93	74-120	
2-Butanone (MEK)	ug/L	100	142	142	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	102	102	59-131	N2
Acetone	ug/L	100	182	182	38-134	L0,N2
Benzene	ug/L	20	19.1	95	75-120	
Bromodichloromethane	ug/L	20	20.0	100	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-264

Pace Project No.: 60166589

LABORATORY CONTROL SAMPLE: 1357478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.0	100	65-127	
Bromomethane	ug/L	20	21.8	109	13-157	
Carbon tetrachloride	ug/L	20	19.5	98	70-131	
Chloroethane	ug/L	20	20.9	104	47-133	
Chloroform	ug/L	20	19.1	95	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.6	103	68-127	N2
Ethylbenzene	ug/L	20	18.8	94	74-122	
Methylene chloride	ug/L	20	20.0	100	64-129	
Tetrachloroethene	ug/L	20	19.1	96	73-125	
Toluene	ug/L	20	19.2	96	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.3	101	66-129	
Trichloroethene	ug/L	20	20.0	100	71-123	
Vinyl chloride	ug/L	20	23.2	116	43-129	
Xylene (Total)	ug/L	60	56.6	94	75-121	N2
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			107	80-120	
Toluene-d8 (S)	%			102	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-264
Pace Project No.: 60166589

QC Batch:	MSV/60719	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60166589001		

METHOD BLANK: 1358312 Matrix: Water
Associated Lab Samples: 60166589001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/10/14 19:28	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/10/14 19:28	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/10/14 19:28	
1,2-Dichloroethane	ug/L	ND	1.0	04/10/14 19:28	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/10/14 19:28	
2-Butanone (MEK)	ug/L	ND	10.0	04/10/14 19:28	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/10/14 19:28	N2
Acetone	ug/L	ND	10.0	04/10/14 19:28	N2
Benzene	ug/L	ND	1.0	04/10/14 19:28	
Bromodichloromethane	ug/L	ND	1.0	04/10/14 19:28	
Bromoform	ug/L	ND	1.0	04/10/14 19:28	
Bromomethane	ug/L	ND	5.0	04/10/14 19:28	
Carbon tetrachloride	ug/L	ND	1.0	04/10/14 19:28	
Chloroethane	ug/L	ND	1.0	04/10/14 19:28	
Chloroform	ug/L	ND	1.0	04/10/14 19:28	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/10/14 19:28	N2
Ethylbenzene	ug/L	ND	1.0	04/10/14 19:28	
Methylene chloride	ug/L	ND	1.0	04/10/14 19:28	
Tetrachloroethene	ug/L	ND	1.0	04/10/14 19:28	
Toluene	ug/L	ND	1.0	04/10/14 19:28	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/10/14 19:28	
Trichloroethene	ug/L	ND	1.0	04/10/14 19:28	
Vinyl chloride	ug/L	ND	1.0	04/10/14 19:28	
Xylene (Total)	ug/L	ND	3.0	04/10/14 19:28	N2
1,2-Dichloroethane-d4 (S)	%	96	80-120	04/10/14 19:28	
4-Bromofluorobenzene (S)	%	97	80-120	04/10/14 19:28	
Toluene-d8 (S)	%	89	80-120	04/10/14 19:28	

LABORATORY CONTROL SAMPLE: 1358313

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.7	88	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.6	103	67-127	N2
1,1,2-Trichloroethane	ug/L	20	22.7	114	67-124	
1,2-Dichloroethane	ug/L	20	17.8	89	70-126	
1,4-Dichlorobenzene	ug/L	20	19.9	100	74-120	
2-Butanone (MEK)	ug/L	100	119	119	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	91.0	91	59-131	N2
Acetone	ug/L	100	147	147	38-134	L0,N2
Benzene	ug/L	20	16.9	84	75-120	
Bromodichloromethane	ug/L	20	17.4	87	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-264

Pace Project No.: 60166589

LABORATORY CONTROL SAMPLE: 1358313

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.3	97	65-127	
Bromomethane	ug/L	20	12.5	62	13-157	
Carbon tetrachloride	ug/L	20	16.1	80	70-131	
Chloroethane	ug/L	20	17.2	86	47-133	
Chloroform	ug/L	20	17.6	88	65-127	
cis-1,2-Dichloroethene	ug/L	20	18.6	93	68-127	N2
Ethylbenzene	ug/L	20	20.9	104	74-122	
Methylene chloride	ug/L	20	18.4	92	64-129	
Tetrachloroethene	ug/L	20	21.7	108	73-125	
Toluene	ug/L	20	17.3	86	69-126	
trans-1,2-Dichloroethene	ug/L	20	18.5	92	66-129	
Trichloroethene	ug/L	20	18.9	95	71-123	
Vinyl chloride	ug/L	20	18.0	90	43-129	
Xylene (Total)	ug/L	60	62.3	104	75-121	N2
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			97	80-120	
Toluene-d8 (S)	%			90	80-120	

MATRIX SPIKE SAMPLE: 1358314

Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	10000	11500	115	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	10000	12200	122	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	10000	13800	138	52-143	
1,2-Dichloroethane	ug/L	ND	10000	11200	112	49-144	
1,4-Dichlorobenzene	ug/L	754	10000	11700	109	33-140	
2-Butanone (MEK)	ug/L	70900	50000	130000	118	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50000	56200	110	40-160	N2
Acetone	ug/L	176000	50000	224000	97	10-160	N2
Benzene	ug/L	ND	10000	11200	112	37-151	
Bromodichloromethane	ug/L	ND	10000	10900	109	35-142	
Bromoform	ug/L	ND	10000	12800	128	45-142	
Bromomethane	ug/L	ND	10000	7630	76	10-158	
Carbon tetrachloride	ug/L	ND	10000	11900	119	70-140	
Chloroethane	ug/L	ND	10000	11100	111	19-152	
Chloroform	ug/L	ND	10000	10700	107	51-138	
cis-1,2-Dichloroethene	ug/L	ND	10000	11900	119	34-147	N2
Ethylbenzene	ug/L	ND	10000	13000	130	40-142	
Methylene chloride	ug/L	ND	10000	11300	112	31-144	
Tetrachloroethene	ug/L	ND	10000	14000	140	64-148	
Toluene	ug/L	ND	10000	10800	108	47-150	
trans-1,2-Dichloroethene	ug/L	ND	10000	11800	118	54-151	
Trichloroethene	ug/L	ND	10000	11800	118	71-149	
Vinyl chloride	ug/L	ND	10000	12000	120	22-146	
Xylene (Total)	ug/L	ND	30000	38700	129	37-144	N2
1,2-Dichloroethane-d4 (S)	%				114	80-120	
4-Bromofluorobenzene (S)	%				93	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-264

Pace Project No.: 60166589

MATRIX SPIKE SAMPLE:		1358314					
Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%					91	80-120
Preservation pH		6.0		6.0			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-264
Pace Project No.: 60166589

QC Batch:	OEXT/43575	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60166589001		

METHOD BLANK: 1357780 Matrix: Water
Associated Lab Samples: 60166589001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/10/14 14:03	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/10/14 14:03	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/10/14 14:03	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/10/14 14:03	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/10/14 14:03	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/10/14 14:03	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/10/14 14:03	
Hexachloroethane	ug/L	ND	5.0	04/10/14 14:03	
Naphthalene	ug/L	ND	5.0	04/10/14 14:03	
Nitrobenzene	ug/L	ND	5.0	04/10/14 14:03	
Pentachlorophenol	ug/L	ND	5.0	04/10/14 14:03	
Phenol	ug/L	ND	5.0	04/10/14 14:03	
2,4,6-Tribromophenol (S)	%	100	39-120	04/10/14 14:03	
2-Fluorobiphenyl (S)	%	102	39-120	04/10/14 14:03	
2-Fluorophenol (S)	%	51	17-120	04/10/14 14:03	
Nitrobenzene-d5 (S)	%	101	33-120	04/10/14 14:03	
Phenol-d6 (S)	%	33	11-120	04/10/14 14:03	
Terphenyl-d14 (S)	%	103	45-120	04/10/14 14:03	

LABORATORY CONTROL SAMPLE: 1357781

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	46.9	94	46-120	
2,4,6-Trichlorophenol	ug/L	50	47.7	95	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	39.3	79	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	34.2	68	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	56.2	112	40-133	
Hexachloro-1,3-butadiene	ug/L	50	46.3	93	44-116	
Hexachlorocyclopentadiene	ug/L	100	88.8	89	24-120	
Hexachloroethane	ug/L	50	44.7	89	43-113	
Naphthalene	ug/L	50	47.4	95	48-120	
Nitrobenzene	ug/L	50	48.6	97	48-120	
Pentachlorophenol	ug/L	50	49.2	98	47-120	
Phenol	ug/L	50	19.7	39	16-112	
2,4,6-Tribromophenol (S)	%			98	39-120	
2-Fluorobiphenyl (S)	%			97	39-120	
2-Fluorophenol (S)	%			50	17-120	
Nitrobenzene-d5 (S)	%			98	33-120	
Phenol-d6 (S)	%			33	11-120	
Terphenyl-d14 (S)	%			101	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-264

Pace Project No.: 60166589

MATRIX SPIKE SAMPLE:		1357782					
Parameter	Units	60166588002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	4250	85	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4570	91	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	4740	95	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	8670	5000	11400	55	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	3520J	70	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4170	83	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	5400	54	11-120	
Hexachloroethane	ug/L	ND	5000	4420	88	40-113	
Naphthalene	ug/L	2960	5000	6670	74	45-120	
Nitrobenzene	ug/L	ND	5000	4320	86	38-120	
Pentachlorophenol	ug/L	ND	5000	4560	91	43-135	
Phenol	ug/L	11700	5000	12700	20	13-112	
2,4,6-Tribromophenol (S)	%				87	39-120	
2-Fluorobiphenyl (S)	%				93	39-120	
2-Fluorophenol (S)	%				50	17-120	
Nitrobenzene-d5 (S)	%				150	33-120	SO
Phenol-d6 (S)	%				35	11-120	
Terphenyl-d14 (S)	%				104	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-264

Pace Project No.: 60166589

QC Batch: WET/47271

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60166589001

METHOD BLANK: 1359406

Matrix: Water

Associated Lab Samples: 60166589001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/12/14 13:29	

LABORATORY CONTROL SAMPLE: 1359407

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	41.5	104	78-114	

MATRIX SPIKE SAMPLE: 1359410

Parameter	Units	60166245001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	41.2	42.5	101	78-114	

SAMPLE DUPLICATE: 1359411

Parameter	Units	60166267003 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	.83J		18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-264

Pace Project No.: 60166589

QC Batch: WET/47298

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60166589001

METHOD BLANK: 1360403

Matrix: Water

Associated Lab Samples: 60166589001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	04/14/14 13:39	

LABORATORY CONTROL SAMPLE: 1360404

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: 1360405

Parameter	Units	60166177002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	21.7	25.7	112	64-132	

SAMPLE DUPLICATE: 1360406

Parameter	Units	60166541001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	ND		34	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-264

Pace Project No.: 60166589

QC Batch: WET/47211

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60166589002

METHOD BLANK: 1357445

Matrix: Water

Associated Lab Samples: 60166589002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/09/14 12:36	

SAMPLE DUPLICATE: 1357446

Parameter	Units	60166588001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3660	3680	1	10	

SAMPLE DUPLICATE: 1357447

Parameter	Units	60166574002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3320	3260	2	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-264

Pace Project No.: 60166589

QC Batch:	WET/47218	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
Associated Lab Samples:	60166589001		

SAMPLE DUPLICATE: 1357727

Parameter	Units	60166481001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.3	5.4	1	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-264

Pace Project No.: 60166589

QC Batch: WET/47199

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60166589001

METHOD BLANK: 1357285

Matrix: Water

Associated Lab Samples: 60166589001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/14/14 09:27	

LABORATORY CONTROL SAMPLE: 1357286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	187	94	85-115	

SAMPLE DUPLICATE: 1357287

Parameter	Units	60166558001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	5.9	6.7	12	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-264

Pace Project No.: 60166589

QC Batch:	WETA/28972	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60166589001		

METHOD BLANK: 1357981 Matrix: Water
Associated Lab Samples: 60166589001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/10/14 12:03	

LABORATORY CONTROL SAMPLE: 1357982

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

MATRIX SPIKE SAMPLE: 1357983

Parameter	Units	60166333001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.7	86	90-110	M1

MATRIX SPIKE SAMPLE: 1357984

Parameter	Units	60166341003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.1	105	90-110	

SAMPLE DUPLICATE: 1357985

Parameter	Units	60166481001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	559	576	3	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-264

Pace Project No.: 60166589

QC Batch:	WETA/29023	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60166589001		

METHOD BLANK: 1360535 Matrix: Water
Associated Lab Samples: 60166589001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	04/15/14 15:03	

LABORATORY CONTROL SAMPLE: 1360536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	51.2	102	90-110	

MATRIX SPIKE SAMPLE: 1360537

Parameter	Units	60166434001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	6360	5000	13500	143	90-110	M1

MATRIX SPIKE SAMPLE: 1360539

Parameter	Units	60166553002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	1770	2500	5020	130	90-110	M1

SAMPLE DUPLICATE: 1360538

Parameter	Units	60166434005 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	1930	2370	20	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-264

Pace Project No.: 60166589

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/60683

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

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

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.

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.

S2 Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-264

Pace Project No.: 60166589

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60166589001	316-264	EPA 200.7	MPRP/26793	EPA 200.7	ICP/20359
60166589001	316-264	EPA 200.7	MPRP/26792	EPA 200.7	ICP/20356
60166589001	316-264	EPA 245.1	MERP/8296	EPA 245.1	MERC/8250
60166589001	316-264	EPA 245.1	MERP/8295	EPA 245.1	MERC/8251
60166589001	316-264	EPA 625	OEXT/43575	EPA 625	MSSV/13900
60166589001	316-264	EPA 624 Low	MSV/60719		
60166589003	TRIP BLANK	EPA 624 Low	MSV/60683		
60166589001	316-264	EPA 1664A	WET/47271		
60166589001	316-264	EPA 1664A	WET/47298		
60166589002	316-264 [TSS]	SM 2540D	WET/47211		
60166589001	316-264	SM 4500-H+B	WET/47218		
60166589001	316-264	SM 5210B	WET/47199	SM 5210B	WET/47295
60166589001	316-264	EPA 350.1	WETA/28972		
60166589001	316-264	EPA 410.4	WETA/29023		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60166589



Client Name: Barr

Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other AK 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 2 p/c

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: 4/9/14

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☒ Yes ☐ No ☐ N/A	6. <u>BOD PH</u>
Rush Turn Around Time requested:	☒ Yes ☐ No ☐ N/A	7. <u>Rush TSS</u>
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	
Pace containers used:	☒ Yes ☐ No ☐ N/A	9.
Containers intact:	☒ Yes ☐ No ☐ N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	11.
Filtered volume received for dissolved tests?	☐ Yes ☐ No ☒ N/A	12.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	<u>Added 2.5 ml of HNO3 to BP2V. PH 6.0/4.0</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	☒ Yes ☒ No ☐ N/A	<u>Added 2.0 ml of HNO3 to BP3S. PH 6.0/1.5</u>
Exceptions: <u>VOA</u> , coliform, TOC, <u>O&G</u> WI-DRO (water), Phenolics	☒ Yes ☐ No	Initial when completed <u>PC</u> Lot # of added preservative <u>12513</u>
Trip Blank present:	☒ Yes ☐ No ☐ N/A	
Pace Trip Blank lot # (if purchased): <u>cover</u>		15.
Headspace in VOA vials (>6mm):	☐ Yes ☒ No ☐ N/A	
		16.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ 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: 4/9/14

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

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

Section C

Invoice Information:

Page : 1 Of 1

Required Client Information:		Required Project 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	Client Project ID:	BRIDGETON LF	Pace Project Manager: Brown, Angie
Fax:		Container Order Number:		Pace Profile #: 6787 LINE 2
Requested Due Date/TAT:	10 Day (Default)			

[illegible]

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
SITE CONTACT: BILL ABERNATHY 314-502-1299	[Signature] FBI	4-8-14	2:50pm	[Signature] Fayette County Sheriff's Office	4-8-14	2:50pm	
SITE ADDRESS: BRIDGETON LF				[Signature] P&E	4/9/14	0200	2-y y x
13570 ST. CHARLES ROCK RD							
BRIDGETON MO 63044							

RUSH TPT ON TSS

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>William Abernathy</i>					
DATE Signed: 4/8/14					

April 18, 2014

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

RE: Project: BRIDGETON TCLP FILTER CAKE
Pace Project No.: 60166609

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 09, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166609

New Orleans Certification IDs

California Env. Lab Accreditation Program Branch:
11277CA

Florida Department of Health (NELAC): E87595

Illinois Environmental Protection Agency: 0025721

Kansas Department of Health and Environment (NELAC):
E-10266

Louisiana Dept. of Environmental Quality (NELAC/LELAP):
02006

Oklahoma Department of Environmental Quality: 2010-
139

Oregon Environmental Laboratory Accreditation:
LA200001

Pennsylvania Dept. of Env Protection (NELAC): 68-04202

Texas Commission on Env. Quality (NELAC):

T104704405-09-TX

U.S. Dept. of Agriculture Foreign Soil Import: P330-10-
00119

Washington Department of Ecology: C2078

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 TCLP FILTER CAKE

Pace Project No.: 60166609

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60166609001	BTF CAKE	Solid	04/08/14 09:16	04/09/14 02:00

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SAMPLE ANALYTE COUNT

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166609

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60166609001	BTF CAKE	EPA 8081A	SLF	9	PASI-N
		EPA 8082	JDH	8	PASI-K
		EPA 8151	SPP1	3	PASI-N
		EPA 6010	NDJ	7	PASI-K
		EPA 7470	TDS	1	PASI-K
		EPA 8270	JMT	18	PASI-K
		EPA 8260	JKL	13	PASI-K
		ASTM D2974	DWC	1	PASI-K
		SW-846 7.3.4.2	SMS2	1	PASI-N
		EPA 9045	NDL	1	PASI-K
		EPA 9095	AJM	1	PASI-K
		ASTM D92	DJR	1	PASI-K
		SW-846 7.3.3.2	LVA	1	PASI-N
		EPA 9023	JRP	1	PASI-N
		EPA 9065	LVA	1	PASI-N

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166609

Sample: BTF CAKE **Lab ID: 60166609001** Collected: 04/08/14 09:16 Received: 04/09/14 02:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8081 OCC Pesticide, TCLP SPE								
Analytical Method: EPA 8081A Preparation Method: EPA 3535								
Leachate Method/Date: EPA 1311; 04/11/14 17:00								
gamma-BHC (Lindane)	0.00080	mg/L	0.00050	1	04/14/14 10:56	04/17/14 15:02	58-89-9	C2
Chlordane (Technical)	ND	mg/L	0.0050	1	04/14/14 10:56	04/17/14 15:02	57-74-9	
Endrin	ND	mg/L	0.0010	1	04/14/14 10:56	04/17/14 15:02	72-20-8	
Heptachlor	0.0011	mg/L	0.00050	1	04/14/14 10:56	04/17/14 15:02	76-44-8	
Heptachlor epoxide	ND	mg/L	0.00050	1	04/14/14 10:56	04/17/14 15:02	1024-57-3	
Methoxychlor	ND	mg/L	0.0050	1	04/14/14 10:56	04/17/14 15:02	72-43-5	
Toxaphene	ND	mg/L	0.020	1	04/14/14 10:56	04/17/14 15:02	8001-35-2	
Surrogates								
Tetrachloro-m-xylene (S)	43 %		10-119	1	04/14/14 10:56	04/17/14 15:02	877-09-8	
Tetrachloro-m-xylene (S)	72 %		10-119	1	04/14/14 10:56	04/17/14 15:02	877-09-8	
Decachlorobiphenyl (S)	71 %		14-126	1	04/14/14 10:56	04/17/14 15:02	2051-24-3	
Decachlorobiphenyl (S)	80 %		14-126	1	04/14/14 10:56	04/17/14 15:02	2051-24-3	
8082 GCS PCB SW								
Analytical Method: EPA 8082 Preparation Method: EPA 3546								
PCB-1016 (Aroclor 1016)	ND	ug/kg	902	2	04/11/14 00:00	04/14/14 13:49	12674-11-2	M1
PCB-1221 (Aroclor 1221)	ND	ug/kg	1800	2	04/11/14 00:00	04/14/14 13:49	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	902	2	04/11/14 00:00	04/14/14 13:49	11141-16-5	
PCB-1242 (Aroclor 1242)	10600	ug/kg	902	2	04/11/14 00:00	04/14/14 13:49	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	902	2	04/11/14 00:00	04/14/14 13:49	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	451	1	04/11/14 00:00	04/14/14 12:05	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	451	1	04/11/14 00:00	04/14/14 12:05	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	70 %		38-119	1	04/11/14 00:00	04/14/14 12:05	2051-24-3	
8151A CI Herbicides TCLP								
Analytical Method: EPA 8151 Preparation Method: EPA 3535A								
Leachate Method/Date: EPA 1311; 04/11/14 17:00								
2,4-D	ND	mg/L	0.020	1	04/14/14 11:00	04/15/14 16:00	94-75-7	
2,4,5-TP (Silvex)	ND	mg/L	0.020	1	04/14/14 11:00	04/15/14 16:00	93-72-1	
Surrogates								
2,4-DCAA (S)	95 %		10-166	1	04/14/14 11:00	04/15/14 16:00	19719-28-9	
2,4-DCAA (S)	83 %		10-166	1	04/14/14 11:00	04/15/14 16:00	19719-28-9	
6010 MET ICP, TCLP								
Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Leachate Method/Date: EPA 1311; 04/11/14 00:00								
Arsenic	ND	mg/L	0.50	1	04/11/14 12:30	04/14/14 13:22	7440-38-2	
Barium	ND	mg/L	2.5	1	04/11/14 12:30	04/14/14 13:22	7440-39-3	
Cadmium	ND	mg/L	0.050	1	04/11/14 12:30	04/14/14 13:22	7440-43-9	
Chromium	ND	mg/L	0.10	1	04/11/14 12:30	04/14/14 13:22	7440-47-3	
Lead	ND	mg/L	0.50	1	04/11/14 12:30	04/14/14 13:22	7439-92-1	
Selenium	ND	mg/L	0.50	1	04/11/14 12:30	04/14/14 13:22	7782-49-2	
Silver	ND	mg/L	0.10	1	04/11/14 12:30	04/14/14 13:22	7440-22-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166609

Sample: BTF CAKE **Lab ID: 60166609001** Collected: 04/08/14 09:16 Received: 04/09/14 02:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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7470 Mercury, TCLP

Analytical Method: EPA 7470 Preparation Method: EPA 7470

Leachate Method/Date: EPA 1311; 04/11/14 00:00

Mercury	ND	mg/L	0.0020	1	04/14/14 10:00	04/14/14 14:16	7439-97-6	
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8270 MSSV TCLP Sep Funnel

Analytical Method: EPA 8270 Preparation Method: EPA 3510

Leachate Method/Date: EPA 1311; 04/11/14 00:00

1,4-Dichlorobenzene	ND	ug/L	500	5	04/14/14 00:00	04/14/14 12:51	106-46-7	
2,4-Dinitrotoluene	ND	ug/L	500	5	04/14/14 00:00	04/14/14 12:51	121-14-2	
Hexachloro-1,3-butadiene	ND	ug/L	500	5	04/14/14 00:00	04/14/14 12:51	87-68-3	
Hexachlorobenzene	ND	ug/L	500	5	04/14/14 00:00	04/14/14 12:51	118-74-1	
Hexachloroethane	ND	ug/L	500	5	04/14/14 00:00	04/14/14 12:51	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	500	5	04/14/14 00:00	04/14/14 12:51	95-48-7	
3&4-Methylphenol(m&p Cresol)	1100	ug/L	1000	5	04/14/14 00:00	04/14/14 12:51		
Nitrobenzene	ND	ug/L	500	5	04/14/14 00:00	04/14/14 12:51	98-95-3	
Pentachlorophenol	ND	ug/L	2500	5	04/14/14 00:00	04/14/14 12:51	87-86-5	
Pyridine	ND	ug/L	500	5	04/14/14 00:00	04/14/14 12:51	110-86-1	
2,4,5-Trichlorophenol	ND	ug/L	2500	5	04/14/14 00:00	04/14/14 12:51	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	500	5	04/14/14 00:00	04/14/14 12:51	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	125	%	44-120	5	04/14/14 00:00	04/14/14 12:51	4165-60-0	1e,S0
2-Fluorobiphenyl (S)	85	%	49-120	5	04/14/14 00:00	04/14/14 12:51	321-60-8	
Terphenyl-d14 (S)	81	%	52-122	5	04/14/14 00:00	04/14/14 12:51	1718-51-0	
Phenol-d6 (S)	83	%	36-120	5	04/14/14 00:00	04/14/14 12:51	13127-88-3	
2-Fluorophenol (S)	85	%	37-120	5	04/14/14 00:00	04/14/14 12:51	367-12-4	
2,4,6-Tribromophenol (S)	90	%	36-128	5	04/14/14 00:00	04/14/14 12:51	118-79-6	

8260 MSV TCLP

Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 04/11/14 00:00

Benzene	129	ug/L	50.0	1		04/13/14 18:18	71-43-2	
2-Butanone (MEK)	ND	ug/L	1000	1		04/13/14 18:18	78-93-3	L1
Carbon tetrachloride	ND	ug/L	50.0	1		04/13/14 18:18	56-23-5	
Chlorobenzene	ND	ug/L	50.0	1		04/13/14 18:18	108-90-7	
Chloroform	ND	ug/L	200	1		04/13/14 18:18	67-66-3	
1,2-Dichloroethane	ND	ug/L	50.0	1		04/13/14 18:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	1		04/13/14 18:18	75-35-4	
Tetrachloroethene	ND	ug/L	50.0	1		04/13/14 18:18	127-18-4	
Trichloroethene	ND	ug/L	50.0	1		04/13/14 18:18	79-01-6	
Vinyl chloride	ND	ug/L	20.0	1		04/13/14 18:18	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	90	%	80-120	1		04/13/14 18:18	17060-07-0	
Toluene-d8 (S)	99	%	80-120	1		04/13/14 18:18	2037-26-5	
4-Bromofluorobenzene (S)	101	%	80-120	1		04/13/14 18:18	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974

Percent Moisture	58.7	%	0.50	1		04/11/14 00:00		
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166609

Sample: BTF CAKE **Lab ID: 60166609001** Collected: 04/08/14 09:16 Received: 04/09/14 02:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Reactive Sulfide	Analytical Method: SW-846 7.3.4.2 Preparation Method: SW-846 7.3.4.2							
Sulfide, Reactive	ND	mg/kg	50.0	1	04/15/14 11:30	04/15/14 13:59		
9045 pH Soil	Analytical Method: EPA 9045							
pH at 25 Degrees C	11.7	Std. Units	0.10	1		04/10/14 15:00		H1
9095 Paint Filter Liquid Test	Analytical Method: EPA 9095							
Free Liquids	negative			1		04/11/14 12:05		
Flashpoint, Open Cup	Analytical Method: ASTM D92							
Flashpoint	>210	deg F		1		04/10/14 07:50		
733C S Reactive Cyanide	Analytical Method: SW-846 7.3.3.2 Preparation Method: SW-846 7.3.3.2							
Cyanide, Reactive	ND	mg/kg	25.0	1	04/15/14 11:30	04/16/14 10:36		
9023 Ext. Organic Halides EOX	Analytical Method: EPA 9023 Preparation Method: EPA 9023							
Extractable Organic Halogens	341	mg/kg	118	1	04/11/14 09:00	04/11/14 13:10		
9065 Phenolics, Total	Analytical Method: EPA 9065 Preparation Method: EPA 9065							
Phenolics, Total Recoverable	345	mg/kg	36.4	100	04/15/14 11:41	04/16/14 14:18		D6,M6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166609

QC Batch:	MERP/8297	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury TCLP
Associated Lab Samples:	60166609001		

METHOD BLANK: 1360139 Matrix: Water

Associated Lab Samples: 60166609001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	ND	0.0020	04/14/14 14:03	

LABORATORY CONTROL SAMPLE: 1360140

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.005	0.0042	85	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1360141 1360142

Parameter	Units	60166403001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	.015	.015	0.014	0.015	95	99	75-125	4	20	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166609

QC Batch: MPRP/26802

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET TCLP

Associated Lab Samples: 60166609001

METHOD BLANK: 1359125

Matrix: Water

Associated Lab Samples: 60166609001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.50	04/14/14 13:19	
Barium	mg/L	ND	2.5	04/14/14 13:19	
Cadmium	mg/L	ND	0.050	04/14/14 13:19	
Chromium	mg/L	ND	0.10	04/14/14 13:19	
Lead	mg/L	ND	0.50	04/14/14 13:19	
Selenium	mg/L	ND	0.50	04/14/14 13:19	
Silver	mg/L	ND	0.10	04/14/14 13:19	

LABORATORY CONTROL SAMPLE: 1359126

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	1	0.95	95	80-120	
Barium	mg/L	1	0.98	98	80-120	
Cadmium	mg/L	1	0.96	96	80-120	
Chromium	mg/L	1	1.0	101	80-120	
Lead	mg/L	1	1.0	101	80-120	
Selenium	mg/L	1	0.94	94	80-120	
Silver	mg/L	.5	0.48	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1359127 1359128

Parameter	Units	60166609001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	10	10	9.9	10.1	98	101	75-125	2	20	
Barium	mg/L	ND	10	10	10	10.2	97	100	75-125	3	20	
Cadmium	mg/L	ND	10	10	9.7	10.0	97	100	75-125	3	20	
Chromium	mg/L	ND	10	10	9.9	10.2	99	102	75-125	3	20	
Lead	mg/L	ND	10	10	9.5	9.8	95	98	75-125	3	20	
Selenium	mg/L	ND	10	10	9.9	10.2	99	102	75-125	3	20	
Silver	mg/L	ND	5	5	4.9	5.1	98	101	75-125	3	20	

MATRIX SPIKE SAMPLE: 1359131

Parameter	Units	60166403001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	ND	10	10	100	75-125	
Barium	mg/L	ND	10	11.4	100	75-125	
Cadmium	mg/L	ND	10	10	100	75-125	
Chromium	mg/L	ND	10	10.2	101	75-125	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166609

MATRIX SPIKE SAMPLE:		1359131					
		60166403001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Lead	mg/L	ND	10	9.8	98	75-125	
Selenium	mg/L	ND	10	10.0	100	75-125	
Silver	mg/L	ND	5	5.0	101	75-125	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166609

QC Batch: MSV/60761

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV TCLP

Associated Lab Samples: 60166609001

METHOD BLANK: 1360063

Matrix: Water

Associated Lab Samples: 60166609001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	04/13/14 18:02	
1,2-Dichloroethane	ug/L	ND	50.0	04/13/14 18:02	
2-Butanone (MEK)	ug/L	ND	1000	04/13/14 18:02	
Benzene	ug/L	ND	50.0	04/13/14 18:02	
Carbon tetrachloride	ug/L	ND	50.0	04/13/14 18:02	
Chlorobenzene	ug/L	ND	50.0	04/13/14 18:02	
Chloroform	ug/L	ND	200	04/13/14 18:02	
Tetrachloroethene	ug/L	ND	50.0	04/13/14 18:02	
Trichloroethene	ug/L	ND	50.0	04/13/14 18:02	
Vinyl chloride	ug/L	ND	20.0	04/13/14 18:02	
1,2-Dichloroethane-d4 (S)	%	91	80-120	04/13/14 18:02	
4-Bromofluorobenzene (S)	%	95	80-120	04/13/14 18:02	
Toluene-d8 (S)	%	98	80-120	04/13/14 18:02	

LABORATORY CONTROL SAMPLE: 1360064

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	1000	1010	101	78-126	
1,2-Dichloroethane	ug/L	1000	934	93	77-123	
2-Butanone (MEK)	ug/L	5000	8360	167	52-145 L0	
Benzene	ug/L	1000	930	93	80-120	
Carbon tetrachloride	ug/L	1000	811	81	78-128	
Chlorobenzene	ug/L	1000	1020	102	80-120	
Chloroform	ug/L	1000	839	84	79-120	
Tetrachloroethene	ug/L	1000	1140	114	80-121	
Trichloroethene	ug/L	1000	1030	103	80-120	
Vinyl chloride	ug/L	1000	973	97	59-120	
1,2-Dichloroethane-d4 (S)	%			91	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			102	80-120	

MATRIX SPIKE SAMPLE: 1360065

Parameter	Units	60166718001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	1000	979	98	60-144	
1,2-Dichloroethane	ug/L	ND	1000	975	97	49-148	
2-Butanone (MEK)	ug/L	ND	5000	3990	79	36-145	
Benzene	ug/L	ND	1000	948	95	37-157	
Carbon tetrachloride	ug/L	ND	1000	865	87	68-142	
Chlorobenzene	ug/L	ND	1000	1040	104	66-133	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166609

MATRIX SPIKE SAMPLE:		1360065					
Parameter	Units	60166718001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloroform	ug/L	ND	1000	884	88	66-127	
Tetrachloroethene	ug/L	ND	1000	1160	116	69-133	
Trichloroethene	ug/L	ND	1000	1030	103	61-135	
Vinyl chloride	ug/L	ND	1000	871	87	44-128	
1,2-Dichloroethane-d4 (S)	%				93	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	
Toluene-d8 (S)	%				100	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166609

QC Batch:	OEXT/1265	Analysis Method:	EPA 8081A
QC Batch Method:	EPA 3535	Analysis Description:	8081A GCS TCLP Pesticides
Associated Lab Samples:	60166609001		

METHOD BLANK: 8411 Matrix: Water

Associated Lab Samples: 60166609001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chlordane (Technical)	mg/L	ND	0.0050	04/17/14 11:25	
Endrin	mg/L	ND	0.0010	04/17/14 11:25	
gamma-BHC (Lindane)	mg/L	ND	0.00050	04/17/14 11:25	
Heptachlor	mg/L	ND	0.00050	04/17/14 11:25	
Heptachlor epoxide	mg/L	ND	0.00050	04/17/14 11:25	
Methoxychlor	mg/L	ND	0.0050	04/17/14 11:25	
Toxaphene	mg/L	ND	0.020	04/17/14 11:25	
Decachlorobiphenyl (S)	%	72	14-126	04/17/14 11:25	
Decachlorobiphenyl (S)	%	73	14-126	04/17/14 11:25	
Tetrachloro-m-xylene (S)	%	39	10-119	04/17/14 11:25	
Tetrachloro-m-xylene (S)	%	40	10-119	04/17/14 11:25	

METHOD BLANK: 8575 Matrix: Water

Associated Lab Samples: 60166609001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chlordane (Technical)	mg/L	ND	0.0050	04/17/14 11:54	
Endrin	mg/L	ND	0.0010	04/17/14 11:54	
gamma-BHC (Lindane)	mg/L	ND	0.00050	04/17/14 11:54	
Heptachlor	mg/L	ND	0.00050	04/17/14 11:54	
Heptachlor epoxide	mg/L	ND	0.00050	04/17/14 11:54	
Methoxychlor	mg/L	ND	0.0050	04/17/14 11:54	
Toxaphene	mg/L	ND	0.020	04/17/14 11:54	
Decachlorobiphenyl (S)	%	64	14-126	04/17/14 11:54	
Decachlorobiphenyl (S)	%	68	14-126	04/17/14 11:54	
Tetrachloro-m-xylene (S)	%	36	10-119	04/17/14 11:54	

LABORATORY CONTROL SAMPLE: 8727

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endrin	mg/L	.005	0.0035	70	20-153	
gamma-BHC (Lindane)	mg/L	.005	0.0035	70	28-128	
Heptachlor	mg/L	.005	0.0028	57	10-115	
Heptachlor epoxide	mg/L	.005	0.0035	69	30-119	
Methoxychlor	mg/L	.005	ND	48	21-150	
Decachlorobiphenyl (S)	%			79	14-126	
Decachlorobiphenyl (S)	%			78	14-126	
Tetrachloro-m-xylene (S)	%			46	10-119	
Tetrachloro-m-xylene (S)	%			44	10-119	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166609

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			8745		8746							
Parameter	Units	202050003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Endrin	mg/L	ND	.005	.005	0.0042	0.0051	80	98	22-160	19	20	
gamma-BHC (Lindane)	mg/L	ND	.005	.005	0.0037	0.0042	75	84	17-149	12	20	
Heptachlor	mg/L	ND	.005	.005	0.0029	0.0033	59	66	10-134	12	20	
Heptachlor epoxide	mg/L	ND	.005	.005	0.0036	0.0040	70	77	13-147	10	20	
Methoxychlor	mg/L	ND	.005	.005	.0044J	0.0057	81	108	17-166		20	
Decachlorobiphenyl (S)	%						89	94	14-126			
Decachlorobiphenyl (S)	%						78	83	14-126			
Tetrachloro-m-xylene (S)	%						42	46	10-119			
Tetrachloro-m-xylene (S)	%						37	43	10-119			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166609

QC Batch: OEXT/43617

Analysis Method: EPA 8082

QC Batch Method: EPA 3546

Analysis Description: 8082 GCS PCB

Associated Lab Samples: 60166609001

METHOD BLANK: 1359092

Matrix: Solid

Associated Lab Samples: 60166609001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	32.9	04/14/14 10:01	
PCB-1221 (Aroclor 1221)	ug/kg	ND	65.9	04/14/14 10:01	
PCB-1232 (Aroclor 1232)	ug/kg	ND	32.9	04/14/14 10:01	
PCB-1242 (Aroclor 1242)	ug/kg	ND	32.9	04/14/14 10:01	
PCB-1248 (Aroclor 1248)	ug/kg	ND	32.9	04/14/14 10:01	
PCB-1254 (Aroclor 1254)	ug/kg	ND	32.9	04/14/14 10:01	
PCB-1260 (Aroclor 1260)	ug/kg	ND	32.9	04/14/14 10:01	
Decachlorobiphenyl (S)	%	67	38-119	04/14/14 10:01	

LABORATORY CONTROL SAMPLE: 1359093

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	165	138	84	71-122	
PCB-1260 (Aroclor 1260)	ug/kg	165	137	83	75-117	
Decachlorobiphenyl (S)	%			80	38-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1359094 1359095

Parameter	Units	60166609001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	ND	2230	2050	14200	12100	639	590	20-160	16	35	M1
PCB-1260 (Aroclor 1260)	ug/kg	ND	2230	2050	2270	1900	102	93	17-160	18	34	
Decachlorobiphenyl (S)	%						75	70	38-119			

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166609

QC Batch:	OEXT/1267	Analysis Method:	EPA 8151
QC Batch Method:	EPA 3535A	Analysis Description:	8151 GCS TCLP Herbicides
Associated Lab Samples:	60166609001		

METHOD BLANK: 8411 Matrix: Water

Associated Lab Samples: 60166609001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	mg/L	ND	0.020	04/15/14 11:26	
2,4-D	mg/L	ND	0.020	04/15/14 11:26	
2,4-DCAA (S)	%.	76	10-166	04/15/14 11:26	
2,4-DCAA (S)	%.	88	10-166	04/15/14 11:26	

METHOD BLANK: 8575 Matrix: Water

Associated Lab Samples: 60166609001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	mg/L	ND	0.020	04/15/14 11:58	
2,4-D	mg/L	ND	0.020	04/15/14 11:58	
2,4-DCAA (S)	%.	77	10-166	04/15/14 11:58	
2,4-DCAA (S)	%.	88	10-166	04/15/14 11:58	

LABORATORY CONTROL SAMPLE: 8733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	mg/L	.04	0.025	63	22-158	
2,4-D	mg/L	.04	0.024	60	10-151	
2,4-DCAA (S)	%.			105	10-166	
2,4-DCAA (S)	%.			90	10-166	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 8734 8735

Parameter	Units	202050001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4,5-TP (Silvex)	mg/L	ND	.04	.04	0.032	0.027	81	67	16-164	19	20	
2,4-D	mg/L	ND	.04	.04	0.038	0.031	90	73	10-160	20	20	
2,4-DCAA (S)	%.						101	83	10-166			
2,4-DCAA (S)	%.						94	75	10-166			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166609

QC Batch: OEXT/43627

Analysis Method: EPA 8270

QC Batch Method: EPA 3510

Analysis Description: 8270 TCLP MSSV

Associated Lab Samples: 60166609001

METHOD BLANK: 1360074

Matrix: Water

Associated Lab Samples: 60166609001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	100	04/14/14 11:49	
2,4,5-Trichlorophenol	ug/L	ND	500	04/14/14 11:49	
2,4,6-Trichlorophenol	ug/L	ND	100	04/14/14 11:49	
2,4-Dinitrotoluene	ug/L	ND	100	04/14/14 11:49	
2-Methylphenol(o-Cresol)	ug/L	ND	100	04/14/14 11:49	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	200	04/14/14 11:49	
Hexachloro-1,3-butadiene	ug/L	ND	100	04/14/14 11:49	
Hexachlorobenzene	ug/L	ND	100	04/14/14 11:49	
Hexachloroethane	ug/L	ND	100	04/14/14 11:49	
Nitrobenzene	ug/L	ND	100	04/14/14 11:49	
Pentachlorophenol	ug/L	ND	500	04/14/14 11:49	
Pyridine	ug/L	ND	100	04/14/14 11:49	
2,4,6-Tribromophenol (S)	%	104	36-128	04/14/14 11:49	
2-Fluorobiphenyl (S)	%	95	49-120	04/14/14 11:49	
2-Fluorophenol (S)	%	84	37-120	04/14/14 11:49	
Nitrobenzene-d5 (S)	%	99	44-120	04/14/14 11:49	
Phenol-d6 (S)	%	80	36-120	04/14/14 11:49	
Terphenyl-d14 (S)	%	103	52-122	04/14/14 11:49	

LABORATORY CONTROL SAMPLE: 1360075

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	500	407	81	47-120	
2,4,5-Trichlorophenol	ug/L	500	445J	89	51-124	
2,4,6-Trichlorophenol	ug/L	500	438	88	46-120	
2,4-Dinitrotoluene	ug/L	500	396	79	38-120	
2-Methylphenol(o-Cresol)	ug/L	500	385	77	46-120	
3&4-Methylphenol(m&p Cresol)	ug/L	1000	764	76	41-120	
Hexachloro-1,3-butadiene	ug/L	500	388	78	49-120	
Hexachlorobenzene	ug/L	500	406	81	50-120	
Hexachloroethane	ug/L	500	374	75	38-120	
Nitrobenzene	ug/L	500	432	86	49-120	
Pentachlorophenol	ug/L	500	440J	88	35-125	
Pyridine	ug/L	500	278	56	10-120	
2,4,6-Tribromophenol (S)	%			88	36-128	
2-Fluorobiphenyl (S)	%			87	49-120	
2-Fluorophenol (S)	%			74	37-120	
Nitrobenzene-d5 (S)	%			87	44-120	
Phenol-d6 (S)	%			72	36-120	
Terphenyl-d14 (S)	%			88	52-122	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166609

MATRIX SPIKE SAMPLE:		1360076					
Parameter	Units	60166609001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	500	794	79	48-120	
2,4,5-Trichlorophenol	ug/L	ND	500	435J	87	57-120	
2,4,6-Trichlorophenol	ug/L	ND	500	458J	92	48-120	
2,4-Dinitrotoluene	ug/L	ND	500	403J	81	38-120	
2-Methylphenol(o-Cresol)	ug/L	ND	500	479J	96	48-120	
3&4-Methylphenol(m&p Cresol)	ug/L	1100	1000	2020	91	47-120	
Hexachloro-1,3-butadiene	ug/L	ND	500	408J	82	49-120	
Hexachlorobenzene	ug/L	ND	500	418J	84	53-120	
Hexachloroethane	ug/L	ND	500	433J	87	38-120	
Nitrobenzene	ug/L	ND	500	507	101	51-120	
Pentachlorophenol	ug/L	ND	500	392J	78	34-131	
Pyridine	ug/L	ND	500	556	73	10-120	
2,4,6-Tribromophenol (S)	%				90	36-128	
2-Fluorobiphenyl (S)	%				85	49-120	
2-Fluorophenol (S)	%				83	37-120	
Nitrobenzene-d5 (S)	%				128	44-120	SO
Phenol-d6 (S)	%				82	36-120	
Terphenyl-d14 (S)	%				82	52-122	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166609

QC Batch:	PMST/9567	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	60166609001		

METHOD BLANK: 1359129 Matrix: Solid

Associated Lab Samples: 60166609001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	04/11/14 00:00	

SAMPLE DUPLICATE: 1359130

Parameter	Units	60166609001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	58.7	58.2	1	20	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166609

QC Batch: WET/1487

Analysis Method: SW-846 7.3.4.2

QC Batch Method: SW-846 7.3.4.2

Analysis Description: Reactive Sulfide

Associated Lab Samples: 60166609001

METHOD BLANK: 9072

Matrix: Solid

Associated Lab Samples: 60166609001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Reactive	mg/kg	ND	50.0	04/15/14 13:54	

LABORATORY CONTROL SAMPLE: 9073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Reactive	mg/kg	500	100	20	1-110	

MATRIX SPIKE SAMPLE: 9075

Parameter	Units	202507001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Reactive	mg/kg	ND	500	100	20	1-110	

SAMPLE DUPLICATE: 9074

Parameter	Units	202507001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Reactive	mg/kg	ND	ND		20	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166609

QC Batch: WET/47182

Analysis Method: EPA 9045

QC Batch Method: EPA 9045

Analysis Description: 9045 pH

Associated Lab Samples: 60166609001

SAMPLE DUPLICATE: 1356703

Parameter	Units	60166492004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.4	8.4	0	3	H1

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166609

QC Batch: WET/47266

Analysis Method: EPA 9095

QC Batch Method: EPA 9095

Analysis Description: 9095 PAINT FILTER LIQUID TEST

Associated Lab Samples: 60166609001

SAMPLE DUPLICATE: 1359003

Parameter	Units	60166825001 Result	Dup Result	RPD	Max RPD	Qualifiers
Free Liquids		negative	negative			

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166609

QC Batch: WETA/1368

Analysis Method: SW-846 7.3.3.2

QC Batch Method: SW-846 7.3.3.2

Analysis Description: 733C Reactive Cyanide

Associated Lab Samples: 60166609001

METHOD BLANK: 9060

Matrix: Solid

Associated Lab Samples: 60166609001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide, Reactive	mg/kg	ND	25.0	04/15/14 16:01	

LABORATORY CONTROL SAMPLE: 9061

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide, Reactive	mg/kg	100	ND	35	1-110	

MATRIX SPIKE SAMPLE: 9063

Parameter	Units	202507001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide, Reactive	mg/kg	ND	100	ND	1	1-110	

SAMPLE DUPLICATE: 9076

Parameter	Units	202507001 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide, Reactive	mg/kg	ND	ND		20	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166609

QC Batch: WETA/1299

Analysis Method: EPA 9023

QC Batch Method: EPA 9023

Analysis Description: 9023 Extractable Organic Halides EOX

Associated Lab Samples: 60166609001

METHOD BLANK: 7093

Matrix: Solid

Associated Lab Samples: 60166609001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Extractable Organic Halogens	mg/kg	ND	50.5	04/11/14 10:40	

LABORATORY CONTROL SAMPLE: 7094

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Extractable Organic Halogens	mg/kg	1030	1050	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 7095

7096

Parameter	Units	30117104001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Extractable Organic Halogens	mg/kg	91.6	1230	1270	1070	1110	80	80	75-125	3	20	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166609

QC Batch:	WETA/1366	Analysis Method:	EPA 9065
QC Batch Method:	EPA 9065	Analysis Description:	9065 Phenolics
Associated Lab Samples:	60166609001		

METHOD BLANK: 9052 Matrix: Solid

Associated Lab Samples: 60166609001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	mg/kg	ND	0.15	04/18/14 14:02	

LABORATORY CONTROL SAMPLE: 9053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	mg/kg	2.5	2.6	104	80-120	

MATRIX SPIKE SAMPLE: 9055

Parameter	Units	60166609001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	mg/kg	345	6.06	287	-970	75-125	M6

SAMPLE DUPLICATE: 9054

Parameter	Units	60166609001 Result	Dup Result	RPD	Max RPD	Qualifiers
Phenolics, Total Recoverable	mg/kg	345	269	25	20	D6

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166609

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-K Pace Analytical Services - Kansas City

PASI-N Pace Analytical Services - New Orleans

ANALYTE QUALIFIERS

1e Sample was diluted for high levels of target and non-target compounds.

C2 Relative percent difference between results from each column was greater than 40%. The lower of the two results was reported.

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

H1 Analysis conducted outside the EPA method holding time.

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.

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

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166609

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60166609001	BTF CAKE	EPA 3535	OEXT/1265	EPA 8081A	GCSV/1233
60166609001	BTF CAKE	EPA 3546	OEXT/43617	EPA 8082	GCSV/16617
60166609001	BTF CAKE	EPA 3535A	OEXT/1267	EPA 8151	GCSV/1214
60166609001	BTF CAKE	EPA 3010	MPRP/26802	EPA 6010	ICP/20361
60166609001	BTF CAKE	EPA 7470	MERP/8297	EPA 7470	MERC/8252
60166609001	BTF CAKE	EPA 3510	OEXT/43627	EPA 8270	MSSV/13922
60166609001	BTF CAKE	EPA 8260	MSV/60761		
60166609001	BTF CAKE	ASTM D2974	PMST/9567		
60166609001	BTF CAKE	SW-846 7.3.4.2	WET/1487	SW-846 7.3.4.2	WET/1492
60166609001	BTF CAKE	EPA 9045	WET/47182		
60166609001	BTF CAKE	EPA 9095	WET/47266		
60166609001	BTF CAKE	ASTM D92	WET/47204		
60166609001	BTF CAKE	SW-846 7.3.3.2	WETA/1368	SW-846 7.3.3.2	WETA/1378
60166609001	BTF CAKE	EPA 9023	WETA/1299	EPA 9023	WETA/1351
60166609001	BTF CAKE	EPA 9065	WETA/1366	EPA 9065	WETA/1380

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO# : 60166609



60166609

Client Name: Barr

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

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 ☒ x2PIC

Thermometer Used: T-239 / T-194

Type of Ice: Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 3.4

Temperature should be above freezing to 6°C

Date and initials of person examining contents: 10/4/14

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

Section A

Required Client Information:

Company: **BARR ENGINEERING**

Address:

Email To:

Phone: Fax:

Requested Due Date/TAT: **ASAP**

Section B

Required Project Information:

Report To: **ED GALBRAITH/BARR**

Copy To: **SCOTT FEDAK/FEEZOR**
DANA BAKER/MARGARET TREANOR-BARR

Purchase Order No.: **PO 3727110**

Project Name: **BRIDGETON TCLP FILTER CAKE**

Project Number:

Section C

Invoice Information:

Attention: **AMY HARGROVE/BRIAN POWER**

Company Name: **REPUBLIC SERVICES**

Address: **BRIDGETON, MO 63044**

Pace Quote Reference:

Pace Project Manager: **Angie Brown 913-563-1402**

Pace Profile #: **PROFILE 6787-LINE 6 7 MB**

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

Site Location: **MO**

STATE: **MO**

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)												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	TCLP VOCs	pH EPA 9045		Phenol EPA 9065*	flashpoint	PCB	Paint Filter	Reactive CN/S	TOX-EOX*	TCLP RCRA 8	TCLP SVOC	TCLP PEST/HERB	Residual Chlorine (Y/N)			
					DATE	TIME	DATE	TIME																										
1	BTF CAKE		SL C		4/8/14	0916				5																			60166609					
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			
RUSH TAT	<i>[Signature]</i> FET	4-8-14	2:50	<i>[Signature]</i> Thompson North PR	4-8-14	2:50	3-4	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:	WILLIAM ABERNATHY				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	4/8/14		

April 22, 2014

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

RE: Project: BRIDGETON LF 316-265
Pace Project No.: 60166699

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 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 04/22/14 for correction to total metals results due to a dilution factor not applied for the original results 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.
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-265

Pace Project No.: 60166699

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 316-265

Pace Project No.: 60166699

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60166699001	316-265	Water	04/09/14 09:40	04/10/14 01:20
60166699002	TRIP BLANK	Water	04/09/14 00:00	04/10/14 01:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-265

Pace Project No.: 60166699

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60166699001	316-265	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	NDL	1
		SM 5210B	DJR	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
		EPA 624 Low	EAK	28
60166699002	TRIP BLANK			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-265

Pace Project No.: 60166699

Sample: 316-265		Lab ID: 60166699001	Collected: 04/09/14 09:40	Received: 04/10/14 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	20800	ug/L	750	2	04/11/14 13:00	04/11/14 15:06	7429-90-5	D3	
Antimony	ND	ug/L	100	2	04/11/14 13:00	04/11/14 15:06	7440-36-0		
Arsenic	1160	ug/L	50.0	1	04/11/14 13:00	04/11/14 15:03	7440-38-2		
Beryllium	ND	ug/L	5.0	1	04/11/14 13:00	04/11/14 15:03	7440-41-7		
Cadmium	ND	ug/L	25.0	1	04/11/14 13:00	04/11/14 15:03	7440-43-9		
Chromium	254	ug/L	25.0	1	04/11/14 13:00	04/11/14 15:03	7440-47-3		
Cobalt	57.8	ug/L	25.0	1	04/11/14 13:00	04/11/14 15:03	7440-48-4		
Copper	ND	ug/L	50.0	1	04/11/14 13:00	04/11/14 15:03	7440-50-8		
Iron	774000	ug/L	250	1	04/11/14 13:00	04/11/14 15:03	7439-89-6		
Lead	146	ug/L	25.0	1	04/11/14 13:00	04/11/14 15:03	7439-92-1		
Nickel	142	ug/L	25.0	1	04/11/14 13:00	04/11/14 15:03	7440-02-0		
Selenium	77.9	ug/L	75.0	1	04/11/14 13:00	04/11/14 15:03	7782-49-2		
Silver	ND	ug/L	35.0	1	04/11/14 13:00	04/11/14 15:03	7440-22-4		
Thallium	ND	ug/L	100	1	04/11/14 13:00	04/11/14 15:03	7440-28-0		
Zinc	6280	ug/L	500	2	04/11/14 13:00	04/11/14 15:06	7440-66-6		
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	1040	ug/L	750	2	04/15/14 12:40	04/16/14 14:56	7429-90-5	D3	
Antimony, Dissolved	ND	ug/L	100	2	04/15/14 12:40	04/16/14 14:56	7440-36-0		
Arsenic, Dissolved	800	ug/L	50.0	1	04/15/14 12:40	04/16/14 14:53	7440-38-2		
Beryllium, Dissolved	ND	ug/L	5.0	1	04/15/14 12:40	04/16/14 14:53	7440-41-7		
Cadmium, Dissolved	ND	ug/L	25.0	1	04/15/14 12:40	04/16/14 14:53	7440-43-9		
Chromium, Dissolved	159	ug/L	25.0	1	04/15/14 12:40	04/16/14 14:53	7440-47-3		
Cobalt, Dissolved	29.2	ug/L	25.0	1	04/15/14 12:40	04/16/14 14:53	7440-48-4		
Copper, Dissolved	ND	ug/L	50.0	1	04/15/14 12:40	04/16/14 14:53	7440-50-8		
Iron, Dissolved	367000	ug/L	250	1	04/15/14 12:40	04/16/14 14:53	7439-89-6		M1,R1
Lead, Dissolved	46.3	ug/L	25.0	1	04/15/14 12:40	04/16/14 14:53	7439-92-1		
Nickel, Dissolved	82.8	ug/L	25.0	1	04/15/14 12:40	04/16/14 14:53	7440-02-0		
Selenium, Dissolved	ND	ug/L	75.0	1	04/15/14 12:40	04/16/14 14:53	7782-49-2		
Silver, Dissolved	ND	ug/L	35.0	1	04/15/14 12:40	04/16/14 14:53	7440-22-4		R1
Thallium, Dissolved	ND	ug/L	100	1	04/15/14 12:40	04/16/14 14:53	7440-28-0		
Zinc, Dissolved	5160	ug/L	500	2	04/15/14 12:40	04/16/14 14:56	7440-66-6		
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	31.2	ug/L	6.0	1	04/11/14 09:45	04/11/14 15:09	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	04/16/14 18:00	04/17/14 15:24	7439-97-6		
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	50.0	2	04/14/14 00:00	04/15/14 15:05	534-52-1		
Hexachloro-1,3-butadiene	ND	ug/L	10.0	2	04/14/14 00:00	04/15/14 15:05	87-68-3		
Hexachlorocyclopentadiene	ND	ug/L	10.0	2	04/14/14 00:00	04/15/14 15:05	77-47-4		
Hexachloroethane	ND	ug/L	10.0	2	04/14/14 00:00	04/15/14 15:05	67-72-1		
2-Methylphenol(o-Cresol)	ND	ug/L	20.0	2	04/14/14 00:00	04/15/14 15:05	95-48-7	N2	
3&4-Methylphenol(m&p Cresol)	80.3	ug/L	40.0	2	04/14/14 00:00	04/15/14 15:05		N2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-265

Pace Project No.: 60166699

Sample: 316-265		Lab ID: 60166699001	Collected: 04/09/14 09:40	Received: 04/10/14 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						
Naphthalene	21.0 ug/L		10.0	2	04/14/14 00:00	04/15/14 15:05	91-20-3	
Nitrobenzene	ND ug/L		10.0	2	04/14/14 00:00	04/15/14 15:05	98-95-3	
Pentachlorophenol	ND ug/L		10.0	2	04/14/14 00:00	04/15/14 15:05	87-86-5	
Phenol	119 ug/L		10.0	2	04/14/14 00:00	04/15/14 15:05	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		10.0	2	04/14/14 00:00	04/15/14 15:05	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		10.0	2	04/14/14 00:00	04/15/14 15:05	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	147 %		33-120	2	04/14/14 00:00	04/15/14 15:05	4165-60-0	S0
2-Fluorobiphenyl (S)	77 %		39-120	2	04/14/14 00:00	04/15/14 15:05	321-60-8	
Terphenyl-d14 (S)	73 %		45-120	2	04/14/14 00:00	04/15/14 15:05	1718-51-0	
Phenol-d6 (S)	36 %		11-120	2	04/14/14 00:00	04/15/14 15:05	13127-88-3	
2-Fluorophenol (S)	50 %		17-120	2	04/14/14 00:00	04/15/14 15:05	367-12-4	
2,4,6-Tribromophenol (S)	86 %		39-120	2	04/14/14 00:00	04/15/14 15:05	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	301000 ug/L		5000	500		04/15/14 12:47	67-64-1	L1,N2
Benzene	ND ug/L		500	500		04/15/14 12:47	71-43-2	
Bromodichloromethane	ND ug/L		500	500		04/15/14 12:47	75-27-4	
Bromoform	ND ug/L		500	500		04/15/14 12:47	75-25-2	
Bromomethane	ND ug/L		2500	500		04/15/14 12:47	74-83-9	
2-Butanone (MEK)	115000 ug/L		5000	500		04/15/14 12:47	78-93-3	N2
Carbon tetrachloride	ND ug/L		500	500		04/15/14 12:47	56-23-5	
Chloroethane	ND ug/L		500	500		04/15/14 12:47	75-00-3	
Chloroform	ND ug/L		500	500		04/15/14 12:47	67-66-3	
1,4-Dichlorobenzene	ND ug/L		500	500		04/15/14 12:47	106-46-7	
1,2-Dichloroethane	ND ug/L		500	500		04/15/14 12:47	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		500	500		04/15/14 12:47	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		500	500		04/15/14 12:47	156-60-5	
Ethylbenzene	ND ug/L		500	500		04/15/14 12:47	100-41-4	
Methylene chloride	ND ug/L		500	500		04/15/14 12:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5000	500		04/15/14 12:47	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		500	500		04/15/14 12:47	79-34-5	N2
Tetrachloroethene	ND ug/L		500	500		04/15/14 12:47	127-18-4	
Toluene	ND ug/L		500	500		04/15/14 12:47	108-88-3	
1,1,1-Trichloroethane	ND ug/L		500	500		04/15/14 12:47	71-55-6	
1,1,2-Trichloroethane	ND ug/L		500	500		04/15/14 12:47	79-00-5	
Trichloroethene	ND ug/L		500	500		04/15/14 12:47	79-01-6	
Vinyl chloride	ND ug/L		500	500		04/15/14 12:47	75-01-4	
Xylene (Total)	ND ug/L		1500	500		04/15/14 12:47	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	96 %		80-120	500		04/15/14 12:47	460-00-4	S2
Toluene-d8 (S)	105 %		80-120	500		04/15/14 12:47	2037-26-5	
1,2-Dichloroethane-d4 (S)	147 %		80-120	500		04/15/14 12:47	17060-07-0	S0
Preservation pH	6.0		1.0	500		04/15/14 12:47		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1170 mg/L		5.0	1		04/12/14 07:45		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-265

Pace Project No.: 60166699

Sample: 316-265		Lab ID: 60166699001	Collected: 04/09/14 09:40	Received: 04/10/14 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	12.7	mg/L	5.0	1		04/16/14 14:57		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	4680	mg/L	5.0	1		04/11/14 09:30		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.2	Std. Units	0.10	1		04/14/14 08:30		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	34300	mg/L	2.0	1	04/10/14 15:56	04/15/14 13:07		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	542	mg/L	20.0	200		04/11/14 12:17	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	53300	mg/L	5000	500		04/15/14 15:19		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-265

Pace Project No.: 60166699

Sample: TRIP BLANK		Lab ID: 60166699002	Collected: 04/09/14 00:00	Received: 04/10/14 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		04/10/14 19:44	67-64-1	L3,N2
Benzene	ND ug/L		1.0	1		04/10/14 19:44	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/10/14 19:44	75-27-4	
Bromoform	ND ug/L		1.0	1		04/10/14 19:44	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/10/14 19:44	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/10/14 19:44	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		04/10/14 19:44	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/10/14 19:44	75-00-3	
Chloroform	ND ug/L		1.0	1		04/10/14 19:44	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/10/14 19:44	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/10/14 19:44	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/10/14 19:44	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/10/14 19:44	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/10/14 19:44	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/10/14 19:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/10/14 19:44	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/10/14 19:44	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/10/14 19:44	127-18-4	
Toluene	ND ug/L		1.0	1		04/10/14 19:44	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/10/14 19:44	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/10/14 19:44	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/10/14 19:44	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/10/14 19:44	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/10/14 19:44	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	93 %		80-120	1		04/10/14 19:44	460-00-4	
Toluene-d8 (S)	89 %		80-120	1		04/10/14 19:44	2037-26-5	
1,2-Dichloroethane-d4 (S)	97 %		80-120	1		04/10/14 19:44	17060-07-0	
Preservation pH	6.0		1.0	1		04/10/14 19:44		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-265

Pace Project No.: 60166699

QC Batch: MERP/8296

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60166699001

METHOD BLANK: 1358877

Matrix: Water

Associated Lab Samples: 60166699001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/11/14 14:38	

LABORATORY CONTROL SAMPLE: 1358878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1358879 1358880

Parameter	Units	60166481001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	14.5	150	150	101	118	58	69	70-130	16	20	M1

MATRIX SPIKE SAMPLE: 1358881

Parameter	Units	60166482001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	17.1	150	116	66	70-130	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-265

Pace Project No.: 60166699

QC Batch: MERP/8307

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60166699001

METHOD BLANK: 1361868

Matrix: Water

Associated Lab Samples: 60166699001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/17/14 15:13	

LABORATORY CONTROL SAMPLE: 1361869

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.9	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1361870 1361871

Parameter	Units	60167111001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	71.7	77.1	48	51	70-130	7	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-265
Pace Project No.: 60166699

QC Batch: MPRP/26793 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60166699001

METHOD BLANK: 1358824 Matrix: Water
Associated Lab Samples: 60166699001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/11/14 14:15	
Antimony	ug/L	ND	10.0	04/11/14 14:15	
Arsenic	ug/L	ND	10.0	04/11/14 14:15	
Beryllium	ug/L	ND	1.0	04/11/14 14:15	
Cadmium	ug/L	ND	5.0	04/11/14 14:15	
Chromium	ug/L	ND	5.0	04/11/14 14:15	
Cobalt	ug/L	ND	5.0	04/11/14 14:15	
Copper	ug/L	ND	10.0	04/11/14 14:15	
Iron	ug/L	ND	50.0	04/11/14 14:15	
Lead	ug/L	ND	5.0	04/11/14 14:15	
Nickel	ug/L	ND	5.0	04/11/14 14:15	
Selenium	ug/L	ND	15.0	04/11/14 14:15	
Silver	ug/L	ND	7.0	04/11/14 14:15	
Thallium	ug/L	ND	20.0	04/11/14 14:15	
Zinc	ug/L	ND	50.0	04/11/14 14:15	

LABORATORY CONTROL SAMPLE: 1358825

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9920	99	85-115	
Antimony	ug/L	1000	1080	108	85-115	
Arsenic	ug/L	1000	983	98	85-115	
Beryllium	ug/L	1000	991	99	85-115	
Cadmium	ug/L	1000	985	98	85-115	
Chromium	ug/L	1000	939	94	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	9390	94	85-115	
Lead	ug/L	1000	991	99	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1040	104	85-115	
Silver	ug/L	500	488	98	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	922	92	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1358826 1358827

Parameter	Units	60166588002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	13100	50000	50000	69800	68600	114	111	70-130	2	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-265

Pace Project No.: 60166699

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1358826 1358827											
Parameter	Units	60166588002		MS	MSD	MSD		MS	MSD	% Rec	Max
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	RPD
Antimony	ug/L	ND	5000	5000	5000	5680	5580	112	110	70-130	2
Arsenic	ug/L	1010	5000	5000	5000	6600	6580	112	111	70-130	0
Beryllium	ug/L	ND	5000	5000	5000	4680	4670	94	93	70-130	0
Cadmium	ug/L	ND	5000	5000	5000	5220	5200	104	104	70-130	0
Chromium	ug/L	230	5000	5000	5000	4770	4730	91	90	70-130	1
Cobalt	ug/L	44.9	5000	5000	5000	4830	4820	96	95	70-130	0
Copper	ug/L	ND	5000	5000	5000	5580	5530	111	110	70-130	1
Iron	ug/L	626000	50000	50000	50000	664000	666000	77	79	70-130	0
Lead	ug/L	104	5000	5000	5000	4450	4430	87	87	70-130	0
Nickel	ug/L	126	5000	5000	5000	4840	4860	94	95	70-130	0
Selenium	ug/L	90.0	5000	5000	5000	6420	6500	127	128	70-130	1
Silver	ug/L	ND	2500	2500	2500	2660	2650	106	106	70-130	1
Thallium	ug/L	ND	5000	5000	5000	4230	4200	85	84	70-130	1
Zinc	ug/L	5300	5000	5000	5000	9650	9580	87	86	70-130	1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-265
Pace Project No.: 60166699

QC Batch:	MPRP/26848	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60166699001		

METHOD BLANK: 1360926 Matrix: Water
Associated Lab Samples: 60166699001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/16/14 14:47	
Antimony, Dissolved	ug/L	ND	10.0	04/16/14 14:47	
Arsenic, Dissolved	ug/L	ND	10.0	04/16/14 14:47	
Beryllium, Dissolved	ug/L	ND	1.0	04/16/14 14:47	
Cadmium, Dissolved	ug/L	ND	5.0	04/16/14 14:47	
Chromium, Dissolved	ug/L	ND	5.0	04/16/14 14:47	
Cobalt, Dissolved	ug/L	ND	5.0	04/16/14 14:47	
Copper, Dissolved	ug/L	ND	10.0	04/16/14 14:47	
Iron, Dissolved	ug/L	ND	50.0	04/16/14 14:47	
Lead, Dissolved	ug/L	ND	5.0	04/16/14 14:47	
Nickel, Dissolved	ug/L	ND	5.0	04/16/14 14:47	
Selenium, Dissolved	ug/L	ND	15.0	04/16/14 14:47	
Silver, Dissolved	ug/L	ND	7.0	04/16/14 14:47	
Thallium, Dissolved	ug/L	ND	20.0	04/16/14 14:47	
Zinc, Dissolved	ug/L	ND	50.0	04/16/14 14:47	

LABORATORY CONTROL SAMPLE: 1360927

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	1060	106	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	1020	102	85-115	
Chromium, Dissolved	ug/L	1000	1020	102	85-115	
Cobalt, Dissolved	ug/L	1000	1040	104	85-115	
Copper, Dissolved	ug/L	1000	1020	102	85-115	
Iron, Dissolved	ug/L	10000	9930	99	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	1030	103	85-115	
Silver, Dissolved	ug/L	500	501	100	85-115	
Thallium, Dissolved	ug/L	1000	1040	104	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1360928 1360929

Parameter	Units	60166699001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	1040	50000	50000	52900	55200	104	108	70-130	4	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-265

Pace Project No.: 60166699

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1360928 1360929												
Parameter	Units	60166699001		MS	MSD	MS		MSD	% Rec		Max	
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	RPD	RPD
Antimony, Dissolved	ug/L	ND	5000	5000	5000	5590	5820	111	115	70-130	4	7
Arsenic, Dissolved	ug/L	800	5000	5000	5000	6180	6760	108	119	70-130	9	10
Beryllium, Dissolved	ug/L	ND	5000	5000	5000	4960	5140	99	103	70-130	4	7
Cadmium, Dissolved	ug/L	ND	5000	5000	5000	5390	5590	108	112	70-130	4	10
Chromium, Dissolved	ug/L	159	5000	5000	5000	5160	5380	100	105	70-130	4	10
Cobalt, Dissolved	ug/L	29.2	5000	5000	5000	5100	5180	101	103	70-130	2	6
Copper, Dissolved	ug/L	ND	5000	5000	5000	5480	5780	109	115	70-130	5	11
Iron, Dissolved	ug/L	367000	50000	50000	50000	344000	469000	-46	204	70-130	31	10 M1, R1
Lead, Dissolved	ug/L	46.3	5000	5000	5000	4860	4910	96	97	70-130	1	10
Nickel, Dissolved	ug/L	82.8	5000	5000	5000	5080	5180	100	102	70-130	2	10
Selenium, Dissolved	ug/L	ND	5000	5000	5000	6040	6500	119	128	70-130	7	10
Silver, Dissolved	ug/L	ND	2500	2500	2500	2720	2880	109	115	70-130	6	10
Thallium, Dissolved	ug/L	ND	5000	5000	5000	4620	4620	92	92	70-130	0	6
Zinc, Dissolved	ug/L	5160	5000	5000	5000	9000	10700	77	112	70-130	18	11 R1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-265
Pace Project No.: 60166699

QC Batch:	MSV/60719	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60166699002		

METHOD BLANK: 1358312 Matrix: Water
Associated Lab Samples: 60166699002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/10/14 19:28	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/10/14 19:28	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/10/14 19:28	
1,2-Dichloroethane	ug/L	ND	1.0	04/10/14 19:28	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/10/14 19:28	
2-Butanone (MEK)	ug/L	ND	10.0	04/10/14 19:28	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/10/14 19:28	N2
Acetone	ug/L	ND	10.0	04/10/14 19:28	N2
Benzene	ug/L	ND	1.0	04/10/14 19:28	
Bromodichloromethane	ug/L	ND	1.0	04/10/14 19:28	
Bromoform	ug/L	ND	1.0	04/10/14 19:28	
Bromomethane	ug/L	ND	5.0	04/10/14 19:28	
Carbon tetrachloride	ug/L	ND	1.0	04/10/14 19:28	
Chloroethane	ug/L	ND	1.0	04/10/14 19:28	
Chloroform	ug/L	ND	1.0	04/10/14 19:28	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/10/14 19:28	N2
Ethylbenzene	ug/L	ND	1.0	04/10/14 19:28	
Methylene chloride	ug/L	ND	1.0	04/10/14 19:28	
Tetrachloroethene	ug/L	ND	1.0	04/10/14 19:28	
Toluene	ug/L	ND	1.0	04/10/14 19:28	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/10/14 19:28	
Trichloroethene	ug/L	ND	1.0	04/10/14 19:28	
Vinyl chloride	ug/L	ND	1.0	04/10/14 19:28	
Xylene (Total)	ug/L	ND	3.0	04/10/14 19:28	N2
1,2-Dichloroethane-d4 (S)	%	96	80-120	04/10/14 19:28	
4-Bromofluorobenzene (S)	%	97	80-120	04/10/14 19:28	
Toluene-d8 (S)	%	89	80-120	04/10/14 19:28	

LABORATORY CONTROL SAMPLE: 1358313

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.7	88	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.6	103	67-127	N2
1,1,2-Trichloroethane	ug/L	20	22.7	114	67-124	
1,2-Dichloroethane	ug/L	20	17.8	89	70-126	
1,4-Dichlorobenzene	ug/L	20	19.9	100	74-120	
2-Butanone (MEK)	ug/L	100	119	119	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	91.0	91	59-131	N2
Acetone	ug/L	100	147	147	38-134	L0,N2
Benzene	ug/L	20	16.9	84	75-120	
Bromodichloromethane	ug/L	20	17.4	87	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-265

Pace Project No.: 60166699

LABORATORY CONTROL SAMPLE: 1358313

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.3	97	65-127	
Bromomethane	ug/L	20	12.5	62	13-157	
Carbon tetrachloride	ug/L	20	16.1	80	70-131	
Chloroethane	ug/L	20	17.2	86	47-133	
Chloroform	ug/L	20	17.6	88	65-127	
cis-1,2-Dichloroethene	ug/L	20	18.6	93	68-127	N2
Ethylbenzene	ug/L	20	20.9	104	74-122	
Methylene chloride	ug/L	20	18.4	92	64-129	
Tetrachloroethene	ug/L	20	21.7	108	73-125	
Toluene	ug/L	20	17.3	86	69-126	
trans-1,2-Dichloroethene	ug/L	20	18.5	92	66-129	
Trichloroethene	ug/L	20	18.9	95	71-123	
Vinyl chloride	ug/L	20	18.0	90	43-129	
Xylene (Total)	ug/L	60	62.3	104	75-121	N2
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			97	80-120	
Toluene-d8 (S)	%			90	80-120	

MATRIX SPIKE SAMPLE: 1358314

Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	10000	11500	115	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	10000	12200	122	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	10000	13800	138	52-143	
1,2-Dichloroethane	ug/L	ND	10000	11200	112	49-144	
1,4-Dichlorobenzene	ug/L	754	10000	11700	109	33-140	
2-Butanone (MEK)	ug/L	70900	50000	130000	118	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	50000	56200	110	40-160	N2
Acetone	ug/L	176000	50000	224000	97	10-160	N2
Benzene	ug/L	ND	10000	11200	112	37-151	
Bromodichloromethane	ug/L	ND	10000	10900	109	35-142	
Bromoform	ug/L	ND	10000	12800	128	45-142	
Bromomethane	ug/L	ND	10000	7630	76	10-158	
Carbon tetrachloride	ug/L	ND	10000	11900	119	70-140	
Chloroethane	ug/L	ND	10000	11100	111	19-152	
Chloroform	ug/L	ND	10000	10700	107	51-138	
cis-1,2-Dichloroethene	ug/L	ND	10000	11900	119	34-147	N2
Ethylbenzene	ug/L	ND	10000	13000	130	40-142	
Methylene chloride	ug/L	ND	10000	11300	112	31-144	
Tetrachloroethene	ug/L	ND	10000	14000	140	64-148	
Toluene	ug/L	ND	10000	10800	108	47-150	
trans-1,2-Dichloroethene	ug/L	ND	10000	11800	118	54-151	
Trichloroethene	ug/L	ND	10000	11800	118	71-149	
Vinyl chloride	ug/L	ND	10000	12000	120	22-146	
Xylene (Total)	ug/L	ND	30000	38700	129	37-144	N2
1,2-Dichloroethane-d4 (S)	%				114	80-120	
4-Bromofluorobenzene (S)	%				93	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-265

Pace Project No.: 60166699

MATRIX SPIKE SAMPLE:		1358314					
Parameter	Units	60166481001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%					91	80-120
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-265
Pace Project No.: 60166699

QC Batch:	MSV/60785	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60166699001		

METHOD BLANK: 1360346 Matrix: Water
Associated Lab Samples: 60166699001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/15/14 12:15	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/15/14 12:15	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/15/14 12:15	
1,2-Dichloroethane	ug/L	ND	1.0	04/15/14 12:15	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/15/14 12:15	
2-Butanone (MEK)	ug/L	ND	10.0	04/15/14 12:15	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/15/14 12:15	N2
Acetone	ug/L	ND	10.0	04/15/14 12:15	N2
Benzene	ug/L	ND	1.0	04/15/14 12:15	
Bromodichloromethane	ug/L	ND	1.0	04/15/14 12:15	
Bromoform	ug/L	ND	1.0	04/15/14 12:15	
Bromomethane	ug/L	ND	5.0	04/15/14 12:15	
Carbon tetrachloride	ug/L	ND	1.0	04/15/14 12:15	
Chloroethane	ug/L	ND	1.0	04/15/14 12:15	
Chloroform	ug/L	ND	1.0	04/15/14 12:15	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/15/14 12:15	N2
Ethylbenzene	ug/L	ND	1.0	04/15/14 12:15	
Methylene chloride	ug/L	ND	1.0	04/15/14 12:15	
Tetrachloroethene	ug/L	ND	1.0	04/15/14 12:15	
Toluene	ug/L	ND	1.0	04/15/14 12:15	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/15/14 12:15	
Trichloroethene	ug/L	ND	1.0	04/15/14 12:15	
Vinyl chloride	ug/L	ND	1.0	04/15/14 12:15	
Xylene (Total)	ug/L	ND	3.0	04/15/14 12:15	N2
1,2-Dichloroethane-d4 (S)	%	107	80-120	04/15/14 12:15	
4-Bromofluorobenzene (S)	%	100	80-120	04/15/14 12:15	
Toluene-d8 (S)	%	108	80-120	04/15/14 12:15	

LABORATORY CONTROL SAMPLE: 1360347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.1	105	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	67-127	N2
1,1,2-Trichloroethane	ug/L	20	20.6	103	67-124	
1,2-Dichloroethane	ug/L	20	20.6	103	70-126	
1,4-Dichlorobenzene	ug/L	20	18.4	92	74-120	
2-Butanone (MEK)	ug/L	100	148	148	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	106	106	59-131	N2
Acetone	ug/L	100	195	195	38-134	L0,N2
Benzene	ug/L	20	20.6	103	75-120	
Bromodichloromethane	ug/L	20	19.4	97	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-265

Pace Project No.: 60166699

LABORATORY CONTROL SAMPLE: 1360347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.5	98	65-127	
Bromomethane	ug/L	20	13.7	69	13-157	
Carbon tetrachloride	ug/L	20	21.7	108	70-131	
Chloroethane	ug/L	20	21.3	107	47-133	
Chloroform	ug/L	20	19.4	97	65-127	
cis-1,2-Dichloroethene	ug/L	20	22.0	110	68-127	N2
Ethylbenzene	ug/L	20	20.2	101	74-122	
Methylene chloride	ug/L	20	17.8	89	64-129	
Tetrachloroethene	ug/L	20	20.1	100	73-125	
Toluene	ug/L	20	19.7	99	69-126	
trans-1,2-Dichloroethene	ug/L	20	22.4	112	66-129	
Trichloroethene	ug/L	20	20.6	103	71-123	
Vinyl chloride	ug/L	20	23.2	116	43-129	
Xylene (Total)	ug/L	60	59.8	100	75-121	N2
1,2-Dichloroethane-d4 (S)	%			106	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1360348

Parameter	Units	60166896001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	5810	116	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	4550	91	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4740	95	52-143	
1,2-Dichloroethane	ug/L	ND	5000	5170	103	49-144	
1,4-Dichlorobenzene	ug/L	400	5000	5040	93	33-140	
2-Butanone (MEK)	ug/L	70100	25000	93100	92	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	25100	97	40-160	N2
Acetone	ug/L	199000	25000	212000	53	10-160	N2
Benzene	ug/L	ND	5000	5810	116	37-151	
Bromodichloromethane	ug/L	ND	5000	5080	102	35-142	
Bromoform	ug/L	ND	5000	4670	93	45-142	
Bromomethane	ug/L	ND	5000	3980	80	10-158	
Carbon tetrachloride	ug/L	ND	5000	6660	133	70-140	
Chloroethane	ug/L	ND	5000	6130	123	19-152	
Chloroform	ug/L	ND	5000	5040	100	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	5340	107	34-147	N2
Ethylbenzene	ug/L	ND	5000	5210	104	40-142	
Methylene chloride	ug/L	ND	5000	4580	90	31-144	
Tetrachloroethene	ug/L	ND	5000	5490	110	64-148	
Toluene	ug/L	ND	5000	5460	109	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	5700	114	54-151	
Trichloroethene	ug/L	ND	5000	5450	109	71-149	
Vinyl chloride	ug/L	ND	5000	6480	130	22-146	
Xylene (Total)	ug/L	ND	15000	15800	106	37-144	N2
1,2-Dichloroethane-d4 (S)	%				112	80-120	
4-Bromofluorobenzene (S)	%				97	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-265

Pace Project No.: 60166699

MATRIX SPIKE SAMPLE:		1360348					
Parameter	Units	60166896001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				100	80-120	
Preservation pH		6.0		6.0			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-265
Pace Project No.: 60166699

QC Batch:	OEXT/43631	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60166699001		

METHOD BLANK: 1360083 Matrix: Water
Associated Lab Samples: 60166699001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/15/14 14:03	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/15/14 14:03	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/15/14 14:03	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/15/14 14:03	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/15/14 14:03	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/15/14 14:03	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/15/14 14:03	
Hexachloroethane	ug/L	ND	5.0	04/15/14 14:03	
Naphthalene	ug/L	ND	5.0	04/15/14 14:03	
Nitrobenzene	ug/L	ND	5.0	04/15/14 14:03	
Pentachlorophenol	ug/L	ND	5.0	04/15/14 14:03	
Phenol	ug/L	ND	5.0	04/15/14 14:03	
2,4,6-Tribromophenol (S)	%	85	39-120	04/15/14 14:03	
2-Fluorobiphenyl (S)	%	89	39-120	04/15/14 14:03	
2-Fluorophenol (S)	%	45	17-120	04/15/14 14:03	
Nitrobenzene-d5 (S)	%	86	33-120	04/15/14 14:03	
Phenol-d6 (S)	%	29	11-120	04/15/14 14:03	
Terphenyl-d14 (S)	%	83	45-120	04/15/14 14:03	

LABORATORY CONTROL SAMPLE: 1360084

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	38.6	77	46-120	
2,4,6-Trichlorophenol	ug/L	50	40.8	82	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	36.2	72	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	33.5	67	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	44.3	89	40-133	
Hexachloro-1,3-butadiene	ug/L	50	35.6	71	44-116	
Hexachlorocyclopentadiene	ug/L	100	64.7	65	24-120	
Hexachloroethane	ug/L	50	39.2	78	43-113	
Naphthalene	ug/L	50	39.6	79	48-120	
Nitrobenzene	ug/L	50	39.3	79	48-120	
Pentachlorophenol	ug/L	50	40.7	81	47-120	
Phenol	ug/L	50	19.8	40	16-112	
2,4,6-Tribromophenol (S)	%			88	39-120	
2-Fluorobiphenyl (S)	%			84	39-120	
2-Fluorophenol (S)	%			48	17-120	
Nitrobenzene-d5 (S)	%			77	33-120	
Phenol-d6 (S)	%			32	11-120	
Terphenyl-d14 (S)	%			85	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-265

Pace Project No.: 60166699

MATRIX SPIKE SAMPLE:		1360085					
Parameter	Units	60166699001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	39.2	78	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	43.7	87	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	50	46.0	92	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	80.3	50	119	77	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	50	45.3J	91	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	37.3	75	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	78.1	78	11-120	
Hexachloroethane	ug/L	ND	50	41.0	82	40-113	
Naphthalene	ug/L	21.0	50	59.8	78	45-120	
Nitrobenzene	ug/L	ND	50	41.2	82	38-120	
Pentachlorophenol	ug/L	ND	50	49.2	98	43-135	
Phenol	ug/L	119	50	145	52	13-112	
2,4,6-Tribromophenol (S)	%				84	39-120	
2-Fluorobiphenyl (S)	%				84	39-120	
2-Fluorophenol (S)	%				50	17-120	
Nitrobenzene-d5 (S)	%				150	33-120	S0
Phenol-d6 (S)	%				37	11-120	
Terphenyl-d14 (S)	%				74	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-265

Pace Project No.: 60166699

QC Batch: WET/47272

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60166699001

METHOD BLANK: 1359412

Matrix: Water

Associated Lab Samples: 60166699001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/12/14 07:40	

LABORATORY CONTROL SAMPLE: 1359413

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	41.9	105	78-114	

MATRIX SPIKE SAMPLE: 1359416

Parameter	Units	60166313001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	43	44.7	103	78-114	

SAMPLE DUPLICATE: 1359417

Parameter	Units	60166313002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-265

Pace Project No.: 60166699

QC Batch:	WET/47352	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60166699001		

METHOD BLANK: 1361694 Matrix: Water

Associated Lab Samples: 60166699001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	04/16/14 14:56	

LABORATORY CONTROL SAMPLE: 1361695

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: 1361696

Parameter	Units	60166314001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	5.1	20.4	29.8	121	64-132	

SAMPLE DUPLICATE: 1361711

Parameter	Units	60166823001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	1.6J		34	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-265

Pace Project No.: 60166699

QC Batch: WET/47188

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60166699001

METHOD BLANK: 1356732

Matrix: Water

Associated Lab Samples: 60166699001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/11/14 09:26	

SAMPLE DUPLICATE: 1358746

Parameter	Units	60166590002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	146	148	1	10	

SAMPLE DUPLICATE: 1358749

Parameter	Units	60166653001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	65.0	63.0	3	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-265

Pace Project No.: 60166699

QC Batch:	WET/47275	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
Associated Lab Samples:	60166699001		

SAMPLE DUPLICATE: 1359512

Parameter	Units	60165705001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.7	6.7	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-265

Pace Project No.: 60166699

QC Batch: WET/47242

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60166699001

METHOD BLANK: 1358106

Matrix: Water

Associated Lab Samples: 60166699001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/15/14 11:54	

LABORATORY CONTROL SAMPLE: 1358107

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	191	96	85-115	

SAMPLE DUPLICATE: 1358108

Parameter	Units	60166676001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	4.4	3.4	27	17	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-265

Pace Project No.: 60166699

QC Batch: WETA/28990

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60166699001

METHOD BLANK: 1358776

Matrix: Water

Associated Lab Samples: 60166699001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/11/14 12:07	

LABORATORY CONTROL SAMPLE: 1358777

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	1.9	93	90-110	

MATRIX SPIKE SAMPLE: 1358778

Parameter	Units	60166681001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	5.6	4	8.8	80	90-110	M1

MATRIX SPIKE SAMPLE: 1358779

Parameter	Units	60166684002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	18.6	10	26.3	76	90-110	M1

SAMPLE DUPLICATE: 1358780

Parameter	Units	60166705001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	4.7	4.7	0	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-265

Pace Project No.: 60166699

QC Batch:	WETA/29023	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60166699001		

METHOD BLANK: 1360535 Matrix: Water
Associated Lab Samples: 60166699001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	04/15/14 15:03	

LABORATORY CONTROL SAMPLE: 1360536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	51.2	102	90-110	

MATRIX SPIKE SAMPLE: 1360537

Parameter	Units	60166434001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	8300	5000	13500	105	90-110	

MATRIX SPIKE SAMPLE: 1360539

Parameter	Units	60166553002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	1770	2500	5020	130	90-110	M1

SAMPLE DUPLICATE: 1360538

Parameter	Units	60166434005 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	2310	2370	3	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-265

Pace Project No.: 60166699

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.
- 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.
- L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- 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.
- S2 Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-265

Pace Project No.: 60166699

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60166699001	316-265	EPA 200.7	MPRP/26793	EPA 200.7	ICP/20359
60166699001	316-265	EPA 200.7	MPRP/26848	EPA 200.7	ICP/20396
60166699001	316-265	EPA 245.1	MERP/8296	EPA 245.1	MERC/8250
60166699001	316-265	EPA 245.1	MERP/8307	EPA 245.1	MERC/8260
60166699001	316-265	EPA 625	OEXT/43631	EPA 625	MSSV/13929
60166699001	316-265	EPA 624 Low	MSV/60785		
60166699002	TRIP BLANK	EPA 624 Low	MSV/60719		
60166699001	316-265	EPA 1664A	WET/47272		
60166699001	316-265	EPA 1664A	WET/47352		
60166699001	316-265	SM 2540D	WET/47188		
60166699001	316-265	SM 4500-H+B	WET/47275		
60166699001	316-265	SM 5210B	WET/47242	SM 5210B	WET/47322
60166699001	316-265	EPA 350.1	WETA/28990		
60166699001	316-265	EPA 410.4	WETA/29023		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

JO#: 60166699



50166699

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 ☒ ZPE

Thermometer Used: T-239 / T-194

Type of Ice: Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.0

Date and initials of person examining contents: 4/10/14 BA

Temperature should be above freezing to 6°C

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☒ Yes ☐ No ☐ N/A	6. <u>BOD, pH</u>
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	
Pace containers used:	☒ Yes ☐ No ☐ N/A	9.
Containers intact:	☒ Yes ☐ No ☐ N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	11.
Filtered volume received for dissolved tests?	☐ Yes ☐ No ☒ N/A	12.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	
Includes date/time/ID/analyses	Matrix: <u>WT</u>	13.
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	Initial Final <u>HNO3 pH 6.0, 4.0 Added 2.5mL</u> <u>H2SO4 6.0, 3.5 Added 2.0 mL</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☒ No ☐ N/A	14.
Exceptions: <u>VOA</u> , coliform, TOC, <u>O&G</u> WI-DRO (water), Phenolics	☒ Yes ☐ No	Initial when completed <u>BA</u> Lot # of added preservative <u>12513</u>
Trip Blank present:	☒ Yes ☐ No ☐ N/A	
Pace Trip Blank lot # (if purchased):		15.
Headspace in VOA vials (>6mm):	☒ Yes ☐ No ☐ N/A	16. <u>1 of 5 (316-265)</u> ✓
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ N/A	17. List State: <u>WA</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: 4/10/14

April 21, 2014

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

RE: Project: BRIDGETON LF 316-266
Pace Project No.: 60166816

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 11, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-266

Pace Project No.: 60166816

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 316-266

Pace Project No.: 60166816

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60166816001	316-266	Water	04/10/14 11:45	04/11/14 01:40
60166816002	TRIP BLANK	Water	04/10/14 00:00	04/11/14 01:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-266

Pace Project No.: 60166816

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60166816001	316-266	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	NDL	1
		SM 5210B	DJR	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
60166816002	TRIP BLANK	EPA 624 Low	EAK	28

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-266

Pace Project No.: 60166816

Sample: 316-266		Lab ID: 60166816001	Collected: 04/10/14 11:45	Received: 04/11/14 01:40	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	1360 ug/L		750	2	04/18/14 15:00	04/21/14 11:21	7429-90-5	
Antimony	ND ug/L		100	2	04/18/14 15:00	04/21/14 11:21	7440-36-0	D3
Arsenic	728 ug/L		50.0	1	04/18/14 15:00	04/21/14 11:18	7440-38-2	
Beryllium	ND ug/L		5.0	1	04/18/14 15:00	04/21/14 11:18	7440-41-7	
Cadmium	ND ug/L		25.0	1	04/18/14 15:00	04/21/14 11:18	7440-43-9	
Chromium	140 ug/L		25.0	1	04/18/14 15:00	04/21/14 11:18	7440-47-3	
Cobalt	ND ug/L		25.0	1	04/18/14 15:00	04/21/14 11:18	7440-48-4	
Copper	ND ug/L		50.0	1	04/18/14 15:00	04/21/14 11:18	7440-50-8	
Iron	319000 ug/L		250	1	04/18/14 15:00	04/21/14 11:18	7439-89-6	
Lead	48.9 ug/L		25.0	1	04/18/14 15:00	04/21/14 11:18	7439-92-1	
Nickel	72.0 ug/L		25.0	1	04/18/14 15:00	04/21/14 11:18	7440-02-0	
Selenium	ND ug/L		75.0	1	04/18/14 15:00	04/21/14 11:18	7782-49-2	
Silver	ND ug/L		35.0	1	04/18/14 15:00	04/21/14 11:18	7440-22-4	
Thallium	ND ug/L		100	1	04/18/14 15:00	04/21/14 11:18	7440-28-0	
Zinc	5170 ug/L		500	2	04/18/14 15:00	04/21/14 11:21	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1270 ug/L		750	2	04/15/14 12:40	04/16/14 15:17	7429-90-5	
Antimony, Dissolved	ND ug/L		100	2	04/15/14 12:40	04/16/14 15:17	7440-36-0	D3
Arsenic, Dissolved	882 ug/L		50.0	1	04/15/14 12:40	04/16/14 15:13	7440-38-2	D9
Beryllium, Dissolved	ND ug/L		5.0	1	04/15/14 12:40	04/16/14 15:13	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	04/15/14 12:40	04/16/14 15:13	7440-43-9	
Chromium, Dissolved	167 ug/L		25.0	1	04/15/14 12:40	04/16/14 15:13	7440-47-3	
Cobalt, Dissolved	29.5 ug/L		25.0	1	04/15/14 12:40	04/16/14 15:13	7440-48-4	D9
Copper, Dissolved	ND ug/L		50.0	1	04/15/14 12:40	04/16/14 15:13	7440-50-8	
Iron, Dissolved	384000 ug/L		250	1	04/15/14 12:40	04/16/14 15:13	7439-89-6	D9
Lead, Dissolved	44.9 ug/L		25.0	1	04/15/14 12:40	04/16/14 15:13	7439-92-1	
Nickel, Dissolved	86.2 ug/L		25.0	1	04/15/14 12:40	04/16/14 15:13	7440-02-0	D9
Selenium, Dissolved	ND ug/L		75.0	1	04/15/14 12:40	04/16/14 15:13	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	04/15/14 12:40	04/16/14 15:13	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	04/15/14 12:40	04/16/14 15:13	7440-28-0	
Zinc, Dissolved	5480 ug/L		500	2	04/15/14 12:40	04/16/14 15:17	7440-66-6	D9
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	12.2 ug/L		6.0	1	04/16/14 18:00	04/17/14 15:53	7439-97-6	M1
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		6.0	1	04/16/14 18:00	04/17/14 15:27	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		50.0	2	04/15/14 00:00	04/16/14 22:50	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		10.0	2	04/15/14 00:00	04/16/14 22:50	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		10.0	2	04/15/14 00:00	04/16/14 22:50	77-47-4	
Hexachloroethane	ND ug/L		10.0	2	04/15/14 00:00	04/16/14 22:50	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		20.0	2	04/15/14 00:00	04/16/14 22:50	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	85.3 ug/L		40.0	2	04/15/14 00:00	04/16/14 22:50		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-266

Pace Project No.: 60166816

Sample: 316-266		Lab ID: 60166816001	Collected: 04/10/14 11:45	Received: 04/11/14 01:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	22.5 ug/L		10.0	2	04/15/14 00:00	04/16/14 22:50	91-20-3	
Nitrobenzene	ND ug/L		10.0	2	04/15/14 00:00	04/16/14 22:50	98-95-3	
Pentachlorophenol	ND ug/L		10.0	2	04/15/14 00:00	04/16/14 22:50	87-86-5	
Phenol	119 ug/L		10.0	2	04/15/14 00:00	04/16/14 22:50	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		10.0	2	04/15/14 00:00	04/16/14 22:50	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		10.0	2	04/15/14 00:00	04/16/14 22:50	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	151 %		33-120	2	04/15/14 00:00	04/16/14 22:50	4165-60-0	S0
2-Fluorobiphenyl (S)	89 %		39-120	2	04/15/14 00:00	04/16/14 22:50	321-60-8	
Terphenyl-d14 (S)	101 %		45-120	2	04/15/14 00:00	04/16/14 22:50	1718-51-0	
Phenol-d6 (S)	35 %		11-120	2	04/15/14 00:00	04/16/14 22:50	13127-88-3	
2-Fluorophenol (S)	47 %		17-120	2	04/15/14 00:00	04/16/14 22:50	367-12-4	
2,4,6-Tribromophenol (S)	90 %		39-120	2	04/15/14 00:00	04/16/14 22:50	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	211000 ug/L		2500	250		04/15/14 13:02	67-64-1	L1,N2
Benzene	ND ug/L		250	250		04/15/14 13:02	71-43-2	
Bromodichloromethane	ND ug/L		250	250		04/15/14 13:02	75-27-4	
Bromoform	ND ug/L		250	250		04/15/14 13:02	75-25-2	
Bromomethane	ND ug/L		1250	250		04/15/14 13:02	74-83-9	
2-Butanone (MEK)	76200 ug/L		2500	250		04/15/14 13:02	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		04/15/14 13:02	56-23-5	
Chloroethane	ND ug/L		250	250		04/15/14 13:02	75-00-3	
Chloroform	ND ug/L		250	250		04/15/14 13:02	67-66-3	
1,4-Dichlorobenzene	465 ug/L		250	250		04/15/14 13:02	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		04/15/14 13:02	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		04/15/14 13:02	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		04/15/14 13:02	156-60-5	
Ethylbenzene	ND ug/L		250	250		04/15/14 13:02	100-41-4	
Methylene chloride	ND ug/L		250	250		04/15/14 13:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		04/15/14 13:02	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		04/15/14 13:02	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		04/15/14 13:02	127-18-4	
Toluene	ND ug/L		250	250		04/15/14 13:02	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		04/15/14 13:02	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		04/15/14 13:02	79-00-5	
Trichloroethene	ND ug/L		250	250		04/15/14 13:02	79-01-6	
Vinyl chloride	ND ug/L		250	250		04/15/14 13:02	75-01-4	
Xylene (Total)	ND ug/L		750	250		04/15/14 13:02	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	96 %		80-120	250		04/15/14 13:02	460-00-4	
Toluene-d8 (S)	98 %		80-120	250		04/15/14 13:02	2037-26-5	
1,2-Dichloroethane-d4 (S)	119 %		80-120	250		04/15/14 13:02	17060-07-0	
Preservation pH	6.0		1.0	250		04/15/14 13:02		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1190 mg/L		5.0	1		04/15/14 07:19		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-266

Pace Project No.: 60166816

Sample: 316-266		Lab ID: 60166816001	Collected: 04/10/14 11:45	Received: 04/11/14 01:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	10.0	mg/L	5.0	1		04/16/14 14:58		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	4080	mg/L	5.0	1		04/11/14 13:12		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.3	Std. Units	0.10	1		04/14/14 08:30		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	34200	mg/L	2.0	1	04/11/14 16:47	04/16/14 13:08		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	657	mg/L	20.0	200		04/15/14 11:49	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	50600	mg/L	5000	500		04/15/14 15:23		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-266

Pace Project No.: 60166816

Sample: TRIP BLANK		Lab ID: 60166816002	Collected: 04/10/14 00:00	Received: 04/11/14 01:40	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		04/15/14 13:18	67-64-1	L3,N2
Benzene	ND ug/L		1.0	1		04/15/14 13:18	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/15/14 13:18	75-27-4	
Bromoform	ND ug/L		1.0	1		04/15/14 13:18	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/15/14 13:18	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/15/14 13:18	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		04/15/14 13:18	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/15/14 13:18	75-00-3	
Chloroform	ND ug/L		1.0	1		04/15/14 13:18	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/15/14 13:18	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/15/14 13:18	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/15/14 13:18	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/15/14 13:18	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/15/14 13:18	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/15/14 13:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/15/14 13:18	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/15/14 13:18	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/15/14 13:18	127-18-4	
Toluene	ND ug/L		1.0	1		04/15/14 13:18	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/15/14 13:18	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/15/14 13:18	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/15/14 13:18	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/15/14 13:18	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/15/14 13:18	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	1		04/15/14 13:18	460-00-4	
Toluene-d8 (S)	99 %		80-120	1		04/15/14 13:18	2037-26-5	
1,2-Dichloroethane-d4 (S)	98 %		80-120	1		04/15/14 13:18	17060-07-0	
Preservation pH	6.0		1.0	1		04/15/14 13:18		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-266

Pace Project No.: 60166816

QC Batch: MERP/8306

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60166816001

METHOD BLANK: 1361856

Matrix: Water

Associated Lab Samples: 60166816001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/17/14 15:49	

LABORATORY CONTROL SAMPLE: 1361857

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1361858 1361859

Parameter	Units	60166816001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	12.2	150	150	102	106	60	63	70-130	4	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-266

Pace Project No.: 60166816

QC Batch: MERP/8307

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60166816001

METHOD BLANK: 1361868

Matrix: Water

Associated Lab Samples: 60166816001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/17/14 15:13	

LABORATORY CONTROL SAMPLE: 1361869

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.9	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1361870 1361871

Parameter	Units	60167111001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	71.7	77.1	48	51	70-130	7	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-266
Pace Project No.: 60166816

QC Batch:	MPRP/26886	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
Associated Lab Samples:	60166816001		

METHOD BLANK: 1362342 Matrix: Water
Associated Lab Samples: 60166816001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/21/14 11:15	
Antimony	ug/L	ND	10.0	04/21/14 11:15	
Arsenic	ug/L	ND	10.0	04/21/14 11:15	
Beryllium	ug/L	ND	1.0	04/21/14 11:15	
Cadmium	ug/L	ND	5.0	04/21/14 11:15	
Chromium	ug/L	ND	5.0	04/21/14 11:15	
Cobalt	ug/L	ND	5.0	04/21/14 11:15	
Copper	ug/L	ND	10.0	04/21/14 11:15	
Iron	ug/L	ND	50.0	04/21/14 11:15	
Lead	ug/L	ND	5.0	04/21/14 11:15	
Nickel	ug/L	ND	5.0	04/21/14 11:15	
Selenium	ug/L	ND	15.0	04/21/14 11:15	
Silver	ug/L	ND	7.0	04/21/14 11:15	
Thallium	ug/L	ND	20.0	04/21/14 11:15	
Zinc	ug/L	ND	50.0	04/21/14 11:15	

LABORATORY CONTROL SAMPLE: 1362343

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	946	95	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	980	98	85-115	
Chromium	ug/L	1000	1000	100	85-115	
Cobalt	ug/L	1000	1000	100	85-115	
Copper	ug/L	1000	982	98	85-115	
Iron	ug/L	10000	10500	105	85-115	
Lead	ug/L	1000	1010	101	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	990	99	85-115	
Silver	ug/L	500	496	99	85-115	
Thallium	ug/L	1000	1000	100	85-115	
Zinc	ug/L	1000	1020	102	85-115	

SAMPLE DUPLICATE: 1362344

Parameter	Units	60166816001 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum	ug/L	1360	1460	7	20	
Antimony	ug/L	ND	84.2J		20 D3	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-266

Pace Project No.: 60166816

SAMPLE DUPLICATE: 1362344

Parameter	Units	60166816001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	728	894	20	20	
Beryllium	ug/L	ND	ND		20	
Cadmium	ug/L	ND	9.9J		20	
Chromium	ug/L	140	172	20	20	
Cobalt	ug/L	ND	29.0		20	
Copper	ug/L	ND	19.8J		20	
Iron	ug/L	319000	385000	19	20	
Lead	ug/L	48.9	54.7	11	20	
Nickel	ug/L	72.0	86.5	18	20	
Selenium	ug/L	ND	68.6J		20	
Silver	ug/L	ND	ND		20	
Thallium	ug/L	ND	ND		20	
Zinc	ug/L	5170	6260	19	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-266
Pace Project No.: 60166816

QC Batch: MPRP/26848 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60166816001

METHOD BLANK: 1360926 Matrix: Water
Associated Lab Samples: 60166816001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/16/14 14:47	
Antimony, Dissolved	ug/L	ND	10.0	04/16/14 14:47	
Arsenic, Dissolved	ug/L	ND	10.0	04/16/14 14:47	
Beryllium, Dissolved	ug/L	ND	1.0	04/16/14 14:47	
Cadmium, Dissolved	ug/L	ND	5.0	04/16/14 14:47	
Chromium, Dissolved	ug/L	ND	5.0	04/16/14 14:47	
Cobalt, Dissolved	ug/L	ND	5.0	04/16/14 14:47	
Copper, Dissolved	ug/L	ND	10.0	04/16/14 14:47	
Iron, Dissolved	ug/L	ND	50.0	04/16/14 14:47	
Lead, Dissolved	ug/L	ND	5.0	04/16/14 14:47	
Nickel, Dissolved	ug/L	ND	5.0	04/16/14 14:47	
Selenium, Dissolved	ug/L	ND	15.0	04/16/14 14:47	
Silver, Dissolved	ug/L	ND	7.0	04/16/14 14:47	
Thallium, Dissolved	ug/L	ND	20.0	04/16/14 14:47	
Zinc, Dissolved	ug/L	ND	50.0	04/16/14 14:47	

LABORATORY CONTROL SAMPLE: 1360927

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	1060	106	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	1020	102	85-115	
Chromium, Dissolved	ug/L	1000	1020	102	85-115	
Cobalt, Dissolved	ug/L	1000	1040	104	85-115	
Copper, Dissolved	ug/L	1000	1020	102	85-115	
Iron, Dissolved	ug/L	10000	9930	99	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	1030	103	85-115	
Silver, Dissolved	ug/L	500	501	100	85-115	
Thallium, Dissolved	ug/L	1000	1040	104	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1360928 1360929

Parameter	Units	60166699001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	1040	50000	50000	52900	55200	104	108	70-130	4	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-266

Pace Project No.: 60166816

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1360928 1360929												
Parameter	Units	60166699001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
			Spike Conc.	Spike Conc.	Result	Result				RPD	RPD	
Antimony, Dissolved	ug/L	ND	5000	5000	5590	5820	111	115	70-130	4	7	
Arsenic, Dissolved	ug/L	800	5000	5000	6180	6760	108	119	70-130	9	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	4960	5140	99	103	70-130	4	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5390	5590	108	112	70-130	4	10	
Chromium, Dissolved	ug/L	159	5000	5000	5160	5380	100	105	70-130	4	10	
Cobalt, Dissolved	ug/L	29.2	5000	5000	5100	5180	101	103	70-130	2	6	
Copper, Dissolved	ug/L	ND	5000	5000	5480	5780	109	115	70-130	5	11	
Iron, Dissolved	ug/L	367000	50000	50000	344000	469000	-46	204	70-130	31	10	M1, R1
Lead, Dissolved	ug/L	46.3	5000	5000	4860	4910	96	97	70-130	1	10	
Nickel, Dissolved	ug/L	82.8	5000	5000	5080	5180	100	102	70-130	2	10	
Selenium, Dissolved	ug/L	ND	5000	5000	6040	6500	119	128	70-130	7	10	
Silver, Dissolved	ug/L	ND	2500	2500	2720	2880	109	115	70-130	6	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4620	4620	92	92	70-130	0	6	
Zinc, Dissolved	ug/L	5160	5000	5000	9000	10700	77	112	70-130	18	11	R1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-266

Pace Project No.: 60166816

QC Batch: MSV/60785 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60166816001, 60166816002

METHOD BLANK: 1360346

Matrix: Water

Associated Lab Samples: 60166816001, 60166816002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/15/14 12:15	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/15/14 12:15	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/15/14 12:15	
1,2-Dichloroethane	ug/L	ND	1.0	04/15/14 12:15	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/15/14 12:15	
2-Butanone (MEK)	ug/L	ND	10.0	04/15/14 12:15	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/15/14 12:15	N2
Acetone	ug/L	ND	10.0	04/15/14 12:15	N2
Benzene	ug/L	ND	1.0	04/15/14 12:15	
Bromodichloromethane	ug/L	ND	1.0	04/15/14 12:15	
Bromoform	ug/L	ND	1.0	04/15/14 12:15	
Bromomethane	ug/L	ND	5.0	04/15/14 12:15	
Carbon tetrachloride	ug/L	ND	1.0	04/15/14 12:15	
Chloroethane	ug/L	ND	1.0	04/15/14 12:15	
Chloroform	ug/L	ND	1.0	04/15/14 12:15	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/15/14 12:15	N2
Ethylbenzene	ug/L	ND	1.0	04/15/14 12:15	
Methylene chloride	ug/L	ND	1.0	04/15/14 12:15	
Tetrachloroethene	ug/L	ND	1.0	04/15/14 12:15	
Toluene	ug/L	ND	1.0	04/15/14 12:15	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/15/14 12:15	
Trichloroethene	ug/L	ND	1.0	04/15/14 12:15	
Vinyl chloride	ug/L	ND	1.0	04/15/14 12:15	
Xylene (Total)	ug/L	ND	3.0	04/15/14 12:15	N2
1,2-Dichloroethane-d4 (S)	%	107	80-120	04/15/14 12:15	
4-Bromofluorobenzene (S)	%	100	80-120	04/15/14 12:15	
Toluene-d8 (S)	%	108	80-120	04/15/14 12:15	

LABORATORY CONTROL SAMPLE: 1360347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.1	105	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	67-127	N2
1,1,2-Trichloroethane	ug/L	20	20.6	103	67-124	
1,2-Dichloroethane	ug/L	20	20.6	103	70-126	
1,4-Dichlorobenzene	ug/L	20	18.4	92	74-120	
2-Butanone (MEK)	ug/L	100	148	148	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	106	106	59-131	N2
Acetone	ug/L	100	195	195	38-134	L0,N2
Benzene	ug/L	20	20.6	103	75-120	
Bromodichloromethane	ug/L	20	19.4	97	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-266

Pace Project No.: 60166816

LABORATORY CONTROL SAMPLE: 1360347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.5	98	65-127	
Bromomethane	ug/L	20	13.7	69	13-157	
Carbon tetrachloride	ug/L	20	21.7	108	70-131	
Chloroethane	ug/L	20	21.3	107	47-133	
Chloroform	ug/L	20	19.4	97	65-127	
cis-1,2-Dichloroethene	ug/L	20	22.0	110	68-127	N2
Ethylbenzene	ug/L	20	20.2	101	74-122	
Methylene chloride	ug/L	20	17.8	89	64-129	
Tetrachloroethene	ug/L	20	20.1	100	73-125	
Toluene	ug/L	20	19.7	99	69-126	
trans-1,2-Dichloroethene	ug/L	20	22.4	112	66-129	
Trichloroethene	ug/L	20	20.6	103	71-123	
Vinyl chloride	ug/L	20	23.2	116	43-129	
Xylene (Total)	ug/L	60	59.8	100	75-121	N2
1,2-Dichloroethane-d4 (S)	%			106	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1360348

Parameter	Units	60166896001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	5810	116	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	4550	91	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4740	95	52-143	
1,2-Dichloroethane	ug/L	ND	5000	5170	103	49-144	
1,4-Dichlorobenzene	ug/L	400	5000	5040	93	33-140	
2-Butanone (MEK)	ug/L	70100	25000	93100	92	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	25100	97	40-160	N2
Acetone	ug/L	199000	25000	212000	53	10-160	N2
Benzene	ug/L	ND	5000	5810	116	37-151	
Bromodichloromethane	ug/L	ND	5000	5080	102	35-142	
Bromoform	ug/L	ND	5000	4670	93	45-142	
Bromomethane	ug/L	ND	5000	3980	80	10-158	
Carbon tetrachloride	ug/L	ND	5000	6660	133	70-140	
Chloroethane	ug/L	ND	5000	6130	123	19-152	
Chloroform	ug/L	ND	5000	5040	100	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	5340	107	34-147	N2
Ethylbenzene	ug/L	ND	5000	5210	104	40-142	
Methylene chloride	ug/L	ND	5000	4580	90	31-144	
Tetrachloroethene	ug/L	ND	5000	5490	110	64-148	
Toluene	ug/L	ND	5000	5460	109	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	5700	114	54-151	
Trichloroethene	ug/L	ND	5000	5450	109	71-149	
Vinyl chloride	ug/L	ND	5000	6480	130	22-146	
Xylene (Total)	ug/L	ND	15000	15800	106	37-144	N2
1,2-Dichloroethane-d4 (S)	%				112	80-120	
4-Bromofluorobenzene (S)	%				97	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-266

Pace Project No.: 60166816

MATRIX SPIKE SAMPLE: 1360348

Parameter	Units	60166896001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%					100	
Preservation pH		6.0		6.0		80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-266
Pace Project No.: 60166816

QC Batch:	OEXT/43670	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60166816001		

METHOD BLANK: 1360779 Matrix: Water
Associated Lab Samples: 60166816001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/16/14 12:37	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/16/14 12:37	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/16/14 12:37	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/16/14 12:37	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/16/14 12:37	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/16/14 12:37	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/16/14 12:37	
Hexachloroethane	ug/L	ND	5.0	04/16/14 12:37	
Naphthalene	ug/L	ND	5.0	04/16/14 12:37	
Nitrobenzene	ug/L	ND	5.0	04/16/14 12:37	
Pentachlorophenol	ug/L	ND	5.0	04/16/14 12:37	
Phenol	ug/L	ND	5.0	04/16/14 12:37	
2,4,6-Tribromophenol (S)	%	84	39-120	04/16/14 12:37	
2-Fluorobiphenyl (S)	%	84	39-120	04/16/14 12:37	
2-Fluorophenol (S)	%	46	17-120	04/16/14 12:37	
Nitrobenzene-d5 (S)	%	85	33-120	04/16/14 12:37	
Phenol-d6 (S)	%	30	11-120	04/16/14 12:37	
Terphenyl-d14 (S)	%	89	45-120	04/16/14 12:37	

LABORATORY CONTROL SAMPLE: 1360780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	43.0	86	46-120	
2,4,6-Trichlorophenol	ug/L	50	45.4	91	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	39.8	80	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	35.9	72	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	52.4	105	40-133	
Hexachloro-1,3-butadiene	ug/L	50	41.7	83	44-116	
Hexachlorocyclopentadiene	ug/L	100	68.4	68	24-120	
Hexachloroethane	ug/L	50	43.0	86	43-113	
Naphthalene	ug/L	50	44.7	89	48-120	
Nitrobenzene	ug/L	50	46.3	93	48-120	
Pentachlorophenol	ug/L	50	50.4	101	47-120	
Phenol	ug/L	50	20.5	41	16-112	
2,4,6-Tribromophenol (S)	%			96	39-120	
2-Fluorobiphenyl (S)	%			91	39-120	
2-Fluorophenol (S)	%			52	17-120	
Nitrobenzene-d5 (S)	%			93	33-120	
Phenol-d6 (S)	%			34	11-120	
Terphenyl-d14 (S)	%			98	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-266

Pace Project No.: 60166816

MATRIX SPIKE SAMPLE:		1360781					
Parameter	Units	60167011001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	40.5	81	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	43.7	87	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	50	31.6	63	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	28.7	57	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	50	51.6	103	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	39.7	79	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	72.9	73	11-120	
Hexachloroethane	ug/L	ND	50	38.6	77	40-113	
Naphthalene	ug/L	ND	50	42.1	84	45-120	
Nitrobenzene	ug/L	ND	50	62.8	126	38-120	M1
Pentachlorophenol	ug/L	ND	50	48.7	97	43-135	
Phenol	ug/L	ND	50	16.8	34	13-112	
2,4,6-Tribromophenol (S)	%				85	39-120	
2-Fluorobiphenyl (S)	%				92	39-120	
2-Fluorophenol (S)	%				47	17-120	
Nitrobenzene-d5 (S)	%				87	33-120	
Phenol-d6 (S)	%				32	11-120	
Terphenyl-d14 (S)	%				99	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-266

Pace Project No.: 60166816

QC Batch: WET/47304

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60166816001

METHOD BLANK: 1360612

Matrix: Water

Associated Lab Samples: 60166816001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/15/14 07:15	

LABORATORY CONTROL SAMPLE: 1360613

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.1	98	78-114	

MATRIX SPIKE SAMPLE: 1360616

Parameter	Units	60166641001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	44.9	43.9	95	78-114	

SAMPLE DUPLICATE: 1360617

Parameter	Units	60166641002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	2.4J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-266

Pace Project No.: 60166816

QC Batch: WET/47352

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60166816001

METHOD BLANK: 1361694

Matrix: Water

Associated Lab Samples: 60166816001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	04/16/14 14:56	

LABORATORY CONTROL SAMPLE: 1361695

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: 1361696

Parameter	Units	60166314001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	5.1	20.4	29.8	121	64-132	

SAMPLE DUPLICATE: 1361711

Parameter	Units	60166823001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	1.6J		34	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-266

Pace Project No.: 60166816

QC Batch: WET/47262

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60166816001

METHOD BLANK: 1358817

Matrix: Water

Associated Lab Samples: 60166816001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/11/14 13:11	

SAMPLE DUPLICATE: 1358818

Parameter	Units	60166681002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	35.0	31.0	12	10	D6

SAMPLE DUPLICATE: 1358819

Parameter	Units	60166703001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2480	2460	0	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-266

Pace Project No.: 60166816

QC Batch:	WET/47275	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
Associated Lab Samples:	60166816001		

SAMPLE DUPLICATE: 1359512

Parameter	Units	60165705001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.7	6.7	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-266

Pace Project No.: 60166816

QC Batch: WET/47270

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60166816001

METHOD BLANK: 1359178

Matrix: Water

Associated Lab Samples: 60166816001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/16/14 12:55	

LABORATORY CONTROL SAMPLE: 1359179

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	175	88	85-115	

SAMPLE DUPLICATE: 1359180

Parameter	Units	60166786004 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	214	205	4	17	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-266

Pace Project No.: 60166816

QC Batch: WETA/29020

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60166816001

METHOD BLANK: 1360315

Matrix: Water

Associated Lab Samples: 60166816001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/15/14 11:37	

LABORATORY CONTROL SAMPLE: 1360316

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1360317

Parameter	Units	60166789007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	4	2.3	58	90-110	M1

MATRIX SPIKE SAMPLE: 1360318

Parameter	Units	60166790001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1.5	2	3.0	77	90-110	M1

SAMPLE DUPLICATE: 1360319

Parameter	Units	60166791001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	7.9	8.0	1	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-266
Pace Project No.: 60166816

QC Batch:	WETA/29023	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60166816001		

METHOD BLANK: 1360535 Matrix: Water
Associated Lab Samples: 60166816001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	04/15/14 15:03	

LABORATORY CONTROL SAMPLE: 1360536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	51.2	102	90-110	

MATRIX SPIKE SAMPLE: 1360537

Parameter	Units	60166434001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	6360	5000	13500	143	90-110	M1

MATRIX SPIKE SAMPLE: 1360539

Parameter	Units	60166553002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	1770	2500	5020	130	90-110	M1

SAMPLE DUPLICATE: 1360538

Parameter	Units	60166434005 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	1930	2370	20	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-266

Pace Project No.: 60166816

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
D9	Dissolved result is greater than the total. Data is within laboratory control limits.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
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.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
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 316-266

Pace Project No.: 60166816

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60166816001	316-266	EPA 200.7	MPRP/26886	EPA 200.7	ICP/20418
60166816001	316-266	EPA 200.7	MPRP/26848	EPA 200.7	ICP/20396
60166816001	316-266	EPA 245.1	MERP/8306	EPA 245.1	MERC/8261
60166816001	316-266	EPA 245.1	MERP/8307	EPA 245.1	MERC/8260
60166816001	316-266	EPA 625	OEXT/43670	EPA 625	MSSV/13934
60166816001	316-266	EPA 624 Low	MSV/60785		
60166816002	TRIP BLANK	EPA 624 Low	MSV/60785		
60166816001	316-266	EPA 1664A	WET/47304		
60166816001	316-266	EPA 1664A	WET/47352		
60166816001	316-266	SM 2540D	WET/47262		
60166816001	316-266	SM 4500-H+B	WET/47275		
60166816001	316-266	SM 5210B	WET/47270	SM 5210B	WET/47348
60166816001	316-266	EPA 350.1	WETA/29020		
60166816001	316-266	EPA 410.4	WETA/29023		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60166816



60166816

Client Name: Barr Engineering

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

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

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

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

Thermometer Used: T-229 / T-194

Type of Ice: Wet Blue ☐ None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 1.8

Temperature should be above freezing to 6°C

Date and initials of person examining contents: 4/11/14 AB

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☐ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☒ Yes ☐ No ☐ N/A	6. <u>BOB, pH</u>
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	9.
Pace containers used:	☒ Yes ☐ No ☐ N/A	10.
Containers intact:	☒ Yes ☐ No ☐ N/A	11.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	12.
Filtered volume received for dissolved tests?	☐ Yes ☐ No ☒ N/A	13.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	14.
Includes date/time/ID/analyses Matrix: <u>WT</u>		15.
All containers needing preservation have been checked:	☒ Yes ☐ No ☐ N/A	16.
All containers needing preservation are found to be in compliance with EPA recommendation:	☒ Yes ☒ No ☐ N/A	17.
Exceptions: <u>VOA</u> , coliform, TOC, O&G, WI-DRO (water), Phenolics	☒ Yes ☐ No	18.
Trip Blank present:	☒ Yes ☐ No ☐ N/A	19.
Pace Trip Blank lot # (if purchased): <u>012714-3BEZ</u>		20.
Headspace in VOA vials (>6mm):	☐ Yes ☒ No ☐ N/A	21.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ N/A	22.

Client Notification/ Resolution:

Copy COC to Client? Y / N

Field Data Required? Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: 4/11/14

April 18, 2014

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

RE: Project: BRIDGETON TCLP FILTER CAKE
Pace Project No.: 60166825

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 11, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166825

New Orleans Certification IDs

California Env. Lab Accreditation Program Branch:
11277CA

Florida Department of Health (NELAC): E87595

Illinois Environmental Protection Agency: 0025721

Kansas Department of Health and Environment (NELAC):

E-10266

Louisiana Dept. of Environmental Quality (NELAC/LELAP):

02006

Oklahoma Department of Environmental Quality: 2010-
139

Oregon Environmental Laboratory Accreditation:

LA200001

Pennsylvania Dept. of Env Protection (NELAC): 68-04202

Texas Commission on Env. Quality (NELAC):

T104704405-09-TX

U.S. Dept. of Agriculture Foreign Soil Import: P330-10-
00119

Washington Department of Ecology: C2078

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 TCLP FILTER CAKE

Pace Project No.: 60166825

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60166825001	APPROVED STORAGE CAKE	Solid	04/09/14 15:15	04/11/14 01:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166825

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60166825001	APPROVED STORAGE CAKE	EPA 8081	TA	9	PASI-D
		EPA 8082	JDH	8	PASI-K
		EPA 8151	PMS	3	PASI-D
		EPA 6010	NDJ	7	PASI-K
		EPA 7470	TDS	1	PASI-K
		EPA 8270	JMT	18	PASI-K
		EPA 8260	JKL	13	PASI-K
		ASTM D2974	DWC	1	PASI-K
		SW-846 7.3.4.2	SMS2	1	PASI-N
		EPA 9045	DJR	1	PASI-K
		EPA 9095	AJM	1	PASI-K
		ASTM D92	NDL	1	PASI-K
		SW-846 7.3.3.2	LVA	1	PASI-N
		EPA 9023	JRP	1	PASI-N
		EPA 9065	LVA	1	PASI-N

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166825

Sample: APPROVED STORAGE CAKE **Lab ID:** 60166825001 Collected: 04/09/14 15:15 Received: 04/11/14 01:40 Matrix: Solid

Results reported on a "dry-weight" basis

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									
Leachate Method/Date: EPA 1311; 04/11/14 15:30									
gamma-BHC (Lindane)	ND mg/L		0.00020	.4	1	04/15/14 14:31	04/17/14 15:20	58-89-9	
Chlordane (Technical)	ND mg/L		0.0050	.03	1	04/15/14 14:31	04/17/14 15:20	57-74-9	
Endrin	ND mg/L		0.00020	.02	1	04/15/14 14:31	04/17/14 15:20	72-20-8	
Heptachlor	ND mg/L		0.00020	.008	1	04/15/14 14:31	04/17/14 15:20	76-44-8	
Heptachlor epoxide	ND mg/L		0.00050	.008	1	04/15/14 14:31	04/17/14 15:20	1024-57-3	
Methoxychlor	ND mg/L		0.00050	10	1	04/15/14 14:31	04/17/14 15:20	72-43-5	
Toxaphene	ND mg/L		0.010	.5	1	04/15/14 14:31	04/17/14 15:20	8001-35-2	
Surrogates									
Decachlorobiphenyl (S)	124 %.		40-140		1	04/15/14 14:31	04/17/14 15:20	2051-24-3	CH
Tetrachloro-m-xylene (S)	66 %.		40-140		1	04/15/14 14:31	04/17/14 15:20	877-09-8	
8082 GCS PCB SW									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND ug/kg		225000		500	04/11/14 00:00	04/16/14 15:50	12674-11-2	
PCB-1221 (Aroclor 1221)	ND ug/kg		450000		500	04/11/14 00:00	04/16/14 15:50	11104-28-2	
PCB-1232 (Aroclor 1232)	ND ug/kg		225000		500	04/11/14 00:00	04/16/14 15:50	11141-16-5	
PCB-1242 (Aroclor 1242)	ND ug/kg		225000		500	04/11/14 00:00	04/16/14 15:50	53469-21-9	
PCB-1248 (Aroclor 1248)	ND ug/kg		225000		500	04/11/14 00:00	04/16/14 15:50	12672-29-6	
PCB-1254 (Aroclor 1254)	ND ug/kg		225000		500	04/11/14 00:00	04/16/14 15:50	11097-69-1	
PCB-1260 (Aroclor 1260)	ND ug/kg		225000		500	04/11/14 00:00	04/16/14 15:50	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	0 %		38-119		500	04/11/14 00:00	04/16/14 15:50	2051-24-3	CL,D3, S4
8151 Chlorinate Herbicide TCLP									
Analytical Method: EPA 8151 Preparation Method: EPA 8151									
Leachate Method/Date: EPA 1311; 04/11/14 15:30									
2,4-D	ND mg/L		0.00050	10	1	04/16/14 08:43	04/16/14 22:25	94-75-7	
2,4,5-TP (Silvex)	ND mg/L		0.00050	1	1	04/16/14 08:43	04/16/14 22:25	93-72-1	
Surrogates									
2,4-DCAA (S)	24 %.		40-140		1	04/16/14 08:43	04/16/14 22:25	19719-28-9	S0
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/12/14 00:00									
Arsenic	ND mg/L		0.50	5	1	04/15/14 10:35	04/15/14 16:01	7440-38-2	
Barium	ND mg/L		2.5	100	1	04/15/14 10:35	04/15/14 16:01	7440-39-3	
Cadmium	ND mg/L		0.050	1	1	04/15/14 10:35	04/15/14 16:01	7440-43-9	
Chromium	ND mg/L		0.10	5	1	04/15/14 10:35	04/15/14 16:01	7440-47-3	
Lead	ND mg/L		0.50	5	1	04/15/14 10:35	04/15/14 16:01	7439-92-1	
Selenium	ND mg/L		0.50	1	1	04/15/14 10:35	04/15/14 16:01	7782-49-2	
Silver	ND mg/L		0.10	5	1	04/15/14 10:35	04/15/14 16:01	7440-22-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166825

Sample: APPROVED STORAGE **Lab ID:** 60166825001 **Collected:** 04/09/14 15:15 **Received:** 04/11/14 01:40 **Matrix:** Solid CAKE

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury, TCLP									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/12/14 00:00									
Mercury	ND	mg/L	0.0020	.2	1	04/14/14 10:00	04/14/14 15:15	7439-97-6	
8270 MSSV TCLP Sep Funnel									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Leachate Method/Date: EPA 1311; 07/12/14 00:00									
1,4-Dichlorobenzene	ND	ug/L	500	7500	5	04/14/14 00:00	04/14/14 13:12	106-46-7	
2,4-Dinitrotoluene	ND	ug/L	500	130	5	04/14/14 00:00	04/14/14 13:12	121-14-2	
Hexachloro-1,3-butadiene	ND	ug/L	500	500	5	04/14/14 00:00	04/14/14 13:12	87-68-3	
Hexachlorobenzene	ND	ug/L	500	130	5	04/14/14 00:00	04/14/14 13:12	118-74-1	
Hexachloroethane	ND	ug/L	500	3000	5	04/14/14 00:00	04/14/14 13:12	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	500	200000	5	04/14/14 00:00	04/14/14 13:12	95-48-7	
3&4-Methylphenol(m&p Cresol)	1370	ug/L	1000	200000	5	04/14/14 00:00	04/14/14 13:12		
Nitrobenzene	ND	ug/L	500	2000	5	04/14/14 00:00	04/14/14 13:12	98-95-3	
Pentachlorophenol	ND	ug/L	2500	100000	5	04/14/14 00:00	04/14/14 13:12	87-86-5	
Pyridine	ND	ug/L	500	5000	5	04/14/14 00:00	04/14/14 13:12	110-86-1	
2,4,5-Trichlorophenol	ND	ug/L	2500	400000	5	04/14/14 00:00	04/14/14 13:12	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	500	2000	5	04/14/14 00:00	04/14/14 13:12	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	153	%	44-120		5	04/14/14 00:00	04/14/14 13:12	4165-60-0	1e,S0
2-Fluorobiphenyl (S)	84	%	49-120		5	04/14/14 00:00	04/14/14 13:12	321-60-8	
Terphenyl-d14 (S)	82	%	52-122		5	04/14/14 00:00	04/14/14 13:12	1718-51-0	
Phenol-d6 (S)	80	%	36-120		5	04/14/14 00:00	04/14/14 13:12	13127-88-3	
2-Fluorophenol (S)	78	%	37-120		5	04/14/14 00:00	04/14/14 13:12	367-12-4	
2,4,6-Tribromophenol (S)	88	%	36-128		5	04/14/14 00:00	04/14/14 13:12	118-79-6	
8260 MSV TCLP									
Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 04/12/14 00:00									
Benzene	62.4	ug/L	50.0	500	1		04/13/14 17:32	71-43-2	
2-Butanone (MEK)	1180	ug/L	1000	200000	1		04/13/14 17:32	78-93-3	L1
Carbon tetrachloride	ND	ug/L	50.0	500	1		04/13/14 17:32	56-23-5	
Chlorobenzene	ND	ug/L	50.0	100000	1		04/13/14 17:32	108-90-7	
Chloroform	ND	ug/L	200	6000	1		04/13/14 17:32	67-66-3	
1,2-Dichloroethane	ND	ug/L	50.0	500	1		04/13/14 17:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	50.0	700	1		04/13/14 17:32	75-35-4	
Tetrachloroethene	ND	ug/L	50.0	700	1		04/13/14 17:32	127-18-4	
Trichloroethene	ND	ug/L	50.0	500	1		04/13/14 17:32	79-01-6	
Vinyl chloride	ND	ug/L	20.0	200	1		04/13/14 17:32	75-01-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	90	%	80-120		1		04/13/14 17:32	17060-07-0	
Toluene-d8 (S)	102	%	80-120		1		04/13/14 17:32	2037-26-5	
4-Bromofluorobenzene (S)	102	%	80-120		1		04/13/14 17:32	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	59.0	%	0.50		1		04/14/14 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166825

Sample: APPROVED STORAGE **Lab ID:** 60166825001 Collected: 04/09/14 15:15 Received: 04/11/14 01:40 Matrix: Solid
CAKE

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Reactive Sulfide	Analytical Method: SW-846 7.3.4.2		Preparation Method: SW-846 7.3.4.2						
Sulfide, Reactive	ND	mg/kg	50.0		1	04/15/14 11:30	04/15/14 14:10		
9045 pH Soil	Analytical Method: EPA 9045								
pH at 25 Degrees C	11.8	Std. Units	0.10		1		04/15/14 06:30		H3
9095 Paint Filter Liquid Test	Analytical Method: EPA 9095								
Free Liquids	negative				1		04/11/14 12:05		
Flashpoint, Open Cup	Analytical Method: ASTM D92								
Flashpoint	>210	deg F			1		04/16/14 11:00		
733C S Reactive Cyanide	Analytical Method: SW-846 7.3.3.2		Preparation Method: SW-846 7.3.3.2						
Cyanide, Reactive	ND	mg/kg	25.0		1	04/15/14 11:30	04/16/14 10:36		
9023 Ext. Organic Halides EOX	Analytical Method: EPA 9023		Preparation Method: EPA 9023						
Extractable Organic Halogens	292	mg/kg	125		1	04/15/14 10:00	04/15/14 11:49		
9065 Phenolics, Total	Analytical Method: EPA 9065		Preparation Method: EPA 9065						
Phenolics, Total Recoverable	388	mg/kg	36.6		100	04/15/14 11:41	04/16/14 14:18		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166825

QC Batch: MERP/8298

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury TCLP

Associated Lab Samples: 60166825001

METHOD BLANK: 1360143

Matrix: Water

Associated Lab Samples: 60166825001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	ND	0.0020	04/14/14 15:06	

LABORATORY CONTROL SAMPLE: 1360144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.005	0.0042	85	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1360145 1360146

Parameter	Units	60166829001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	.015	.015	0.016	0.014	106	93	75-125	13	20	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166825

QC Batch: MPRP/26837

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET TCLP

Associated Lab Samples: 60166825001

METHOD BLANK: 1360769

Matrix: Water

Associated Lab Samples: 60166825001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.50	04/15/14 15:53	
Barium	mg/L	ND	2.5	04/15/14 15:53	
Cadmium	mg/L	ND	0.050	04/15/14 15:53	
Chromium	mg/L	ND	0.10	04/15/14 15:53	
Lead	mg/L	ND	0.50	04/15/14 15:53	
Selenium	mg/L	ND	0.50	04/15/14 15:53	
Silver	mg/L	ND	0.10	04/15/14 15:53	

LABORATORY CONTROL SAMPLE: 1360770

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	1	0.92	92	80-120	
Barium	mg/L	1	0.96	96	80-120	
Cadmium	mg/L	1	0.93	93	80-120	
Chromium	mg/L	1	0.92	92	80-120	
Lead	mg/L	1	0.95	95	80-120	
Selenium	mg/L	1	0.93	93	80-120	
Silver	mg/L	.5	0.46	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1360771

1360772

Parameter	Units	60166829001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	10	10	9.4	9.5	94	95	75-125	1	20	
Barium	mg/L	ND	10	10	9.5	9.7	92	94	75-125	2	20	
Cadmium	mg/L	ND	10	10	9.3	9.4	93	94	75-125	1	20	
Chromium	mg/L	ND	10	10	8.9	9.0	89	90	75-125	1	20	
Lead	mg/L	ND	10	10	8.8	8.9	88	89	75-125	1	20	
Selenium	mg/L	ND	10	10	9.6	9.7	96	97	75-125	1	20	
Silver	mg/L	ND	5	5	4.6	4.7	93	93	75-125	1	20	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166825

QC Batch: MSV/60762

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV TCLP

Associated Lab Samples: 60166825001

METHOD BLANK: 1360066

Matrix: Water

Associated Lab Samples: 60166825001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	04/13/14 17:17	
1,2-Dichloroethane	ug/L	ND	50.0	04/13/14 17:17	
2-Butanone (MEK)	ug/L	ND	1000	04/13/14 17:17	
Benzene	ug/L	ND	50.0	04/13/14 17:17	
Carbon tetrachloride	ug/L	ND	50.0	04/13/14 17:17	
Chlorobenzene	ug/L	ND	50.0	04/13/14 17:17	
Chloroform	ug/L	ND	200	04/13/14 17:17	
Tetrachloroethene	ug/L	ND	50.0	04/13/14 17:17	
Trichloroethene	ug/L	ND	50.0	04/13/14 17:17	
Vinyl chloride	ug/L	ND	20.0	04/13/14 17:17	
1,2-Dichloroethane-d4 (S)	%	90	80-120	04/13/14 17:17	
4-Bromofluorobenzene (S)	%	94	80-120	04/13/14 17:17	
Toluene-d8 (S)	%	99	80-120	04/13/14 17:17	

LABORATORY CONTROL SAMPLE: 1360067

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	1000	1010	101	78-126	
1,2-Dichloroethane	ug/L	1000	934	93	77-123	
2-Butanone (MEK)	ug/L	5000	8360	167	52-145 L0	
Benzene	ug/L	1000	930	93	80-120	
Carbon tetrachloride	ug/L	1000	811	81	78-128	
Chlorobenzene	ug/L	1000	1020	102	80-120	
Chloroform	ug/L	1000	839	84	79-120	
Tetrachloroethene	ug/L	1000	1140	114	80-121	
Trichloroethene	ug/L	1000	1030	103	80-120	
Vinyl chloride	ug/L	1000	973	97	59-120	
1,2-Dichloroethane-d4 (S)	%			91	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Toluene-d8 (S)	%			102	80-120	

MATRIX SPIKE SAMPLE: 1360068

Parameter	Units	60166825001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	1000	1080	108	60-144	
1,2-Dichloroethane	ug/L	ND	1000	966	97	49-148	
2-Butanone (MEK)	ug/L	1180	5000	5560	88	36-145	
Benzene	ug/L	62.4	1000	1070	101	37-157	
Carbon tetrachloride	ug/L	ND	1000	940	94	68-142	
Chlorobenzene	ug/L	ND	1000	1070	106	66-133	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166825

MATRIX SPIKE SAMPLE:		1360068					
Parameter	Units	60166825001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloroform	ug/L	ND	1000	920	92	66-127	
Tetrachloroethene	ug/L	ND	1000	1290	129	69-133	
Trichloroethene	ug/L	ND	1000	1150	115	61-135	
Vinyl chloride	ug/L	ND	1000	971	97	44-128	
1,2-Dichloroethane-d4 (S)	%				93	80-120	
4-Bromofluorobenzene (S)	%				98	80-120	
Toluene-d8 (S)	%				101	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166825

QC Batch:	OEXT/3717	Analysis Method:	EPA 8081
QC Batch Method:	EPA 3510	Analysis Description:	8081 GCS TCLP Pesticides
Associated Lab Samples:	60166825001		

METHOD BLANK: 70959 Matrix: Water

Associated Lab Samples: 60166825001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chlordane (Technical)	mg/L	ND	0.00050	04/17/14 11:03	
Endrin	mg/L	ND	0.000020	04/17/14 11:03	
gamma-BHC (Lindane)	mg/L	ND	0.000020	04/17/14 11:03	
Heptachlor	mg/L	ND	0.000020	04/17/14 11:03	
Heptachlor epoxide	mg/L	ND	0.000050	04/17/14 11:03	
Methoxychlor	mg/L	ND	0.000050	04/17/14 11:03	
Toxaphene	mg/L	ND	0.0010	04/17/14 11:03	
Decachlorobiphenyl (S)	%	72	40-140	04/17/14 11:03	CH
Tetrachloro-m-xylene (S)	%	90	40-140	04/17/14 11:03	

LABORATORY CONTROL SAMPLE: 70960

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlordane (Technical)	mg/L		ND			
Endrin	mg/L	.001	0.0011	114	40-140	
gamma-BHC (Lindane)	mg/L	.001	0.0011	108	40-140	
Heptachlor	mg/L	.001	0.00094	94	40-140	
Heptachlor epoxide	mg/L	.001	0.00098	98	40-140	
Methoxychlor	mg/L	.001	0.0010	104	40-140	
Toxaphene	mg/L		ND			
Decachlorobiphenyl (S)	%			85	40-140	CH
Tetrachloro-m-xylene (S)	%			80	40-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 70961 70962

Parameter	Units	7513914001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlordane (Technical)	mg/L	ND			ND	ND					40	
Endrin	mg/L	ND	.01	.01	0.012	0.012	121	120	40-140	1	40	
gamma-BHC (Lindane)	mg/L	ND	.01	.01	0.010	0.010	104	101	40-140	2	40	
Heptachlor	mg/L	ND	.01	.01	0.0093	0.0087	93	87	40-140	7	40	
Heptachlor epoxide	mg/L	ND	.01	.01	0.010	0.0098	102	98	40-140	4	40	
Methoxychlor	mg/L	ND	.01	.01	0.0094	0.0087	94	87	40-140	8	40	
Toxaphene	mg/L	ND			ND	ND					40	
Decachlorobiphenyl (S)	%						69	62	40-140			CH
Tetrachloro-m-xylene (S)	%						79	76	40-140			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166825

QC Batch: OEXT/43617

Analysis Method: EPA 8082

QC Batch Method: EPA 3546

Analysis Description: 8082 GCS PCB

Associated Lab Samples: 60166825001

METHOD BLANK: 1359092

Matrix: Solid

Associated Lab Samples: 60166825001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	32.9	04/14/14 10:01	
PCB-1221 (Aroclor 1221)	ug/kg	ND	65.9	04/14/14 10:01	
PCB-1232 (Aroclor 1232)	ug/kg	ND	32.9	04/14/14 10:01	
PCB-1242 (Aroclor 1242)	ug/kg	ND	32.9	04/14/14 10:01	
PCB-1248 (Aroclor 1248)	ug/kg	ND	32.9	04/14/14 10:01	
PCB-1254 (Aroclor 1254)	ug/kg	ND	32.9	04/14/14 10:01	
PCB-1260 (Aroclor 1260)	ug/kg	ND	32.9	04/14/14 10:01	
Decachlorobiphenyl (S)	%	67	38-119	04/14/14 10:01	

LABORATORY CONTROL SAMPLE: 1359093

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	165	138	84	71-122	
PCB-1260 (Aroclor 1260)	ug/kg	165	137	83	75-117	
Decachlorobiphenyl (S)	%			80	38-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1359094 1359095

Parameter	Units	60166609001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	ND	2230	2050	14200	12100	639	590	20-160	16	35	M1
PCB-1260 (Aroclor 1260)	ug/kg	ND	2230	2050	2270	1900	102	93	17-160	18	34	
Decachlorobiphenyl (S)	%						75	70	38-119			

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166825

QC Batch: OEXT/3723

Analysis Method: EPA 8151

QC Batch Method: EPA 8151

Analysis Description: 8151 GCS TCLP Herbicides

Associated Lab Samples: 60166825001

METHOD BLANK: 71075

Matrix: Water

Associated Lab Samples: 60166825001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	mg/L	ND	0.000050	04/16/14 18:09	
2,4-D	mg/L	ND	0.000050	04/16/14 18:09	
2,4-DCAA (S)	%.	93	40-140	04/16/14 18:09	

LABORATORY CONTROL SAMPLE: 71076

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	mg/L	.002	0.0021	105	10-140	
2,4-D	mg/L	.002	0.0020	102	40-140	
2,4-DCAA (S)	%.			109	40-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 71077

71078

Parameter	Units	7513914001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4,5-TP (Silvex)	mg/L	ND	.02	.02	0.011	0.014	56	68	10-140	19	40	
2,4-DCAA (S)	%.						31	30	40-140			S0

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166825

QC Batch: OEXT/43627

Analysis Method: EPA 8270

QC Batch Method: EPA 3510

Analysis Description: 8270 TCLP MSSV

Associated Lab Samples: 60166825001

METHOD BLANK: 1360074

Matrix: Water

Associated Lab Samples: 60166825001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	100	04/14/14 11:49	
2,4,5-Trichlorophenol	ug/L	ND	500	04/14/14 11:49	
2,4,6-Trichlorophenol	ug/L	ND	100	04/14/14 11:49	
2,4-Dinitrotoluene	ug/L	ND	100	04/14/14 11:49	
2-Methylphenol(o-Cresol)	ug/L	ND	100	04/14/14 11:49	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	200	04/14/14 11:49	
Hexachloro-1,3-butadiene	ug/L	ND	100	04/14/14 11:49	
Hexachlorobenzene	ug/L	ND	100	04/14/14 11:49	
Hexachloroethane	ug/L	ND	100	04/14/14 11:49	
Nitrobenzene	ug/L	ND	100	04/14/14 11:49	
Pentachlorophenol	ug/L	ND	500	04/14/14 11:49	
Pyridine	ug/L	ND	100	04/14/14 11:49	
2,4,6-Tribromophenol (S)	%	104	36-128	04/14/14 11:49	
2-Fluorobiphenyl (S)	%	95	49-120	04/14/14 11:49	
2-Fluorophenol (S)	%	84	37-120	04/14/14 11:49	
Nitrobenzene-d5 (S)	%	99	44-120	04/14/14 11:49	
Phenol-d6 (S)	%	80	36-120	04/14/14 11:49	
Terphenyl-d14 (S)	%	103	52-122	04/14/14 11:49	

LABORATORY CONTROL SAMPLE: 1360075

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	500	407	81	47-120	
2,4,5-Trichlorophenol	ug/L	500	445J	89	51-124	
2,4,6-Trichlorophenol	ug/L	500	438	88	46-120	
2,4-Dinitrotoluene	ug/L	500	396	79	38-120	
2-Methylphenol(o-Cresol)	ug/L	500	385	77	46-120	
3&4-Methylphenol(m&p Cresol)	ug/L	1000	764	76	41-120	
Hexachloro-1,3-butadiene	ug/L	500	388	78	49-120	
Hexachlorobenzene	ug/L	500	406	81	50-120	
Hexachloroethane	ug/L	500	374	75	38-120	
Nitrobenzene	ug/L	500	432	86	49-120	
Pentachlorophenol	ug/L	500	440J	88	35-125	
Pyridine	ug/L	500	278	56	10-120	
2,4,6-Tribromophenol (S)	%			88	36-128	
2-Fluorobiphenyl (S)	%			87	49-120	
2-Fluorophenol (S)	%			74	37-120	
Nitrobenzene-d5 (S)	%			87	44-120	
Phenol-d6 (S)	%			72	36-120	
Terphenyl-d14 (S)	%			88	52-122	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166825

MATRIX SPIKE SAMPLE:		1360076					
Parameter	Units	60166609001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	500	794	79	48-120	
2,4,5-Trichlorophenol	ug/L	ND	500	435J	87	57-120	
2,4,6-Trichlorophenol	ug/L	ND	500	458J	92	48-120	
2,4-Dinitrotoluene	ug/L	ND	500	403J	81	38-120	
2-Methylphenol(o-Cresol)	ug/L	ND	500	479J	96	48-120	
3&4-Methylphenol(m&p Cresol)	ug/L	1100	1000	2020	91	47-120	
Hexachloro-1,3-butadiene	ug/L	ND	500	408J	82	49-120	
Hexachlorobenzene	ug/L	ND	500	418J	84	53-120	
Hexachloroethane	ug/L	ND	500	433J	87	38-120	
Nitrobenzene	ug/L	ND	500	507	101	51-120	
Pentachlorophenol	ug/L	ND	500	392J	78	34-131	
Pyridine	ug/L	ND	500	556	73	10-120	
2,4,6-Tribromophenol (S)	%				90	36-128	
2-Fluorobiphenyl (S)	%				85	49-120	
2-Fluorophenol (S)	%				83	37-120	
Nitrobenzene-d5 (S)	%				128	44-120	S0
Phenol-d6 (S)	%				82	36-120	
Terphenyl-d14 (S)	%				82	52-122	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166825

QC Batch: PMST/9569

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 60166825001

METHOD BLANK: 1360093

Matrix: Solid

Associated Lab Samples: 60166825001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	04/14/14 00:00	

SAMPLE DUPLICATE: 1360092

Parameter	Units	60166432001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.8	16.7	0	20	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166825

QC Batch: WET/1487

Analysis Method: SW-846 7.3.4.2

QC Batch Method: SW-846 7.3.4.2

Analysis Description: Reactive Sulfide

Associated Lab Samples: 60166825001

METHOD BLANK: 9072

Matrix: Solid

Associated Lab Samples: 60166825001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Reactive	mg/kg	ND	50.0	04/15/14 13:54	

LABORATORY CONTROL SAMPLE: 9073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Reactive	mg/kg	500	100	20	1-110	

MATRIX SPIKE SAMPLE: 9075

Parameter	Units	202507001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Reactive	mg/kg	ND	500	100	20	1-110	

SAMPLE DUPLICATE: 9074

Parameter	Units	202507001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Reactive	mg/kg	ND	ND		20	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166825

QC Batch: WET/47303

Analysis Method: EPA 9045

QC Batch Method: EPA 9045

Analysis Description: 9045 pH

Associated Lab Samples: 60166825001

SAMPLE DUPLICATE: 1360611

Parameter	Units	60166504008 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.0	8.0	0	3	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166825

QC Batch: WET/47266

Analysis Method: EPA 9095

QC Batch Method: EPA 9095

Analysis Description: 9095 PAINT FILTER LIQUID TEST

Associated Lab Samples: 60166825001

SAMPLE DUPLICATE: 1359003

Parameter	Units	60166825001 Result	Dup Result	RPD	Max RPD	Qualifiers
Free Liquids		negative	negative			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166825

QC Batch: WETA/1368

Analysis Method: SW-846 7.3.3.2

QC Batch Method: SW-846 7.3.3.2

Analysis Description: 733C Reactive Cyanide

Associated Lab Samples: 60166825001

METHOD BLANK: 9060

Matrix: Solid

Associated Lab Samples: 60166825001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide, Reactive	mg/kg	ND	25.0	04/15/14 16:01	

LABORATORY CONTROL SAMPLE: 9061

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide, Reactive	mg/kg	100	ND	35	1-110	

MATRIX SPIKE SAMPLE: 9063

Parameter	Units	202507001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide, Reactive	mg/kg	ND	100	ND	1	1-110	

SAMPLE DUPLICATE: 9076

Parameter	Units	202507001 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide, Reactive	mg/kg	ND	ND		20	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166825

QC Batch: WETA/1371

Analysis Method: EPA 9023

QC Batch Method: EPA 9023

Analysis Description: 9023 Extractable Organic Halides EOX

Associated Lab Samples: 60166825001

METHOD BLANK: 9082

Matrix: Solid

Associated Lab Samples: 60166825001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Extractable Organic Halogens	mg/kg	ND	50.4	04/15/14 11:36	

LABORATORY CONTROL SAMPLE: 9083

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Extractable Organic Halogens	mg/kg	956	873	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 9084

9085

Parameter	Units	60166825001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Extractable Organic Halogens	mg/kg	292	2510	2560	2270	2400	79	83	75-125	6	20	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166825

QC Batch: WETA/1366

Analysis Method: EPA 9065

QC Batch Method: EPA 9065

Analysis Description: 9065 Phenolics

Associated Lab Samples: 60166825001

METHOD BLANK: 9052

Matrix: Solid

Associated Lab Samples: 60166825001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	mg/kg	ND	0.15	04/18/14 14:02	

LABORATORY CONTROL SAMPLE: 9053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	mg/kg	2.5	2.6	104	80-120	

MATRIX SPIKE SAMPLE: 9055

Parameter	Units	60166609001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	mg/kg	345	6.06	287	-970	75-125	M6

SAMPLE DUPLICATE: 9054

Parameter	Units	60166609001 Result	Dup Result	RPD	Max RPD	Qualifiers
Phenolics, Total Recoverable	mg/kg	345	269	25	20	D6

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QUALIFIERS

Project: BRIDGETON TCLP FILTER CAKE
Pace Project No.: 60166825

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
PASI-N Pace Analytical Services - New Orleans

ANALYTE QUALIFIERS

1e Sample was diluted for high levels of target and non-target compounds.
CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
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.
H3 Sample was received or analysis requested beyond the recognized method holding time.
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.
M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
S0 Surrogate recovery outside laboratory control limits.
S4 Surrogate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON TCLP FILTER CAKE

Pace Project No.: 60166825

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60166825001	APPROVED STORAGE CAKE	EPA 3510	OEXT/3717	EPA 8081	GCSV/2448
60166825001	APPROVED STORAGE CAKE	EPA 3546	OEXT/43617	EPA 8082	GCSV/16617
60166825001	APPROVED STORAGE CAKE	EPA 8151	OEXT/3723	EPA 8151	GCSV/2449
60166825001	APPROVED STORAGE CAKE	EPA 3010	MPRP/26837	EPA 6010	ICP/20384
60166825001	APPROVED STORAGE CAKE	EPA 7470	MERP/8298	EPA 7470	MERC/8254
60166825001	APPROVED STORAGE CAKE	EPA 3510	OEXT/43627	EPA 8270	MSSV/13922
60166825001	APPROVED STORAGE CAKE	EPA 8260	MSV/60762		
60166825001	APPROVED STORAGE CAKE	ASTM D2974	PMST/9569		
60166825001	APPROVED STORAGE CAKE	SW-846 7.3.4.2	WET/1487	SW-846 7.3.4.2	WET/1492
60166825001	APPROVED STORAGE CAKE	EPA 9045	WET/47303		
60166825001	APPROVED STORAGE CAKE	EPA 9095	WET/47266		
60166825001	APPROVED STORAGE CAKE	ASTM D92	WET/47320		
60166825001	APPROVED STORAGE CAKE	SW-846 7.3.3.2	WETA/1368	SW-846 7.3.3.2	WETA/1378
60166825001	APPROVED STORAGE CAKE	EPA 9023	WETA/1371	EPA 9023	WETA/1374
60166825001	APPROVED STORAGE CAKE	EPA 9065	WETA/1366	EPA 9065	WETA/1380

REPORT OF LABORATORY ANALYSIS

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WO#: 60166825



60166825



Sample Condition Upon Receipt

Client Name: Barr Engineering

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

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-259 / T-194 Type of Ice: Wet ☒ Blue ☐ None ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 0.6

Temperature should be above freezing to 6°C

Date and initials of person examining contents: 4/11/14 [Signature]

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

Section A
Required Client Information:

Section B
Required Project Information:

Section C
Invoice Information:

Company: BARR ENGINEERING

Address:

Email To:

Phone:

Requested Due Date/TAT: RUSH/ASAP

Report To: ED GALBRAITH/BARR

Copy To: SCOTT FEDAK/FEEZOR

DANA BAKER/MARGARET TREANOR-BARR

Purchase Order No.: PO 3727110

Project Name: BRIDGETON TCLP FILTER CAKE

Project Number:

Attention: AMY HARGROVE/BRIAN POWER

Company Name: REPUBLIC SERVICES

Address: BRIDGETON, MO 63044

Pace Quote Reference:

Pace Project Manager: Angie Brown 913-563-1402

Pace Profile #: PROFILE 6787-LINE 6

Page: of

REGULATORY AGENCY

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

Site Location
STATE: MO

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test Y/N	Requested Analysis Filtered (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	TCLP VOCs	pH EPA 9045		Phenol EPA 9065*	flashpoint	PCB	Paint Filter	Reactive CN/S	TOX-EOX*	TCLP RCRA 8	TCLP SVOC	TCLP PEST/HERB	Residual Chlorine (Y/N)			
					DATE	TIME	DATE	TIME																										
1	JK RTF Lake Approved Storage Lake		SL	C	4/10/14	1515				5	5																						60146825	
2																																	4 Whku M	
3																																	** footnote %dry solids TCLP	
4																																	* SUB OUT TO NOLA	
5																																		
6																																		
7																																		
8																																		
9																																		
10																																		
11																																		
12																																		
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE		TIME		ACCEPTED BY / AFFILIATION			DATE		TIME		SAMPLE CONDITIONS																	
Rush TAT			[Signature] FBI			4/10/14		3:55 PM		Hunter King North E Brockett + Pace			4/10/14		3:55		4/11/14 0140 0.6 y y y																	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Hunter King

SIGNATURE of SAMPLER: [Signature]

DATE Signed (MM/DD/YY): 4/8/14

Temp in °C

Received on ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

Pace Analytical
www.pacelabs.com

Owner Received Date: 4/11/2014 Results Requested By: 4/16/2014

WO#: 7514099





Sample Condition Upon Receipt
Dallas

Client Name: Pace-Kansas Project Work order: 7514099

Courier: FedEX ☒ UPS ☐ USPS ☐ Client ☐ Courier ☐ LSO ☐ PACE ☐ Other: _____
Tracking#: 5689 1282 8850
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: 0.40°C (Temp should be above freezing to 6°C)

Chain of Custody Present	Yes ☒ No ☐ NA ☐	1
Chain of Custody filled out	Yes ☒ No ☐ NA ☐	2
Chain of Custody relinquished	Yes ☒ No ☐ NA ☐	3
Sampler name & signature on COC	Yes ☐ No ☒ NA ☐	4
Sample received within HT	Yes ☒ No ☐ NA ☐	5
Short HT analyses (<72 hrs)	Yes ☐ No ☒ NA ☐	6
Rush TAT requested	Yes ☒ No ☐ NA ☐	7
Sufficient Volume received	Yes ☒ No ☐ NA ☐	8
Correct Container used	Yes ☒ No ☐ NA ☐	9
Pace Container used	Yes ☒ No ☐ NA ☐	
Container Intact	Yes ☒ No ☐ NA ☐	10
Unpreserved 5035A soil frozen within 48 hrs	Yes ☐ No ☐ NA ☒	11
Filtered volume received for Dissolved tests	Yes ☐ No ☐ NA ☒	12
Sample labels match COC	Yes ☒ No ☐ NA ☐	13
Include date/time/ID/analyses	Matrix: <u>liquid</u>	
All containers needing preservation have been checked	Yes ☐ No ☐ NA ☒	14a. Lot# of pH strip: pH checked Yes ☐ No ☐ pH<2 ☐ pH>9 ☐ pH>12 ☐ Lot# of Iodine strip: _____ Lot# of Lead Acetate strip: _____
Do containers require preservation at the lab	Yes ☐ No ☐ NA ☒	14b. Preservation: _____ Lot#: _____
All containers needing preservation are found to be in Compliance with EPA recommendation	Yes ☐ No ☐ NA ☒	14c. _____
Exception: VOA, coliform, O&G	Yes ☐ No ☒	
Trip Blank present	Yes ☐ No ☐ NA ☒	15
Trip Blank Custody Seals Intact	Yes ☐ No ☐ NA ☒	
Pace Trip Blank Lot# (if purchased):		
Headspace in VOA (>6mm)	Yes ☐ No ☐ NA ☒	16
Project sampled in USDA Regulated Area:	Yes ☐ No ☐ NA ☒	17. List State _____

Client Notification/Resolution/Comments:

Person Contacted: _____ Date: _____
Comments/Resolution: _____

Person Examining Contents: ymm Date: 4-15-14

Sample Container Count



COC PAGE 1 of 1

COC ID# _____

Pace Project # 7514099

Sample Line Item	BP2N	AG1U	VG9U	VG9H	BP2S	BP1U	BP2U	BG1H	AG1S	BP2O	SP5T	WGFU	WGKU	AG2U	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						



Sample Co

1000 Riverbend Blvd., Suite F
St. Rose, LA 70087

WO#: 202555



202555

Courier: ☐ Pace Courier ☐ Hired Courier ☒ Fed X ☐ UPS ☐ DHL ☐ USPS ☐ Customer ☐ Other

Custody Seal on Cooler/Box Present: [see COC]

Custody Seals Intact: ☒ Yes ☐ NoThermometer
Used:

- ☐
- Therm Fisher IR 5
-
- ☐
- Therm Fisher IR 6
-
- ☒
- Therm Fisher IR 7

Type of Ice: Wet Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Temp should be above freezing to 6°C

Date and Initials of person examining
contents: 4-12-14 JWB

Temp must be measured from Temperature blank when present

Comments:

Temperature Blank Present?	☒ Yes ☐ No ☐ N/A	1
Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	2
Chain of Custody Complete:	☒ Yes ☐ No ☐ N/A	3
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	4
Sampler Name & Signature on COC:	☐ Yes ☒ No ☐ N/A	5
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	6
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	7
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	8 8 oz jars
Filtered vol. Rec. for Diss. tests	☐ Yes ☐ No ☒ N/A	9
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	10
All containers received within manufacture's precautionary and/or expiration dates.	☒ Yes ☐ No ☐ N/A	11
All containers needing chemical preservation have been checked (except VOA, coliform, & O&G).	☐ Yes ☐ No ☒ N/A	12
All containers preservation checked found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☒ N/A	13 If No, was preservative added? ☐ Yes ☐ No If added record lot no.: HNO3 _____ H2SO4 _____
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☐ N/A	14
Trip Blank Present:	☐ Yes ☒ No	15

Client Notification/ Resolution:

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

April 21, 2014

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

RE: Project: BRIDGETON LF 316-267
Pace Project No.: 60166896

Dear Ed Galbraith:

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

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.
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-267

Pace Project No.: 60166896

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 316-267

Pace Project No.: 60166896

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60166896001	316-267	Water	04/11/14 12:20	04/12/14 01:30
60166896002	TRIP BLANK	Water	04/11/14 00:00	04/12/14 01:30

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-267

Pace Project No.: 60166896

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60166896001	316-267	EPA 200.7	NDJ	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	NDL	1
		SM 5210B	DJR	1
		EPA 350.1	AJM	1
		EPA 410.4	NDL	1
		EPA 624 Low	EAK	28
60166896002	TRIP BLANK			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-267

Pace Project No.: 60166896

Sample: 316-267		Lab ID: 60166896001	Collected: 04/11/14 12:20	Received: 04/12/14 01:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	10300	ug/L	750	2	04/15/14 14:00	04/16/14 16:13	7429-90-5	D3	
Antimony	57.6	ug/L	50.0	1	04/15/14 14:00	04/16/14 16:06	7440-36-0		
Arsenic	1050	ug/L	50.0	1	04/15/14 14:00	04/16/14 16:06	7440-38-2		
Beryllium	ND	ug/L	5.0	1	04/15/14 14:00	04/16/14 16:06	7440-41-7		
Cadmium	ND	ug/L	25.0	1	04/15/14 14:00	04/16/14 16:06	7440-43-9		
Chromium	220	ug/L	25.0	1	04/15/14 14:00	04/16/14 16:06	7440-47-3		
Cobalt	40.4	ug/L	25.0	1	04/15/14 14:00	04/16/14 16:06	7440-48-4		
Copper	ND	ug/L	50.0	1	04/15/14 14:00	04/16/14 16:06	7440-50-8		
Iron	782000	ug/L	250	1	04/15/14 14:00	04/16/14 16:06	7439-89-6		
Lead	115	ug/L	25.0	1	04/15/14 14:00	04/16/14 16:06	7439-92-1		
Nickel	102	ug/L	25.0	1	04/15/14 14:00	04/16/14 16:06	7440-02-0		
Selenium	ND	ug/L	75.0	1	04/15/14 14:00	04/16/14 16:06	7782-49-2		
Silver	ND	ug/L	35.0	1	04/15/14 14:00	04/16/14 16:06	7440-22-4		
Thallium	ND	ug/L	100	1	04/15/14 14:00	04/16/14 16:06	7440-28-0		
Zinc	6190	ug/L	500	2	04/15/14 14:00	04/16/14 16:13	7440-66-6		
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	1160	ug/L	750	2	04/15/14 12:40	04/16/14 15:30	7429-90-5		
Antimony, Dissolved	ND	ug/L	100	2	04/15/14 12:40	04/16/14 15:30	7440-36-0		
Arsenic, Dissolved	972	ug/L	50.0	1	04/15/14 12:40	04/16/14 15:27	7440-38-2		
Beryllium, Dissolved	ND	ug/L	5.0	1	04/15/14 12:40	04/16/14 15:27	7440-41-7		
Cadmium, Dissolved	ND	ug/L	25.0	1	04/15/14 12:40	04/16/14 15:27	7440-43-9		
Chromium, Dissolved	187	ug/L	25.0	1	04/15/14 12:40	04/16/14 15:27	7440-47-3		
Cobalt, Dissolved	32.2	ug/L	25.0	1	04/15/14 12:40	04/16/14 15:27	7440-48-4		
Copper, Dissolved	ND	ug/L	50.0	1	04/15/14 12:40	04/16/14 15:27	7440-50-8		
Iron, Dissolved	416000	ug/L	250	1	04/15/14 12:40	04/16/14 15:27	7439-89-6		
Lead, Dissolved	46.8	ug/L	25.0	1	04/15/14 12:40	04/16/14 15:27	7439-92-1		
Nickel, Dissolved	96.2	ug/L	25.0	1	04/15/14 12:40	04/16/14 15:27	7440-02-0		
Selenium, Dissolved	ND	ug/L	75.0	1	04/15/14 12:40	04/16/14 15:27	7782-49-2		
Silver, Dissolved	ND	ug/L	35.0	1	04/15/14 12:40	04/16/14 15:27	7440-22-4		
Thallium, Dissolved	ND	ug/L	100	1	04/15/14 12:40	04/16/14 15:27	7440-28-0		
Zinc, Dissolved	5940	ug/L	500	2	04/15/14 12:40	04/16/14 15:30	7440-66-6		
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	18.7	ug/L	6.0	1	04/21/14 10:45	04/21/14 13:41	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	04/16/14 18:00	04/17/14 15:29	7439-97-6		
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	50.0	2	04/16/14 00:00	04/17/14 20:34	534-52-1	M1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	2	04/16/14 00:00	04/17/14 20:34	87-68-3		
Hexachlorocyclopentadiene	ND	ug/L	10.0	2	04/16/14 00:00	04/17/14 20:34	77-47-4		
Hexachloroethane	ND	ug/L	10.0	2	04/16/14 00:00	04/17/14 20:34	67-72-1		
2-Methylphenol(o-Cresol)	ND	ug/L	20.0	2	04/16/14 00:00	04/17/14 20:34	95-48-7		
3&4-Methylphenol(m&p Cresol)	77.1	ug/L	40.0	2	04/16/14 00:00	04/17/14 20:34		N2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-267

Pace Project No.: 60166896

Sample: 316-267		Lab ID: 60166896001	Collected: 04/11/14 12:20	Received: 04/12/14 01:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	ND ug/L		10.0	2	04/16/14 00:00	04/17/14 20:34	91-20-3	
Nitrobenzene	ND ug/L		10.0	2	04/16/14 00:00	04/17/14 20:34	98-95-3	
Pentachlorophenol	ND ug/L		10.0	2	04/16/14 00:00	04/17/14 20:34	87-86-5	
Phenol	115 ug/L		10.0	2	04/16/14 00:00	04/17/14 20:34	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		10.0	2	04/16/14 00:00	04/17/14 20:34	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		10.0	2	04/16/14 00:00	04/17/14 20:34	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	157 %		33-120	2	04/16/14 00:00	04/17/14 20:34	4165-60-0	S0
2-Fluorobiphenyl (S)	88 %		39-120	2	04/16/14 00:00	04/17/14 20:34	321-60-8	
Terphenyl-d14 (S)	99 %		45-120	2	04/16/14 00:00	04/17/14 20:34	1718-51-0	
Phenol-d6 (S)	48 %		11-120	2	04/16/14 00:00	04/17/14 20:34	13127-88-3	
2-Fluorophenol (S)	42 %		17-120	2	04/16/14 00:00	04/17/14 20:34	367-12-4	
2,4,6-Tribromophenol (S)	94 %		39-120	2	04/16/14 00:00	04/17/14 20:34	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	199000 ug/L		2500	250		04/15/14 14:05	67-64-1	L1,N2
Benzene	ND ug/L		250	250		04/15/14 14:05	71-43-2	
Bromodichloromethane	ND ug/L		250	250		04/15/14 14:05	75-27-4	
Bromoform	ND ug/L		250	250		04/15/14 14:05	75-25-2	
Bromomethane	ND ug/L		1250	250		04/15/14 14:05	74-83-9	
2-Butanone (MEK)	70100 ug/L		2500	250		04/15/14 14:05	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		04/15/14 14:05	56-23-5	
Chloroethane	ND ug/L		250	250		04/15/14 14:05	75-00-3	
Chloroform	ND ug/L		250	250		04/15/14 14:05	67-66-3	
1,4-Dichlorobenzene	400 ug/L		250	250		04/15/14 14:05	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		04/15/14 14:05	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		04/15/14 14:05	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		04/15/14 14:05	156-60-5	
Ethylbenzene	ND ug/L		250	250		04/15/14 14:05	100-41-4	
Methylene chloride	ND ug/L		250	250		04/15/14 14:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		04/15/14 14:05	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		04/15/14 14:05	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		04/15/14 14:05	127-18-4	
Toluene	ND ug/L		250	250		04/15/14 14:05	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		04/15/14 14:05	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		04/15/14 14:05	79-00-5	
Trichloroethene	ND ug/L		250	250		04/15/14 14:05	79-01-6	
Vinyl chloride	ND ug/L		250	250		04/15/14 14:05	75-01-4	
Xylene (Total)	ND ug/L		750	250		04/15/14 14:05	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	99 %		80-120	250		04/15/14 14:05	460-00-4	
Toluene-d8 (S)	99 %		80-120	250		04/15/14 14:05	2037-26-5	
1,2-Dichloroethane-d4 (S)	113 %		80-120	250		04/15/14 14:05	17060-07-0	
Preservation pH	6.0		1.0	250		04/15/14 14:05		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1770 mg/L		5.0	1		04/16/14 11:24		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-267

Pace Project No.: 60166896

Sample: 316-267		Lab ID: 60166896001	Collected: 04/11/14 12:20	Received: 04/12/14 01:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	20.8	mg/L	5.0	1		04/16/14 14:59		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	4140	mg/L	5.0	1		04/14/14 08:53		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.2	Std. Units	0.10	1		04/14/14 08:30		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	31700	mg/L	2.0	1	04/12/14 11:20	04/17/14 10:55		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	609	mg/L	20.0	200		04/15/14 11:57	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	71900	mg/L	10000	1000		04/18/14 13:37		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-267

Pace Project No.: 60166896

Sample: TRIP BLANK		Lab ID: 60166896002	Collected: 04/11/14 00:00	Received: 04/12/14 01:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		04/15/14 14:36	67-64-1	L3,N2
Benzene	ND ug/L		1.0	1		04/15/14 14:36	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/15/14 14:36	75-27-4	
Bromoform	ND ug/L		1.0	1		04/15/14 14:36	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/15/14 14:36	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/15/14 14:36	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		04/15/14 14:36	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/15/14 14:36	75-00-3	
Chloroform	ND ug/L		1.0	1		04/15/14 14:36	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/15/14 14:36	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/15/14 14:36	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/15/14 14:36	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/15/14 14:36	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/15/14 14:36	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/15/14 14:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/15/14 14:36	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/15/14 14:36	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/15/14 14:36	127-18-4	
Toluene	ND ug/L		1.0	1		04/15/14 14:36	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/15/14 14:36	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/15/14 14:36	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/15/14 14:36	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/15/14 14:36	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/15/14 14:36	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	1		04/15/14 14:36	460-00-4	
Toluene-d8 (S)	100 %		80-120	1		04/15/14 14:36	2037-26-5	
1,2-Dichloroethane-d4 (S)	98 %		80-120	1		04/15/14 14:36	17060-07-0	
Preservation pH	6.0		1.0	1		04/15/14 14:36		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-267

Pace Project No.: 60166896

QC Batch:	MERP/8315	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60166896001		

METHOD BLANK: 1364104 Matrix: Water

Associated Lab Samples: 60166896001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/21/14 13:37	

LABORATORY CONTROL SAMPLE: 1364105

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1364106 1364107

Parameter	Units	60166911001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	3.7	3.8	74	75	70-130	2	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-267

Pace Project No.: 60166896

QC Batch: MERP/8307

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60166896001

METHOD BLANK: 1361868

Matrix: Water

Associated Lab Samples: 60166896001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/17/14 15:13	

LABORATORY CONTROL SAMPLE: 1361869

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.9	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1361870 1361871

Parameter	Units	60167111001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	71.7	77.1	48	51	70-130	7	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-267
Pace Project No.: 60166896

QC Batch: MPRP/26834 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60166896001

METHOD BLANK: 1360690 Matrix: Water
Associated Lab Samples: 60166896001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/16/14 15:57	
Antimony	ug/L	ND	10.0	04/16/14 15:57	
Arsenic	ug/L	ND	10.0	04/16/14 15:57	
Beryllium	ug/L	ND	1.0	04/16/14 15:57	
Cadmium	ug/L	ND	5.0	04/16/14 15:57	
Chromium	ug/L	ND	5.0	04/16/14 15:57	
Cobalt	ug/L	ND	5.0	04/16/14 15:57	
Copper	ug/L	ND	10.0	04/16/14 15:57	
Iron	ug/L	ND	50.0	04/16/14 15:57	
Lead	ug/L	ND	5.0	04/16/14 15:57	
Nickel	ug/L	ND	5.0	04/16/14 15:57	
Selenium	ug/L	ND	15.0	04/16/14 15:57	
Silver	ug/L	ND	7.0	04/16/14 15:57	
Thallium	ug/L	ND	20.0	04/16/14 15:57	
Zinc	ug/L	ND	50.0	04/16/14 15:57	

LABORATORY CONTROL SAMPLE: 1360691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9860	99	85-115	
Antimony	ug/L	1000	1000	100	85-115	
Arsenic	ug/L	1000	966	97	85-115	
Beryllium	ug/L	1000	985	98	85-115	
Cadmium	ug/L	1000	986	99	85-115	
Chromium	ug/L	1000	977	98	85-115	
Cobalt	ug/L	1000	1000	100	85-115	
Copper	ug/L	1000	966	97	85-115	
Iron	ug/L	10000	9940	99	85-115	
Lead	ug/L	1000	1010	101	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	988	99	85-115	
Silver	ug/L	500	479	96	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	1000	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1360692 1360693

Parameter	Units	60166660002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	ND	10000	10000	10000	10000	100	100	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-267

Pace Project No.: 60166896

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1360692 1360693											
Parameter	Units	60166660002		MS	MSD	1360693		MS	MSD	% Rec	Max
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	RPD
Antimony	ug/L	ND	1000	1000	1000	1040	1040	104	104	70-130	0
Arsenic	ug/L	ND	1000	1000	1000	1010	1010	101	101	70-130	0
Beryllium	ug/L	ND	1000	1000	1000	985	992	99	99	70-130	1
Cadmium	ug/L	ND	1000	1000	1000	1010	1010	101	101	70-130	0
Chromium	ug/L	ND	1000	1000	1000	977	984	98	98	70-130	1
Cobalt	ug/L	ND	1000	1000	1000	994	996	99	100	70-130	0
Copper	ug/L	ND	1000	1000	1000	989	997	98	99	70-130	1
Iron	ug/L	ND	10000	10000	10000	10000	10000	100	100	70-130	0
Lead	ug/L	ND	1000	1000	1000	988	985	99	98	70-130	0
Nickel	ug/L	9.1	1000	1000	1000	1010	1020	100	101	70-130	0
Selenium	ug/L	ND	1000	1000	1000	1010	1020	101	102	70-130	1
Silver	ug/L	ND	500	500	500	481	481	96	96	70-130	0
Thallium	ug/L	ND	1000	1000	1000	995	992	100	99	70-130	0
Zinc	ug/L	ND	1000	1000	1000	1010	1010	99	99	70-130	0

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-267
Pace Project No.: 60166896

QC Batch: MPRP/26848 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60166896001

METHOD BLANK: 1360926 Matrix: Water
Associated Lab Samples: 60166896001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/16/14 14:47	
Antimony, Dissolved	ug/L	ND	10.0	04/16/14 14:47	
Arsenic, Dissolved	ug/L	ND	10.0	04/16/14 14:47	
Beryllium, Dissolved	ug/L	ND	1.0	04/16/14 14:47	
Cadmium, Dissolved	ug/L	ND	5.0	04/16/14 14:47	
Chromium, Dissolved	ug/L	ND	5.0	04/16/14 14:47	
Cobalt, Dissolved	ug/L	ND	5.0	04/16/14 14:47	
Copper, Dissolved	ug/L	ND	10.0	04/16/14 14:47	
Iron, Dissolved	ug/L	ND	50.0	04/16/14 14:47	
Lead, Dissolved	ug/L	ND	5.0	04/16/14 14:47	
Nickel, Dissolved	ug/L	ND	5.0	04/16/14 14:47	
Selenium, Dissolved	ug/L	ND	15.0	04/16/14 14:47	
Silver, Dissolved	ug/L	ND	7.0	04/16/14 14:47	
Thallium, Dissolved	ug/L	ND	20.0	04/16/14 14:47	
Zinc, Dissolved	ug/L	ND	50.0	04/16/14 14:47	

LABORATORY CONTROL SAMPLE: 1360927

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	1060	106	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	1020	102	85-115	
Chromium, Dissolved	ug/L	1000	1020	102	85-115	
Cobalt, Dissolved	ug/L	1000	1040	104	85-115	
Copper, Dissolved	ug/L	1000	1020	102	85-115	
Iron, Dissolved	ug/L	10000	9930	99	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	1030	103	85-115	
Silver, Dissolved	ug/L	500	501	100	85-115	
Thallium, Dissolved	ug/L	1000	1040	104	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1360928 1360929

Parameter	Units	60166699001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	1040	50000	50000	52900	55200	104	108	70-130	4	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-267

Pace Project No.: 60166896

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1360928 1360929												
Parameter	Units	60166699001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Antimony, Dissolved	ug/L	ND	5000	5000	5590	5820	111	115	70-130	4	7	
Arsenic, Dissolved	ug/L	800	5000	5000	6180	6760	108	119	70-130	9	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	4960	5140	99	103	70-130	4	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5390	5590	108	112	70-130	4	10	
Chromium, Dissolved	ug/L	159	5000	5000	5160	5380	100	105	70-130	4	10	
Cobalt, Dissolved	ug/L	29.2	5000	5000	5100	5180	101	103	70-130	2	6	
Copper, Dissolved	ug/L	ND	5000	5000	5480	5780	109	115	70-130	5	11	
Iron, Dissolved	ug/L	367000	50000	50000	344000	469000	-46	204	70-130	31	10	M1, R1
Lead, Dissolved	ug/L	46.3	5000	5000	4860	4910	96	97	70-130	1	10	
Nickel, Dissolved	ug/L	82.8	5000	5000	5080	5180	100	102	70-130	2	10	
Selenium, Dissolved	ug/L	ND	5000	5000	6040	6500	119	128	70-130	7	10	
Silver, Dissolved	ug/L	ND	2500	2500	2720	2880	109	115	70-130	6	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4620	4620	92	92	70-130	0	6	
Zinc, Dissolved	ug/L	5160	5000	5000	9000	10700	77	112	70-130	18	11	R1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-267

Pace Project No.: 60166896

QC Batch: MSV/60785 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60166896001, 60166896002

METHOD BLANK: 1360346

Matrix: Water

Associated Lab Samples: 60166896001, 60166896002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/15/14 12:15	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/15/14 12:15	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/15/14 12:15	
1,2-Dichloroethane	ug/L	ND	1.0	04/15/14 12:15	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/15/14 12:15	
2-Butanone (MEK)	ug/L	ND	10.0	04/15/14 12:15	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/15/14 12:15	N2
Acetone	ug/L	ND	10.0	04/15/14 12:15	N2
Benzene	ug/L	ND	1.0	04/15/14 12:15	
Bromodichloromethane	ug/L	ND	1.0	04/15/14 12:15	
Bromoform	ug/L	ND	1.0	04/15/14 12:15	
Bromomethane	ug/L	ND	5.0	04/15/14 12:15	
Carbon tetrachloride	ug/L	ND	1.0	04/15/14 12:15	
Chloroethane	ug/L	ND	1.0	04/15/14 12:15	
Chloroform	ug/L	ND	1.0	04/15/14 12:15	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/15/14 12:15	N2
Ethylbenzene	ug/L	ND	1.0	04/15/14 12:15	
Methylene chloride	ug/L	ND	1.0	04/15/14 12:15	
Tetrachloroethene	ug/L	ND	1.0	04/15/14 12:15	
Toluene	ug/L	ND	1.0	04/15/14 12:15	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/15/14 12:15	
Trichloroethene	ug/L	ND	1.0	04/15/14 12:15	
Vinyl chloride	ug/L	ND	1.0	04/15/14 12:15	
Xylene (Total)	ug/L	ND	3.0	04/15/14 12:15	N2
1,2-Dichloroethane-d4 (S)	%	107	80-120	04/15/14 12:15	
4-Bromofluorobenzene (S)	%	100	80-120	04/15/14 12:15	
Toluene-d8 (S)	%	108	80-120	04/15/14 12:15	

LABORATORY CONTROL SAMPLE: 1360347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.1	105	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	67-127	N2
1,1,2-Trichloroethane	ug/L	20	20.6	103	67-124	
1,2-Dichloroethane	ug/L	20	20.6	103	70-126	
1,4-Dichlorobenzene	ug/L	20	18.4	92	74-120	
2-Butanone (MEK)	ug/L	100	148	148	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	106	106	59-131	N2
Acetone	ug/L	100	195	195	38-134	L0,N2
Benzene	ug/L	20	20.6	103	75-120	
Bromodichloromethane	ug/L	20	19.4	97	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-267

Pace Project No.: 60166896

LABORATORY CONTROL SAMPLE: 1360347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.5	98	65-127	
Bromomethane	ug/L	20	13.7	69	13-157	
Carbon tetrachloride	ug/L	20	21.7	108	70-131	
Chloroethane	ug/L	20	21.3	107	47-133	
Chloroform	ug/L	20	19.4	97	65-127	
cis-1,2-Dichloroethene	ug/L	20	22.0	110	68-127	N2
Ethylbenzene	ug/L	20	20.2	101	74-122	
Methylene chloride	ug/L	20	17.8	89	64-129	
Tetrachloroethene	ug/L	20	20.1	100	73-125	
Toluene	ug/L	20	19.7	99	69-126	
trans-1,2-Dichloroethene	ug/L	20	22.4	112	66-129	
Trichloroethene	ug/L	20	20.6	103	71-123	
Vinyl chloride	ug/L	20	23.2	116	43-129	
Xylene (Total)	ug/L	60	59.8	100	75-121	N2
1,2-Dichloroethane-d4 (S)	%			106	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1360348

Parameter	Units	60166896001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	5810	116	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	4550	91	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4740	95	52-143	
1,2-Dichloroethane	ug/L	ND	5000	5170	103	49-144	
1,4-Dichlorobenzene	ug/L	400	5000	5040	93	33-140	
2-Butanone (MEK)	ug/L	70100	25000	93100	92	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	25100	97	40-160	N2
Acetone	ug/L	199000	25000	212000	53	10-160	N2
Benzene	ug/L	ND	5000	5810	116	37-151	
Bromodichloromethane	ug/L	ND	5000	5080	102	35-142	
Bromoform	ug/L	ND	5000	4670	93	45-142	
Bromomethane	ug/L	ND	5000	3980	80	10-158	
Carbon tetrachloride	ug/L	ND	5000	6660	133	70-140	
Chloroethane	ug/L	ND	5000	6130	123	19-152	
Chloroform	ug/L	ND	5000	5040	100	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	5340	107	34-147	N2
Ethylbenzene	ug/L	ND	5000	5210	104	40-142	
Methylene chloride	ug/L	ND	5000	4580	90	31-144	
Tetrachloroethene	ug/L	ND	5000	5490	110	64-148	
Toluene	ug/L	ND	5000	5460	109	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	5700	114	54-151	
Trichloroethene	ug/L	ND	5000	5450	109	71-149	
Vinyl chloride	ug/L	ND	5000	6480	130	22-146	
Xylene (Total)	ug/L	ND	15000	15800	106	37-144	N2
1,2-Dichloroethane-d4 (S)	%				112	80-120	
4-Bromofluorobenzene (S)	%				97	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-267

Pace Project No.: 60166896

MATRIX SPIKE SAMPLE:		1360348					
Parameter	Units	60166896001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%					100	
Preservation pH		6.0		6.0		80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-267
Pace Project No.: 60166896

QC Batch:	OEXT/43678	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60166896001		

METHOD BLANK: 1361289 Matrix: Water
Associated Lab Samples: 60166896001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/17/14 10:34	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/17/14 10:34	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/17/14 10:34	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/17/14 10:34	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/17/14 10:34	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/17/14 10:34	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/17/14 10:34	
Hexachloroethane	ug/L	ND	5.0	04/17/14 10:34	
Naphthalene	ug/L	ND	5.0	04/17/14 10:34	
Nitrobenzene	ug/L	ND	5.0	04/17/14 10:34	
Pentachlorophenol	ug/L	ND	5.0	04/17/14 10:34	
Phenol	ug/L	ND	5.0	04/17/14 10:34	
2,4,6-Tribromophenol (S)	%	77	39-120	04/17/14 10:34	
2-Fluorobiphenyl (S)	%	78	39-120	04/17/14 10:34	
2-Fluorophenol (S)	%	43	17-120	04/17/14 10:34	
Nitrobenzene-d5 (S)	%	77	33-120	04/17/14 10:34	
Phenol-d6 (S)	%	28	11-120	04/17/14 10:34	
Terphenyl-d14 (S)	%	82	45-120	04/17/14 10:34	

LABORATORY CONTROL SAMPLE: 1361290

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	40.1	80	46-120	
2,4,6-Trichlorophenol	ug/L	50	42.4	85	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	37.6	75	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	33.8	68	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	46.8	94	40-133	
Hexachloro-1,3-butadiene	ug/L	50	37.9	76	44-116	
Hexachlorocyclopentadiene	ug/L	100	57.7	58	24-120	
Hexachloroethane	ug/L	50	41.0	82	43-113	
Naphthalene	ug/L	50	41.5	83	48-120	
Nitrobenzene	ug/L	50	41.6	83	48-120	
Pentachlorophenol	ug/L	50	45.0	90	47-120	
Phenol	ug/L	50	19.0	38	16-112	
2,4,6-Tribromophenol (S)	%			88	39-120	
2-Fluorobiphenyl (S)	%			86	39-120	
2-Fluorophenol (S)	%			47	17-120	
Nitrobenzene-d5 (S)	%			84	33-120	
Phenol-d6 (S)	%			31	11-120	
Terphenyl-d14 (S)	%			89	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-267

Pace Project No.: 60166896

MATRIX SPIKE SAMPLE:		1361291					
Parameter	Units	60166896001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	40.6	81	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	55.3	111	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	50	47.2	94	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	77.1	50	134	113	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	50	17.1J	34	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	40.9	82	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	ND	0	11-120	M1
Hexachloroethane	ug/L	ND	50	47.0	94	40-113	
Naphthalene	ug/L	ND	50	66.4	114	45-120	
Nitrobenzene	ug/L	ND	50	44.6	89	38-120	
Pentachlorophenol	ug/L	ND	50	53.3	107	43-135	
Phenol	ug/L	115	50	152	75	13-112	
2,4,6-Tribromophenol (S)	%				102	39-120	
2-Fluorobiphenyl (S)	%				105	39-120	
2-Fluorophenol (S)	%				51	17-120	
Nitrobenzene-d5 (S)	%				162	33-120	S0
Phenol-d6 (S)	%				52	11-120	
Terphenyl-d14 (S)	%				111	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-267

Pace Project No.: 60166896

QC Batch: WET/47343

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60166896001

METHOD BLANK: 1361555

Matrix: Water

Associated Lab Samples: 60166896001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/16/14 11:18	

LABORATORY CONTROL SAMPLE: 1361556

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	41.3	103	78-114	

MATRIX SPIKE SAMPLE: 1361557

Parameter	Units	60167018001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	41.7	43.1	99	78-114	

SAMPLE DUPLICATE: 1361558

Parameter	Units	60167011001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1.2J	2.9J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-267

Pace Project No.: 60166896

QC Batch: WET/47352

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60166896001

METHOD BLANK: 1361694

Matrix: Water

Associated Lab Samples: 60166896001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	04/16/14 14:56	

LABORATORY CONTROL SAMPLE: 1361695

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: 1361696

Parameter	Units	60166314001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	5.1	20.4	29.8	121	64-132	

SAMPLE DUPLICATE: 1361711

Parameter	Units	60166823001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	1.6J		34	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-267

Pace Project No.: 60166896

QC Batch: WET/47284

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60166896001

METHOD BLANK: 1360114

Matrix: Water

Associated Lab Samples: 60166896001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/14/14 08:49	

SAMPLE DUPLICATE: 1360115

Parameter	Units	60166746003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 1360116

Parameter	Units	60166817001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	7.0	7.0	0	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-267

Pace Project No.: 60166896

QC Batch:	WET/47275	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
Associated Lab Samples:	60166896001		

SAMPLE DUPLICATE: 1359512

Parameter	Units	60165705001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.7	6.7	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-267

Pace Project No.: 60166896

QC Batch: WET/47276

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60166896001

METHOD BLANK: 1359523

Matrix: Water

Associated Lab Samples: 60166896001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/17/14 10:06	

LABORATORY CONTROL SAMPLE: 1359524

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	175	88	85-115	

SAMPLE DUPLICATE: 1359525

Parameter	Units	60166862002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	4010	4590	13	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-267

Pace Project No.: 60166896

QC Batch:	WETA/29020	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60166896001		

METHOD BLANK: 1360315 Matrix: Water
Associated Lab Samples: 60166896001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/15/14 11:37	

LABORATORY CONTROL SAMPLE: 1360316

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1360317

Parameter	Units	60166789007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	4	2.3	58	90-110	M1

MATRIX SPIKE SAMPLE: 1360318

Parameter	Units	60166790001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1.5	2	3.0	77	90-110	M1

SAMPLE DUPLICATE: 1360319

Parameter	Units	60166791001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	7.9	8.0	1	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-267

Pace Project No.: 60166896

QC Batch:	WETA/29049	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60166896001		

METHOD BLANK: 1362044 Matrix: Water

Associated Lab Samples: 60166896001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	04/18/14 13:27	

LABORATORY CONTROL SAMPLE: 1362045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	53.7	107	90-110	

MATRIX SPIKE SAMPLE: 1362046

Parameter	Units	60166896001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	71900	50000	121000	99	90-110	

MATRIX SPIKE SAMPLE: 1362048

Parameter	Units	6016666001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	239	200	437	99	90-110	

SAMPLE DUPLICATE: 1362047

Parameter	Units	60166994002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	4520	4520	0	25	

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QUALIFIERS

Project: BRIDGETON LF 316-267

Pace Project No.: 60166896

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.
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.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
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 316-267

Pace Project No.: 60166896

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60166896001	316-267	EPA 200.7	MPRP/26834	EPA 200.7	ICP/20391
60166896001	316-267	EPA 200.7	MPRP/26848	EPA 200.7	ICP/20396
60166896001	316-267	EPA 245.1	MERP/8315	EPA 245.1	MERC/8268
60166896001	316-267	EPA 245.1	MERP/8307	EPA 245.1	MERC/8260
60166896001	316-267	EPA 625	OEXT/43678	EPA 625	MSSV/13942
60166896001	316-267	EPA 624 Low	MSV/60785		
60166896002	TRIP BLANK	EPA 624 Low	MSV/60785		
60166896001	316-267	EPA 1664A	WET/47343		
60166896001	316-267	EPA 1664A	WET/47352		
60166896001	316-267	SM 2540D	WET/47284		
60166896001	316-267	SM 4500-H+B	WET/47275		
60166896001	316-267	SM 5210B	WET/47276	SM 5210B	WET/47367
60166896001	316-267	EPA 350.1	WETA/29020		
60166896001	316-267	EPA 410.4	WETA/29049		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60166896



Client Name: Barr Engineering

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

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

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

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

Thermometer Used: T-239 / T-194

Type of Ice: Wet ☒ Blue ☐ None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 1.0

Date and initials of person examining contents: 4/12/14 (signature)

Temperature should be above freezing to 6°C

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☒ Yes ☐ No ☐ N/A	6. <u>BOD, pH</u>
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	9.
Pace containers used:	☒ Yes ☐ No ☐ N/A	10.
Containers intact:	☒ Yes ☐ No ☐ N/A	11.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	12.
Filtered volume received for dissolved tests?	☐ Yes ☐ No ☒ N/A	13.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	14.
Includes date/time/ID/analyses	Matrix: <u>ut</u>	15.
All containers needing preservation have been checked	☒ Yes ☐ No ☐ N/A	16.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☒ No ☐ N/A	17.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☒ Yes ☐ No	18.
Trip Blank present:	☐ Yes ☐ No ☐ N/A	19.
Pace Trip Blank lot # (if purchased):	<u>012714-3682</u>	20.
Headspace in VOA vials (>6mm):	☐ Yes ☐ No ☐ N/A	21.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ N/A	22.

Client Notification/ Resolution:

Copy COC to Client? Y ☒ N ☐

Field Data Required? Y ☒ N ☐

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

April 22, 2014

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

RE: Project: BRIDGETON LF 316-268
Pace Project No.: 60166993

Dear Ed Galbraith:

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

Amended report revised 04/22/14 for sample ID reference.

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.
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-268

Pace Project No.: 60166993

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 316-268

Pace Project No.: 60166993

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60166993001	316-268	Water	04/12/14 15:00	04/14/14 13:30
60166993002	TRIP BLANK	Water	04/12/14 00:00	04/14/14 13:30

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-268

Pace Project No.: 60166993

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60166993001	316-268	EPA 200.7	NDJ	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	DJR	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	NDL	1
		EPA 624 Low	EAK	28
60166993002	TRIP BLANK			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-268

Pace Project No.: 60166993

Sample: 316-268		Lab ID: 60166993001	Collected: 04/12/14 15:00	Received: 04/14/14 13:30	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	8200	ug/L	750	2	04/15/14 14:00	04/16/14 16:22	7429-90-5	D3
Antimony	52.8	ug/L	50.0	1	04/15/14 14:00	04/16/14 16:20	7440-36-0	
Arsenic	1020	ug/L	50.0	1	04/15/14 14:00	04/16/14 16:20	7440-38-2	
Beryllium	ND	ug/L	5.0	1	04/15/14 14:00	04/16/14 16:20	7440-41-7	
Cadmium	ND	ug/L	25.0	1	04/15/14 14:00	04/16/14 16:20	7440-43-9	
Chromium	205	ug/L	25.0	1	04/15/14 14:00	04/16/14 16:20	7440-47-3	
Cobalt	33.3	ug/L	25.0	1	04/15/14 14:00	04/16/14 16:20	7440-48-4	
Copper	ND	ug/L	50.0	1	04/15/14 14:00	04/16/14 16:20	7440-50-8	
Iron	670000	ug/L	250	1	04/15/14 14:00	04/16/14 16:20	7439-89-6	
Lead	87.2	ug/L	25.0	1	04/15/14 14:00	04/16/14 16:20	7439-92-1	
Nickel	103	ug/L	25.0	1	04/15/14 14:00	04/16/14 16:20	7440-02-0	
Selenium	ND	ug/L	75.0	1	04/15/14 14:00	04/16/14 16:20	7782-49-2	
Silver	ND	ug/L	35.0	1	04/15/14 14:00	04/16/14 16:20	7440-22-4	
Thallium	ND	ug/L	100	1	04/15/14 14:00	04/16/14 16:20	7440-28-0	
Zinc	5970	ug/L	500	2	04/15/14 14:00	04/16/14 16:22	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1300	ug/L	750	2	04/15/14 12:40	04/16/14 15:37	7429-90-5	D3
Antimony, Dissolved	ND	ug/L	100	2	04/15/14 12:40	04/16/14 15:37	7440-36-0	
Arsenic, Dissolved	911	ug/L	50.0	1	04/15/14 12:40	04/16/14 15:34	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	04/15/14 12:40	04/16/14 15:34	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	04/15/14 12:40	04/16/14 15:34	7440-43-9	
Chromium, Dissolved	170	ug/L	25.0	1	04/15/14 12:40	04/16/14 15:34	7440-47-3	
Cobalt, Dissolved	29.8	ug/L	25.0	1	04/15/14 12:40	04/16/14 15:34	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	04/15/14 12:40	04/16/14 15:34	7440-50-8	
Iron, Dissolved	382000	ug/L	250	1	04/15/14 12:40	04/16/14 15:34	7439-89-6	
Lead, Dissolved	38.4	ug/L	25.0	1	04/15/14 12:40	04/16/14 15:34	7439-92-1	
Nickel, Dissolved	89.2	ug/L	25.0	1	04/15/14 12:40	04/16/14 15:34	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	04/15/14 12:40	04/16/14 15:34	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	04/15/14 12:40	04/16/14 15:34	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	04/15/14 12:40	04/16/14 15:34	7440-28-0	
Zinc, Dissolved	5420	ug/L	500	2	04/15/14 12:40	04/16/14 15:37	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND	ug/L	6.0	1	04/21/14 10:45	04/21/14 13:50	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	04/16/14 18:00	04/17/14 15:31	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND	ug/L	50.0	2	04/16/14 00:00	04/17/14 20:55	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	2	04/16/14 00:00	04/17/14 20:55	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	10.0	2	04/16/14 00:00	04/17/14 20:55	77-47-4	
Hexachloroethane	ND	ug/L	10.0	2	04/16/14 00:00	04/17/14 20:55	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	20.0	2	04/16/14 00:00	04/17/14 20:55	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	73.9	ug/L	40.0	2	04/16/14 00:00	04/17/14 20:55		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-268

Pace Project No.: 60166993

Sample: 316-268		Lab ID: 60166993001	Collected: 04/12/14 15:00	Received: 04/14/14 13:30	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		10.0	2	04/16/14 00:00	04/17/14 20:55	91-20-3	
Nitrobenzene	ND ug/L		10.0	2	04/16/14 00:00	04/17/14 20:55	98-95-3	
Pentachlorophenol	ND ug/L		10.0	2	04/16/14 00:00	04/17/14 20:55	87-86-5	
Phenol	105 ug/L		10.0	2	04/16/14 00:00	04/17/14 20:55	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		10.0	2	04/16/14 00:00	04/17/14 20:55	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		10.0	2	04/16/14 00:00	04/17/14 20:55	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	146 %		33-120	2	04/16/14 00:00	04/17/14 20:55	4165-60-0	S0
2-Fluorobiphenyl (S)	84 %		39-120	2	04/16/14 00:00	04/17/14 20:55	321-60-8	
Terphenyl-d14 (S)	92 %		45-120	2	04/16/14 00:00	04/17/14 20:55	1718-51-0	
Phenol-d6 (S)	43 %		11-120	2	04/16/14 00:00	04/17/14 20:55	13127-88-3	
2-Fluorophenol (S)	42 %		17-120	2	04/16/14 00:00	04/17/14 20:55	367-12-4	
2,4,6-Tribromophenol (S)	91 %		39-120	2	04/16/14 00:00	04/17/14 20:55	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	156000 ug/L		2500	250		04/17/14 17:03	67-64-1	L1,N2
Benzene	ND ug/L		250	250		04/17/14 17:03	71-43-2	
Bromodichloromethane	ND ug/L		250	250		04/17/14 17:03	75-27-4	
Bromoform	ND ug/L		250	250		04/17/14 17:03	75-25-2	
Bromomethane	ND ug/L		1250	250		04/17/14 17:03	74-83-9	
2-Butanone (MEK)	67100 ug/L		2500	250		04/17/14 17:03	78-93-3	L1,N2
Carbon tetrachloride	ND ug/L		250	250		04/17/14 17:03	56-23-5	
Chloroethane	ND ug/L		250	250		04/17/14 17:03	75-00-3	
Chloroform	ND ug/L		250	250		04/17/14 17:03	67-66-3	
1,4-Dichlorobenzene	288 ug/L		250	250		04/17/14 17:03	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		04/17/14 17:03	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		04/17/14 17:03	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		04/17/14 17:03	156-60-5	
Ethylbenzene	ND ug/L		250	250		04/17/14 17:03	100-41-4	
Methylene chloride	517 ug/L		250	250		04/17/14 17:03	75-09-2	B,C9
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		04/17/14 17:03	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		04/17/14 17:03	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		04/17/14 17:03	127-18-4	
Toluene	ND ug/L		250	250		04/17/14 17:03	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		04/17/14 17:03	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		04/17/14 17:03	79-00-5	
Trichloroethene	ND ug/L		250	250		04/17/14 17:03	79-01-6	
Vinyl chloride	ND ug/L		250	250		04/17/14 17:03	75-01-4	
Xylene (Total)	ND ug/L		750	250		04/17/14 17:03	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	98 %		80-120	250		04/17/14 17:03	460-00-4	HS
Toluene-d8 (S)	97 %		80-120	250		04/17/14 17:03	2037-26-5	
1,2-Dichloroethane-d4 (S)	101 %		80-120	250		04/17/14 17:03	17060-07-0	
Preservation pH	6.0		1.0	250		04/17/14 17:03		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1520 mg/L		5.0	1		04/16/14 11:24		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-268

Pace Project No.: 60166993

Sample: 316-268		Lab ID: 60166993001	Collected: 04/12/14 15:00	Received: 04/14/14 13:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	11.2	mg/L	5.0	1		04/16/14 14:59		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	4400	mg/L	5.0	1		04/15/14 08:50		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.3	Std. Units	0.10	1		04/15/14 13:45		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	31400	mg/L	2.0	1	04/14/14 14:50	04/19/14 12:19		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	595	mg/L	20.0	200		04/15/14 11:58	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	74400	mg/L	10000	1000		04/18/14 13:49		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-268

Pace Project No.: 60166993

Sample: TRIP BLANK		Lab ID: 60166993002	Collected: 04/12/14 00:00	Received: 04/14/14 13:30	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		04/17/14 15:29	67-64-1	L3,N2
Benzene	ND ug/L		1.0	1		04/17/14 15:29	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/17/14 15:29	75-27-4	
Bromoform	ND ug/L		1.0	1		04/17/14 15:29	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/17/14 15:29	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/17/14 15:29	78-93-3	L3,N2
Carbon tetrachloride	ND ug/L		1.0	1		04/17/14 15:29	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/17/14 15:29	75-00-3	
Chloroform	ND ug/L		1.0	1		04/17/14 15:29	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/17/14 15:29	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/17/14 15:29	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/17/14 15:29	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/17/14 15:29	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/17/14 15:29	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/17/14 15:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/17/14 15:29	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/17/14 15:29	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/17/14 15:29	127-18-4	
Toluene	ND ug/L		1.0	1		04/17/14 15:29	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/17/14 15:29	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/17/14 15:29	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/17/14 15:29	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/17/14 15:29	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/17/14 15:29	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	1		04/17/14 15:29	460-00-4	
Toluene-d8 (S)	99 %		80-120	1		04/17/14 15:29	2037-26-5	
1,2-Dichloroethane-d4 (S)	92 %		80-120	1		04/17/14 15:29	17060-07-0	
Preservation pH	6.0		1.0	1		04/17/14 15:29		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-268

Pace Project No.: 60166993

QC Batch: MERP/8315

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60166993001

METHOD BLANK: 1364104

Matrix: Water

Associated Lab Samples: 60166993001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/21/14 13:37	

LABORATORY CONTROL SAMPLE: 1364105

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1364106 1364107

Parameter	Units	60166911001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	3.7	3.8	74	75	70-130	2	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-268

Pace Project No.: 60166993

QC Batch: MERP/8307

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60166993001

METHOD BLANK: 1361868

Matrix: Water

Associated Lab Samples: 60166993001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/17/14 15:13	

LABORATORY CONTROL SAMPLE: 1361869

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.9	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1361870 1361871

Parameter	Units	60167111001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	71.7	77.1	48	51	70-130	7	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-268
Pace Project No.: 60166993

QC Batch: MPRP/26834 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60166993001

METHOD BLANK: 1360690 Matrix: Water
Associated Lab Samples: 60166993001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/16/14 15:57	
Antimony	ug/L	ND	10.0	04/16/14 15:57	
Arsenic	ug/L	ND	10.0	04/16/14 15:57	
Beryllium	ug/L	ND	1.0	04/16/14 15:57	
Cadmium	ug/L	ND	5.0	04/16/14 15:57	
Chromium	ug/L	ND	5.0	04/16/14 15:57	
Cobalt	ug/L	ND	5.0	04/16/14 15:57	
Copper	ug/L	ND	10.0	04/16/14 15:57	
Iron	ug/L	ND	50.0	04/16/14 15:57	
Lead	ug/L	ND	5.0	04/16/14 15:57	
Nickel	ug/L	ND	5.0	04/16/14 15:57	
Selenium	ug/L	ND	15.0	04/16/14 15:57	
Silver	ug/L	ND	7.0	04/16/14 15:57	
Thallium	ug/L	ND	20.0	04/16/14 15:57	
Zinc	ug/L	ND	50.0	04/16/14 15:57	

LABORATORY CONTROL SAMPLE: 1360691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9860	99	85-115	
Antimony	ug/L	1000	1000	100	85-115	
Arsenic	ug/L	1000	966	97	85-115	
Beryllium	ug/L	1000	985	98	85-115	
Cadmium	ug/L	1000	986	99	85-115	
Chromium	ug/L	1000	977	98	85-115	
Cobalt	ug/L	1000	1000	100	85-115	
Copper	ug/L	1000	966	97	85-115	
Iron	ug/L	10000	9940	99	85-115	
Lead	ug/L	1000	1010	101	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	988	99	85-115	
Silver	ug/L	500	479	96	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	1000	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1360692 1360693

Parameter	Units	60166660002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	ND	10000	10000	10000	10000	100	100	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-268

Pace Project No.: 60166993

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1360692 1360693											
Parameter	Units	60166660002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Antimony	ug/L	ND	1000	1000	1040	1040	104	104	70-130	0	7
Arsenic	ug/L	ND	1000	1000	1010	1010	101	101	70-130	0	10
Beryllium	ug/L	ND	1000	1000	985	992	99	99	70-130	1	7
Cadmium	ug/L	ND	1000	1000	1010	1010	101	101	70-130	0	10
Chromium	ug/L	ND	1000	1000	977	984	98	98	70-130	1	10
Cobalt	ug/L	ND	1000	1000	994	996	99	100	70-130	0	6
Copper	ug/L	ND	1000	1000	989	997	98	99	70-130	1	11
Iron	ug/L	ND	10000	10000	10000	10000	100	100	70-130	0	10
Lead	ug/L	ND	1000	1000	988	985	99	98	70-130	0	10
Nickel	ug/L	9.1	1000	1000	1010	1020	100	101	70-130	0	10
Selenium	ug/L	ND	1000	1000	1010	1020	101	102	70-130	1	10
Silver	ug/L	ND	500	500	481	481	96	96	70-130	0	10
Thallium	ug/L	ND	1000	1000	995	992	100	99	70-130	0	6
Zinc	ug/L	ND	1000	1000	1010	1010	99	99	70-130	0	11

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-268
Pace Project No.: 60166993

QC Batch:	MPRP/26848	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60166993001		

METHOD BLANK: 1360926 Matrix: Water
Associated Lab Samples: 60166993001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/16/14 14:47	
Antimony, Dissolved	ug/L	ND	10.0	04/16/14 14:47	
Arsenic, Dissolved	ug/L	ND	10.0	04/16/14 14:47	
Beryllium, Dissolved	ug/L	ND	1.0	04/16/14 14:47	
Cadmium, Dissolved	ug/L	ND	5.0	04/16/14 14:47	
Chromium, Dissolved	ug/L	ND	5.0	04/16/14 14:47	
Cobalt, Dissolved	ug/L	ND	5.0	04/16/14 14:47	
Copper, Dissolved	ug/L	ND	10.0	04/16/14 14:47	
Iron, Dissolved	ug/L	ND	50.0	04/16/14 14:47	
Lead, Dissolved	ug/L	ND	5.0	04/16/14 14:47	
Nickel, Dissolved	ug/L	ND	5.0	04/16/14 14:47	
Selenium, Dissolved	ug/L	ND	15.0	04/16/14 14:47	
Silver, Dissolved	ug/L	ND	7.0	04/16/14 14:47	
Thallium, Dissolved	ug/L	ND	20.0	04/16/14 14:47	
Zinc, Dissolved	ug/L	ND	50.0	04/16/14 14:47	

LABORATORY CONTROL SAMPLE: 1360927

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	1060	106	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	1020	102	85-115	
Chromium, Dissolved	ug/L	1000	1020	102	85-115	
Cobalt, Dissolved	ug/L	1000	1040	104	85-115	
Copper, Dissolved	ug/L	1000	1020	102	85-115	
Iron, Dissolved	ug/L	10000	9930	99	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	1030	103	85-115	
Silver, Dissolved	ug/L	500	501	100	85-115	
Thallium, Dissolved	ug/L	1000	1040	104	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1360928 1360929

Parameter	Units	60166699001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	1040	50000	50000	52900	55200	104	108	70-130	4	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-268

Pace Project No.: 60166993

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1360928 1360929												
Parameter	Units	60166699001	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		Qual
		Result	Spike	Spike						Result	Result	
Antimony, Dissolved	ug/L	ND	5000	5000	5590	5820	111	115	70-130	4	7	
Arsenic, Dissolved	ug/L	800	5000	5000	6180	6760	108	119	70-130	9	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	4960	5140	99	103	70-130	4	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5390	5590	108	112	70-130	4	10	
Chromium, Dissolved	ug/L	159	5000	5000	5160	5380	100	105	70-130	4	10	
Cobalt, Dissolved	ug/L	29.2	5000	5000	5100	5180	101	103	70-130	2	6	
Copper, Dissolved	ug/L	ND	5000	5000	5480	5780	109	115	70-130	5	11	
Iron, Dissolved	ug/L	367000	50000	50000	344000	469000	-46	204	70-130	31	10	M1,R1
Lead, Dissolved	ug/L	46.3	5000	5000	4860	4910	96	97	70-130	1	10	
Nickel, Dissolved	ug/L	82.8	5000	5000	5080	5180	100	102	70-130	2	10	
Selenium, Dissolved	ug/L	ND	5000	5000	6040	6500	119	128	70-130	7	10	
Silver, Dissolved	ug/L	ND	2500	2500	2720	2880	109	115	70-130	6	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4620	4620	92	92	70-130	0	6	
Zinc, Dissolved	ug/L	5160	5000	5000	9000	10700	77	112	70-130	18	11	R1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-268

Pace Project No.: 60166993

QC Batch: MSV/60905 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60166993001, 60166993002

METHOD BLANK: 1362371

Matrix: Water

Associated Lab Samples: 60166993001, 60166993002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/17/14 15:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/17/14 15:14	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/17/14 15:14	
1,2-Dichloroethane	ug/L	ND	1.0	04/17/14 15:14	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/17/14 15:14	
2-Butanone (MEK)	ug/L	ND	10.0	04/17/14 15:14	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/17/14 15:14	N2
Acetone	ug/L	ND	10.0	04/17/14 15:14	N2
Benzene	ug/L	ND	1.0	04/17/14 15:14	
Bromodichloromethane	ug/L	ND	1.0	04/17/14 15:14	
Bromoform	ug/L	ND	1.0	04/17/14 15:14	
Bromomethane	ug/L	ND	5.0	04/17/14 15:14	
Carbon tetrachloride	ug/L	ND	1.0	04/17/14 15:14	
Chloroethane	ug/L	ND	1.0	04/17/14 15:14	
Chloroform	ug/L	ND	1.0	04/17/14 15:14	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/17/14 15:14	N2
Ethylbenzene	ug/L	ND	1.0	04/17/14 15:14	
Methylene chloride	ug/L	1.1	1.0	04/17/14 15:14	
Tetrachloroethene	ug/L	ND	1.0	04/17/14 15:14	
Toluene	ug/L	ND	1.0	04/17/14 15:14	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/17/14 15:14	
Trichloroethene	ug/L	ND	1.0	04/17/14 15:14	
Vinyl chloride	ug/L	ND	1.0	04/17/14 15:14	
Xylene (Total)	ug/L	ND	3.0	04/17/14 15:14	N2
1,2-Dichloroethane-d4 (S)	%	99	80-120	04/17/14 15:14	
4-Bromofluorobenzene (S)	%	102	80-120	04/17/14 15:14	
Toluene-d8 (S)	%	101	80-120	04/17/14 15:14	

LABORATORY CONTROL SAMPLE: 1362372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.1	96	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	96	67-127	N2
1,1,2-Trichloroethane	ug/L	20	20.5	103	67-124	
1,2-Dichloroethane	ug/L	20	19.3	96	70-126	
1,4-Dichlorobenzene	ug/L	20	19.6	98	74-120	
2-Butanone (MEK)	ug/L	100	157	157	42-153	L0,N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	105	105	59-131	N2
Acetone	ug/L	100	200	200	38-134	L0,N2
Benzene	ug/L	20	18.9	95	75-120	
Bromodichloromethane	ug/L	20	19.5	98	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-268

Pace Project No.: 60166993

LABORATORY CONTROL SAMPLE: 1362372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.0	100	65-127	
Bromomethane	ug/L	20	23.3	116	13-157	
Carbon tetrachloride	ug/L	20	20.7	103	70-131	
Chloroethane	ug/L	20	21.8	109	47-133	
Chloroform	ug/L	20	18.2	91	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.3	102	68-127	N2
Ethylbenzene	ug/L	20	20.7	104	74-122	
Methylene chloride	ug/L	20	18.5	93	64-129	
Tetrachloroethene	ug/L	20	20.9	104	73-125	
Toluene	ug/L	20	19.3	97	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.0	100	66-129	
Trichloroethene	ug/L	20	19.7	98	71-123	
Vinyl chloride	ug/L	20	24.9	125	43-129	
Xylene (Total)	ug/L	60	63.6	106	75-121	N2
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-268
Pace Project No.: 60166993

QC Batch:	OEXT/43678	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60166993001		

METHOD BLANK: 1361289 Matrix: Water
Associated Lab Samples: 60166993001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/17/14 10:34	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/17/14 10:34	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/17/14 10:34	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/17/14 10:34	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/17/14 10:34	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/17/14 10:34	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/17/14 10:34	
Hexachloroethane	ug/L	ND	5.0	04/17/14 10:34	
Naphthalene	ug/L	ND	5.0	04/17/14 10:34	
Nitrobenzene	ug/L	ND	5.0	04/17/14 10:34	
Pentachlorophenol	ug/L	ND	5.0	04/17/14 10:34	
Phenol	ug/L	ND	5.0	04/17/14 10:34	
2,4,6-Tribromophenol (S)	%	77	39-120	04/17/14 10:34	
2-Fluorobiphenyl (S)	%	78	39-120	04/17/14 10:34	
2-Fluorophenol (S)	%	43	17-120	04/17/14 10:34	
Nitrobenzene-d5 (S)	%	77	33-120	04/17/14 10:34	
Phenol-d6 (S)	%	28	11-120	04/17/14 10:34	
Terphenyl-d14 (S)	%	82	45-120	04/17/14 10:34	

LABORATORY CONTROL SAMPLE: 1361290

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	40.1	80	46-120	
2,4,6-Trichlorophenol	ug/L	50	42.4	85	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	37.6	75	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	33.8	68	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	46.8	94	40-133	
Hexachloro-1,3-butadiene	ug/L	50	37.9	76	44-116	
Hexachlorocyclopentadiene	ug/L	100	57.7	58	24-120	
Hexachloroethane	ug/L	50	41.0	82	43-113	
Naphthalene	ug/L	50	41.5	83	48-120	
Nitrobenzene	ug/L	50	41.6	83	48-120	
Pentachlorophenol	ug/L	50	45.0	90	47-120	
Phenol	ug/L	50	19.0	38	16-112	
2,4,6-Tribromophenol (S)	%			88	39-120	
2-Fluorobiphenyl (S)	%			86	39-120	
2-Fluorophenol (S)	%			47	17-120	
Nitrobenzene-d5 (S)	%			84	33-120	
Phenol-d6 (S)	%			31	11-120	
Terphenyl-d14 (S)	%			89	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-268

Pace Project No.: 60166993

MATRIX SPIKE SAMPLE:		1361291					
Parameter	Units	60166896001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	40.6	81	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	55.3	111	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	50	47.2	94	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	77.1	50	134	113	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	50	17.1J	34	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	40.9	82	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	ND	0	11-120	M1
Hexachloroethane	ug/L	ND	50	47.0	94	40-113	
Naphthalene	ug/L	ND	50	66.4	114	45-120	
Nitrobenzene	ug/L	ND	50	44.6	89	38-120	
Pentachlorophenol	ug/L	ND	50	53.3	107	43-135	
Phenol	ug/L	115	50	152	75	13-112	
2,4,6-Tribromophenol (S)	%				102	39-120	
2-Fluorobiphenyl (S)	%				105	39-120	
2-Fluorophenol (S)	%				51	17-120	
Nitrobenzene-d5 (S)	%				162	33-120	S0
Phenol-d6 (S)	%				52	11-120	
Terphenyl-d14 (S)	%				111	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-268

Pace Project No.: 60166993

QC Batch: WET/47343

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60166993001

METHOD BLANK: 1361555

Matrix: Water

Associated Lab Samples: 60166993001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/16/14 11:18	

LABORATORY CONTROL SAMPLE: 1361556

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	41.3	103	78-114	

MATRIX SPIKE SAMPLE: 1361557

Parameter	Units	60167018001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	41.7	43.1	99	78-114	

SAMPLE DUPLICATE: 1361558

Parameter	Units	60167011001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	1.2J	2.9J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-268

Pace Project No.: 60166993

QC Batch: WET/47352

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60166993001

METHOD BLANK: 1361694

Matrix: Water

Associated Lab Samples: 60166993001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	04/16/14 14:56	

LABORATORY CONTROL SAMPLE: 1361695

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: 1361696

Parameter	Units	60166314001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	5.1	20.4	29.8	121	64-132	

SAMPLE DUPLICATE: 1361711

Parameter	Units	60166823001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	1.6J		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-268

Pace Project No.: 60166993

QC Batch: WET/47310

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60166993001

METHOD BLANK: 1360711

Matrix: Water

Associated Lab Samples: 60166993001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/15/14 08:50	

SAMPLE DUPLICATE: 1360712

Parameter	Units	60166993001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	4400	4380	0	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-268

Pace Project No.: 60166993

QC Batch:	WET/47323	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
Associated Lab Samples:	60166993001		

SAMPLE DUPLICATE: 1361003

Parameter	Units	60167018001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.8	7.8	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-268

Pace Project No.: 60166993

QC Batch: WET/47301

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60166993001

METHOD BLANK: 1360456

Matrix: Water

Associated Lab Samples: 60166993001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/19/14 12:14	

LABORATORY CONTROL SAMPLE: 1360457

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	183	92	85-115	

SAMPLE DUPLICATE: 1360458

Parameter	Units	60166983002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	1500	1420	6	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-268

Pace Project No.: 60166993

QC Batch: WETA/29020

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60166993001

METHOD BLANK: 1360315

Matrix: Water

Associated Lab Samples: 60166993001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/15/14 11:37	

LABORATORY CONTROL SAMPLE: 1360316

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1360317

Parameter	Units	60166789007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	4	2.3	58	90-110	M1

MATRIX SPIKE SAMPLE: 1360318

Parameter	Units	60166790001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1.5	2	3.0	77	90-110	M1

SAMPLE DUPLICATE: 1360319

Parameter	Units	60166791001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	7.9	8.0	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-268

Pace Project No.: 60166993

QC Batch:	WETA/29049	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60166993001		

METHOD BLANK: 1362044 Matrix: Water

Associated Lab Samples: 60166993001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	04/18/14 13:27	

LABORATORY CONTROL SAMPLE: 1362045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	53.7	107	90-110	

MATRIX SPIKE SAMPLE: 1362046

Parameter	Units	60166896001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	71900	50000	121000	99	90-110	

MATRIX SPIKE SAMPLE: 1362048

Parameter	Units	60166666001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	239	200	437	99	90-110	

SAMPLE DUPLICATE: 1362047

Parameter	Units	60166994002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	4520	4520	0	25	

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QUALIFIERS

Project: BRIDGETON LF 316-268
Pace Project No.: 60166993

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/60905

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

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
C9	Common Laboratory Contaminant.
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).
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.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
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 316-268

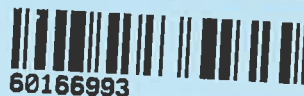
Pace Project No.: 60166993

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60166993001	316-268	EPA 200.7	MPRP/26834	EPA 200.7	ICP/20391
60166993001	316-268	EPA 200.7	MPRP/26848	EPA 200.7	ICP/20396
60166993001	316-268	EPA 245.1	MERP/8315	EPA 245.1	MERC/8268
60166993001	316-268	EPA 245.1	MERP/8307	EPA 245.1	MERC/8260
60166993001	316-268	EPA 625	OEXT/43678	EPA 625	MSSV/13942
60166993001	316-268	EPA 624 Low	MSV/60905		
60166993002	TRIP BLANK	EPA 624 Low	MSV/60905		
60166993001	316-268	EPA 1664A	WET/47343		
60166993001	316-268	EPA 1664A	WET/47352		
60166993001	316-268	SM 2540D	WET/47310		
60166993001	316-268	SM 4500-H+B	WET/47323		
60166993001	316-268	SM 5210B	WET/47301	SM 5210B	WET/47413
60166993001	316-268	EPA 350.1	WETA/29020		
60166993001	316-268	EPA 410.4	WETA/29049		

REPORT OF LABORATORY ANALYSIS

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WO#: 60166993



60166993



Sample Condition Upon Receipt

Client Name: BarrCourier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☒ GrandsTracking #: _____ 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-194Type of Ice: Ver Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)Cooler Temperature: 4.6Date and initials of person examining contents: 4/14/14

Temperature should be above freezing to 6°C

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

Client Notification/ Resolution:

Copy COC to Client? Y ☒ N ☐Field Data Required? Y ☒ N ☐

Person Contacted:

Date/Time:

Comments/ Resolution:

AS - FOOTNOTED DUE TO HISTORICAL INSTRUCTIONS

Project Manager Review:

Date:

April 21, 2014

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

RE: Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60166998

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 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.
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60166998

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.: 60166998

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60166998001	TCLP 4-12-14	Water	04/12/14 15:30	04/14/14 13:30
60166998002	TRIP BLANK	Water	04/12/14 15:30	04/14/14 13:30

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SAMPLE ANALYTE COUNT

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60166998

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60166998001	TCLP 4-12-14	EPA 8260	JKL	13
		EPA 5030B/8260	PRG	28
		EPA 1664A	JMC1	1
		SM 2540B	RAH	1
60166998002	TRIP BLANK	EPA 5030B/8260	PRG	28

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60166998

Sample: TCLP 4-12-14		Lab ID: 60166998001		Collected: 04/12/14 15:30		Received: 04/14/14 13:30		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; 04/17/14 00:00									
Benzene	451	ug/L	250	500	5		04/19/14 02:48	71-43-2	
2-Butanone (MEK)	83000	ug/L	5000	200000	5		04/19/14 02:48	78-93-3	E
Carbon tetrachloride	ND	ug/L	250	500	5		04/19/14 02:48	56-23-5	
Chlorobenzene	ND	ug/L	250	100000	5		04/19/14 02:48	108-90-7	
Chloroform	ND	ug/L	1000	6000	5		04/19/14 02:48	67-66-3	
1,2-Dichloroethane	ND	ug/L	250	500	5		04/19/14 02:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	250	700	5		04/19/14 02:48	75-35-4	
Tetrachloroethene	ND	ug/L	250	700	5		04/19/14 02:48	127-18-4	
Trichloroethene	ND	ug/L	250	500	5		04/19/14 02:48	79-01-6	
Vinyl chloride	ND	ug/L	100	200	5		04/19/14 02:48	75-01-4	L3
Surrogates									
1,2-Dichloroethane-d4 (S)	95 %		80-120		5		04/19/14 02:48	17060-07-0	
Toluene-d8 (S)	102 %		80-120		5		04/19/14 02:48	2037-26-5	
4-Bromofluorobenzene (S)	103 %		80-120		5		04/19/14 02:48	460-00-4	
8260 MSV Analytical Method: EPA 5030B/8260									
Acetone	157000	ug/L	2500		250		04/17/14 13:29	67-64-1	L1
Benzene	697	ug/L	250		250		04/17/14 13:29	71-43-2	
Bromodichloromethane	ND	ug/L	250		250		04/17/14 13:29	75-27-4	
Bromoform	ND	ug/L	250		250		04/17/14 13:29	75-25-2	
Bromomethane	ND	ug/L	1250		250		04/17/14 13:29	74-83-9	
2-Butanone (MEK)	82300	ug/L	2500		250		04/17/14 13:29	78-93-3	L1
Carbon tetrachloride	ND	ug/L	250		250		04/17/14 13:29	56-23-5	
Chloroethane	ND	ug/L	250		250		04/17/14 13:29	75-00-3	
Chloroform	ND	ug/L	250		250		04/17/14 13:29	67-66-3	
1,4-Dichlorobenzene	727	ug/L	250		250		04/17/14 13:29	106-46-7	
1,2-Dichloroethane	ND	ug/L	250		250		04/17/14 13:29	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	250		250		04/17/14 13:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	250		250		04/17/14 13:29	156-60-5	
Ethylbenzene	ND	ug/L	250		250		04/17/14 13:29	100-41-4	
Methylene chloride	ND	ug/L	250		250		04/17/14 13:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2500		250		04/17/14 13:29	108-10-1	
1,1,1,2-Tetrachloroethane	ND	ug/L	250		250		04/17/14 13:29	79-34-5	
Tetrachloroethene	ND	ug/L	250		250		04/17/14 13:29	127-18-4	
Toluene	ND	ug/L	250		250		04/17/14 13:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	250		250		04/17/14 13:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	250		250		04/17/14 13:29	79-00-5	
Trichloroethene	ND	ug/L	250		250		04/17/14 13:29	79-01-6	
Vinyl chloride	ND	ug/L	250		250		04/17/14 13:29	75-01-4	
Xylene (Total)	811	ug/L	750		250		04/17/14 13:29	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101 %		80-120		250		04/17/14 13:29	460-00-4	HS
1,2-Dichloroethane-d4 (S)	97 %		80-120		250		04/17/14 13:29	17060-07-0	
Toluene-d8 (S)	99 %		80-120		250		04/17/14 13:29	2037-26-5	
Preservation pH	5.0		0.10		250		04/17/14 13:29		pH

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60166998

Sample: TCLP 4-12-14		Lab ID: 60166998001		Collected: 04/12/14 15:30		Received: 04/14/14 13:30		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	469	mg/L	5.0		1		04/16/14 14:24		
2540B Total Solids									
		Analytical Method: SM 2540B							
Total Solids	38700	mg/L	5.0		1		04/16/14 15:49		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60166998

Sample: TRIP BLANK		Lab ID: 60166998002		Collected: 04/12/14 15:30		Received: 04/14/14 13:30		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		04/17/14 10:39	67-64-1	L3
Benzene	ND	ug/L	1.0		1		04/17/14 10:39	71-43-2	
Bromodichloromethane	ND	ug/L	1.0		1		04/17/14 10:39	75-27-4	
Bromoform	ND	ug/L	1.0		1		04/17/14 10:39	75-25-2	
Bromomethane	ND	ug/L	5.0		1		04/17/14 10:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0		1		04/17/14 10:39	78-93-3	L3
Carbon tetrachloride	ND	ug/L	1.0		1		04/17/14 10:39	56-23-5	
Chloroethane	ND	ug/L	1.0		1		04/17/14 10:39	75-00-3	
Chloroform	ND	ug/L	1.0		1		04/17/14 10:39	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0		1		04/17/14 10:39	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0		1		04/17/14 10:39	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0		1		04/17/14 10:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0		1		04/17/14 10:39	156-60-5	
Ethylbenzene	ND	ug/L	1.0		1		04/17/14 10:39	100-41-4	
Methylene chloride	ND	ug/L	1.0		1		04/17/14 10:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0		1		04/17/14 10:39	108-10-1	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1		04/17/14 10:39	79-34-5	
Tetrachloroethene	ND	ug/L	1.0		1		04/17/14 10:39	127-18-4	
Toluene	ND	ug/L	1.0		1		04/17/14 10:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0		1		04/17/14 10:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0		1		04/17/14 10:39	79-00-5	
Trichloroethene	ND	ug/L	1.0		1		04/17/14 10:39	79-01-6	
Vinyl chloride	ND	ug/L	1.0		1		04/17/14 10:39	75-01-4	
Xylene (Total)	ND	ug/L	3.0		1		04/17/14 10:39	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100 %		80-120		1		04/17/14 10:39	460-00-4	
1,2-Dichloroethane-d4 (S)	103 %		80-120		1		04/17/14 10:39	17060-07-0	
Toluene-d8 (S)	102 %		80-120		1		04/17/14 10:39	2037-26-5	
Preservation pH	1.0		0.10		1		04/17/14 10:39		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60166998

QC Batch:	MSV/60937	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV TCLP
Associated Lab Samples:	60166998001		

METHOD BLANK: 1363184 Matrix: Water

Associated Lab Samples: 60166998001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	04/19/14 02:33	
1,2-Dichloroethane	ug/L	ND	50.0	04/19/14 02:33	
2-Butanone (MEK)	ug/L	ND	1000	04/19/14 02:33	
Benzene	ug/L	ND	50.0	04/19/14 02:33	
Carbon tetrachloride	ug/L	ND	50.0	04/19/14 02:33	
Chlorobenzene	ug/L	ND	50.0	04/19/14 02:33	
Chloroform	ug/L	ND	200	04/19/14 02:33	
Tetrachloroethene	ug/L	ND	50.0	04/19/14 02:33	
Trichloroethene	ug/L	ND	50.0	04/19/14 02:33	
Vinyl chloride	ug/L	ND	20.0	04/19/14 02:33	
1,2-Dichloroethane-d4 (S)	%	96	80-120	04/19/14 02:33	
4-Bromofluorobenzene (S)	%	102	80-120	04/19/14 02:33	
Toluene-d8 (S)	%	101	80-120	04/19/14 02:33	

LABORATORY CONTROL SAMPLE: 1363185

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	1000	1180	118	78-126	
1,2-Dichloroethane	ug/L	1000	976	98	77-123	
2-Butanone (MEK)	ug/L	5000	4800	96	52-145	
Benzene	ug/L	1000	938	94	80-120	
Carbon tetrachloride	ug/L	1000	1070	107	78-128	
Chlorobenzene	ug/L	1000	963	96	80-120	
Chloroform	ug/L	1000	958	96	79-120	
Tetrachloroethene	ug/L	1000	982	98	80-121	
Trichloroethene	ug/L	1000	1010	101	80-120	
Vinyl chloride	ug/L	1000	1460	146	59-120 L0	
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			104	80-120	
Toluene-d8 (S)	%			102	80-120	

MATRIX SPIKE SAMPLE: 1363186

Parameter	Units	60166998001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	5000	4640	93	60-144	
1,2-Dichloroethane	ug/L	ND	5000	4420	88	49-148	
2-Butanone (MEK)	ug/L	83000	25000	114000	124	36-145	
Benzene	ug/L	451	5000	4810	87	37-157	
Carbon tetrachloride	ug/L	ND	5000	4640	93	68-142	
Chlorobenzene	ug/L	ND	5000	4430	88	66-133	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60166998

MATRIX SPIKE SAMPLE:		1363186					
Parameter	Units	60166998001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloroform	ug/L	ND	5000	4300	86	66-127	
Tetrachloroethene	ug/L	ND	5000	4500	90	69-133	
Trichloroethene	ug/L	ND	5000	4810	96	61-135	
Vinyl chloride	ug/L	ND	5000	4400	88	44-128	
1,2-Dichloroethane-d4 (S)	%				97	80-120	
4-Bromofluorobenzene (S)	%				102	80-120	
Toluene-d8 (S)	%				104	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60166998

QC Batch: MSV/60885 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60166998001, 60166998002

METHOD BLANK: 1362126 Matrix: Water
Associated Lab Samples: 60166998001, 60166998002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/17/14 10:05	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/17/14 10:05	
1,1,2-Trichloroethane	ug/L	ND	1.0	04/17/14 10:05	
1,2-Dichloroethane	ug/L	ND	1.0	04/17/14 10:05	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/17/14 10:05	
2-Butanone (MEK)	ug/L	ND	10.0	04/17/14 10:05	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/17/14 10:05	
Acetone	ug/L	ND	10.0	04/17/14 10:05	
Benzene	ug/L	ND	1.0	04/17/14 10:05	
Bromodichloromethane	ug/L	ND	1.0	04/17/14 10:05	
Bromoform	ug/L	ND	1.0	04/17/14 10:05	
Bromomethane	ug/L	ND	5.0	04/17/14 10:05	
Carbon tetrachloride	ug/L	ND	1.0	04/17/14 10:05	
Chloroethane	ug/L	ND	1.0	04/17/14 10:05	
Chloroform	ug/L	ND	1.0	04/17/14 10:05	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/17/14 10:05	
Ethylbenzene	ug/L	ND	1.0	04/17/14 10:05	
Methylene chloride	ug/L	ND	1.0	04/17/14 10:05	
Tetrachloroethene	ug/L	ND	1.0	04/17/14 10:05	
Toluene	ug/L	ND	1.0	04/17/14 10:05	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/17/14 10:05	
Trichloroethene	ug/L	ND	1.0	04/17/14 10:05	
Vinyl chloride	ug/L	ND	1.0	04/17/14 10:05	
Xylene (Total)	ug/L	ND	3.0	04/17/14 10:05	
1,2-Dichloroethane-d4 (S)	%	100	80-120	04/17/14 10:05	
4-Bromofluorobenzene (S)	%	102	80-120	04/17/14 10:05	
Toluene-d8 (S)	%	102	80-120	04/17/14 10:05	

LABORATORY CONTROL SAMPLE: 1362127

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.7	103	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	95	73-124	
1,1,2-Trichloroethane	ug/L	20	19.1	96	80-120	
1,2-Dichloroethane	ug/L	20	21.1	106	77-123	
1,4-Dichlorobenzene	ug/L	20	19.5	98	80-120	
2-Butanone (MEK)	ug/L	100	151	151	52-145	L0,SS
4-Methyl-2-pentanone (MIBK)	ug/L	100	107	107	71-131	
Acetone	ug/L	100	211	211	32-155	L0,SS
Benzene	ug/L	20	21.3	107	80-120	
Bromodichloromethane	ug/L	20	20.2	101	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60166998

LABORATORY CONTROL SAMPLE: 1362127

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.6	103	73-124	
Bromomethane	ug/L	20	20.7	104	31-144	
Carbon tetrachloride	ug/L	20	21.9	109	78-128	
Chloroethane	ug/L	20	24.9	125	55-137	
Chloroform	ug/L	20	20.1	100	79-120	
cis-1,2-Dichloroethene	ug/L	20	21.2	106	80-120	
Ethylbenzene	ug/L	20	20.6	103	80-121	
Methylene chloride	ug/L	20	21.0	105	73-126	
Tetrachloroethene	ug/L	20	20.8	104	80-121	
Toluene	ug/L	20	20.2	101	80-122	
trans-1,2-Dichloroethene	ug/L	20	20.7	103	79-121	
Trichloroethene	ug/L	20	20.2	101	80-120	
Vinyl chloride	ug/L	20	20.0	100	59-120	
Xylene (Total)	ug/L	60	63.4	106	80-121	
1,2-Dichloroethane-d4 (S)	%			102	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.: 60166998

QC Batch:	WET/47351	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60166998001		

METHOD BLANK: 1361684 Matrix: Water

Associated Lab Samples: 60166998001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/16/14 14:24	

LABORATORY CONTROL SAMPLE: 1361685

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.0	98	78-114	

MATRIX SPIKE SAMPLE: 1361688

Parameter	Units	60166508001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	41.7	37.7	85	78-114	

SAMPLE DUPLICATE: 1361689

Parameter	Units	60166681001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	2.4J		18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60166998

QC Batch: WET/47330

Analysis Method: SM 2540B

QC Batch Method: SM 2540B

Analysis Description: 2540B Total Solids

Associated Lab Samples: 60166998001

METHOD BLANK: 1361349

Matrix: Water

Associated Lab Samples: 60166998001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	5.0	04/16/14 15:45	

LABORATORY CONTROL SAMPLE: 1361350

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	1000	967	97	80-120	

SAMPLE DUPLICATE: 1361363

Parameter	Units	60167072001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	13200	13200	1	10	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60166998

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/60885

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

ANALYTE QUALIFIERS

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

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.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

SS This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

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.: 60166998

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60166998001	TCLP 4-12-14	EPA 8260	MSV/60937		
60166998001	TCLP 4-12-14	EPA 5030B/8260	MSV/60885		
60166998002	TRIP BLANK	EPA 5030B/8260	MSV/60885		
60166998001	TCLP 4-12-14	EPA 1664A	WET/47351		
60166998001	TCLP 4-12-14	SM 2540B	WET/47330		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

W0#: 60166998



60166998

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 ☒

Thermometer Used: T-239 / T-194

Type of Ice: Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.6

Temperature should be above freezing to 6°C

Date and initials of person examining contents: 8/4/14/14

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☐ Yes ☒ No ☐ N/A	6.
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	9.
Pace containers used:	☒ Yes ☐ No ☐ N/A	10.
Containers intact:	☒ Yes ☐ No ☐ N/A	11.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	12.
Filtered volume received for dissolved tests?	☐ Yes ☐ No ☒ N/A	13.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	14.
Includes date/time/ID/analyses	Matrix: <u>W1</u>	15.
All containers needing preservation have been checked.	☐ Yes ☒ No ☐ N/A	16.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☒ No ☐ N/A	17.
Exceptions: <u>VOA</u> , coliform, TOC, O&G, WI-DRO (water), Phenolics	☒ Yes ☐ No	Initial when completed
Trip Blank present:	☒ Yes ☐ No ☐ N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased): <u>Mar 24</u>		
Headspace in VOA vials (>6mm):	☒ Yes ☐ No ☐ N/A	343 VOA
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ N/A	Footnote per historical instructions
Client Notification/ Resolution:	Copy COC to Client? Y ☒ N ☐	Field Data Required? Y ☒ N ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Section A

Required Client Information:

Company: BARR ENGINEERING
Address:
Email To:
Phone: Fax:
Requested Due Date/TAT:

Section B

Required Project Information:

Report To: ED GALBRAITH/BARR
Copy To: SCOTT FEDAK/FEEZOR
DANA BAKER/MARGARET TREANOR-BARR
Purchase Order No.: PO 3727110
Project Name: BRIDGETON UNTREATED COMMINGLED
Project Number:

Section C

Invoice Information:

Attention: AMY HARGROVE/BRIAN POWER
Company Name: REPUBLIC SERVICES
Address: BRIDGETON, MO 63044
Pace Quote Reference:
Pace Project Manager: Angie Brown 913-563-1402
Pace Profile #: PROFILE 6787-LINE 6

REGULATORY AGENCY

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

Site Location

MO

STATE:

Requested Analysis Filtered (Y/N)

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										
					DATE	TIME	DATE	TIME																									
1	TCLP 4-12-14 3(DGAW) WT		G			4/12/14	15:00		8	3	2	3							X	X	X	X	2/46/14, 2/46/35, BPA	** total VOCs Bridgeton List									
2	TRIP BLANK 2(DGAW) WT		G						2				2						X					* footnote %dry solids TCLP									
3																																	
4																																	
5																																	
6																																	
7																																	
8																																	
9																																	
10																																	
11																																	
12																																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
	[Signature] FBI	4/14/14	9:00 AM	[Signature] Belf Stone 4/12	4/14/14	9:00 AM			
				[Signature] Shandale McKey/PAST	4/14/14	1:30	24	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed
(MM/DD/YY):

Temp in °C

Received on
Ice (Y/N)

Custody Sealed
Cooler (Y/N)

Samples Intact
(Y/N)

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

Date: 4/17/14 Batch: 0273
Analyst: JD2 Balance ID: 000EXT5 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)
60160998-001	123.3	258.3	279.3	1.3	123.7	407.5	1.9	128.2	134.6	4.75	1.3	N/A	0%	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

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

April 21, 2014

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

RE: Project: BRIDGETON LF 316-269
Pace Project No.: 60167001

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 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.
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-269

Pace Project No.: 60167001

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 316-269

Pace Project No.: 60167001

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60167001001	316-269	Water	04/13/14 08:18	04/14/14 13:30
60167001002	TRIP BLANK	Water	04/13/14 08:18	04/14/14 13:30

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-269

Pace Project No.: 60167001

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60167001001	316-269	EPA 200.7	NDJ	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	DJR	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	NDL	1
60167001002	TRIP BLANK	EPA 624 Low	EAK	28

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-269

Pace Project No.: 60167001

Sample: 316-269		Lab ID: 60167001001	Collected: 04/13/14 08:18	Received: 04/14/14 13:30	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	8770	ug/L	750	2	04/15/14 14:00	04/16/14 16:27	7429-90-5	
Antimony	62.6	ug/L	50.0	1	04/15/14 14:00	04/16/14 16:24	7440-36-0	
Arsenic	1120	ug/L	50.0	1	04/15/14 14:00	04/16/14 16:24	7440-38-2	
Beryllium	ND	ug/L	5.0	1	04/15/14 14:00	04/16/14 16:24	7440-41-7	
Cadmium	ND	ug/L	25.0	1	04/15/14 14:00	04/16/14 16:24	7440-43-9	
Chromium	210	ug/L	25.0	1	04/15/14 14:00	04/16/14 16:24	7440-47-3	
Cobalt	36.6	ug/L	25.0	1	04/15/14 14:00	04/16/14 16:24	7440-48-4	
Copper	ND	ug/L	50.0	1	04/15/14 14:00	04/16/14 16:24	7440-50-8	
Iron	708000	ug/L	250	1	04/15/14 14:00	04/16/14 16:24	7439-89-6	
Lead	96.4	ug/L	25.0	1	04/15/14 14:00	04/16/14 16:24	7439-92-1	
Nickel	101	ug/L	25.0	1	04/15/14 14:00	04/16/14 16:24	7440-02-0	
Selenium	ND	ug/L	75.0	1	04/15/14 14:00	04/16/14 16:24	7782-49-2	
Silver	ND	ug/L	35.0	1	04/15/14 14:00	04/16/14 16:24	7440-22-4	
Thallium	ND	ug/L	100	1	04/15/14 14:00	04/16/14 16:24	7440-28-0	
Zinc	5910	ug/L	500	2	04/15/14 14:00	04/16/14 16:27	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1490	ug/L	750	2	04/18/14 09:45	04/18/14 15:28	7429-90-5	
Antimony, Dissolved	ND	ug/L	50.0	1	04/18/14 09:45	04/18/14 15:26	7440-36-0	
Arsenic, Dissolved	822	ug/L	50.0	1	04/18/14 09:45	04/18/14 15:26	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	04/18/14 09:45	04/18/14 15:26	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	04/18/14 09:45	04/18/14 15:26	7440-43-9	
Chromium, Dissolved	144	ug/L	25.0	1	04/18/14 09:45	04/18/14 15:26	7440-47-3	
Cobalt, Dissolved	ND	ug/L	25.0	1	04/18/14 09:45	04/18/14 15:26	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	04/18/14 09:45	04/18/14 15:26	7440-50-8	
Iron, Dissolved	359000	ug/L	250	1	04/18/14 09:45	04/18/14 15:26	7439-89-6	
Lead, Dissolved	27.1	ug/L	25.0	1	04/18/14 09:45	04/18/14 15:26	7439-92-1	
Nickel, Dissolved	76.0	ug/L	25.0	1	04/18/14 09:45	04/18/14 15:26	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	04/18/14 09:45	04/18/14 15:26	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	04/18/14 09:45	04/18/14 15:26	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	04/18/14 09:45	04/18/14 15:26	7440-28-0	
Zinc, Dissolved	4770	ug/L	500	2	04/18/14 09:45	04/18/14 15:28	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND	ug/L	6.0	1	04/21/14 10:45	04/21/14 13:52	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND	ug/L	6.0	1	04/16/14 18:00	04/17/14 15:33	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND	ug/L	50.0	2	04/16/14 00:00	04/17/14 21:15	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	2	04/16/14 00:00	04/17/14 21:15	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	10.0	2	04/16/14 00:00	04/17/14 21:15	77-47-4	
Hexachloroethane	ND	ug/L	10.0	2	04/16/14 00:00	04/17/14 21:15	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	20.0	2	04/16/14 00:00	04/17/14 21:15	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	73.5	ug/L	40.0	2	04/16/14 00:00	04/17/14 21:15		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-269

Pace Project No.: 60167001

Sample: 316-269		Lab ID: 60167001001	Collected: 04/13/14 08:18	Received: 04/14/14 13:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	16.6 ug/L		10.0	2	04/16/14 00:00	04/17/14 21:15	91-20-3	
Nitrobenzene	ND ug/L		10.0	2	04/16/14 00:00	04/17/14 21:15	98-95-3	
Pentachlorophenol	ND ug/L		10.0	2	04/16/14 00:00	04/17/14 21:15	87-86-5	
Phenol	101 ug/L		10.0	2	04/16/14 00:00	04/17/14 21:15	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		10.0	2	04/16/14 00:00	04/17/14 21:15	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		10.0	2	04/16/14 00:00	04/17/14 21:15	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	150 %		33-120	2	04/16/14 00:00	04/17/14 21:15	4165-60-0	S0
2-Fluorobiphenyl (S)	86 %		39-120	2	04/16/14 00:00	04/17/14 21:15	321-60-8	
Terphenyl-d14 (S)	92 %		45-120	2	04/16/14 00:00	04/17/14 21:15	1718-51-0	
Phenol-d6 (S)	44 %		11-120	2	04/16/14 00:00	04/17/14 21:15	13127-88-3	
2-Fluorophenol (S)	46 %		17-120	2	04/16/14 00:00	04/17/14 21:15	367-12-4	
2,4,6-Tribromophenol (S)	90 %		39-120	2	04/16/14 00:00	04/17/14 21:15	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	163000 ug/L		2500	250		04/18/14 13:32	67-64-1	L1,N2
Benzene	ND ug/L		250	250		04/18/14 13:32	71-43-2	
Bromodichloromethane	ND ug/L		250	250		04/18/14 13:32	75-27-4	
Bromoform	ND ug/L		250	250		04/18/14 13:32	75-25-2	
Bromomethane	ND ug/L		1250	250		04/18/14 13:32	74-83-9	
2-Butanone (MEK)	72400 ug/L		2500	250		04/18/14 13:32	78-93-3	L1,N2
Carbon tetrachloride	ND ug/L		250	250		04/18/14 13:32	56-23-5	
Chloroethane	ND ug/L		250	250		04/18/14 13:32	75-00-3	
Chloroform	ND ug/L		250	250		04/18/14 13:32	67-66-3	
1,4-Dichlorobenzene	348 ug/L		250	250		04/18/14 13:32	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		04/18/14 13:32	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		04/18/14 13:32	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		04/18/14 13:32	156-60-5	
Ethylbenzene	ND ug/L		250	250		04/18/14 13:32	100-41-4	
Methylene chloride	ND ug/L		250	250		04/18/14 13:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		04/18/14 13:32	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		04/18/14 13:32	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		04/18/14 13:32	127-18-4	
Toluene	ND ug/L		250	250		04/18/14 13:32	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		04/18/14 13:32	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		04/18/14 13:32	79-00-5	
Trichloroethene	ND ug/L		250	250		04/18/14 13:32	79-01-6	
Vinyl chloride	ND ug/L		250	250		04/18/14 13:32	75-01-4	
Xylene (Total)	ND ug/L		750	250		04/18/14 13:32	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	250		04/18/14 13:32	460-00-4	
Toluene-d8 (S)	101 %		80-120	250		04/18/14 13:32	2037-26-5	
1,2-Dichloroethane-d4 (S)	100 %		80-120	250		04/18/14 13:32	17060-07-0	
Preservation pH	6.0		1.0	250		04/18/14 13:32		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	793 mg/L		5.0	1		04/16/14 14:24		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-269

Pace Project No.: 60167001

Sample: 316-269		Lab ID: 60167001001	Collected: 04/13/14 08:18	Received: 04/14/14 13:30	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		04/18/14 13:43		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	3440	mg/L	5.0	1		04/15/14 08:50		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.3	Std. Units	0.10	1		04/15/14 13:45		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	29300	mg/L	2.0	1	04/14/14 15:46	04/19/14 12:27		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	587	mg/L	20.0	200		04/15/14 11:59	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	55400	mg/L	10000	1000		04/18/14 13:50		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-269

Pace Project No.: 60167001

Sample: TRIP BLANK		Lab ID: 60167001002	Collected: 04/13/14 08:18	Received: 04/14/14 13:30	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		04/17/14 15:45	67-64-1	L3,N2
Benzene	ND ug/L		1.0	1		04/17/14 15:45	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/17/14 15:45	75-27-4	
Bromoform	ND ug/L		1.0	1		04/17/14 15:45	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/17/14 15:45	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/17/14 15:45	78-93-3	L3,N2
Carbon tetrachloride	ND ug/L		1.0	1		04/17/14 15:45	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/17/14 15:45	75-00-3	
Chloroform	ND ug/L		1.0	1		04/17/14 15:45	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/17/14 15:45	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/17/14 15:45	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/17/14 15:45	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/17/14 15:45	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/17/14 15:45	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/17/14 15:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/17/14 15:45	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/17/14 15:45	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/17/14 15:45	127-18-4	
Toluene	ND ug/L		1.0	1		04/17/14 15:45	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/17/14 15:45	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/17/14 15:45	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/17/14 15:45	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/17/14 15:45	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/17/14 15:45	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101 %		80-120	1		04/17/14 15:45	460-00-4	
Toluene-d8 (S)	98 %		80-120	1		04/17/14 15:45	2037-26-5	
1,2-Dichloroethane-d4 (S)	91 %		80-120	1		04/17/14 15:45	17060-07-0	
Preservation pH	6.0		1.0	1		04/17/14 15:45		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-269

Pace Project No.: 60167001

QC Batch: MERP/8315

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60167001001

METHOD BLANK: 1364104

Matrix: Water

Associated Lab Samples: 60167001001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/21/14 13:37	

LABORATORY CONTROL SAMPLE: 1364105

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1364106 1364107

Parameter	Units	60166911001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	3.7	3.8	74	75	70-130	2	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-269

Pace Project No.: 60167001

QC Batch: MERP/8307

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60167001001

METHOD BLANK: 1361868

Matrix: Water

Associated Lab Samples: 60167001001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/17/14 15:13	

LABORATORY CONTROL SAMPLE: 1361869

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.9	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1361870 1361871

Parameter	Units	60167111001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	71.7	77.1	48	51	70-130	7	20	M1

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-269
Pace Project No.: 60167001

QC Batch: MPRP/26834 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60167001001

METHOD BLANK: 1360690 Matrix: Water
Associated Lab Samples: 60167001001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/16/14 15:57	
Antimony	ug/L	ND	10.0	04/16/14 15:57	
Arsenic	ug/L	ND	10.0	04/16/14 15:57	
Beryllium	ug/L	ND	1.0	04/16/14 15:57	
Cadmium	ug/L	ND	5.0	04/16/14 15:57	
Chromium	ug/L	ND	5.0	04/16/14 15:57	
Cobalt	ug/L	ND	5.0	04/16/14 15:57	
Copper	ug/L	ND	10.0	04/16/14 15:57	
Iron	ug/L	ND	50.0	04/16/14 15:57	
Lead	ug/L	ND	5.0	04/16/14 15:57	
Nickel	ug/L	ND	5.0	04/16/14 15:57	
Selenium	ug/L	ND	15.0	04/16/14 15:57	
Silver	ug/L	ND	7.0	04/16/14 15:57	
Thallium	ug/L	ND	20.0	04/16/14 15:57	
Zinc	ug/L	ND	50.0	04/16/14 15:57	

LABORATORY CONTROL SAMPLE: 1360691

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9860	99	85-115	
Antimony	ug/L	1000	1000	100	85-115	
Arsenic	ug/L	1000	966	97	85-115	
Beryllium	ug/L	1000	985	98	85-115	
Cadmium	ug/L	1000	986	99	85-115	
Chromium	ug/L	1000	977	98	85-115	
Cobalt	ug/L	1000	1000	100	85-115	
Copper	ug/L	1000	966	97	85-115	
Iron	ug/L	10000	9940	99	85-115	
Lead	ug/L	1000	1010	101	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	988	99	85-115	
Silver	ug/L	500	479	96	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	1000	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1360692 1360693

Parameter	Units	60166660002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	ND	10000	10000	10000	10000	100	100	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-269

Pace Project No.: 60167001

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1360692 1360693											
Parameter	Units	60166660002		MS	MSD	1360693		MS	MSD	% Rec	Max
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	RPD
Antimony	ug/L	ND	1000	1000	1000	1040	1040	104	104	70-130	7
Arsenic	ug/L	ND	1000	1000	1000	1010	1010	101	101	70-130	10
Beryllium	ug/L	ND	1000	1000	1000	985	992	99	99	70-130	7
Cadmium	ug/L	ND	1000	1000	1000	1010	1010	101	101	70-130	10
Chromium	ug/L	ND	1000	1000	1000	977	984	98	98	70-130	10
Cobalt	ug/L	ND	1000	1000	1000	994	996	99	100	70-130	6
Copper	ug/L	ND	1000	1000	1000	989	997	98	99	70-130	11
Iron	ug/L	ND	10000	10000	10000	10000	10000	100	100	70-130	10
Lead	ug/L	ND	1000	1000	1000	988	985	99	98	70-130	10
Nickel	ug/L	9.1	1000	1000	1000	1010	1020	100	101	70-130	10
Selenium	ug/L	ND	1000	1000	1000	1010	1020	101	102	70-130	10
Silver	ug/L	ND	500	500	500	481	481	96	96	70-130	10
Thallium	ug/L	ND	1000	1000	1000	995	992	100	99	70-130	6
Zinc	ug/L	ND	1000	1000	1000	1010	1010	99	99	70-130	11

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-269
Pace Project No.: 60167001

QC Batch:	MPRP/26902	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60167001001		

METHOD BLANK: 1363030 Matrix: Water
Associated Lab Samples: 60167001001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/18/14 15:24	
Antimony, Dissolved	ug/L	ND	10.0	04/18/14 15:24	
Arsenic, Dissolved	ug/L	ND	10.0	04/18/14 15:24	
Beryllium, Dissolved	ug/L	ND	1.0	04/18/14 15:24	
Cadmium, Dissolved	ug/L	ND	5.0	04/18/14 15:24	
Chromium, Dissolved	ug/L	ND	5.0	04/18/14 15:24	
Cobalt, Dissolved	ug/L	ND	5.0	04/18/14 15:24	
Copper, Dissolved	ug/L	ND	10.0	04/18/14 15:24	
Iron, Dissolved	ug/L	ND	50.0	04/18/14 15:24	
Lead, Dissolved	ug/L	ND	5.0	04/18/14 15:24	
Nickel, Dissolved	ug/L	ND	5.0	04/18/14 15:24	
Selenium, Dissolved	ug/L	ND	15.0	04/18/14 15:24	
Silver, Dissolved	ug/L	ND	7.0	04/18/14 15:24	
Thallium, Dissolved	ug/L	ND	20.0	04/18/14 15:24	
Zinc, Dissolved	ug/L	ND	50.0	04/18/14 15:24	

LABORATORY CONTROL SAMPLE: 1363031

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10600	106	85-115	
Antimony, Dissolved	ug/L	1000	1080	108	85-115	
Arsenic, Dissolved	ug/L	1000	1040	104	85-115	
Beryllium, Dissolved	ug/L	1000	1060	106	85-115	
Cadmium, Dissolved	ug/L	1000	1050	105	85-115	
Chromium, Dissolved	ug/L	1000	1050	105	85-115	
Cobalt, Dissolved	ug/L	1000	1070	107	85-115	
Copper, Dissolved	ug/L	1000	1070	107	85-115	
Iron, Dissolved	ug/L	10000	10700	107	85-115	
Lead, Dissolved	ug/L	1000	1080	108	85-115	
Nickel, Dissolved	ug/L	1000	1080	108	85-115	
Selenium, Dissolved	ug/L	1000	1070	107	85-115	
Silver, Dissolved	ug/L	500	520	104	85-115	
Thallium, Dissolved	ug/L	1000	1070	107	85-115	
Zinc, Dissolved	ug/L	1000	1060	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1363032 1363033

Parameter	Units	60167111001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	1310	50000	50000	50400	51400	98	100	70-130	2	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-269

Pace Project No.: 60167001

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1363032 1363033												
Parameter	Units	60167111001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Antimony, Dissolved	ug/L	ND	5000	5000	5120	5560	102	111	70-130	8	7	R1
Arsenic, Dissolved	ug/L	668	5000	5000	5820	6380	103	114	70-130	9	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	4710	5120	94	102	70-130	8	7	R1
Cadmium, Dissolved	ug/L	ND	5000	5000	4970	5340	99	107	70-130	7	10	
Chromium, Dissolved	ug/L	112	5000	5000	4920	5300	96	104	70-130	7	10	
Cobalt, Dissolved	ug/L	ND	5000	5000	4690	5010	94	100	70-130	7	6	R1
Copper, Dissolved	ug/L	ND	5000	5000	5160	5640	103	113	70-130	9	11	
Iron, Dissolved	ug/L	268000	50000	50000	343000	398000	150	261	70-130	15	10	M1, R1
Lead, Dissolved	ug/L	ND	5000	5000	4590	4930	91	98	70-130	7	10	
Nickel, Dissolved	ug/L	66.8	5000	5000	4770	5090	94	100	70-130	7	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5480	5950	110	119	70-130	8	10	
Silver, Dissolved	ug/L	ND	2500	2500	2560	2760	102	110	70-130	8	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4240	4460	84	89	70-130	5	6	
Zinc, Dissolved	ug/L	3690	5000	5000	8850	9450	103	115	70-130	7	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-269

Pace Project No.: 60167001

QC Batch:	MSV/60905	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60167001002		

METHOD BLANK: 1362371 Matrix: Water

Associated Lab Samples: 60167001002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/17/14 15:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/17/14 15:14	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/17/14 15:14	
1,2-Dichloroethane	ug/L	ND	1.0	04/17/14 15:14	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/17/14 15:14	
2-Butanone (MEK)	ug/L	ND	10.0	04/17/14 15:14	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/17/14 15:14	N2
Acetone	ug/L	ND	10.0	04/17/14 15:14	N2
Benzene	ug/L	ND	1.0	04/17/14 15:14	
Bromodichloromethane	ug/L	ND	1.0	04/17/14 15:14	
Bromoform	ug/L	ND	1.0	04/17/14 15:14	
Bromomethane	ug/L	ND	5.0	04/17/14 15:14	
Carbon tetrachloride	ug/L	ND	1.0	04/17/14 15:14	
Chloroethane	ug/L	ND	1.0	04/17/14 15:14	
Chloroform	ug/L	ND	1.0	04/17/14 15:14	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/17/14 15:14	N2
Ethylbenzene	ug/L	ND	1.0	04/17/14 15:14	
Methylene chloride	ug/L	1.1	1.0	04/17/14 15:14	
Tetrachloroethene	ug/L	ND	1.0	04/17/14 15:14	
Toluene	ug/L	ND	1.0	04/17/14 15:14	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/17/14 15:14	
Trichloroethene	ug/L	ND	1.0	04/17/14 15:14	
Vinyl chloride	ug/L	ND	1.0	04/17/14 15:14	
Xylene (Total)	ug/L	ND	3.0	04/17/14 15:14	N2
1,2-Dichloroethane-d4 (S)	%	99	80-120	04/17/14 15:14	
4-Bromofluorobenzene (S)	%	102	80-120	04/17/14 15:14	
Toluene-d8 (S)	%	101	80-120	04/17/14 15:14	

LABORATORY CONTROL SAMPLE: 1362372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.1	96	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	96	67-127	N2
1,1,2-Trichloroethane	ug/L	20	20.5	103	67-124	
1,2-Dichloroethane	ug/L	20	19.3	96	70-126	
1,4-Dichlorobenzene	ug/L	20	19.6	98	74-120	
2-Butanone (MEK)	ug/L	100	157	157	42-153	L0,N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	105	105	59-131	N2
Acetone	ug/L	100	200	200	38-134	L0,N2
Benzene	ug/L	20	18.9	95	75-120	
Bromodichloromethane	ug/L	20	19.5	98	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-269

Pace Project No.: 60167001

LABORATORY CONTROL SAMPLE: 1362372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.0	100	65-127	
Bromomethane	ug/L	20	23.3	116	13-157	
Carbon tetrachloride	ug/L	20	20.7	103	70-131	
Chloroethane	ug/L	20	21.8	109	47-133	
Chloroform	ug/L	20	18.2	91	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.3	102	68-127	N2
Ethylbenzene	ug/L	20	20.7	104	74-122	
Methylene chloride	ug/L	20	18.5	93	64-129	
Tetrachloroethene	ug/L	20	20.9	104	73-125	
Toluene	ug/L	20	19.3	97	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.0	100	66-129	
Trichloroethene	ug/L	20	19.7	98	71-123	
Vinyl chloride	ug/L	20	24.9	125	43-129	
Xylene (Total)	ug/L	60	63.6	106	75-121	N2
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-269

Pace Project No.: 60167001

QC Batch:	MSV/60926	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60167001001		

METHOD BLANK: 1363074 Matrix: Water

Associated Lab Samples: 60167001001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/18/14 12:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/18/14 12:29	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/18/14 12:29	
1,2-Dichloroethane	ug/L	ND	1.0	04/18/14 12:29	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/18/14 12:29	
2-Butanone (MEK)	ug/L	ND	10.0	04/18/14 12:29	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/18/14 12:29	N2
Acetone	ug/L	ND	10.0	04/18/14 12:29	N2
Benzene	ug/L	ND	1.0	04/18/14 12:29	
Bromodichloromethane	ug/L	ND	1.0	04/18/14 12:29	
Bromoform	ug/L	ND	1.0	04/18/14 12:29	
Bromomethane	ug/L	ND	5.0	04/18/14 12:29	
Carbon tetrachloride	ug/L	ND	1.0	04/18/14 12:29	
Chloroethane	ug/L	ND	1.0	04/18/14 12:29	
Chloroform	ug/L	ND	1.0	04/18/14 12:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/18/14 12:29	N2
Ethylbenzene	ug/L	ND	1.0	04/18/14 12:29	
Methylene chloride	ug/L	ND	1.0	04/18/14 12:29	
Tetrachloroethene	ug/L	ND	1.0	04/18/14 12:29	
Toluene	ug/L	ND	1.0	04/18/14 12:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/18/14 12:29	
Trichloroethene	ug/L	ND	1.0	04/18/14 12:29	
Vinyl chloride	ug/L	ND	1.0	04/18/14 12:29	
Xylene (Total)	ug/L	ND	3.0	04/18/14 12:29	N2
1,2-Dichloroethane-d4 (S)	%	98	80-120	04/18/14 12:29	
4-Bromofluorobenzene (S)	%	103	80-120	04/18/14 12:29	
Toluene-d8 (S)	%	99	80-120	04/18/14 12:29	

LABORATORY CONTROL SAMPLE: 1363075

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.3	97	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.0	100	67-127	N2
1,1,2-Trichloroethane	ug/L	20	20.3	101	67-124	
1,2-Dichloroethane	ug/L	20	20.4	102	70-126	
1,4-Dichlorobenzene	ug/L	20	19.6	98	74-120	
2-Butanone (MEK)	ug/L	100	171	171	42-153	L0,N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	108	108	59-131	N2
Acetone	ug/L	100	214	214	38-134	L0,N2
Benzene	ug/L	20	19.3	97	75-120	
Bromodichloromethane	ug/L	20	20.6	103	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-269

Pace Project No.: 60167001

LABORATORY CONTROL SAMPLE: 1363075

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.2	101	65-127	
Bromomethane	ug/L	20	23.9	120	13-157	
Carbon tetrachloride	ug/L	20	21.2	106	70-131	
Chloroethane	ug/L	20	20.4	102	47-133	
Chloroform	ug/L	20	18.8	94	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.7	104	68-127	N2
Ethylbenzene	ug/L	20	20.7	104	74-122	
Methylene chloride	ug/L	20	18.8	94	64-129	
Tetrachloroethene	ug/L	20	19.8	99	73-125	
Toluene	ug/L	20	20.2	101	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.5	102	66-129	
Trichloroethene	ug/L	20	20.0	100	71-123	
Vinyl chloride	ug/L	20	24.6	123	43-129	
Xylene (Total)	ug/L	60	61.6	103	75-121	N2
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			96	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1363076

Parameter	Units	60167111001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	5920	118	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	5290	106	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	5370	107	52-143	
1,2-Dichloroethane	ug/L	ND	5000	5740	115	49-144	
1,4-Dichlorobenzene	ug/L	ND	5000	5220	102	33-140	
2-Butanone (MEK)	ug/L	58200	25000	89300	124	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	30700	121	40-160	N2
Acetone	ug/L	142000	25000	168000	101	10-160	N2
Benzene	ug/L	ND	5000	5430	109	37-151	
Bromodichloromethane	ug/L	ND	5000	5650	113	35-142	
Bromoform	ug/L	ND	5000	5550	111	45-142	
Bromomethane	ug/L	ND	5000	6070	121	10-158	
Carbon tetrachloride	ug/L	ND	5000	6620	132	70-140	
Chloroethane	ug/L	ND	5000	6110	122	19-152	
Chloroform	ug/L	ND	5000	5370	107	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	5860	117	34-147	N2
Ethylbenzene	ug/L	ND	5000	5480	110	40-142	
Methylene chloride	ug/L	ND	5000	5220	102	31-144	
Tetrachloroethene	ug/L	ND	5000	5700	114	64-148	
Toluene	ug/L	ND	5000	5690	114	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	5920	118	54-151	
Trichloroethene	ug/L	ND	5000	5700	114	71-149	
Vinyl chloride	ug/L	ND	5000	7310	146	22-146	
Xylene (Total)	ug/L	ND	15000	16700	111	37-144	N2
1,2-Dichloroethane-d4 (S)	%				103	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-269

Pace Project No.: 60167001

MATRIX SPIKE SAMPLE:		1363076					
Parameter	Units	60167111001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				102	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-269
Pace Project No.: 60167001

QC Batch:	OEXT/43678	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60167001001		

METHOD BLANK: 1361289 Matrix: Water
Associated Lab Samples: 60167001001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/17/14 10:34	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/17/14 10:34	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/17/14 10:34	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/17/14 10:34	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/17/14 10:34	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/17/14 10:34	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/17/14 10:34	
Hexachloroethane	ug/L	ND	5.0	04/17/14 10:34	
Naphthalene	ug/L	ND	5.0	04/17/14 10:34	
Nitrobenzene	ug/L	ND	5.0	04/17/14 10:34	
Pentachlorophenol	ug/L	ND	5.0	04/17/14 10:34	
Phenol	ug/L	ND	5.0	04/17/14 10:34	
2,4,6-Tribromophenol (S)	%	77	39-120	04/17/14 10:34	
2-Fluorobiphenyl (S)	%	78	39-120	04/17/14 10:34	
2-Fluorophenol (S)	%	43	17-120	04/17/14 10:34	
Nitrobenzene-d5 (S)	%	77	33-120	04/17/14 10:34	
Phenol-d6 (S)	%	28	11-120	04/17/14 10:34	
Terphenyl-d14 (S)	%	82	45-120	04/17/14 10:34	

LABORATORY CONTROL SAMPLE: 1361290

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	40.1	80	46-120	
2,4,6-Trichlorophenol	ug/L	50	42.4	85	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	37.6	75	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	33.8	68	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	46.8	94	40-133	
Hexachloro-1,3-butadiene	ug/L	50	37.9	76	44-116	
Hexachlorocyclopentadiene	ug/L	100	57.7	58	24-120	
Hexachloroethane	ug/L	50	41.0	82	43-113	
Naphthalene	ug/L	50	41.5	83	48-120	
Nitrobenzene	ug/L	50	41.6	83	48-120	
Pentachlorophenol	ug/L	50	45.0	90	47-120	
Phenol	ug/L	50	19.0	38	16-112	
2,4,6-Tribromophenol (S)	%			88	39-120	
2-Fluorobiphenyl (S)	%			86	39-120	
2-Fluorophenol (S)	%			47	17-120	
Nitrobenzene-d5 (S)	%			84	33-120	
Phenol-d6 (S)	%			31	11-120	
Terphenyl-d14 (S)	%			89	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-269

Pace Project No.: 60167001

MATRIX SPIKE SAMPLE:		1361291					
Parameter	Units	60166896001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	40.6	81	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	55.3	111	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	50	47.2	94	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	77.1	50	134	113	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	50	17.1J	34	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	40.9	82	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	ND	0	11-120	M1
Hexachloroethane	ug/L	ND	50	47.0	94	40-113	
Naphthalene	ug/L	ND	50	66.4	114	45-120	
Nitrobenzene	ug/L	ND	50	44.6	89	38-120	
Pentachlorophenol	ug/L	ND	50	53.3	107	43-135	
Phenol	ug/L	115	50	152	75	13-112	
2,4,6-Tribromophenol (S)	%				102	39-120	
2-Fluorobiphenyl (S)	%				105	39-120	
2-Fluorophenol (S)	%				51	17-120	
Nitrobenzene-d5 (S)	%				162	33-120	S0
Phenol-d6 (S)	%				52	11-120	
Terphenyl-d14 (S)	%				111	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-269

Pace Project No.: 60167001

QC Batch: WET/47351

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60167001001

METHOD BLANK: 1361684

Matrix: Water

Associated Lab Samples: 60167001001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/16/14 14:24	

LABORATORY CONTROL SAMPLE: 1361685

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.0	98	78-114	

MATRIX SPIKE SAMPLE: 1361688

Parameter	Units	60166508001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	41.7	37.7	85	78-114	

SAMPLE DUPLICATE: 1361689

Parameter	Units	60166681001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	2.4J		18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-269

Pace Project No.: 60167001

QC Batch: WET/47401

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60167001001

METHOD BLANK: 1363273

Matrix: Water

Associated Lab Samples: 60167001001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	04/18/14 13:42	

LABORATORY CONTROL SAMPLE: 1363274

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: 1363276

Parameter	Units	60166890001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20	12.1	53	64-132	M1

SAMPLE DUPLICATE: 1363275

Parameter	Units	60167111001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	7.4	6.5	12	34	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-269

Pace Project No.: 60167001

QC Batch: WET/47310

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60167001001

METHOD BLANK: 1360711

Matrix: Water

Associated Lab Samples: 60167001001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/15/14 08:50	

SAMPLE DUPLICATE: 1360712

Parameter	Units	60166993001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	4400	4380	0	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-269

Pace Project No.: 60167001

QC Batch: WET/47323 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60167001001

SAMPLE DUPLICATE: 1361003

Parameter	Units	60167018001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.8	7.8	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-269

Pace Project No.: 60167001

QC Batch: WET/47301

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60167001001

METHOD BLANK: 1360456

Matrix: Water

Associated Lab Samples: 60167001001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/19/14 12:14	

LABORATORY CONTROL SAMPLE: 1360457

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	183	92	85-115	

SAMPLE DUPLICATE: 1360458

Parameter	Units	60166983002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	1500	1420	6	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-269

Pace Project No.: 60167001

QC Batch:	WETA/29020	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60167001001		

METHOD BLANK: 1360315 Matrix: Water
Associated Lab Samples: 60167001001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/15/14 11:37	

LABORATORY CONTROL SAMPLE: 1360316

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1360317

Parameter	Units	60166789007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	4	2.3	58	90-110	M1

MATRIX SPIKE SAMPLE: 1360318

Parameter	Units	60166790001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1.5	2	3.0	77	90-110	M1

SAMPLE DUPLICATE: 1360319

Parameter	Units	60166791001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	7.9	8.0	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-269

Pace Project No.: 60167001

QC Batch:	WETA/29049	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60167001001		

METHOD BLANK: 1362044 Matrix: Water
Associated Lab Samples: 60167001001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	04/18/14 13:27	

LABORATORY CONTROL SAMPLE: 1362045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	53.7	107	90-110	

MATRIX SPIKE SAMPLE: 1362046

Parameter	Units	60166896001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	71900	50000	121000	99	90-110	

MATRIX SPIKE SAMPLE: 1362048

Parameter	Units	60166666001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	239	200	437	99	90-110	

SAMPLE DUPLICATE: 1362047

Parameter	Units	60166994002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	4520	4520	0	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-269

Pace Project No.: 60167001

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/60905

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

ANALYTE QUALIFIERS

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

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.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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

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 316-269

Pace Project No.: 60167001

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60167001001	316-269	EPA 200.7	MPRP/26834	EPA 200.7	ICP/20391
60167001001	316-269	EPA 200.7	MPRP/26902	EPA 200.7	ICP/20422
60167001001	316-269	EPA 245.1	MERP/8315	EPA 245.1	MERC/8268
60167001001	316-269	EPA 245.1	MERP/8307	EPA 245.1	MERC/8260
60167001001	316-269	EPA 625	OEXT/43678	EPA 625	MSSV/13942
60167001001	316-269	EPA 624 Low	MSV/60926		
60167001002	TRIP BLANK	EPA 624 Low	MSV/60905		
60167001001	316-269	EPA 1664A	WET/47351		
60167001001	316-269	EPA 1664A	WET/47401		
60167001001	316-269	SM 2540D	WET/47310		
60167001001	316-269	SM 4500-H+B	WET/47323		
60167001001	316-269	SM 5210B	WET/47301	SM 5210B	WET/47413
60167001001	316-269	EPA 350.1	WETA/29020		
60167001001	316-269	EPA 410.4	WETA/29049		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60167001
60167001

Client Name: Barr

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

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

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

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

Thermometer Used: T-239 / T-194

Type of Ice: Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.4

Temperature should be above freezing to 6°C

Date and initials of person examining contents: 8/4/14

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

Client Notification/ Resolution:

Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 8/4/14

April 23, 2014

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

RE: Project: BRIDGETON LF 316-270
Pace Project No.: 60167111

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 16, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-270

Pace Project No.: 60167111

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 316-270

Pace Project No.: 60167111

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60167111001	316-270	Water	04/14/14 11:14	04/16/14 02:10
60167111002	TRIP BLANK	Water	04/14/14 11:14	04/16/14 02:10

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-270

Pace Project No.: 60167111

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60167111001	316-270	EPA 200.7	JGP	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	DJR	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
		EPA 624 Low	EAK	28
60167111002	TRIP BLANK			

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-270

Pace Project No.: 60167111

Sample: 316-270		Lab ID: 60167111001	Collected: 04/14/14 11:14	Received: 04/16/14 02:10	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	7500 ug/L		750	2	04/18/14 16:30	04/21/14 18:00	7429-90-5	
Antimony	ND ug/L		100	2	04/18/14 16:30	04/21/14 18:00	7440-36-0	D3
Arsenic	1110 ug/L		50.0	1	04/18/14 16:30	04/21/14 17:57	7440-38-2	
Beryllium	ND ug/L		5.0	1	04/18/14 16:30	04/21/14 17:57	7440-41-7	
Cadmium	ND ug/L		25.0	1	04/18/14 16:30	04/21/14 17:57	7440-43-9	
Chromium	213 ug/L		25.0	1	04/18/14 16:30	04/21/14 17:57	7440-47-3	
Cobalt	43.7 ug/L		25.0	1	04/18/14 16:30	04/21/14 17:57	7440-48-4	
Copper	ND ug/L		50.0	1	04/18/14 16:30	04/21/14 17:57	7440-50-8	
Iron	687000 ug/L		250	1	04/18/14 16:30	04/21/14 17:57	7439-89-6	M1
Lead	93.2 ug/L		25.0	1	04/18/14 16:30	04/21/14 17:57	7439-92-1	
Nickel	112 ug/L		25.0	1	04/18/14 16:30	04/21/14 17:57	7440-02-0	
Selenium	84.9 ug/L		75.0	1	04/18/14 16:30	04/21/14 17:57	7782-49-2	
Silver	ND ug/L		35.0	1	04/18/14 16:30	04/21/14 17:57	7440-22-4	
Thallium	ND ug/L		100	1	04/18/14 16:30	04/21/14 17:57	7440-28-0	
Zinc	5380 ug/L		500	2	04/18/14 16:30	04/21/14 18:00	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1310 ug/L		375	1	04/18/14 09:45	04/18/14 15:31	7429-90-5	
Antimony, Dissolved	ND ug/L		50.0	1	04/18/14 09:45	04/18/14 15:31	7440-36-0	R1
Arsenic, Dissolved	668 ug/L		50.0	1	04/18/14 09:45	04/18/14 15:31	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	04/18/14 09:45	04/18/14 15:31	7440-41-7	R1
Cadmium, Dissolved	ND ug/L		25.0	1	04/18/14 09:45	04/18/14 15:31	7440-43-9	
Chromium, Dissolved	112 ug/L		25.0	1	04/18/14 09:45	04/18/14 15:31	7440-47-3	
Cobalt, Dissolved	ND ug/L		25.0	1	04/18/14 09:45	04/18/14 15:31	7440-48-4	R1
Copper, Dissolved	ND ug/L		50.0	1	04/18/14 09:45	04/18/14 15:31	7440-50-8	
Iron, Dissolved	268000 ug/L		250	1	04/18/14 09:45	04/18/14 15:31	7439-89-6	M1, R1
Lead, Dissolved	ND ug/L		25.0	1	04/18/14 09:45	04/18/14 15:31	7439-92-1	
Nickel, Dissolved	66.8 ug/L		25.0	1	04/18/14 09:45	04/18/14 15:31	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	04/18/14 09:45	04/18/14 15:31	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	04/18/14 09:45	04/18/14 15:31	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	04/18/14 09:45	04/18/14 15:31	7440-28-0	
Zinc, Dissolved	3690 ug/L		250	1	04/18/14 09:45	04/18/14 15:31	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	18.4 ug/L		6.0	1	04/22/14 11:45	04/22/14 14:54	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	04/16/14 18:00	04/17/14 15:35	7439-97-6	M1
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	04/17/14 00:00	04/18/14 15:00	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	04/17/14 00:00	04/18/14 15:00	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	04/17/14 00:00	04/18/14 15:00	77-47-4	
Hexachloroethane	ND ug/L		1000	2	04/17/14 00:00	04/18/14 15:00	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	04/17/14 00:00	04/18/14 15:00	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	7570 ug/L		4000	2	04/17/14 00:00	04/18/14 15:00		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-270

Pace Project No.: 60167111

Sample: 316-270		Lab ID: 60167111001	Collected: 04/14/14 11:14	Received: 04/16/14 02:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	1160 ug/L		1000	2	04/17/14 00:00	04/18/14 15:00	91-20-3	
Nitrobenzene	ND ug/L		1000	2	04/17/14 00:00	04/18/14 15:00	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	04/17/14 00:00	04/18/14 15:00	87-86-5	
Phenol	10700 ug/L		1000	2	04/17/14 00:00	04/18/14 15:00	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	04/17/14 00:00	04/18/14 15:00	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	04/17/14 00:00	04/18/14 15:00	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	146 %		33-120	2	04/17/14 00:00	04/18/14 15:00	4165-60-0	S0
2-Fluorobiphenyl (S)	82 %		39-120	2	04/17/14 00:00	04/18/14 15:00	321-60-8	
Terphenyl-d14 (S)	79 %		45-120	2	04/17/14 00:00	04/18/14 15:00	1718-51-0	
Phenol-d6 (S)	34 %		11-120	2	04/17/14 00:00	04/18/14 15:00	13127-88-3	
2-Fluorophenol (S)	47 %		17-120	2	04/17/14 00:00	04/18/14 15:00	367-12-4	
2,4,6-Tribromophenol (S)	92 %		39-120	2	04/17/14 00:00	04/18/14 15:00	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	142000 ug/L		2500	250		04/18/14 13:48	67-64-1	L1,N2
Benzene	ND ug/L		250	250		04/18/14 13:48	71-43-2	
Bromodichloromethane	ND ug/L		250	250		04/18/14 13:48	75-27-4	
Bromoform	ND ug/L		250	250		04/18/14 13:48	75-25-2	
Bromomethane	ND ug/L		1250	250		04/18/14 13:48	74-83-9	
2-Butanone (MEK)	58200 ug/L		2500	250		04/18/14 13:48	78-93-3	L1,N2
Carbon tetrachloride	ND ug/L		250	250		04/18/14 13:48	56-23-5	
Chloroethane	ND ug/L		250	250		04/18/14 13:48	75-00-3	
Chloroform	ND ug/L		250	250		04/18/14 13:48	67-66-3	
1,4-Dichlorobenzene	ND ug/L		250	250		04/18/14 13:48	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		04/18/14 13:48	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		04/18/14 13:48	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		04/18/14 13:48	156-60-5	
Ethylbenzene	ND ug/L		250	250		04/18/14 13:48	100-41-4	
Methylene chloride	ND ug/L		250	250		04/18/14 13:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		04/18/14 13:48	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		04/18/14 13:48	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		04/18/14 13:48	127-18-4	
Toluene	ND ug/L		250	250		04/18/14 13:48	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		04/18/14 13:48	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		04/18/14 13:48	79-00-5	
Trichloroethene	ND ug/L		250	250		04/18/14 13:48	79-01-6	
Vinyl chloride	ND ug/L		250	250		04/18/14 13:48	75-01-4	
Xylene (Total)	ND ug/L		750	250		04/18/14 13:48	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	97 %		80-120	250		04/18/14 13:48	460-00-4	
Toluene-d8 (S)	101 %		80-120	250		04/18/14 13:48	2037-26-5	
1,2-Dichloroethane-d4 (S)	103 %		80-120	250		04/18/14 13:48	17060-07-0	
Preservation pH	6.0		1.0	250		04/18/14 13:48		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	938 mg/L		5.0	1		04/17/14 15:12		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-270

Pace Project No.: 60167111

Sample: 316-270		Lab ID: 60167111001	Collected: 04/14/14 11:14	Received: 04/16/14 02:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	7.4	mg/L	5.0	1		04/18/14 13:44		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	4140	mg/L	5.0	1		04/16/14 12:20		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.3	Std. Units	0.10	1		04/18/14 09:45		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	35500	mg/L	2.0	1	04/16/14 09:09	04/21/14 10:47		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	576	mg/L	20.0	200		04/17/14 11:19	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	38800	mg/L	5000	500		04/23/14 11:23		M1

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-270

Pace Project No.: 60167111

Sample: TRIP BLANK		Lab ID: 60167111002	Collected: 04/14/14 11:14	Received: 04/16/14 02:10	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		04/17/14 16:01	67-64-1	L3,N2
Benzene	ND ug/L		1.0	1		04/17/14 16:01	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/17/14 16:01	75-27-4	
Bromoform	ND ug/L		1.0	1		04/17/14 16:01	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/17/14 16:01	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/17/14 16:01	78-93-3	L3,N2
Carbon tetrachloride	ND ug/L		1.0	1		04/17/14 16:01	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/17/14 16:01	75-00-3	
Chloroform	ND ug/L		1.0	1		04/17/14 16:01	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/17/14 16:01	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/17/14 16:01	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/17/14 16:01	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/17/14 16:01	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/17/14 16:01	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/17/14 16:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/17/14 16:01	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/17/14 16:01	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/17/14 16:01	127-18-4	
Toluene	ND ug/L		1.0	1		04/17/14 16:01	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/17/14 16:01	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/17/14 16:01	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/17/14 16:01	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/17/14 16:01	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/17/14 16:01	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	103 %		80-120	1		04/17/14 16:01	460-00-4	
Toluene-d8 (S)	99 %		80-120	1		04/17/14 16:01	2037-26-5	
1,2-Dichloroethane-d4 (S)	92 %		80-120	1		04/17/14 16:01	17060-07-0	
Preservation pH	6.0		1.0	1		04/17/14 16:01		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-270

Pace Project No.: 60167111

QC Batch: MERP/8322

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60167111001

METHOD BLANK: 1364493

Matrix: Water

Associated Lab Samples: 60167111001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/22/14 14:45	

LABORATORY CONTROL SAMPLE: 1364494

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: 1364495 1364496

Parameter	Units	60167111001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	18.4	150	150	157	162	92	96	70-130	4	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-270

Pace Project No.: 60167111

QC Batch: MERP/8307

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60167111001

METHOD BLANK: 1361868

Matrix: Water

Associated Lab Samples: 60167111001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/17/14 15:13	

LABORATORY CONTROL SAMPLE: 1361869

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.9	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1361870 1361871

Parameter	Units	60167111001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	71.7	77.1	48	51	70-130	7	20	M1

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-270
Pace Project No.: 60167111

QC Batch:	MPRP/26892	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
Associated Lab Samples:	60167111001		

METHOD BLANK: 1362735 Matrix: Water
Associated Lab Samples: 60167111001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/21/14 17:50	
Antimony	ug/L	ND	10.0	04/21/14 17:50	
Arsenic	ug/L	ND	10.0	04/21/14 17:50	
Beryllium	ug/L	ND	1.0	04/21/14 17:50	
Cadmium	ug/L	ND	5.0	04/21/14 17:50	
Chromium	ug/L	ND	5.0	04/21/14 17:50	
Cobalt	ug/L	ND	5.0	04/21/14 17:50	
Copper	ug/L	ND	10.0	04/21/14 17:50	
Iron	ug/L	ND	50.0	04/21/14 17:50	
Lead	ug/L	ND	5.0	04/21/14 17:50	
Nickel	ug/L	ND	5.0	04/21/14 17:50	
Selenium	ug/L	ND	15.0	04/21/14 17:50	
Silver	ug/L	ND	7.0	04/21/14 17:50	
Thallium	ug/L	ND	20.0	04/21/14 17:50	
Zinc	ug/L	ND	50.0	04/21/14 17:50	

LABORATORY CONTROL SAMPLE: 1362736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9650	97	85-115	
Antimony	ug/L	1000	1020	102	85-115	
Arsenic	ug/L	1000	939	94	85-115	
Beryllium	ug/L	1000	997	100	85-115	
Cadmium	ug/L	1000	957	96	85-115	
Chromium	ug/L	1000	924	92	85-115	
Cobalt	ug/L	1000	993	99	85-115	
Copper	ug/L	1000	997	100	85-115	
Iron	ug/L	10000	10000	100	85-115	
Lead	ug/L	1000	989	99	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1020	102	85-115	
Silver	ug/L	500	480	96	85-115	
Thallium	ug/L	1000	993	99	85-115	
Zinc	ug/L	1000	940	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1364023 1364024

Parameter	Units	60167111001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	7500	50000	50000	60300	61600	106	108	70-130	2	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-270

Pace Project No.: 60167111

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1364023 1364024											
Parameter	Units	60167111001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max
		Result	Conc.	Spike	Spike						
				Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD
Antimony	ug/L	ND	5000	5000	5000	5370	5470	106	108	70-130	2
Arsenic	ug/L	1110	5000	5000	5000	6440	6650	107	111	70-130	3
Beryllium	ug/L	ND	5000	5000	5000	4720	4770	94	95	70-130	1
Cadmium	ug/L	ND	5000	5000	5000	5150	5200	103	104	70-130	1
Chromium	ug/L	213	5000	5000	5000	4710	4730	90	90	70-130	0
Cobalt	ug/L	43.7	5000	5000	5000	4710	4710	93	93	70-130	0
Copper	ug/L	ND	5000	5000	5000	5400	5480	107	109	70-130	2
Iron	ug/L	687000	50000	50000	50000	743000	822000	112	269	70-130	10
Lead	ug/L	93.2	5000	5000	5000	4470	4460	88	87	70-130	0
Nickel	ug/L	112	5000	5000	5000	4820	4860	94	95	70-130	1
Selenium	ug/L	84.9	5000	5000	5000	6220	6420	123	127	70-130	3
Silver	ug/L	ND	2500	2500	2500	2640	2680	105	107	70-130	2
Thallium	ug/L	ND	5000	5000	5000	4100	4070	82	81	70-130	1
Zinc	ug/L	5380	5000	5000	5000	9740	10400	87	101	70-130	7

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-270
Pace Project No.: 60167111

QC Batch: MPRP/26902 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60167111001

METHOD BLANK: 1363030 Matrix: Water
Associated Lab Samples: 60167111001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/18/14 15:24	
Antimony, Dissolved	ug/L	ND	10.0	04/18/14 15:24	
Arsenic, Dissolved	ug/L	ND	10.0	04/18/14 15:24	
Beryllium, Dissolved	ug/L	ND	1.0	04/18/14 15:24	
Cadmium, Dissolved	ug/L	ND	5.0	04/18/14 15:24	
Chromium, Dissolved	ug/L	ND	5.0	04/18/14 15:24	
Cobalt, Dissolved	ug/L	ND	5.0	04/18/14 15:24	
Copper, Dissolved	ug/L	ND	10.0	04/18/14 15:24	
Iron, Dissolved	ug/L	ND	50.0	04/18/14 15:24	
Lead, Dissolved	ug/L	ND	5.0	04/18/14 15:24	
Nickel, Dissolved	ug/L	ND	5.0	04/18/14 15:24	
Selenium, Dissolved	ug/L	ND	15.0	04/18/14 15:24	
Silver, Dissolved	ug/L	ND	7.0	04/18/14 15:24	
Thallium, Dissolved	ug/L	ND	20.0	04/18/14 15:24	
Zinc, Dissolved	ug/L	ND	50.0	04/18/14 15:24	

LABORATORY CONTROL SAMPLE: 1363031

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10600	106	85-115	
Antimony, Dissolved	ug/L	1000	1080	108	85-115	
Arsenic, Dissolved	ug/L	1000	1040	104	85-115	
Beryllium, Dissolved	ug/L	1000	1060	106	85-115	
Cadmium, Dissolved	ug/L	1000	1050	105	85-115	
Chromium, Dissolved	ug/L	1000	1050	105	85-115	
Cobalt, Dissolved	ug/L	1000	1070	107	85-115	
Copper, Dissolved	ug/L	1000	1070	107	85-115	
Iron, Dissolved	ug/L	10000	10700	107	85-115	
Lead, Dissolved	ug/L	1000	1080	108	85-115	
Nickel, Dissolved	ug/L	1000	1080	108	85-115	
Selenium, Dissolved	ug/L	1000	1070	107	85-115	
Silver, Dissolved	ug/L	500	520	104	85-115	
Thallium, Dissolved	ug/L	1000	1070	107	85-115	
Zinc, Dissolved	ug/L	1000	1060	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1363032 1363033

Parameter	Units	60167111001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	1310	50000	50000	50400	51400	98	100	70-130	2	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-270

Pace Project No.: 60167111

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1363032 1363033												
Parameter	Units	60167111001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Antimony, Dissolved	ug/L	ND	5000	5000	5120	5560	102	111	70-130	8	7	R1
Arsenic, Dissolved	ug/L	668	5000	5000	5820	6380	103	114	70-130	9	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	4710	5120	94	102	70-130	8	7	R1
Cadmium, Dissolved	ug/L	ND	5000	5000	4970	5340	99	107	70-130	7	10	
Chromium, Dissolved	ug/L	112	5000	5000	4920	5300	96	104	70-130	7	10	
Cobalt, Dissolved	ug/L	ND	5000	5000	4690	5010	94	100	70-130	7	6	R1
Copper, Dissolved	ug/L	ND	5000	5000	5160	5640	103	113	70-130	9	11	
Iron, Dissolved	ug/L	268000	50000	50000	343000	398000	150	261	70-130	15	10	M1, R1
Lead, Dissolved	ug/L	ND	5000	5000	4590	4930	91	98	70-130	7	10	
Nickel, Dissolved	ug/L	66.8	5000	5000	4770	5090	94	100	70-130	7	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5480	5950	110	119	70-130	8	10	
Silver, Dissolved	ug/L	ND	2500	2500	2560	2760	102	110	70-130	8	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4240	4460	84	89	70-130	5	6	
Zinc, Dissolved	ug/L	3690	5000	5000	8850	9450	103	115	70-130	7	11	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-270
Pace Project No.: 60167111

QC Batch:	MSV/60905	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60167111002		

METHOD BLANK: 1362371 Matrix: Water
Associated Lab Samples: 60167111002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/17/14 15:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/17/14 15:14	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/17/14 15:14	
1,2-Dichloroethane	ug/L	ND	1.0	04/17/14 15:14	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/17/14 15:14	
2-Butanone (MEK)	ug/L	ND	10.0	04/17/14 15:14	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/17/14 15:14	N2
Acetone	ug/L	ND	10.0	04/17/14 15:14	N2
Benzene	ug/L	ND	1.0	04/17/14 15:14	
Bromodichloromethane	ug/L	ND	1.0	04/17/14 15:14	
Bromoform	ug/L	ND	1.0	04/17/14 15:14	
Bromomethane	ug/L	ND	5.0	04/17/14 15:14	
Carbon tetrachloride	ug/L	ND	1.0	04/17/14 15:14	
Chloroethane	ug/L	ND	1.0	04/17/14 15:14	
Chloroform	ug/L	ND	1.0	04/17/14 15:14	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/17/14 15:14	N2
Ethylbenzene	ug/L	ND	1.0	04/17/14 15:14	
Methylene chloride	ug/L	1.1	1.0	04/17/14 15:14	
Tetrachloroethene	ug/L	ND	1.0	04/17/14 15:14	
Toluene	ug/L	ND	1.0	04/17/14 15:14	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/17/14 15:14	
Trichloroethene	ug/L	ND	1.0	04/17/14 15:14	
Vinyl chloride	ug/L	ND	1.0	04/17/14 15:14	
Xylene (Total)	ug/L	ND	3.0	04/17/14 15:14	N2
1,2-Dichloroethane-d4 (S)	%	99	80-120	04/17/14 15:14	
4-Bromofluorobenzene (S)	%	102	80-120	04/17/14 15:14	
Toluene-d8 (S)	%	101	80-120	04/17/14 15:14	

LABORATORY CONTROL SAMPLE: 1362372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.1	96	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	96	67-127	N2
1,1,2-Trichloroethane	ug/L	20	20.5	103	67-124	
1,2-Dichloroethane	ug/L	20	19.3	96	70-126	
1,4-Dichlorobenzene	ug/L	20	19.6	98	74-120	
2-Butanone (MEK)	ug/L	100	157	157	42-153	L0,N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	105	105	59-131	N2
Acetone	ug/L	100	200	200	38-134	L0,N2
Benzene	ug/L	20	18.9	95	75-120	
Bromodichloromethane	ug/L	20	19.5	98	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-270

Pace Project No.: 60167111

LABORATORY CONTROL SAMPLE: 1362372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.0	100	65-127	
Bromomethane	ug/L	20	23.3	116	13-157	
Carbon tetrachloride	ug/L	20	20.7	103	70-131	
Chloroethane	ug/L	20	21.8	109	47-133	
Chloroform	ug/L	20	18.2	91	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.3	102	68-127	N2
Ethylbenzene	ug/L	20	20.7	104	74-122	
Methylene chloride	ug/L	20	18.5	93	64-129	
Tetrachloroethene	ug/L	20	20.9	104	73-125	
Toluene	ug/L	20	19.3	97	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.0	100	66-129	
Trichloroethene	ug/L	20	19.7	98	71-123	
Vinyl chloride	ug/L	20	24.9	125	43-129	
Xylene (Total)	ug/L	60	63.6	106	75-121	N2
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-270
Pace Project No.: 60167111

QC Batch:	MSV/60926	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60167111001		

METHOD BLANK: 1363074 Matrix: Water
Associated Lab Samples: 60167111001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/18/14 12:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/18/14 12:29	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/18/14 12:29	
1,2-Dichloroethane	ug/L	ND	1.0	04/18/14 12:29	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/18/14 12:29	
2-Butanone (MEK)	ug/L	ND	10.0	04/18/14 12:29	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/18/14 12:29	N2
Acetone	ug/L	ND	10.0	04/18/14 12:29	N2
Benzene	ug/L	ND	1.0	04/18/14 12:29	
Bromodichloromethane	ug/L	ND	1.0	04/18/14 12:29	
Bromoform	ug/L	ND	1.0	04/18/14 12:29	
Bromomethane	ug/L	ND	5.0	04/18/14 12:29	
Carbon tetrachloride	ug/L	ND	1.0	04/18/14 12:29	
Chloroethane	ug/L	ND	1.0	04/18/14 12:29	
Chloroform	ug/L	ND	1.0	04/18/14 12:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/18/14 12:29	N2
Ethylbenzene	ug/L	ND	1.0	04/18/14 12:29	
Methylene chloride	ug/L	ND	1.0	04/18/14 12:29	
Tetrachloroethene	ug/L	ND	1.0	04/18/14 12:29	
Toluene	ug/L	ND	1.0	04/18/14 12:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/18/14 12:29	
Trichloroethene	ug/L	ND	1.0	04/18/14 12:29	
Vinyl chloride	ug/L	ND	1.0	04/18/14 12:29	
Xylene (Total)	ug/L	ND	3.0	04/18/14 12:29	N2
1,2-Dichloroethane-d4 (S)	%	98	80-120	04/18/14 12:29	
4-Bromofluorobenzene (S)	%	103	80-120	04/18/14 12:29	
Toluene-d8 (S)	%	99	80-120	04/18/14 12:29	

LABORATORY CONTROL SAMPLE: 1363075

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.3	97	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.0	100	67-127	N2
1,1,2-Trichloroethane	ug/L	20	20.3	101	67-124	
1,2-Dichloroethane	ug/L	20	20.4	102	70-126	
1,4-Dichlorobenzene	ug/L	20	19.6	98	74-120	
2-Butanone (MEK)	ug/L	100	171	171	42-153	L0,N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	108	108	59-131	N2
Acetone	ug/L	100	214	214	38-134	L0,N2
Benzene	ug/L	20	19.3	97	75-120	
Bromodichloromethane	ug/L	20	20.6	103	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-270

Pace Project No.: 60167111

LABORATORY CONTROL SAMPLE: 1363075

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.2	101	65-127	
Bromomethane	ug/L	20	23.9	120	13-157	
Carbon tetrachloride	ug/L	20	21.2	106	70-131	
Chloroethane	ug/L	20	20.4	102	47-133	
Chloroform	ug/L	20	18.8	94	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.7	104	68-127	N2
Ethylbenzene	ug/L	20	20.7	104	74-122	
Methylene chloride	ug/L	20	18.8	94	64-129	
Tetrachloroethene	ug/L	20	19.8	99	73-125	
Toluene	ug/L	20	20.2	101	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.5	102	66-129	
Trichloroethene	ug/L	20	20.0	100	71-123	
Vinyl chloride	ug/L	20	24.6	123	43-129	
Xylene (Total)	ug/L	60	61.6	103	75-121	N2
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			96	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1363076

Parameter	Units	60167111001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	5920	118	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	5290	106	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	5370	107	52-143	
1,2-Dichloroethane	ug/L	ND	5000	5740	115	49-144	
1,4-Dichlorobenzene	ug/L	ND	5000	5220	102	33-140	
2-Butanone (MEK)	ug/L	58200	25000	89300	124	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	30700	121	40-160	N2
Acetone	ug/L	142000	25000	168000	101	10-160	N2
Benzene	ug/L	ND	5000	5430	109	37-151	
Bromodichloromethane	ug/L	ND	5000	5650	113	35-142	
Bromoform	ug/L	ND	5000	5550	111	45-142	
Bromomethane	ug/L	ND	5000	6070	121	10-158	
Carbon tetrachloride	ug/L	ND	5000	6620	132	70-140	
Chloroethane	ug/L	ND	5000	6110	122	19-152	
Chloroform	ug/L	ND	5000	5370	107	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	5860	117	34-147	N2
Ethylbenzene	ug/L	ND	5000	5480	110	40-142	
Methylene chloride	ug/L	ND	5000	5220	102	31-144	
Tetrachloroethene	ug/L	ND	5000	5700	114	64-148	
Toluene	ug/L	ND	5000	5690	114	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	5920	118	54-151	
Trichloroethene	ug/L	ND	5000	5700	114	71-149	
Vinyl chloride	ug/L	ND	5000	7310	146	22-146	
Xylene (Total)	ug/L	ND	15000	16700	111	37-144	N2
1,2-Dichloroethane-d4 (S)	%				103	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-270

Pace Project No.: 60167111

MATRIX SPIKE SAMPLE: 1363076

Parameter	Units	60167111001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				102	80-120	
Preservation pH		6.0		6.0			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-270
Pace Project No.: 60167111

QC Batch:	OEXT/43712	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60167111001		

METHOD BLANK: 1361925 Matrix: Water
Associated Lab Samples: 60167111001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/18/14 13:58	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/18/14 13:58	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/18/14 13:58	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/18/14 13:58	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/18/14 13:58	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/18/14 13:58	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/18/14 13:58	
Hexachloroethane	ug/L	ND	5.0	04/18/14 13:58	
Naphthalene	ug/L	ND	5.0	04/18/14 13:58	
Nitrobenzene	ug/L	ND	5.0	04/18/14 13:58	
Pentachlorophenol	ug/L	ND	5.0	04/18/14 13:58	
Phenol	ug/L	ND	5.0	04/18/14 13:58	
2,4,6-Tribromophenol (S)	%	91	39-120	04/18/14 13:58	
2-Fluorobiphenyl (S)	%	91	39-120	04/18/14 13:58	
2-Fluorophenol (S)	%	50	17-120	04/18/14 13:58	
Nitrobenzene-d5 (S)	%	92	33-120	04/18/14 13:58	
Phenol-d6 (S)	%	33	11-120	04/18/14 13:58	
Terphenyl-d14 (S)	%	94	45-120	04/18/14 13:58	

LABORATORY CONTROL SAMPLE: 1361926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	37.9	76	46-120	
2,4,6-Trichlorophenol	ug/L	50	42.4	85	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	33.6	67	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	30.4	61	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	45.5	91	40-133	
Hexachloro-1,3-butadiene	ug/L	50	39.7	79	44-116	
Hexachlorocyclopentadiene	ug/L	100	49.4	49	24-120	
Hexachloroethane	ug/L	50	37.6	75	43-113	
Naphthalene	ug/L	50	41.0	82	48-120	
Nitrobenzene	ug/L	50	40.8	82	48-120	
Pentachlorophenol	ug/L	50	46.5	93	47-120	
Phenol	ug/L	50	17.3	35	16-112	
2,4,6-Tribromophenol (S)	%			87	39-120	
2-Fluorobiphenyl (S)	%			82	39-120	
2-Fluorophenol (S)	%			45	17-120	
Nitrobenzene-d5 (S)	%			82	33-120	
Phenol-d6 (S)	%			30	11-120	
Terphenyl-d14 (S)	%			89	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-270

Pace Project No.: 60167111

MATRIX SPIKE SAMPLE:		1361927					
Parameter	Units	60167111001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3690	74	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4400	88	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	4090	82	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	7570	5000	12100	90	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4380J	88	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3880	78	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	6310	63	11-120	
Hexachloroethane	ug/L	ND	5000	4020	80	40-113	
Naphthalene	ug/L	1160	5000	5000	77	45-120	
Nitrobenzene	ug/L	ND	5000	3920	78	38-120	
Pentachlorophenol	ug/L	ND	5000	5230	105	43-135	
Phenol	ug/L	10700	5000	14300	72	13-112	
2,4,6-Tribromophenol (S)	%				91	39-120	
2-Fluorobiphenyl (S)	%				80	39-120	
2-Fluorophenol (S)	%				48	17-120	
Nitrobenzene-d5 (S)	%				153	33-120	SO
Phenol-d6 (S)	%				49	11-120	
Terphenyl-d14 (S)	%				82	45-120	

MATRIX SPIKE SAMPLE:		1361928					
Parameter	Units	60167024001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	51.2	102	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	52.4	105	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	50	43.2	86	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	36.9	74	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	50	59.8	120	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	51.9	104	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	69.5	69	11-120	
Hexachloroethane	ug/L	ND	50	48.8	98	40-113	
Naphthalene	ug/L	ND	50	51.5	103	45-120	
Nitrobenzene	ug/L	ND	50	50.5	101	38-120	
Pentachlorophenol	ug/L	ND	50	65.2	130	43-135	
Phenol	ug/L	ND	50	20.5	41	13-112	
2,4,6-Tribromophenol (S)	%				120	39-120	
2-Fluorobiphenyl (S)	%				107	39-120	
2-Fluorophenol (S)	%				58	17-120	
Nitrobenzene-d5 (S)	%				102	33-120	
Phenol-d6 (S)	%				36	11-120	
Terphenyl-d14 (S)	%				110	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-270

Pace Project No.: 60167111

QC Batch:	WET/47373	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60167111001		

METHOD BLANK: 1362498 Matrix: Water

Associated Lab Samples: 60167111001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/17/14 15:10	

LABORATORY CONTROL SAMPLE: 1362499

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.0	98	78-114	

MATRIX SPIKE SAMPLE: 1362500

Parameter	Units	60166722004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40.8	36.6	86	78-114	

SAMPLE DUPLICATE: 1362501

Parameter	Units	60167111001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	938	958	2	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-270

Pace Project No.: 60167111

QC Batch: WET/47401

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60167111001

METHOD BLANK: 1363273

Matrix: Water

Associated Lab Samples: 60167111001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	04/18/14 13:42	

LABORATORY CONTROL SAMPLE: 1363274

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: 1363276

Parameter	Units	60166890001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20	12.1	53	64-132	M1

SAMPLE DUPLICATE: 1363275

Parameter	Units	60167111001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	7.4	6.5	12	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-270

Pace Project No.: 60167111

QC Batch: WET/47344

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60167111001

METHOD BLANK: 1361565

Matrix: Water

Associated Lab Samples: 60167111001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/16/14 12:20	

SAMPLE DUPLICATE: 1361566

Parameter	Units	60167111001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	4140	4140	0	10	

SAMPLE DUPLICATE: 1361567

Parameter	Units	60167097002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	30.0	32.0	6	10	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-270

Pace Project No.: 60167111

QC Batch: WET/47394 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60167111001

SAMPLE DUPLICATE: 1363024

Parameter	Units	60167111001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.3	5.3	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-270

Pace Project No.: 60167111

QC Batch: WET/47335

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60167111001

METHOD BLANK: 1361389

Matrix: Water

Associated Lab Samples: 60167111001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/21/14 10:40	

LABORATORY CONTROL SAMPLE: 1361390

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	187	94	85-115	

SAMPLE DUPLICATE: 1361391

Parameter	Units	60167015001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	5810	5920	2	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-270

Pace Project No.: 60167111

QC Batch: WETA/29052

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60167111001

METHOD BLANK: 1362108

Matrix: Water

Associated Lab Samples: 60167111001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/17/14 10:58	

LABORATORY CONTROL SAMPLE: 1362109

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1362110

Parameter	Units	60167022002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.9	93	90-110	

MATRIX SPIKE SAMPLE: 1362111

Parameter	Units	60167045006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.8	90	90-110	

SAMPLE DUPLICATE: 1362112

Parameter	Units	60167111001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	576	608	5	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-270

Pace Project No.: 60167111

QC Batch: WETA/29108

Analysis Method: EPA 410.4

QC Batch Method: EPA 410.4

Analysis Description: 410.4 COD

Associated Lab Samples: 60167111001

METHOD BLANK: 1365146

Matrix: Water

Associated Lab Samples: 60167111001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	04/23/14 11:13	

LABORATORY CONTROL SAMPLE: 1365147

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: 1365149

Parameter	Units	60167111001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	38800	25000	67700	116	90-110	M1

SAMPLE DUPLICATE: 1365148

Parameter	Units	60166577002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	7.0J	ND		25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-270

Pace Project No.: 60167111

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/60905

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

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

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.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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

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 316-270

Pace Project No.: 60167111

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60167111001	316-270	EPA 200.7	MPRP/26892	EPA 200.7	ICP/20430
60167111001	316-270	EPA 200.7	MPRP/26902	EPA 200.7	ICP/20422
60167111001	316-270	EPA 245.1	MERP/8322	EPA 245.1	MERC/8275
60167111001	316-270	EPA 245.1	MERP/8307	EPA 245.1	MERC/8260
60167111001	316-270	EPA 625	OEXT/43712	EPA 625	MSSV/13954
60167111001	316-270	EPA 624 Low	MSV/60926		
60167111002	TRIP BLANK	EPA 624 Low	MSV/60905		
60167111001	316-270	EPA 1664A	WET/47373		
60167111001	316-270	EPA 1664A	WET/47401		
60167111001	316-270	SM 2540D	WET/47344		
60167111001	316-270	SM 4500-H+B	WET/47394		
60167111001	316-270	SM 5210B	WET/47335	SM 5210B	WET/47421
60167111001	316-270	EPA 350.1	WETA/29052		
60167111001	316-270	EPA 410.4	WETA/29108		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60167111



60167111

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 ☒ ZPU

Thermometer Used: T-239 / T-194

Type of Ice: Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.2

Date and initials of person examining contents: 4/16/14

Temperature should be above freezing to 6°C

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☒ Yes ☐ No ☐ N/A	6. ROD, pH
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	9.
Pace containers used:	☒ Yes ☐ No ☐ N/A	10.
Containers intact:	☒ Yes ☐ No ☐ N/A	11.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	12.
Filtered volume received for dissolved tests?	☐ Yes ☒ No ☐ N/A	13.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	14.
Includes date/time/ID/analyses	Matrix: <u>WT</u>	15.
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	16.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☒ No ☐ N/A	17.
Exceptions: <u>VOA</u> coliform, TOC, <u>P&G</u> WI-DRO (water), Phenolics	☒ Yes ☐ No	Initial when completed <u>BA</u>
Trip Blank present:	☒ Yes ☐ No ☐ N/A	Lot # of added HNO3 <u>12517</u> preservative H2SO4 <u>12522</u>
Pace Trip Blank lot # (if purchased): <u>covered</u>		18.
Headspace in VOA vials (>6mm):	☐ Yes ☒ No ☐ N/A	19.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ N/A	20. List State: <u>ND</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: 4/16/14

April 23, 2014

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

RE: Project: BRIDGETON LF COMBINED BTC 4/15
Pace Project No.: 60167120

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 16, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF COMBINED BTC 4/15

Pace Project No.: 60167120

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 COMBINED BTC 4/15

Pace Project No.: 60167120

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60167120001	COMBINED BATCH 04/15/14	Water	04/15/14 09:40	04/16/14 02:10
60167120002	TRIP BLANK	Water	04/15/14 09:40	04/16/14 02:10

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF COMBINED BTC 4/15

Pace Project No.: 60167120

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60167120001	COMBINED BATCH 04/15/14	EPA 200.7	JGP	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	DJR	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
		EPA 624 Low	EAK	28
60167120002	TRIP BLANK			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF COMBINED BTC 4/15

Pace Project No.: 60167120

Sample: COMBINED BATCH
04/15/14 **Lab ID:** 60167120001 Collected: 04/15/14 09:40 Received: 04/16/14 02:10 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	5110	ug/L	750	2	04/18/14 16:30	04/21/14 18:20	7429-90-5	D3
Antimony	ND	ug/L	100	2	04/18/14 16:30	04/21/14 18:20	7440-36-0	
Arsenic	708	ug/L	50.0	1	04/18/14 16:30	04/21/14 18:17	7440-38-2	
Beryllium	ND	ug/L	5.0	1	04/18/14 16:30	04/21/14 18:17	7440-41-7	
Cadmium	ND	ug/L	25.0	1	04/18/14 16:30	04/21/14 18:17	7440-43-9	
Chromium	152	ug/L	25.0	1	04/18/14 16:30	04/21/14 18:17	7440-47-3	
Cobalt	29.4	ug/L	25.0	1	04/18/14 16:30	04/21/14 18:17	7440-48-4	
Copper	ND	ug/L	50.0	1	04/18/14 16:30	04/21/14 18:17	7440-50-8	
Iron	463000	ug/L	250	1	04/18/14 16:30	04/21/14 18:17	7439-89-6	
Lead	63.8	ug/L	25.0	1	04/18/14 16:30	04/21/14 18:17	7439-92-1	
Nickel	82.2	ug/L	25.0	1	04/18/14 16:30	04/21/14 18:17	7440-02-0	
Selenium	ND	ug/L	75.0	1	04/18/14 16:30	04/21/14 18:17	7782-49-2	
Silver	ND	ug/L	35.0	1	04/18/14 16:30	04/21/14 18:17	7440-22-4	
Thallium	ND	ug/L	100	1	04/18/14 16:30	04/21/14 18:17	7440-28-0	
Zinc	3760	ug/L	500	2	04/18/14 16:30	04/21/14 18:20	7440-66-6	
200.7 Metals, Dissolved (LF) Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Aluminum, Dissolved	1330	ug/L	750	2	04/18/14 09:45	04/21/14 10:48	7429-90-5	
Antimony, Dissolved	ND	ug/L	50.0	1	04/18/14 09:45	04/21/14 10:45	7440-36-0	
Arsenic, Dissolved	618	ug/L	50.0	1	04/18/14 09:45	04/21/14 10:45	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	04/18/14 09:45	04/21/14 10:45	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	04/18/14 09:45	04/21/14 10:45	7440-43-9	
Chromium, Dissolved	126	ug/L	25.0	1	04/18/14 09:45	04/21/14 10:45	7440-47-3	
Cobalt, Dissolved	ND	ug/L	25.0	1	04/18/14 09:45	04/21/14 10:45	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	04/18/14 09:45	04/21/14 10:45	7440-50-8	
Iron, Dissolved	299000	ug/L	250	1	04/18/14 09:45	04/21/14 10:45	7439-89-6	
Lead, Dissolved	36.1	ug/L	25.0	1	04/18/14 09:45	04/21/14 10:45	7439-92-1	
Nickel, Dissolved	63.6	ug/L	25.0	1	04/18/14 09:45	04/21/14 10:45	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	04/18/14 09:45	04/21/14 10:45	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	04/18/14 09:45	04/21/14 10:45	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	04/18/14 09:45	04/21/14 10:45	7440-28-0	
Zinc, Dissolved	3590	ug/L	500	2	04/18/14 09:45	04/21/14 10:48	7440-66-6	
245.1 Mercury Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury	30.0	ug/L	6.0	1	04/22/14 11:45	04/22/14 15:01	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	04/16/14 18:00	04/17/14 15:47	7439-97-6	
625 MSSV Analytical Method: EPA 625 Preparation Method: EPA 625								
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	04/17/14 00:00	04/18/14 15:21	534-52-1	N2
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	04/17/14 00:00	04/18/14 15:21	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	04/17/14 00:00	04/18/14 15:21	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	04/17/14 00:00	04/18/14 15:21	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	2	04/17/14 00:00	04/18/14 15:21	95-48-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF COMBINED BTC 4/15

Pace Project No.: 60167120

Sample: COMBINED BATCH 04/15/14		Lab ID: 60167120001	Collected: 04/15/14 09:40	Received: 04/16/14 02:10	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)	6260 ug/L		4000	2	04/17/14 00:00	04/18/14 15:21		N2
Naphthalene	2100 ug/L		1000	2	04/17/14 00:00	04/18/14 15:21	91-20-3	
Nitrobenzene	ND ug/L		1000	2	04/17/14 00:00	04/18/14 15:21	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	04/17/14 00:00	04/18/14 15:21	87-86-5	
Phenol	8600 ug/L		1000	2	04/17/14 00:00	04/18/14 15:21	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	04/17/14 00:00	04/18/14 15:21	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	04/17/14 00:00	04/18/14 15:21	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	135 %		33-120	2	04/17/14 00:00	04/18/14 15:21	4165-60-0	S0
2-Fluorobiphenyl (S)	78 %		39-120	2	04/17/14 00:00	04/18/14 15:21	321-60-8	
Terphenyl-d14 (S)	78 %		45-120	2	04/17/14 00:00	04/18/14 15:21	1718-51-0	
Phenol-d6 (S)	34 %		11-120	2	04/17/14 00:00	04/18/14 15:21	13127-88-3	
2-Fluorophenol (S)	48 %		17-120	2	04/17/14 00:00	04/18/14 15:21	367-12-4	
2,4,6-Tribromophenol (S)	87 %		39-120	2	04/17/14 00:00	04/18/14 15:21	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	146000 ug/L		5000	500		04/18/14 14:19	67-64-1	L1,N2
Benzene	ND ug/L		500	500		04/18/14 14:19	71-43-2	
Bromodichloromethane	ND ug/L		500	500		04/18/14 14:19	75-27-4	
Bromoform	ND ug/L		500	500		04/18/14 14:19	75-25-2	
Bromomethane	ND ug/L		2500	500		04/18/14 14:19	74-83-9	
2-Butanone (MEK)	66900 ug/L		5000	500		04/18/14 14:19	78-93-3	L1,N2
Carbon tetrachloride	ND ug/L		500	500		04/18/14 14:19	56-23-5	
Chloroethane	ND ug/L		500	500		04/18/14 14:19	75-00-3	
Chloroform	ND ug/L		500	500		04/18/14 14:19	67-66-3	
1,4-Dichlorobenzene	1200 ug/L		500	500		04/18/14 14:19	106-46-7	
1,2-Dichloroethane	ND ug/L		500	500		04/18/14 14:19	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		500	500		04/18/14 14:19	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		500	500		04/18/14 14:19	156-60-5	
Ethylbenzene	ND ug/L		500	500		04/18/14 14:19	100-41-4	
Methylene chloride	ND ug/L		500	500		04/18/14 14:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5000	500		04/18/14 14:19	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		500	500		04/18/14 14:19	79-34-5	N2
Tetrachloroethene	ND ug/L		500	500		04/18/14 14:19	127-18-4	
Toluene	ND ug/L		500	500		04/18/14 14:19	108-88-3	
1,1,1-Trichloroethane	ND ug/L		500	500		04/18/14 14:19	71-55-6	
1,1,2-Trichloroethane	ND ug/L		500	500		04/18/14 14:19	79-00-5	
Trichloroethene	ND ug/L		500	500		04/18/14 14:19	79-01-6	
Vinyl chloride	ND ug/L		500	500		04/18/14 14:19	75-01-4	
Xylene (Total)	ND ug/L		1500	500		04/18/14 14:19	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101 %		80-120	500		04/18/14 14:19	460-00-4	
Toluene-d8 (S)	103 %		80-120	500		04/18/14 14:19	2037-26-5	
1,2-Dichloroethane-d4 (S)	98 %		80-120	500		04/18/14 14:19	17060-07-0	
Preservation pH	6.0		1.0	500		04/18/14 14:19		

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ANALYTICAL RESULTS

Project: BRIDGETON LF COMBINED BTC 4/15

Pace Project No.: 60167120

Sample: COMBINED BATCH 04/15/14		Lab ID: 60167120001	Collected: 04/15/14 09:40	Received: 04/16/14 02:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	1020	mg/L	5.0	1		04/17/14 15:12		
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	7.3	mg/L	5.0	1		04/18/14 13:45		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	2880	mg/L	5.0	1		04/16/14 12:20		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.5	Std. Units	0.10	1		04/18/14 09:45		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	23200	mg/L	2.0	1	04/16/14 16:18	04/21/14 13:36		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	482	mg/L	20.0	200		04/17/14 11:24	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	36600	mg/L	5000	500		04/23/14 11:26		

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ANALYTICAL RESULTS

Project: BRIDGETON LF COMBINED BTC 4/15

Pace Project No.: 60167120

Sample: TRIP BLANK		Lab ID: 60167120002	Collected: 04/15/14 09:40	Received: 04/16/14 02:10	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		04/17/14 16:16	67-64-1	L3,N2
Benzene	ND ug/L		1.0	1		04/17/14 16:16	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/17/14 16:16	75-27-4	
Bromoform	ND ug/L		1.0	1		04/17/14 16:16	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/17/14 16:16	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/17/14 16:16	78-93-3	L3,N2
Carbon tetrachloride	ND ug/L		1.0	1		04/17/14 16:16	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/17/14 16:16	75-00-3	
Chloroform	ND ug/L		1.0	1		04/17/14 16:16	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/17/14 16:16	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/17/14 16:16	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/17/14 16:16	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/17/14 16:16	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/17/14 16:16	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/17/14 16:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/17/14 16:16	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/17/14 16:16	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/17/14 16:16	127-18-4	
Toluene	ND ug/L		1.0	1		04/17/14 16:16	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/17/14 16:16	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/17/14 16:16	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/17/14 16:16	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/17/14 16:16	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/17/14 16:16	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	104 %		80-120	1		04/17/14 16:16	460-00-4	
Toluene-d8 (S)	98 %		80-120	1		04/17/14 16:16	2037-26-5	
1,2-Dichloroethane-d4 (S)	91 %		80-120	1		04/17/14 16:16	17060-07-0	
Preservation pH	6.0		1.0	1		04/17/14 16:16		

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QUALITY CONTROL DATA

Project: BRIDGETON LF COMBINED BTC 4/15

Pace Project No.: 60167120

QC Batch: MERP/8322

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60167120001

METHOD BLANK: 1364493

Matrix: Water

Associated Lab Samples: 60167120001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/22/14 14:45	

LABORATORY CONTROL SAMPLE: 1364494

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: 1364495 1364496

Parameter	Units	60167111001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	18.4	150	150	157	162	92	96	70-130	4	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF COMBINED BTC 4/15

Pace Project No.: 60167120

QC Batch: MERP/8307

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60167120001

METHOD BLANK: 1361868

Matrix: Water

Associated Lab Samples: 60167120001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/17/14 15:13	

LABORATORY CONTROL SAMPLE: 1361869

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.9	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1361870 1361871

Parameter	Units	60167111001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	71.7	77.1	48	51	70-130	7	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF COMBINED BTC 4/15

Pace Project No.: 60167120

QC Batch: MPRP/26892

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Associated Lab Samples: 60167120001

METHOD BLANK: 1362735

Matrix: Water

Associated Lab Samples: 60167120001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/21/14 17:50	
Antimony	ug/L	ND	10.0	04/21/14 17:50	
Arsenic	ug/L	ND	10.0	04/21/14 17:50	
Beryllium	ug/L	ND	1.0	04/21/14 17:50	
Cadmium	ug/L	ND	5.0	04/21/14 17:50	
Chromium	ug/L	ND	5.0	04/21/14 17:50	
Cobalt	ug/L	ND	5.0	04/21/14 17:50	
Copper	ug/L	ND	10.0	04/21/14 17:50	
Iron	ug/L	ND	50.0	04/21/14 17:50	
Lead	ug/L	ND	5.0	04/21/14 17:50	
Nickel	ug/L	ND	5.0	04/21/14 17:50	
Selenium	ug/L	ND	15.0	04/21/14 17:50	
Silver	ug/L	ND	7.0	04/21/14 17:50	
Thallium	ug/L	ND	20.0	04/21/14 17:50	
Zinc	ug/L	ND	50.0	04/21/14 17:50	

LABORATORY CONTROL SAMPLE: 1362736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9650	97	85-115	
Antimony	ug/L	1000	1020	102	85-115	
Arsenic	ug/L	1000	939	94	85-115	
Beryllium	ug/L	1000	997	100	85-115	
Cadmium	ug/L	1000	957	96	85-115	
Chromium	ug/L	1000	924	92	85-115	
Cobalt	ug/L	1000	993	99	85-115	
Copper	ug/L	1000	997	100	85-115	
Iron	ug/L	10000	10000	100	85-115	
Lead	ug/L	1000	989	99	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1020	102	85-115	
Silver	ug/L	500	480	96	85-115	
Thallium	ug/L	1000	993	99	85-115	
Zinc	ug/L	1000	940	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1364023 1364024

Parameter	Units	60167111001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	7500	50000	50000	60300	61600	106	108	70-130	2	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF COMBINED BTC 4/15

Pace Project No.: 60167120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1364023 1364024											
Parameter	Units	60167111001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max
		Result	Conc.	Spike	Spike						
				Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD
Antimony	ug/L	ND	5000	5000	5000	5370	5470	106	108	70-130	2
Arsenic	ug/L	1110	5000	5000	5000	6440	6650	107	111	70-130	3
Beryllium	ug/L	ND	5000	5000	5000	4720	4770	94	95	70-130	1
Cadmium	ug/L	ND	5000	5000	5000	5150	5200	103	104	70-130	1
Chromium	ug/L	213	5000	5000	5000	4710	4730	90	90	70-130	0
Cobalt	ug/L	43.7	5000	5000	5000	4710	4710	93	93	70-130	0
Copper	ug/L	ND	5000	5000	5000	5400	5480	107	109	70-130	2
Iron	ug/L	687000	50000	50000	50000	743000	822000	112	269	70-130	10
Lead	ug/L	93.2	5000	5000	5000	4470	4460	88	87	70-130	0
Nickel	ug/L	112	5000	5000	5000	4820	4860	94	95	70-130	1
Selenium	ug/L	84.9	5000	5000	5000	6220	6420	123	127	70-130	3
Silver	ug/L	ND	2500	2500	2500	2640	2680	105	107	70-130	2
Thallium	ug/L	ND	5000	5000	5000	4100	4070	82	81	70-130	1
Zinc	ug/L	5380	5000	5000	5000	9740	10400	87	101	70-130	7

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QUALITY CONTROL DATA

Project: BRIDGETON LF COMBINED BTC 4/15
Pace Project No.: 60167120

QC Batch: MPRP/26902 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60167120001

METHOD BLANK: 1363030 Matrix: Water
Associated Lab Samples: 60167120001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/18/14 15:24	
Antimony, Dissolved	ug/L	ND	10.0	04/18/14 15:24	
Arsenic, Dissolved	ug/L	ND	10.0	04/18/14 15:24	
Beryllium, Dissolved	ug/L	ND	1.0	04/18/14 15:24	
Cadmium, Dissolved	ug/L	ND	5.0	04/18/14 15:24	
Chromium, Dissolved	ug/L	ND	5.0	04/18/14 15:24	
Cobalt, Dissolved	ug/L	ND	5.0	04/18/14 15:24	
Copper, Dissolved	ug/L	ND	10.0	04/18/14 15:24	
Iron, Dissolved	ug/L	ND	50.0	04/18/14 15:24	
Lead, Dissolved	ug/L	ND	5.0	04/18/14 15:24	
Nickel, Dissolved	ug/L	ND	5.0	04/18/14 15:24	
Selenium, Dissolved	ug/L	ND	15.0	04/18/14 15:24	
Silver, Dissolved	ug/L	ND	7.0	04/18/14 15:24	
Thallium, Dissolved	ug/L	ND	20.0	04/18/14 15:24	
Zinc, Dissolved	ug/L	ND	50.0	04/18/14 15:24	

LABORATORY CONTROL SAMPLE: 1363031

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10600	106	85-115	
Antimony, Dissolved	ug/L	1000	1080	108	85-115	
Arsenic, Dissolved	ug/L	1000	1040	104	85-115	
Beryllium, Dissolved	ug/L	1000	1060	106	85-115	
Cadmium, Dissolved	ug/L	1000	1050	105	85-115	
Chromium, Dissolved	ug/L	1000	1050	105	85-115	
Cobalt, Dissolved	ug/L	1000	1070	107	85-115	
Copper, Dissolved	ug/L	1000	1070	107	85-115	
Iron, Dissolved	ug/L	10000	10700	107	85-115	
Lead, Dissolved	ug/L	1000	1080	108	85-115	
Nickel, Dissolved	ug/L	1000	1080	108	85-115	
Selenium, Dissolved	ug/L	1000	1070	107	85-115	
Silver, Dissolved	ug/L	500	520	104	85-115	
Thallium, Dissolved	ug/L	1000	1070	107	85-115	
Zinc, Dissolved	ug/L	1000	1060	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1363032 1363033

Parameter	Units	60167111001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	1310	50000	50000	50400	51400	98	100	70-130	2	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF COMBINED BTC 4/15

Pace Project No.: 60167120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1363032 1363033												
Parameter	Units	60167111001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Antimony, Dissolved	ug/L	ND	5000	5000	5120	5560	102	111	70-130	8	7	R1
Arsenic, Dissolved	ug/L	668	5000	5000	5820	6380	103	114	70-130	9	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	4710	5120	94	102	70-130	8	7	R1
Cadmium, Dissolved	ug/L	ND	5000	5000	4970	5340	99	107	70-130	7	10	
Chromium, Dissolved	ug/L	112	5000	5000	4920	5300	96	104	70-130	7	10	
Cobalt, Dissolved	ug/L	ND	5000	5000	4690	5010	94	100	70-130	7	6	R1
Copper, Dissolved	ug/L	ND	5000	5000	5160	5640	103	113	70-130	9	11	
Iron, Dissolved	ug/L	268000	50000	50000	343000	398000	150	261	70-130	15	10	M1, R1
Lead, Dissolved	ug/L	ND	5000	5000	4590	4930	91	98	70-130	7	10	
Nickel, Dissolved	ug/L	66.8	5000	5000	4770	5090	94	100	70-130	7	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5480	5950	110	119	70-130	8	10	
Silver, Dissolved	ug/L	ND	2500	2500	2560	2760	102	110	70-130	8	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4240	4460	84	89	70-130	5	6	
Zinc, Dissolved	ug/L	3690	5000	5000	8850	9450	103	115	70-130	7	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF COMBINED BTC 4/15

Pace Project No.: 60167120

QC Batch:	MSV/60905	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60167120002		

METHOD BLANK: 1362371 Matrix: Water

Associated Lab Samples: 60167120002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/17/14 15:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/17/14 15:14	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/17/14 15:14	
1,2-Dichloroethane	ug/L	ND	1.0	04/17/14 15:14	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/17/14 15:14	
2-Butanone (MEK)	ug/L	ND	10.0	04/17/14 15:14	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/17/14 15:14	N2
Acetone	ug/L	ND	10.0	04/17/14 15:14	N2
Benzene	ug/L	ND	1.0	04/17/14 15:14	
Bromodichloromethane	ug/L	ND	1.0	04/17/14 15:14	
Bromoform	ug/L	ND	1.0	04/17/14 15:14	
Bromomethane	ug/L	ND	5.0	04/17/14 15:14	
Carbon tetrachloride	ug/L	ND	1.0	04/17/14 15:14	
Chloroethane	ug/L	ND	1.0	04/17/14 15:14	
Chloroform	ug/L	ND	1.0	04/17/14 15:14	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/17/14 15:14	N2
Ethylbenzene	ug/L	ND	1.0	04/17/14 15:14	
Methylene chloride	ug/L	1.1	1.0	04/17/14 15:14	
Tetrachloroethene	ug/L	ND	1.0	04/17/14 15:14	
Toluene	ug/L	ND	1.0	04/17/14 15:14	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/17/14 15:14	
Trichloroethene	ug/L	ND	1.0	04/17/14 15:14	
Vinyl chloride	ug/L	ND	1.0	04/17/14 15:14	
Xylene (Total)	ug/L	ND	3.0	04/17/14 15:14	N2
1,2-Dichloroethane-d4 (S)	%	99	80-120	04/17/14 15:14	
4-Bromofluorobenzene (S)	%	102	80-120	04/17/14 15:14	
Toluene-d8 (S)	%	101	80-120	04/17/14 15:14	

LABORATORY CONTROL SAMPLE: 1362372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.1	96	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	96	67-127	N2
1,1,2-Trichloroethane	ug/L	20	20.5	103	67-124	
1,2-Dichloroethane	ug/L	20	19.3	96	70-126	
1,4-Dichlorobenzene	ug/L	20	19.6	98	74-120	
2-Butanone (MEK)	ug/L	100	157	157	42-153	L0,N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	105	105	59-131	N2
Acetone	ug/L	100	200	200	38-134	L0,N2
Benzene	ug/L	20	18.9	95	75-120	
Bromodichloromethane	ug/L	20	19.5	98	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF COMBINED BTC 4/15

Pace Project No.: 60167120

LABORATORY CONTROL SAMPLE: 1362372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.0	100	65-127	
Bromomethane	ug/L	20	23.3	116	13-157	
Carbon tetrachloride	ug/L	20	20.7	103	70-131	
Chloroethane	ug/L	20	21.8	109	47-133	
Chloroform	ug/L	20	18.2	91	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.3	102	68-127	N2
Ethylbenzene	ug/L	20	20.7	104	74-122	
Methylene chloride	ug/L	20	18.5	93	64-129	
Tetrachloroethene	ug/L	20	20.9	104	73-125	
Toluene	ug/L	20	19.3	97	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.0	100	66-129	
Trichloroethene	ug/L	20	19.7	98	71-123	
Vinyl chloride	ug/L	20	24.9	125	43-129	
Xylene (Total)	ug/L	60	63.6	106	75-121	N2
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF COMBINED BTC 4/15

Pace Project No.: 60167120

QC Batch:	MSV/60926	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60167120001		

METHOD BLANK: 1363074 Matrix: Water

Associated Lab Samples: 60167120001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/18/14 12:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/18/14 12:29	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/18/14 12:29	
1,2-Dichloroethane	ug/L	ND	1.0	04/18/14 12:29	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/18/14 12:29	
2-Butanone (MEK)	ug/L	ND	10.0	04/18/14 12:29	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/18/14 12:29	N2
Acetone	ug/L	ND	10.0	04/18/14 12:29	N2
Benzene	ug/L	ND	1.0	04/18/14 12:29	
Bromodichloromethane	ug/L	ND	1.0	04/18/14 12:29	
Bromoform	ug/L	ND	1.0	04/18/14 12:29	
Bromomethane	ug/L	ND	5.0	04/18/14 12:29	
Carbon tetrachloride	ug/L	ND	1.0	04/18/14 12:29	
Chloroethane	ug/L	ND	1.0	04/18/14 12:29	
Chloroform	ug/L	ND	1.0	04/18/14 12:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/18/14 12:29	N2
Ethylbenzene	ug/L	ND	1.0	04/18/14 12:29	
Methylene chloride	ug/L	ND	1.0	04/18/14 12:29	
Tetrachloroethene	ug/L	ND	1.0	04/18/14 12:29	
Toluene	ug/L	ND	1.0	04/18/14 12:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/18/14 12:29	
Trichloroethene	ug/L	ND	1.0	04/18/14 12:29	
Vinyl chloride	ug/L	ND	1.0	04/18/14 12:29	
Xylene (Total)	ug/L	ND	3.0	04/18/14 12:29	N2
1,2-Dichloroethane-d4 (S)	%	98	80-120	04/18/14 12:29	
4-Bromofluorobenzene (S)	%	103	80-120	04/18/14 12:29	
Toluene-d8 (S)	%	99	80-120	04/18/14 12:29	

LABORATORY CONTROL SAMPLE: 1363075

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.3	97	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.0	100	67-127	N2
1,1,2-Trichloroethane	ug/L	20	20.3	101	67-124	
1,2-Dichloroethane	ug/L	20	20.4	102	70-126	
1,4-Dichlorobenzene	ug/L	20	19.6	98	74-120	
2-Butanone (MEK)	ug/L	100	171	171	42-153	L0,N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	108	108	59-131	N2
Acetone	ug/L	100	214	214	38-134	L0,N2
Benzene	ug/L	20	19.3	97	75-120	
Bromodichloromethane	ug/L	20	20.6	103	68-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF COMBINED BTC 4/15

Pace Project No.: 60167120

LABORATORY CONTROL SAMPLE: 1363075

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.2	101	65-127	
Bromomethane	ug/L	20	23.9	120	13-157	
Carbon tetrachloride	ug/L	20	21.2	106	70-131	
Chloroethane	ug/L	20	20.4	102	47-133	
Chloroform	ug/L	20	18.8	94	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.7	104	68-127	N2
Ethylbenzene	ug/L	20	20.7	104	74-122	
Methylene chloride	ug/L	20	18.8	94	64-129	
Tetrachloroethene	ug/L	20	19.8	99	73-125	
Toluene	ug/L	20	20.2	101	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.5	102	66-129	
Trichloroethene	ug/L	20	20.0	100	71-123	
Vinyl chloride	ug/L	20	24.6	123	43-129	
Xylene (Total)	ug/L	60	61.6	103	75-121	N2
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			96	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1363076

Parameter	Units	60167111001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	5920	118	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	5290	106	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	5370	107	52-143	
1,2-Dichloroethane	ug/L	ND	5000	5740	115	49-144	
1,4-Dichlorobenzene	ug/L	ND	5000	5220	102	33-140	
2-Butanone (MEK)	ug/L	58200	25000	89300	124	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	30700	121	40-160	N2
Acetone	ug/L	142000	25000	168000	101	10-160	N2
Benzene	ug/L	ND	5000	5430	109	37-151	
Bromodichloromethane	ug/L	ND	5000	5650	113	35-142	
Bromoform	ug/L	ND	5000	5550	111	45-142	
Bromomethane	ug/L	ND	5000	6070	121	10-158	
Carbon tetrachloride	ug/L	ND	5000	6620	132	70-140	
Chloroethane	ug/L	ND	5000	6110	122	19-152	
Chloroform	ug/L	ND	5000	5370	107	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	5860	117	34-147	N2
Ethylbenzene	ug/L	ND	5000	5480	110	40-142	
Methylene chloride	ug/L	ND	5000	5220	102	31-144	
Tetrachloroethene	ug/L	ND	5000	5700	114	64-148	
Toluene	ug/L	ND	5000	5690	114	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	5920	118	54-151	
Trichloroethene	ug/L	ND	5000	5700	114	71-149	
Vinyl chloride	ug/L	ND	5000	7310	146	22-146	
Xylene (Total)	ug/L	ND	15000	16700	111	37-144	N2
1,2-Dichloroethane-d4 (S)	%				103	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF COMBINED BTC 4/15

Pace Project No.: 60167120

MATRIX SPIKE SAMPLE:		1363076					
Parameter	Units	60167111001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				102	80-120	
Preservation pH		6.0		6.0			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF COMBINED BTC 4/15

Pace Project No.: 60167120

QC Batch: OEXT/43712

Analysis Method: EPA 625

QC Batch Method: EPA 625

Analysis Description: 625 MSS

Associated Lab Samples: 60167120001

METHOD BLANK: 1361925

Matrix: Water

Associated Lab Samples: 60167120001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/18/14 13:58	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/18/14 13:58	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/18/14 13:58	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/18/14 13:58	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/18/14 13:58	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/18/14 13:58	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/18/14 13:58	
Hexachloroethane	ug/L	ND	5.0	04/18/14 13:58	
Naphthalene	ug/L	ND	5.0	04/18/14 13:58	
Nitrobenzene	ug/L	ND	5.0	04/18/14 13:58	
Pentachlorophenol	ug/L	ND	5.0	04/18/14 13:58	
Phenol	ug/L	ND	5.0	04/18/14 13:58	
2,4,6-Tribromophenol (S)	%	91	39-120	04/18/14 13:58	
2-Fluorobiphenyl (S)	%	91	39-120	04/18/14 13:58	
2-Fluorophenol (S)	%	50	17-120	04/18/14 13:58	
Nitrobenzene-d5 (S)	%	92	33-120	04/18/14 13:58	
Phenol-d6 (S)	%	33	11-120	04/18/14 13:58	
Terphenyl-d14 (S)	%	94	45-120	04/18/14 13:58	

LABORATORY CONTROL SAMPLE: 1361926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	37.9	76	46-120	
2,4,6-Trichlorophenol	ug/L	50	42.4	85	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	33.6	67	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	30.4	61	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	45.5	91	40-133	
Hexachloro-1,3-butadiene	ug/L	50	39.7	79	44-116	
Hexachlorocyclopentadiene	ug/L	100	49.4	49	24-120	
Hexachloroethane	ug/L	50	37.6	75	43-113	
Naphthalene	ug/L	50	41.0	82	48-120	
Nitrobenzene	ug/L	50	40.8	82	48-120	
Pentachlorophenol	ug/L	50	46.5	93	47-120	
Phenol	ug/L	50	17.3	35	16-112	
2,4,6-Tribromophenol (S)	%			87	39-120	
2-Fluorobiphenyl (S)	%			82	39-120	
2-Fluorophenol (S)	%			45	17-120	
Nitrobenzene-d5 (S)	%			82	33-120	
Phenol-d6 (S)	%			30	11-120	
Terphenyl-d14 (S)	%			89	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF COMBINED BTC 4/15

Pace Project No.: 60167120

MATRIX SPIKE SAMPLE:		1361927					
Parameter	Units	60167111001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	3690	74	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4400	88	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	4090	82	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	7570	5000	12100	90	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	4380J	88	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	3880	78	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	6310	63	11-120	
Hexachloroethane	ug/L	ND	5000	4020	80	40-113	
Naphthalene	ug/L	1160	5000	5000	77	45-120	
Nitrobenzene	ug/L	ND	5000	3920	78	38-120	
Pentachlorophenol	ug/L	ND	5000	5230	105	43-135	
Phenol	ug/L	10700	5000	14300	72	13-112	
2,4,6-Tribromophenol (S)	%				91	39-120	
2-Fluorobiphenyl (S)	%				80	39-120	
2-Fluorophenol (S)	%				48	17-120	
Nitrobenzene-d5 (S)	%				153	33-120	SO
Phenol-d6 (S)	%				49	11-120	
Terphenyl-d14 (S)	%				82	45-120	

MATRIX SPIKE SAMPLE:		1361928					
Parameter	Units	60167024001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	51.2	102	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	52.4	105	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	50	43.2	86	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	36.9	74	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	50	59.8	120	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	51.9	104	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	69.5	69	11-120	
Hexachloroethane	ug/L	ND	50	48.8	98	40-113	
Naphthalene	ug/L	ND	50	51.5	103	45-120	
Nitrobenzene	ug/L	ND	50	50.5	101	38-120	
Pentachlorophenol	ug/L	ND	50	65.2	130	43-135	
Phenol	ug/L	ND	50	20.5	41	13-112	
2,4,6-Tribromophenol (S)	%				120	39-120	
2-Fluorobiphenyl (S)	%				107	39-120	
2-Fluorophenol (S)	%				58	17-120	
Nitrobenzene-d5 (S)	%				102	33-120	
Phenol-d6 (S)	%				36	11-120	
Terphenyl-d14 (S)	%				110	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF COMBINED BTC 4/15

Pace Project No.: 60167120

QC Batch: WET/47373

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60167120001

METHOD BLANK: 1362498

Matrix: Water

Associated Lab Samples: 60167120001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/17/14 15:10	

LABORATORY CONTROL SAMPLE: 1362499

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.0	98	78-114	

MATRIX SPIKE SAMPLE: 1362500

Parameter	Units	60166722004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40.8	36.6	86	78-114	

SAMPLE DUPLICATE: 1362501

Parameter	Units	60167111001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	938	958	2	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF COMBINED BTC 4/15

Pace Project No.: 60167120

QC Batch: WET/47401

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60167120001

METHOD BLANK: 1363273

Matrix: Water

Associated Lab Samples: 60167120001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	04/18/14 13:42	

LABORATORY CONTROL SAMPLE: 1363274

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: 1363276

Parameter	Units	60166890001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20	12.1	53	64-132	M1

SAMPLE DUPLICATE: 1363275

Parameter	Units	60167111001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	7.4	6.5	12	34	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF COMBINED BTC 4/15

Pace Project No.: 60167120

QC Batch: WET/47344

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60167120001

METHOD BLANK: 1361565

Matrix: Water

Associated Lab Samples: 60167120001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/16/14 12:20	

SAMPLE DUPLICATE: 1361566

Parameter	Units	60167111001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	4140	4140	0	10	

SAMPLE DUPLICATE: 1361567

Parameter	Units	60167097002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	30.0	32.0	6	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF COMBINED BTC 4/15

Pace Project No.: 60167120

QC Batch: WET/47394 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60167120001

SAMPLE DUPLICATE: 1363024

Parameter	Units	60167111001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.3	5.3	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF COMBINED BTC 4/15

Pace Project No.: 60167120

QC Batch: WET/47353

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60167120001

METHOD BLANK: 1361718

Matrix: Water

Associated Lab Samples: 60167120001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/21/14 13:22	

LABORATORY CONTROL SAMPLE: 1361719

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	186	94	85-115	

SAMPLE DUPLICATE: 1361720

Parameter	Units	60167045005 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	74.6	72.2	3	17	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF COMBINED BTC 4/15

Pace Project No.: 60167120

QC Batch: WETA/29052

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60167120001

METHOD BLANK: 1362108

Matrix: Water

Associated Lab Samples: 60167120001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/17/14 10:58	

LABORATORY CONTROL SAMPLE: 1362109

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1362110

Parameter	Units	60167022002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.9	93	90-110	

MATRIX SPIKE SAMPLE: 1362111

Parameter	Units	60167045006 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.8	90	90-110	

SAMPLE DUPLICATE: 1362112

Parameter	Units	60167111001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	576	608	5	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF COMBINED BTC 4/15

Pace Project No.: 60167120

QC Batch:	WETA/29108	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60167120001		

METHOD BLANK: 1365146 Matrix: Water

Associated Lab Samples: 60167120001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	04/23/14 11:13	

LABORATORY CONTROL SAMPLE: 1365147

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: 1365149

Parameter	Units	60167111001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	38800	25000	67700	116	90-110	M1

SAMPLE DUPLICATE: 1365148

Parameter	Units	60166577002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	7.0J	ND		25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF COMBINED BTC 4/15

Pace Project No.: 60167120

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/60905

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

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

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.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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

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 COMBINED BTC 4/15

Pace Project No.: 60167120

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60167120001	COMBINED BATCH 04/15/14	EPA 200.7	MPRP/26892	EPA 200.7	ICP/20430
60167120001	COMBINED BATCH 04/15/14	EPA 200.7	MPRP/26902	EPA 200.7	ICP/20422
60167120001	COMBINED BATCH 04/15/14	EPA 245.1	MERP/8322	EPA 245.1	MERC/8275
60167120001	COMBINED BATCH 04/15/14	EPA 245.1	MERP/8307	EPA 245.1	MERC/8260
60167120001	COMBINED BATCH 04/15/14	EPA 625	OEXT/43712	EPA 625	MSSV/13954
60167120001	COMBINED BATCH 04/15/14	EPA 624 Low	MSV/60926		
60167120002	TRIP BLANK	EPA 624 Low	MSV/60905		
60167120001	COMBINED BATCH 04/15/14	EPA 1664A	WET/47373		
60167120001	COMBINED BATCH 04/15/14	EPA 1664A	WET/47401		
60167120001	COMBINED BATCH 04/15/14	SM 2540D	WET/47344		
60167120001	COMBINED BATCH 04/15/14	SM 4500-H+B	WET/47394		
60167120001	COMBINED BATCH 04/15/14	SM 5210B	WET/47353	SM 5210B	WET/47425
60167120001	COMBINED BATCH 04/15/14	EPA 350.1	WETA/29052		
60167120001	COMBINED BATCH 04/15/14	EPA 410.4	WETA/29108		

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Sample Condition Upon Receipt

WO#: 60167120



60167120

Client Name: Barr Eng.

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

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

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

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

Thermometer Used: T-239 / T-194

Type of Ice: ☒ Ice Blue ☐ None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 3.0

Date and initials of person examining contents: 4/16/14 BA

Temperature should be above freezing to 6°C

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☒ Yes ☐ No ☐ N/A	6. <u>BOD pH</u>
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	
Pace containers used:	☒ Yes ☐ No ☐ N/A	9.
Containers intact:	☒ Yes ☐ No ☐ N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	11.
Filtered volume received for dissolved tests?	☐ Yes ☐ No ☒ N/A	12.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	
Includes date/time/ID/analyses	Matrix: <u>WT</u>	13.
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	<u>HNO3 initial pH 6.0 final 3.0 added 2.5 ml</u>
All containers needing preservation are found to be in compliance with EPA recommendation	☐ Yes ☒ No ☐ N/A	<u>H2SO4 initial pH 6.0 final 1.5 added 2.0 ml</u>
Exceptions: <u>VOA</u> , coliform, TOC, <u>O&G</u> , WI-DRO (water), Phenolics	☒ Yes ☐ No	Initial when completed <u>BA</u>
Trip Blank present:	☒ Yes ☐ No ☐ N/A	Lot # of added preservative <u>HNO3 12513</u>
Pace Trip Blank lot # (if purchased): <u>covered</u>		<u>H2SO4 12522</u>
Headspace in VOA vials (>6mm):	☐ Yes ☒ No ☐ N/A	
		16.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ 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: 4/16/14

April 24, 2014

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

RE: Project: BRIDGETON LF 316-271
Pace Project No.: 60167211

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 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.
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-271

Pace Project No.: 60167211

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 316-271

Pace Project No.: 60167211

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60167211001	316-271	Water	04/16/14 13:07	04/17/14 00:55
60167211002	TRIP BLANK	Water	04/16/14 00:00	04/17/14 00:55

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-271

Pace Project No.: 60167211

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60167211001	316-271	EPA 200.7	JGP	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	DJR	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
		EPA 624 Low	EAK	28
60167211002	TRIP BLANK			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-271

Pace Project No.: 60167211

Sample: 316-271		Lab ID: 60167211001	Collected: 04/16/14 13:07	Received: 04/17/14 00:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	5630	ug/L	750	2	04/18/14 16:30	04/21/14 18:34	7429-90-5	D3
Antimony	ND	ug/L	100	2	04/18/14 16:30	04/21/14 18:34	7440-36-0	
Arsenic	855	ug/L	50.0	1	04/18/14 16:30	04/21/14 18:30	7440-38-2	
Beryllium	ND	ug/L	5.0	1	04/18/14 16:30	04/21/14 18:30	7440-41-7	
Cadmium	ND	ug/L	25.0	1	04/18/14 16:30	04/21/14 18:30	7440-43-9	
Chromium	174	ug/L	25.0	1	04/18/14 16:30	04/21/14 18:30	7440-47-3	
Cobalt	32.9	ug/L	25.0	1	04/18/14 16:30	04/21/14 18:30	7440-48-4	
Copper	ND	ug/L	50.0	1	04/18/14 16:30	04/21/14 18:30	7440-50-8	
Iron	582000	ug/L	250	1	04/18/14 16:30	04/21/14 18:30	7439-89-6	
Lead	85.6	ug/L	25.0	1	04/18/14 16:30	04/21/14 18:30	7439-92-1	
Nickel	87.0	ug/L	25.0	1	04/18/14 16:30	04/21/14 18:30	7440-02-0	
Selenium	77.6	ug/L	75.0	1	04/18/14 16:30	04/21/14 18:30	7782-49-2	
Silver	ND	ug/L	35.0	1	04/18/14 16:30	04/21/14 18:30	7440-22-4	
Thallium	ND	ug/L	100	1	04/18/14 16:30	04/21/14 18:30	7440-28-0	
Zinc	4370	ug/L	500	2	04/18/14 16:30	04/21/14 18:34	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	376	ug/L	150	2	04/21/14 17:15	04/22/14 14:22	7429-90-5	D9
Antimony, Dissolved	10.8	ug/L	10.0	1	04/21/14 17:15	04/22/14 14:19	7440-36-0	
Arsenic, Dissolved	209	ug/L	10.0	1	04/21/14 17:15	04/22/14 14:19	7440-38-2	
Beryllium, Dissolved	ND	ug/L	1.0	1	04/21/14 17:15	04/22/14 14:19	7440-41-7	
Cadmium, Dissolved	ND	ug/L	5.0	1	04/21/14 17:15	04/22/14 14:19	7440-43-9	
Chromium, Dissolved	34.3	ug/L	5.0	1	04/21/14 17:15	04/22/14 14:19	7440-47-3	
Cobalt, Dissolved	5.6	ug/L	5.0	1	04/21/14 17:15	04/22/14 14:19	7440-48-4	
Copper, Dissolved	ND	ug/L	10.0	1	04/21/14 17:15	04/22/14 14:19	7440-50-8	
Iron, Dissolved	82400	ug/L	50.0	1	04/21/14 17:15	04/22/14 14:19	7439-89-6	
Lead, Dissolved	5.4	ug/L	5.0	1	04/21/14 17:15	04/22/14 14:19	7439-92-1	
Nickel, Dissolved	17.6	ug/L	5.0	1	04/21/14 17:15	04/22/14 14:19	7440-02-0	
Selenium, Dissolved	ND	ug/L	15.0	1	04/21/14 17:15	04/22/14 14:19	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1	04/21/14 17:15	04/22/14 14:19	7440-22-4	
Thallium, Dissolved	ND	ug/L	20.0	1	04/21/14 17:15	04/22/14 14:19	7440-28-0	
Zinc, Dissolved	1160	ug/L	100	2	04/21/14 17:15	04/22/14 14:22	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	42.3	ug/L	6.0	1	04/22/14 11:45	04/22/14 15:03	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	04/23/14 15:15	04/23/14 18:51	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND	ug/L	50.0	2	04/23/14 00:00	04/24/14 13:09	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	2	04/23/14 00:00	04/24/14 13:09	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	10.0	2	04/23/14 00:00	04/24/14 13:09	77-47-4	
Hexachloroethane	ND	ug/L	10.0	2	04/23/14 00:00	04/24/14 13:09	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	20.0	2	04/23/14 00:00	04/24/14 13:09	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	89.3	ug/L	40.0	2	04/23/14 00:00	04/24/14 13:09		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-271

Pace Project No.: 60167211

Sample: 316-271		Lab ID: 60167211001	Collected: 04/16/14 13:07	Received: 04/17/14 00:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	14.8 ug/L		10.0	2	04/23/14 00:00	04/24/14 13:09	91-20-3	
Nitrobenzene	ND ug/L		10.0	2	04/23/14 00:00	04/24/14 13:09	98-95-3	
Pentachlorophenol	ND ug/L		10.0	2	04/23/14 00:00	04/24/14 13:09	87-86-5	
Phenol	134 ug/L		10.0	2	04/23/14 00:00	04/24/14 13:09	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		10.0	2	04/23/14 00:00	04/24/14 13:09	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		10.0	2	04/23/14 00:00	04/24/14 13:09	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	166 %		33-120	2	04/23/14 00:00	04/24/14 13:09	4165-60-0	S0
2-Fluorobiphenyl (S)	96 %		39-120	2	04/23/14 00:00	04/24/14 13:09	321-60-8	
Terphenyl-d14 (S)	95 %		45-120	2	04/23/14 00:00	04/24/14 13:09	1718-51-0	
Phenol-d6 (S)	41 %		11-120	2	04/23/14 00:00	04/24/14 13:09	13127-88-3	
2-Fluorophenol (S)	54 %		17-120	2	04/23/14 00:00	04/24/14 13:09	367-12-4	
2,4,6-Tribromophenol (S)	117 %		39-120	2	04/23/14 00:00	04/24/14 13:09	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	211000 ug/L		5000	500		04/18/14 14:35	67-64-1	L1,N2
Benzene	ND ug/L		500	500		04/18/14 14:35	71-43-2	
Bromodichloromethane	ND ug/L		500	500		04/18/14 14:35	75-27-4	
Bromoform	ND ug/L		500	500		04/18/14 14:35	75-25-2	
Bromomethane	ND ug/L		2500	500		04/18/14 14:35	74-83-9	
2-Butanone (MEK)	90700 ug/L		5000	500		04/18/14 14:35	78-93-3	L1,N2
Carbon tetrachloride	ND ug/L		500	500		04/18/14 14:35	56-23-5	
Chloroethane	ND ug/L		500	500		04/18/14 14:35	75-00-3	
Chloroform	ND ug/L		500	500		04/18/14 14:35	67-66-3	
1,4-Dichlorobenzene	ND ug/L		500	500		04/18/14 14:35	106-46-7	
1,2-Dichloroethane	ND ug/L		500	500		04/18/14 14:35	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		500	500		04/18/14 14:35	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		500	500		04/18/14 14:35	156-60-5	
Ethylbenzene	ND ug/L		500	500		04/18/14 14:35	100-41-4	
Methylene chloride	ND ug/L		500	500		04/18/14 14:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5000	500		04/18/14 14:35	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		500	500		04/18/14 14:35	79-34-5	N2
Tetrachloroethene	ND ug/L		500	500		04/18/14 14:35	127-18-4	
Toluene	ND ug/L		500	500		04/18/14 14:35	108-88-3	
1,1,1-Trichloroethane	ND ug/L		500	500		04/18/14 14:35	71-55-6	
1,1,2-Trichloroethane	ND ug/L		500	500		04/18/14 14:35	79-00-5	
Trichloroethene	ND ug/L		500	500		04/18/14 14:35	79-01-6	
Vinyl chloride	ND ug/L		500	500		04/18/14 14:35	75-01-4	
Xylene (Total)	ND ug/L		1500	500		04/18/14 14:35	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	99 %		80-120	500		04/18/14 14:35	460-00-4	S2
Toluene-d8 (S)	107 %		80-120	500		04/18/14 14:35	2037-26-5	
1,2-Dichloroethane-d4 (S)	123 %		80-120	500		04/18/14 14:35	17060-07-0	S0
Preservation pH	6.0		1.0	500		04/18/14 14:35		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1150 mg/L		5.0	1		04/18/14 13:13		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-271

Pace Project No.: 60167211

Sample: 316-271		Lab ID: 60167211001	Collected: 04/16/14 13:07	Received: 04/17/14 00:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	7.6	mg/L	5.0	1		04/24/14 07:52		M1
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	3880	mg/L	5.0	1		04/17/14 11:03		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.3	Std. Units	0.10	1		04/19/14 09:30		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	28200	mg/L	2.0	1	04/17/14 15:11	04/22/14 14:52		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	589	mg/L	20.0	200		04/18/14 09:14	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	62600	mg/L	5000	500		04/24/14 11:06		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-271

Pace Project No.: 60167211

Sample: TRIP BLANK		Lab ID: 60167211002	Collected: 04/16/14 00:00	Received: 04/17/14 00:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		04/17/14 16:32	67-64-1	L3,N2
Benzene	ND ug/L		1.0	1		04/17/14 16:32	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/17/14 16:32	75-27-4	
Bromoform	ND ug/L		1.0	1		04/17/14 16:32	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/17/14 16:32	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/17/14 16:32	78-93-3	L3,N2
Carbon tetrachloride	ND ug/L		1.0	1		04/17/14 16:32	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/17/14 16:32	75-00-3	
Chloroform	ND ug/L		1.0	1		04/17/14 16:32	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/17/14 16:32	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/17/14 16:32	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/17/14 16:32	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/17/14 16:32	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/17/14 16:32	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/18/14 12:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/17/14 16:32	108-10-1	N2
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		04/17/14 16:32	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/17/14 16:32	127-18-4	
Toluene	ND ug/L		1.0	1		04/17/14 16:32	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/17/14 16:32	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/17/14 16:32	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/17/14 16:32	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/17/14 16:32	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/17/14 16:32	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101 %		80-120	1		04/17/14 16:32	460-00-4	
Toluene-d8 (S)	96 %		80-120	1		04/17/14 16:32	2037-26-5	
1,2-Dichloroethane-d4 (S)	95 %		80-120	1		04/17/14 16:32	17060-07-0	
Preservation pH	6.0		1.0	1		04/17/14 16:32		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-271

Pace Project No.: 60167211

QC Batch: MERP/8322

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60167211001

METHOD BLANK: 1364493

Matrix: Water

Associated Lab Samples: 60167211001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/22/14 14:45	

LABORATORY CONTROL SAMPLE: 1364494

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: 1364495 1364496

Parameter	Units	60167111001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	18.4	150	150	157	162	92	96	70-130	4	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-271

Pace Project No.: 60167211

QC Batch: MERP/8327

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60167211001

METHOD BLANK: 1365590

Matrix: Water

Associated Lab Samples: 60167211001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/23/14 18:47	

LABORATORY CONTROL SAMPLE: 1365591

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: 1365592 1365593

Parameter	Units	60167211001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	130	109	86	72	70-130	17	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-271
Pace Project No.: 60167211

QC Batch:	MPRP/26892	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
Associated Lab Samples:	60167211001		

METHOD BLANK: 1362735 Matrix: Water
Associated Lab Samples: 60167211001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/21/14 17:50	
Antimony	ug/L	ND	10.0	04/21/14 17:50	
Arsenic	ug/L	ND	10.0	04/21/14 17:50	
Beryllium	ug/L	ND	1.0	04/21/14 17:50	
Cadmium	ug/L	ND	5.0	04/21/14 17:50	
Chromium	ug/L	ND	5.0	04/21/14 17:50	
Cobalt	ug/L	ND	5.0	04/21/14 17:50	
Copper	ug/L	ND	10.0	04/21/14 17:50	
Iron	ug/L	ND	50.0	04/21/14 17:50	
Lead	ug/L	ND	5.0	04/21/14 17:50	
Nickel	ug/L	ND	5.0	04/21/14 17:50	
Selenium	ug/L	ND	15.0	04/21/14 17:50	
Silver	ug/L	ND	7.0	04/21/14 17:50	
Thallium	ug/L	ND	20.0	04/21/14 17:50	
Zinc	ug/L	ND	50.0	04/21/14 17:50	

LABORATORY CONTROL SAMPLE: 1362736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9650	97	85-115	
Antimony	ug/L	1000	1020	102	85-115	
Arsenic	ug/L	1000	939	94	85-115	
Beryllium	ug/L	1000	997	100	85-115	
Cadmium	ug/L	1000	957	96	85-115	
Chromium	ug/L	1000	924	92	85-115	
Cobalt	ug/L	1000	993	99	85-115	
Copper	ug/L	1000	997	100	85-115	
Iron	ug/L	10000	10000	100	85-115	
Lead	ug/L	1000	989	99	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1020	102	85-115	
Silver	ug/L	500	480	96	85-115	
Thallium	ug/L	1000	993	99	85-115	
Zinc	ug/L	1000	940	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1364023 1364024

Parameter	Units	60167111001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	7500	50000	50000	60300	61600	106	108	70-130	2	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-271

Pace Project No.: 60167211

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1364023 1364024											
Parameter	Units	60167111001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Antimony	ug/L	ND	5000	5000	5370	5470	106	108	70-130	2	7
Arsenic	ug/L	1110	5000	5000	6440	6650	107	111	70-130	3	10
Beryllium	ug/L	ND	5000	5000	4720	4770	94	95	70-130	1	7
Cadmium	ug/L	ND	5000	5000	5150	5200	103	104	70-130	1	10
Chromium	ug/L	213	5000	5000	4710	4730	90	90	70-130	0	10
Cobalt	ug/L	43.7	5000	5000	4710	4710	93	93	70-130	0	6
Copper	ug/L	ND	5000	5000	5400	5480	107	109	70-130	2	11
Iron	ug/L	687000	50000	50000	743000	822000	112	269	70-130	10	10 M1
Lead	ug/L	93.2	5000	5000	4470	4460	88	87	70-130	0	10
Nickel	ug/L	112	5000	5000	4820	4860	94	95	70-130	1	10
Selenium	ug/L	84.9	5000	5000	6220	6420	123	127	70-130	3	10
Silver	ug/L	ND	2500	2500	2640	2680	105	107	70-130	2	10
Thallium	ug/L	ND	5000	5000	4100	4070	82	81	70-130	1	6
Zinc	ug/L	5380	5000	5000	9740	10400	87	101	70-130	7	11

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-271
Pace Project No.: 60167211

QC Batch: MPRP/26927 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60167211001

METHOD BLANK: 1364293 Matrix: Water
Associated Lab Samples: 60167211001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/22/14 14:44	
Antimony, Dissolved	ug/L	ND	10.0	04/22/14 14:44	
Arsenic, Dissolved	ug/L	ND	10.0	04/22/14 14:44	
Beryllium, Dissolved	ug/L	ND	1.0	04/22/14 14:44	
Cadmium, Dissolved	ug/L	ND	5.0	04/22/14 14:44	
Chromium, Dissolved	ug/L	ND	5.0	04/22/14 14:44	
Cobalt, Dissolved	ug/L	ND	5.0	04/22/14 14:44	
Copper, Dissolved	ug/L	ND	10.0	04/22/14 14:44	
Iron, Dissolved	ug/L	126	50.0	04/22/14 14:44	
Lead, Dissolved	ug/L	ND	5.0	04/22/14 14:44	
Nickel, Dissolved	ug/L	ND	5.0	04/22/14 14:44	
Selenium, Dissolved	ug/L	ND	15.0	04/22/14 14:44	
Silver, Dissolved	ug/L	ND	7.0	04/22/14 14:44	
Thallium, Dissolved	ug/L	ND	20.0	04/22/14 14:44	
Zinc, Dissolved	ug/L	ND	50.0	04/22/14 14:44	

LABORATORY CONTROL SAMPLE: 1364294

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	989	99	85-115	
Beryllium, Dissolved	ug/L	1000	1000	100	85-115	
Cadmium, Dissolved	ug/L	1000	1010	101	85-115	
Chromium, Dissolved	ug/L	1000	972	97	85-115	
Cobalt, Dissolved	ug/L	1000	1020	102	85-115	
Copper, Dissolved	ug/L	1000	988	99	85-115	
Iron, Dissolved	ug/L	10000	9800	98	85-115	
Lead, Dissolved	ug/L	1000	1030	103	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1010	101	85-115	
Silver, Dissolved	ug/L	500	483	97	85-115	
Thallium, Dissolved	ug/L	1000	1040	104	85-115	
Zinc, Dissolved	ug/L	1000	1000	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1364295 1364296

Parameter	Units	60167211001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	376	10000	10000	10600	10700	102	103	70-130	1	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-271

Pace Project No.: 60167211

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1364295 1364296												
Parameter	Units	60167211001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Antimony, Dissolved	ug/L	10.8	1000	1000	1120	1120	111	111	70-130	0	7	
Arsenic, Dissolved	ug/L	209	1000	1000	1300	1320	110	111	70-130	1	10	
Beryllium, Dissolved	ug/L	ND	1000	1000	982	988	98	99	70-130	1	7	
Cadmium, Dissolved	ug/L	ND	1000	1000	1080	1090	108	109	70-130	0	10	
Chromium, Dissolved	ug/L	34.3	1000	1000	989	1000	95	97	70-130	2	10	
Cobalt, Dissolved	ug/L	5.6	1000	1000	1000	1010	100	100	70-130	1	6	
Copper, Dissolved	ug/L	ND	1000	1000	1090	1100	109	110	70-130	1	11	
Iron, Dissolved	ug/L	82400	10000	10000	83200	86500	8	41	70-130	4	10	M1
Lead, Dissolved	ug/L	5.4	1000	1000	964	972	96	97	70-130	1	10	
Nickel, Dissolved	ug/L	17.6	1000	1000	1010	1010	99	99	70-130	0	10	
Selenium, Dissolved	ug/L	ND	1000	1000	1210	1230	121	123	70-130	2	10	
Silver, Dissolved	ug/L	ND	500	500	532	540	106	108	70-130	1	10	
Thallium, Dissolved	ug/L	ND	1000	1000	936	918	94	92	70-130	2	6	
Zinc, Dissolved	ug/L	1160	1000	1000	2040	2070	88	91	70-130	2	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-271

Pace Project No.: 60167211

QC Batch:	MSV/60905	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60167211002		

METHOD BLANK: 1362371 Matrix: Water

Associated Lab Samples: 60167211002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/17/14 15:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/17/14 15:14	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/17/14 15:14	
1,2-Dichloroethane	ug/L	ND	1.0	04/17/14 15:14	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/17/14 15:14	
2-Butanone (MEK)	ug/L	ND	10.0	04/17/14 15:14	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/17/14 15:14	N2
Acetone	ug/L	ND	10.0	04/17/14 15:14	N2
Benzene	ug/L	ND	1.0	04/17/14 15:14	
Bromodichloromethane	ug/L	ND	1.0	04/17/14 15:14	
Bromoform	ug/L	ND	1.0	04/17/14 15:14	
Bromomethane	ug/L	ND	5.0	04/17/14 15:14	
Carbon tetrachloride	ug/L	ND	1.0	04/17/14 15:14	
Chloroethane	ug/L	ND	1.0	04/17/14 15:14	
Chloroform	ug/L	ND	1.0	04/17/14 15:14	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/17/14 15:14	N2
Ethylbenzene	ug/L	ND	1.0	04/17/14 15:14	
Tetrachloroethene	ug/L	ND	1.0	04/17/14 15:14	
Toluene	ug/L	ND	1.0	04/17/14 15:14	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/17/14 15:14	
Trichloroethene	ug/L	ND	1.0	04/17/14 15:14	
Vinyl chloride	ug/L	ND	1.0	04/17/14 15:14	
Xylene (Total)	ug/L	ND	3.0	04/17/14 15:14	N2
1,2-Dichloroethane-d4 (S)	%	99	80-120	04/17/14 15:14	
4-Bromofluorobenzene (S)	%	102	80-120	04/17/14 15:14	
Toluene-d8 (S)	%	101	80-120	04/17/14 15:14	

LABORATORY CONTROL SAMPLE: 1362372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.1	96	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	96	67-127	N2
1,1,2-Trichloroethane	ug/L	20	20.5	103	67-124	
1,2-Dichloroethane	ug/L	20	19.3	96	70-126	
1,4-Dichlorobenzene	ug/L	20	19.6	98	74-120	
2-Butanone (MEK)	ug/L	100	157	157	42-153	L0,N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	105	105	59-131	N2
Acetone	ug/L	100	200	200	38-134	L0,N2
Benzene	ug/L	20	18.9	95	75-120	
Bromodichloromethane	ug/L	20	19.5	98	68-125	
Bromoform	ug/L	20	20.0	100	65-127	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-271

Pace Project No.: 60167211

LABORATORY CONTROL SAMPLE: 1362372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	20	23.3	116	13-157	
Carbon tetrachloride	ug/L	20	20.7	103	70-131	
Chloroethane	ug/L	20	21.8	109	47-133	
Chloroform	ug/L	20	18.2	91	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.3	102	68-127	N2
Ethylbenzene	ug/L	20	20.7	104	74-122	
Tetrachloroethene	ug/L	20	20.9	104	73-125	
Toluene	ug/L	20	19.3	97	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.0	100	66-129	
Trichloroethene	ug/L	20	19.7	98	71-123	
Vinyl chloride	ug/L	20	24.9	125	43-129	
Xylene (Total)	ug/L	60	63.6	106	75-121	N2
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-271

Pace Project No.: 60167211

QC Batch: MSV/60926 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60167211001, 60167211002

METHOD BLANK: 1363074

Matrix: Water

Associated Lab Samples: 60167211001, 60167211002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/18/14 12:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/18/14 12:29	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/18/14 12:29	
1,2-Dichloroethane	ug/L	ND	1.0	04/18/14 12:29	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/18/14 12:29	
2-Butanone (MEK)	ug/L	ND	10.0	04/18/14 12:29	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/18/14 12:29	N2
Acetone	ug/L	ND	10.0	04/18/14 12:29	N2
Benzene	ug/L	ND	1.0	04/18/14 12:29	
Bromodichloromethane	ug/L	ND	1.0	04/18/14 12:29	
Bromoform	ug/L	ND	1.0	04/18/14 12:29	
Bromomethane	ug/L	ND	5.0	04/18/14 12:29	
Carbon tetrachloride	ug/L	ND	1.0	04/18/14 12:29	
Chloroethane	ug/L	ND	1.0	04/18/14 12:29	
Chloroform	ug/L	ND	1.0	04/18/14 12:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/18/14 12:29	N2
Ethylbenzene	ug/L	ND	1.0	04/18/14 12:29	
Methylene chloride	ug/L	ND	1.0	04/18/14 12:29	
Tetrachloroethene	ug/L	ND	1.0	04/18/14 12:29	
Toluene	ug/L	ND	1.0	04/18/14 12:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/18/14 12:29	
Trichloroethene	ug/L	ND	1.0	04/18/14 12:29	
Vinyl chloride	ug/L	ND	1.0	04/18/14 12:29	
Xylene (Total)	ug/L	ND	3.0	04/18/14 12:29	N2
1,2-Dichloroethane-d4 (S)	%	98	80-120	04/18/14 12:29	
4-Bromofluorobenzene (S)	%	103	80-120	04/18/14 12:29	
Toluene-d8 (S)	%	99	80-120	04/18/14 12:29	

LABORATORY CONTROL SAMPLE: 1363075

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.3	97	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.0	100	67-127	N2
1,1,2-Trichloroethane	ug/L	20	20.3	101	67-124	
1,2-Dichloroethane	ug/L	20	20.4	102	70-126	
1,4-Dichlorobenzene	ug/L	20	19.6	98	74-120	
2-Butanone (MEK)	ug/L	100	171	171	42-153	L0,N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	108	108	59-131	N2
Acetone	ug/L	100	214	214	38-134	L0,N2
Benzene	ug/L	20	19.3	97	75-120	
Bromodichloromethane	ug/L	20	20.6	103	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-271

Pace Project No.: 60167211

LABORATORY CONTROL SAMPLE: 1363075

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.2	101	65-127	
Bromomethane	ug/L	20	23.9	120	13-157	
Carbon tetrachloride	ug/L	20	21.2	106	70-131	
Chloroethane	ug/L	20	20.4	102	47-133	
Chloroform	ug/L	20	18.8	94	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.7	104	68-127	N2
Ethylbenzene	ug/L	20	20.7	104	74-122	
Methylene chloride	ug/L	20	18.8	94	64-129	
Tetrachloroethene	ug/L	20	19.8	99	73-125	
Toluene	ug/L	20	20.2	101	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.5	102	66-129	
Trichloroethene	ug/L	20	20.0	100	71-123	
Vinyl chloride	ug/L	20	24.6	123	43-129	
Xylene (Total)	ug/L	60	61.6	103	75-121	N2
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			96	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1363076

Parameter	Units	60167111001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	5920	118	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	5290	106	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	5370	107	52-143	
1,2-Dichloroethane	ug/L	ND	5000	5740	115	49-144	
1,4-Dichlorobenzene	ug/L	ND	5000	5220	102	33-140	
2-Butanone (MEK)	ug/L	58200	25000	89300	124	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	30700	121	40-160	N2
Acetone	ug/L	142000	25000	168000	101	10-160	N2
Benzene	ug/L	ND	5000	5430	109	37-151	
Bromodichloromethane	ug/L	ND	5000	5650	113	35-142	
Bromoform	ug/L	ND	5000	5550	111	45-142	
Bromomethane	ug/L	ND	5000	6070	121	10-158	
Carbon tetrachloride	ug/L	ND	5000	6620	132	70-140	
Chloroethane	ug/L	ND	5000	6110	122	19-152	
Chloroform	ug/L	ND	5000	5370	107	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	5860	117	34-147	N2
Ethylbenzene	ug/L	ND	5000	5480	110	40-142	
Methylene chloride	ug/L	ND	5000	5220	102	31-144	
Tetrachloroethene	ug/L	ND	5000	5700	114	64-148	
Toluene	ug/L	ND	5000	5690	114	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	5920	118	54-151	
Trichloroethene	ug/L	ND	5000	5700	114	71-149	
Vinyl chloride	ug/L	ND	5000	7310	146	22-146	
Xylene (Total)	ug/L	ND	15000	16700	111	37-144	N2
1,2-Dichloroethane-d4 (S)	%				103	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-271

Pace Project No.: 60167211

MATRIX SPIKE SAMPLE: 1363076

Parameter	Units	60167111001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				102	80-120	
Preservation pH		6.0		6.0			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-271
Pace Project No.: 60167211

QC Batch:	OEXT/43807	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60167211001		

METHOD BLANK: 1365048 Matrix: Water
Associated Lab Samples: 60167211001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/24/14 12:07	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/24/14 12:07	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/24/14 12:07	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/24/14 12:07	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/24/14 12:07	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/24/14 12:07	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/24/14 12:07	
Hexachloroethane	ug/L	ND	5.0	04/24/14 12:07	
Naphthalene	ug/L	ND	5.0	04/24/14 12:07	
Nitrobenzene	ug/L	ND	5.0	04/24/14 12:07	
Pentachlorophenol	ug/L	ND	5.0	04/24/14 12:07	
Phenol	ug/L	ND	5.0	04/24/14 12:07	
2,4,6-Tribromophenol (S)	%	85	39-120	04/24/14 12:07	
2-Fluorobiphenyl (S)	%	82	39-120	04/24/14 12:07	
2-Fluorophenol (S)	%	45	17-120	04/24/14 12:07	
Nitrobenzene-d5 (S)	%	75	33-120	04/24/14 12:07	
Phenol-d6 (S)	%	30	11-120	04/24/14 12:07	
Terphenyl-d14 (S)	%	94	45-120	04/24/14 12:07	

LABORATORY CONTROL SAMPLE: 1365049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.2	78	46-120	
2,4,6-Trichlorophenol	ug/L	50	47.2	94	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	35.4	71	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	33.3	67	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	57.8	116	40-133	
Hexachloro-1,3-butadiene	ug/L	50	37.9	76	44-116	
Hexachlorocyclopentadiene	ug/L	100	68.5	68	24-120	
Hexachloroethane	ug/L	50	37.1	74	43-113	
Naphthalene	ug/L	50	40.3	81	48-120	
Nitrobenzene	ug/L	50	43.1	86	48-120	
Pentachlorophenol	ug/L	50	54.4	109	47-120	
Phenol	ug/L	50	16.5	33	16-112	
2,4,6-Tribromophenol (S)	%			106	39-120	
2-Fluorobiphenyl (S)	%			88	39-120	
2-Fluorophenol (S)	%			45	17-120	
Nitrobenzene-d5 (S)	%			85	33-120	
Phenol-d6 (S)	%			31	11-120	
Terphenyl-d14 (S)	%			98	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-271

Pace Project No.: 60167211

MATRIX SPIKE SAMPLE:		1365050					
Parameter	Units	60167211001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	37.9	76	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	50.4	101	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	50	46.2	92	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	89.3	50	122	65	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	50	52.5	105	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	38.9	78	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	79.6	80	11-120	
Hexachloroethane	ug/L	ND	50	40.9	82	40-113	
Naphthalene	ug/L	14.8	50	52.9	76	45-120	
Nitrobenzene	ug/L	ND	50	48.5	97	38-120	
Pentachlorophenol	ug/L	ND	50	58.4	117	43-135	
Phenol	ug/L	134	50	149	30	13-112	
2,4,6-Tribromophenol (S)	%				111	39-120	
2-Fluorobiphenyl (S)	%				91	39-120	
2-Fluorophenol (S)	%				52	17-120	
Nitrobenzene-d5 (S)	%				154	33-120	S0
Phenol-d6 (S)	%				39	11-120	
Terphenyl-d14 (S)	%				92	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-271

Pace Project No.: 60167211

QC Batch: WET/47400

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60167211001

METHOD BLANK: 1363217

Matrix: Water

Associated Lab Samples: 60167211001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/18/14 13:09	

LABORATORY CONTROL SAMPLE: 1363218

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: 1363223

Parameter	Units	60166883002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	50.6	46.8	88	78-114	

SAMPLE DUPLICATE: 1363221

Parameter	Units	60166821002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	3J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-271

Pace Project No.: 60167211

QC Batch: WET/47483

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60167211001

METHOD BLANK: 1365814

Matrix: Water

Associated Lab Samples: 60167211001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	04/24/14 07:52	

LABORATORY CONTROL SAMPLE: 1365815

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	19.1	96	64-132	

MATRIX SPIKE SAMPLE: 1365816

Parameter	Units	60167211001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	7.6	80	44.8	46	64-132	M1

SAMPLE DUPLICATE: 1365817

Parameter	Units	60167212001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	6.0	5.2	14	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-271

Pace Project No.: 60167211

QC Batch: WET/47361

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60167211001

METHOD BLANK: 1361997

Matrix: Water

Associated Lab Samples: 60167211001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/17/14 10:57	

SAMPLE DUPLICATE: 1361998

Parameter	Units	60167160002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 1361999

Parameter	Units	60167022003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	127	128	1	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-271

Pace Project No.: 60167211

QC Batch: WET/47404 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60167211001

SAMPLE DUPLICATE: 1363752

Parameter	Units	60167224001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.3	8.3	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-271

Pace Project No.: 60167211

QC Batch: WET/47369

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60167211001

METHOD BLANK: 1362356

Matrix: Water

Associated Lab Samples: 60167211001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/22/14 14:14	

LABORATORY CONTROL SAMPLE: 1362357

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	177	90	85-115	

SAMPLE DUPLICATE: 1362358

Parameter	Units	60167218007 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	4.5	4.2	7	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-271

Pace Project No.: 60167211

QC Batch: WETA/29057

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60167211001

METHOD BLANK: 1362821

Matrix: Water

Associated Lab Samples: 60167211001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/18/14 08:53	

LABORATORY CONTROL SAMPLE: 1362822

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

MATRIX SPIKE SAMPLE: 1362824

Parameter	Units	60167118002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1362825

Parameter	Units	60167218007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.31	2	1.7	67	90-110	M1

SAMPLE DUPLICATE: 1362823

Parameter	Units	60167113002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	3.9	3.9	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-271

Pace Project No.: 60167211

QC Batch:	WETA/29116	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60167211001		

METHOD BLANK: 1365557 Matrix: Water
Associated Lab Samples: 60167211001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	04/24/14 10:50	

LABORATORY CONTROL SAMPLE: 1365558

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	45.3	91	90-110	

MATRIX SPIKE SAMPLE: 1365559

Parameter	Units	60166887001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	9990	5000	13900	79	90-110	M1

MATRIX SPIKE SAMPLE: 1365561

Parameter	Units	60167212001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	58400	25000	76300	72	90-110	M1

SAMPLE DUPLICATE: 1365560

Parameter	Units	60166887005 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	7640	7350	4	25	

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QUALIFIERS

Project: BRIDGETON LF 316-271

Pace Project No.: 60167211

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/60905

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

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

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.

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.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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

N2 The lab does not hold TNI accreditation for this parameter.

S0 Surrogate recovery outside laboratory control limits.

S2 Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-271

Pace Project No.: 60167211

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60167211001	316-271	EPA 200.7	MPRP/26892	EPA 200.7	ICP/20430
60167211001	316-271	EPA 200.7	MPRP/26927	EPA 200.7	ICP/20442
60167211001	316-271	EPA 245.1	MERP/8322	EPA 245.1	MERC/8275
60167211001	316-271	EPA 245.1	MERP/8327	EPA 245.1	MERC/8282
60167211001	316-271	EPA 625	OEXT/43807	EPA 625	MSSV/13983
60167211001	316-271	EPA 624 Low	MSV/60926		
60167211002	TRIP BLANK	EPA 624 Low	MSV/60905		
60167211002	TRIP BLANK	EPA 624 Low	MSV/60926		
60167211001	316-271	EPA 1664A	WET/47400		
60167211001	316-271	EPA 1664A	WET/47483		
60167211001	316-271	SM 2540D	WET/47361		
60167211001	316-271	SM 4500-H+B	WET/47404		
60167211001	316-271	SM 5210B	WET/47369	SM 5210B	WET/47436
60167211001	316-271	EPA 350.1	WETA/29057		
60167211001	316-271	EPA 410.4	WETA/29116		

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Sample Condition Upon Receipt

WO#: 60167211

60167211

Client Name: BarrCourier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☒ XroadTracking #: _____ Pace Shipping Label Used? Yes ☐ No ☒Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☒ None ☐ Other ☒ 2 p/cThermometer Used: T-239 T-194Type of Ice: Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)Cooler Temperature: 5.0Date and initials of person examining contents: puh/1/14

Temperature should be above freezing to 6°C

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☒ Yes ☐ No ☐ N/A	6. 8.0 D pH
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	9.
Pace containers used:	☒ Yes ☐ No ☐ N/A	10.
Containers intact:	☒ Yes ☐ No ☐ N/A	11.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	12.
Filtered volume received for dissolved tests?	☐ Yes ☐ No ☒ N/A	13.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	14.
Includes date/time/ID/analyses	Matrix: <u>WT</u>	15.
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	16.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☒ No ☐ N/A	17.
Exceptions: <u>VOA</u> , coliform, TOC, O&G, WI-DRO (water), Phenolics	☒ Yes ☐ No	Initial when completed <u>pu</u>
Trip Blank present:	☐ Yes ☐ No ☐ N/A	Lot # of added preservative <u>12522</u> <u>12513</u>
Pace Trip Blank lot # (if purchased): <u>Cover</u>		18.
Headspace in VOA vials (>6mm):	☐ Yes ☒ No ☐ N/A	19.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ N/A	20. 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: _____

Date: 4/7/14

April 24, 2014

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

RE: Project: BRIDGETON LF CB 04-16-14
Pace Project No.: 60167212

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 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.
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF CB 04-16-14

Pace Project No.: 60167212

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 CB 04-16-14

Pace Project No.: 60167212

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60167212001	CB 04-16-14	Water	04/16/14 09:00	04/17/14 00:55
60167212002	TRIP BLANK	Water	04/16/14 00:00	04/17/14 00:55

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF CB 04-16-14

Pace Project No.: 60167212

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60167212001	CB 04-16-14	EPA 200.7	JGP	15
		EPA 200.7	NDJ	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	DJR	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
		EPA 624 Low	EAK	28
60167212002	TRIP BLANK			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 04-16-14

Pace Project No.: 60167212

Sample: CB 04-16-14		Lab ID: 60167212001	Collected: 04/16/14 09:00	Received: 04/17/14 00:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum	6080	ug/L	750	2	04/18/14 16:30	04/21/14 18:40	7429-90-5	D3	
Antimony	ND	ug/L	100	2	04/18/14 16:30	04/21/14 18:40	7440-36-0		
Arsenic	781	ug/L	50.0	1	04/18/14 16:30	04/21/14 18:37	7440-38-2		
Beryllium	ND	ug/L	5.0	1	04/18/14 16:30	04/21/14 18:37	7440-41-7		
Cadmium	ND	ug/L	25.0	1	04/18/14 16:30	04/21/14 18:37	7440-43-9		
Chromium	169	ug/L	25.0	1	04/18/14 16:30	04/21/14 18:37	7440-47-3		
Cobalt	33.3	ug/L	25.0	1	04/18/14 16:30	04/21/14 18:37	7440-48-4		
Copper	ND	ug/L	50.0	1	04/18/14 16:30	04/21/14 18:37	7440-50-8		
Iron	526000	ug/L	250	1	04/18/14 16:30	04/21/14 18:37	7439-89-6		
Lead	78.2	ug/L	25.0	1	04/18/14 16:30	04/21/14 18:37	7439-92-1		
Nickel	89.4	ug/L	25.0	1	04/18/14 16:30	04/21/14 18:37	7440-02-0		
Selenium	ND	ug/L	75.0	1	04/18/14 16:30	04/21/14 18:37	7782-49-2		
Silver	ND	ug/L	35.0	1	04/18/14 16:30	04/21/14 18:37	7440-22-4		
Thallium	ND	ug/L	100	1	04/18/14 16:30	04/21/14 18:37	7440-28-0		
Zinc	4130	ug/L	500	2	04/18/14 16:30	04/21/14 18:40	7440-66-6		
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
Aluminum, Dissolved	351	ug/L	150	2	04/21/14 17:15	04/22/14 14:40	7429-90-5		
Antimony, Dissolved	ND	ug/L	10.0	1	04/21/14 17:15	04/22/14 14:33	7440-36-0		
Arsenic, Dissolved	149	ug/L	10.0	1	04/21/14 17:15	04/22/14 14:33	7440-38-2		
Beryllium, Dissolved	ND	ug/L	1.0	1	04/21/14 17:15	04/22/14 14:33	7440-41-7		
Cadmium, Dissolved	ND	ug/L	5.0	1	04/21/14 17:15	04/22/14 14:33	7440-43-9		
Chromium, Dissolved	28.4	ug/L	5.0	1	04/21/14 17:15	04/22/14 14:33	7440-47-3		
Cobalt, Dissolved	5.0	ug/L	5.0	1	04/21/14 17:15	04/22/14 14:33	7440-48-4		
Copper, Dissolved	ND	ug/L	10.0	1	04/21/14 17:15	04/22/14 14:33	7440-50-8		
Iron, Dissolved	69200	ug/L	50.0	1	04/21/14 17:15	04/22/14 14:33	7439-89-6		
Lead, Dissolved	6.0	ug/L	5.0	1	04/21/14 17:15	04/22/14 14:33	7439-92-1		
Nickel, Dissolved	14.9	ug/L	5.0	1	04/21/14 17:15	04/22/14 14:33	7440-02-0		
Selenium, Dissolved	ND	ug/L	15.0	1	04/21/14 17:15	04/22/14 14:33	7782-49-2		
Silver, Dissolved	ND	ug/L	7.0	1	04/21/14 17:15	04/22/14 14:33	7440-22-4		
Thallium, Dissolved	ND	ug/L	20.0	1	04/21/14 17:15	04/22/14 14:33	7440-28-0		
Zinc, Dissolved	870	ug/L	100	2	04/21/14 17:15	04/22/14 14:40	7440-66-6		
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1							
Mercury	41.7	ug/L	6.0	1	04/22/14 11:45	04/22/14 15:05	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	04/23/14 15:15	04/23/14 18:58	7439-97-6		
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625							
4,6-Dinitro-2-methylphenol	ND	ug/L	50.0	2	04/23/14 00:00	04/24/14 13:29	534-52-1		
Hexachloro-1,3-butadiene	ND	ug/L	10.0	2	04/23/14 00:00	04/24/14 13:29	87-68-3		
Hexachlorocyclopentadiene	ND	ug/L	10.0	2	04/23/14 00:00	04/24/14 13:29	77-47-4		
Hexachloroethane	ND	ug/L	10.0	2	04/23/14 00:00	04/24/14 13:29	67-72-1		
2-Methylphenol(o-Cresol)	ND	ug/L	20.0	2	04/23/14 00:00	04/24/14 13:29	95-48-7		
3&4-Methylphenol(m&p Cresol)	83.2	ug/L	40.0	2	04/23/14 00:00	04/24/14 13:29			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 04-16-14

Pace Project No.: 60167212

Sample: CB 04-16-14		Lab ID: 60167212001	Collected: 04/16/14 09:00	Received: 04/17/14 00:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	38.8 ug/L		10.0	2	04/23/14 00:00	04/24/14 13:29	91-20-3	
Nitrobenzene	ND ug/L		10.0	2	04/23/14 00:00	04/24/14 13:29	98-95-3	
Pentachlorophenol	ND ug/L		10.0	2	04/23/14 00:00	04/24/14 13:29	87-86-5	
Phenol	120 ug/L		10.0	2	04/23/14 00:00	04/24/14 13:29	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		10.0	2	04/23/14 00:00	04/24/14 13:29	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		10.0	2	04/23/14 00:00	04/24/14 13:29	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	164 %		33-120	2	04/23/14 00:00	04/24/14 13:29	4165-60-0	S0
2-Fluorobiphenyl (S)	98 %		39-120	2	04/23/14 00:00	04/24/14 13:29	321-60-8	
Terphenyl-d14 (S)	97 %		45-120	2	04/23/14 00:00	04/24/14 13:29	1718-51-0	
Phenol-d6 (S)	44 %		11-120	2	04/23/14 00:00	04/24/14 13:29	13127-88-3	
2-Fluorophenol (S)	58 %		17-120	2	04/23/14 00:00	04/24/14 13:29	367-12-4	
2,4,6-Tribromophenol (S)	122 %		39-120	2	04/23/14 00:00	04/24/14 13:29	118-79-6	S0
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	153000 ug/L		2500	250		04/17/14 18:37	67-64-1	L1,N2
Benzene	ND ug/L		250	250		04/17/14 18:37	71-43-2	
Bromodichloromethane	ND ug/L		250	250		04/17/14 18:37	75-27-4	
Bromoform	ND ug/L		250	250		04/17/14 18:37	75-25-2	
Bromomethane	ND ug/L		1250	250		04/17/14 18:37	74-83-9	
2-Butanone (MEK)	74100 ug/L		2500	250		04/17/14 18:37	78-93-3	L1,N2
Carbon tetrachloride	ND ug/L		250	250		04/17/14 18:37	56-23-5	
Chloroethane	ND ug/L		250	250		04/17/14 18:37	75-00-3	
Chloroform	ND ug/L		250	250		04/17/14 18:37	67-66-3	
1,4-Dichlorobenzene	1380 ug/L		250	250		04/17/14 18:37	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		04/17/14 18:37	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		04/17/14 18:37	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		04/17/14 18:37	156-60-5	
Ethylbenzene	ND ug/L		250	250		04/17/14 18:37	100-41-4	
Methylene chloride	ND ug/L		250	250		04/18/14 14:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		04/17/14 18:37	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		04/17/14 18:37	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		04/17/14 18:37	127-18-4	
Toluene	ND ug/L		250	250		04/17/14 18:37	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		04/17/14 18:37	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		04/17/14 18:37	79-00-5	
Trichloroethene	ND ug/L		250	250		04/17/14 18:37	79-01-6	
Vinyl chloride	ND ug/L		250	250		04/17/14 18:37	75-01-4	
Xylene (Total)	ND ug/L		750	250		04/17/14 18:37	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	102 %		80-120	250		04/17/14 18:37	460-00-4	
Toluene-d8 (S)	101 %		80-120	250		04/17/14 18:37	2037-26-5	
1,2-Dichloroethane-d4 (S)	108 %		80-120	250		04/17/14 18:37	17060-07-0	
Preservation pH	6.0		1.0	250		04/17/14 18:37		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	964 mg/L		5.0	1		04/18/14 13:13		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 04-16-14

Pace Project No.: 60167212

Sample: CB 04-16-14		Lab ID: 60167212001	Collected: 04/16/14 09:00	Received: 04/17/14 00:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	6.0	mg/L	5.0	1		04/24/14 07:53		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	2780	mg/L	5.0	1		04/17/14 11:03		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.5	Std. Units	0.10	1		04/19/14 09:20		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	27900	mg/L	2.0	1	04/17/14 13:28	04/22/14 12:52		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	522	mg/L	20.0	200		04/18/14 09:15	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	58400	mg/L	5000	500		04/24/14 11:09		M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 04-16-14

Pace Project No.: 60167212

Sample: TRIP BLANK		Lab ID: 60167212002	Collected: 04/16/14 00:00	Received: 04/17/14 00:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		04/17/14 16:48	67-64-1	L3,N2
Benzene	ND ug/L		1.0	1		04/17/14 16:48	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/17/14 16:48	75-27-4	
Bromoform	1.1 ug/L		1.0	1		04/17/14 16:48	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/17/14 16:48	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/17/14 16:48	78-93-3	L3,N2
Carbon tetrachloride	ND ug/L		1.0	1		04/17/14 16:48	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/17/14 16:48	75-00-3	
Chloroform	ND ug/L		1.0	1		04/17/14 16:48	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/17/14 16:48	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/17/14 16:48	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/17/14 16:48	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/17/14 16:48	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/17/14 16:48	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/17/14 16:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/17/14 16:48	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/17/14 16:48	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/17/14 16:48	127-18-4	
Toluene	ND ug/L		1.0	1		04/17/14 16:48	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/17/14 16:48	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/17/14 16:48	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/17/14 16:48	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/17/14 16:48	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/17/14 16:48	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	98 %		80-120	1		04/17/14 16:48	460-00-4	
Toluene-d8 (S)	97 %		80-120	1		04/17/14 16:48	2037-26-5	
1,2-Dichloroethane-d4 (S)	95 %		80-120	1		04/17/14 16:48	17060-07-0	
Preservation pH	6.0		1.0	1		04/17/14 16:48		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-16-14

Pace Project No.: 60167212

QC Batch: MERP/8322

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60167212001

METHOD BLANK: 1364493

Matrix: Water

Associated Lab Samples: 60167212001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/22/14 14:45	

LABORATORY CONTROL SAMPLE: 1364494

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: 1364495 1364496

Parameter	Units	60167111001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	18.4	150	150	157	162	92	96	70-130	4	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-16-14

Pace Project No.: 60167212

QC Batch: MERP/8327

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60167212001

METHOD BLANK: 1365590

Matrix: Water

Associated Lab Samples: 60167212001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/23/14 18:47	

LABORATORY CONTROL SAMPLE: 1365591

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: 1365592 1365593

Parameter	Units	60167211001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	130	109	86	72	70-130	17	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-16-14

Pace Project No.: 60167212

QC Batch: MPRP/26892

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Associated Lab Samples: 60167212001

METHOD BLANK: 1362735

Matrix: Water

Associated Lab Samples: 60167212001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/21/14 17:50	
Antimony	ug/L	ND	10.0	04/21/14 17:50	
Arsenic	ug/L	ND	10.0	04/21/14 17:50	
Beryllium	ug/L	ND	1.0	04/21/14 17:50	
Cadmium	ug/L	ND	5.0	04/21/14 17:50	
Chromium	ug/L	ND	5.0	04/21/14 17:50	
Cobalt	ug/L	ND	5.0	04/21/14 17:50	
Copper	ug/L	ND	10.0	04/21/14 17:50	
Iron	ug/L	ND	50.0	04/21/14 17:50	
Lead	ug/L	ND	5.0	04/21/14 17:50	
Nickel	ug/L	ND	5.0	04/21/14 17:50	
Selenium	ug/L	ND	15.0	04/21/14 17:50	
Silver	ug/L	ND	7.0	04/21/14 17:50	
Thallium	ug/L	ND	20.0	04/21/14 17:50	
Zinc	ug/L	ND	50.0	04/21/14 17:50	

LABORATORY CONTROL SAMPLE: 1362736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9650	97	85-115	
Antimony	ug/L	1000	1020	102	85-115	
Arsenic	ug/L	1000	939	94	85-115	
Beryllium	ug/L	1000	997	100	85-115	
Cadmium	ug/L	1000	957	96	85-115	
Chromium	ug/L	1000	924	92	85-115	
Cobalt	ug/L	1000	993	99	85-115	
Copper	ug/L	1000	997	100	85-115	
Iron	ug/L	10000	10000	100	85-115	
Lead	ug/L	1000	989	99	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	1020	102	85-115	
Silver	ug/L	500	480	96	85-115	
Thallium	ug/L	1000	993	99	85-115	
Zinc	ug/L	1000	940	94	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1364023

1364024

Parameter	Units	60167111001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	7500	50000	50000	60300	61600	106	108	70-130	2	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-16-14

Pace Project No.: 60167212

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1364023 1364024											
Parameter	Units	60167111001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max	
			Spike Conc.	Spike Conc.						RPD	RPD
Antimony	ug/L	ND	5000	5000	5370	5470	106	108	70-130	2	7
Arsenic	ug/L	1110	5000	5000	6440	6650	107	111	70-130	3	10
Beryllium	ug/L	ND	5000	5000	4720	4770	94	95	70-130	1	7
Cadmium	ug/L	ND	5000	5000	5150	5200	103	104	70-130	1	10
Chromium	ug/L	213	5000	5000	4710	4730	90	90	70-130	0	10
Cobalt	ug/L	43.7	5000	5000	4710	4710	93	93	70-130	0	6
Copper	ug/L	ND	5000	5000	5400	5480	107	109	70-130	2	11
Iron	ug/L	687000	50000	50000	743000	822000	112	269	70-130	10	10 M1
Lead	ug/L	93.2	5000	5000	4470	4460	88	87	70-130	0	10
Nickel	ug/L	112	5000	5000	4820	4860	94	95	70-130	1	10
Selenium	ug/L	84.9	5000	5000	6220	6420	123	127	70-130	3	10
Silver	ug/L	ND	2500	2500	2640	2680	105	107	70-130	2	10
Thallium	ug/L	ND	5000	5000	4100	4070	82	81	70-130	1	6
Zinc	ug/L	5380	5000	5000	9740	10400	87	101	70-130	7	11

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-16-14

Pace Project No.: 60167212

QC Batch: MPRP/26927

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60167212001

METHOD BLANK: 1364293

Matrix: Water

Associated Lab Samples: 60167212001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/22/14 14:44	
Antimony, Dissolved	ug/L	ND	10.0	04/22/14 14:44	
Arsenic, Dissolved	ug/L	ND	10.0	04/22/14 14:44	
Beryllium, Dissolved	ug/L	ND	1.0	04/22/14 14:44	
Cadmium, Dissolved	ug/L	ND	5.0	04/22/14 14:44	
Chromium, Dissolved	ug/L	ND	5.0	04/22/14 14:44	
Cobalt, Dissolved	ug/L	ND	5.0	04/22/14 14:44	
Copper, Dissolved	ug/L	ND	10.0	04/22/14 14:44	
Iron, Dissolved	ug/L	126	50.0	04/22/14 14:44	
Lead, Dissolved	ug/L	ND	5.0	04/22/14 14:44	
Nickel, Dissolved	ug/L	ND	5.0	04/22/14 14:44	
Selenium, Dissolved	ug/L	ND	15.0	04/22/14 14:44	
Silver, Dissolved	ug/L	ND	7.0	04/22/14 14:44	
Thallium, Dissolved	ug/L	ND	20.0	04/22/14 14:44	
Zinc, Dissolved	ug/L	ND	50.0	04/22/14 14:44	

LABORATORY CONTROL SAMPLE: 1364294

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	989	99	85-115	
Beryllium, Dissolved	ug/L	1000	1000	100	85-115	
Cadmium, Dissolved	ug/L	1000	1010	101	85-115	
Chromium, Dissolved	ug/L	1000	972	97	85-115	
Cobalt, Dissolved	ug/L	1000	1020	102	85-115	
Copper, Dissolved	ug/L	1000	988	99	85-115	
Iron, Dissolved	ug/L	10000	9800	98	85-115	
Lead, Dissolved	ug/L	1000	1030	103	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1010	101	85-115	
Silver, Dissolved	ug/L	500	483	97	85-115	
Thallium, Dissolved	ug/L	1000	1040	104	85-115	
Zinc, Dissolved	ug/L	1000	1000	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1364295

1364296

Parameter	Units	60167211001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	376	10000	10000	10600	10700	102	103	70-130	1	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-16-14

Pace Project No.: 60167212

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1364295 1364296												
Parameter	Units	60167211001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Antimony, Dissolved	ug/L	10.8	1000	1000	1120	1120	111	111	70-130	0	7	
Arsenic, Dissolved	ug/L	209	1000	1000	1300	1320	110	111	70-130	1	10	
Beryllium, Dissolved	ug/L	ND	1000	1000	982	988	98	99	70-130	1	7	
Cadmium, Dissolved	ug/L	ND	1000	1000	1080	1090	108	109	70-130	0	10	
Chromium, Dissolved	ug/L	34.3	1000	1000	989	1000	95	97	70-130	2	10	
Cobalt, Dissolved	ug/L	5.6	1000	1000	1000	1010	100	100	70-130	1	6	
Copper, Dissolved	ug/L	ND	1000	1000	1090	1100	109	110	70-130	1	11	
Iron, Dissolved	ug/L	82400	10000	10000	83200	86500	8	41	70-130	4	10	M1
Lead, Dissolved	ug/L	5.4	1000	1000	964	972	96	97	70-130	1	10	
Nickel, Dissolved	ug/L	17.6	1000	1000	1010	1010	99	99	70-130	0	10	
Selenium, Dissolved	ug/L	ND	1000	1000	1210	1230	121	123	70-130	2	10	
Silver, Dissolved	ug/L	ND	500	500	532	540	106	108	70-130	1	10	
Thallium, Dissolved	ug/L	ND	1000	1000	936	918	94	92	70-130	2	6	
Zinc, Dissolved	ug/L	1160	1000	1000	2040	2070	88	91	70-130	2	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-16-14

Pace Project No.: 60167212

QC Batch:	MSV/60905	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples: 60167212001, 60167212002			

METHOD BLANK: 1362371 Matrix: Water

Associated Lab Samples: 60167212001, 60167212002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/17/14 15:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/17/14 15:14	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/17/14 15:14	
1,2-Dichloroethane	ug/L	ND	1.0	04/17/14 15:14	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/17/14 15:14	
2-Butanone (MEK)	ug/L	ND	10.0	04/17/14 15:14	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/17/14 15:14	N2
Acetone	ug/L	ND	10.0	04/17/14 15:14	N2
Benzene	ug/L	ND	1.0	04/17/14 15:14	
Bromodichloromethane	ug/L	ND	1.0	04/17/14 15:14	
Bromoform	ug/L	ND	1.0	04/17/14 15:14	
Bromomethane	ug/L	ND	5.0	04/17/14 15:14	
Carbon tetrachloride	ug/L	ND	1.0	04/17/14 15:14	
Chloroethane	ug/L	ND	1.0	04/17/14 15:14	
Chloroform	ug/L	ND	1.0	04/17/14 15:14	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/17/14 15:14	N2
Ethylbenzene	ug/L	ND	1.0	04/17/14 15:14	
Methylene chloride	ug/L	1.1	1.0	04/17/14 15:14	
Tetrachloroethene	ug/L	ND	1.0	04/17/14 15:14	
Toluene	ug/L	ND	1.0	04/17/14 15:14	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/17/14 15:14	
Trichloroethene	ug/L	ND	1.0	04/17/14 15:14	
Vinyl chloride	ug/L	ND	1.0	04/17/14 15:14	
Xylene (Total)	ug/L	ND	3.0	04/17/14 15:14	N2
1,2-Dichloroethane-d4 (S)	%	99	80-120	04/17/14 15:14	
4-Bromofluorobenzene (S)	%	102	80-120	04/17/14 15:14	
Toluene-d8 (S)	%	101	80-120	04/17/14 15:14	

LABORATORY CONTROL SAMPLE: 1362372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.1	96	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	96	67-127	N2
1,1,2-Trichloroethane	ug/L	20	20.5	103	67-124	
1,2-Dichloroethane	ug/L	20	19.3	96	70-126	
1,4-Dichlorobenzene	ug/L	20	19.6	98	74-120	
2-Butanone (MEK)	ug/L	100	157	157	42-153	L0,N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	105	105	59-131	N2
Acetone	ug/L	100	200	200	38-134	L0,N2
Benzene	ug/L	20	18.9	95	75-120	
Bromodichloromethane	ug/L	20	19.5	98	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-16-14

Pace Project No.: 60167212

LABORATORY CONTROL SAMPLE: 1362372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.0	100	65-127	
Bromomethane	ug/L	20	23.3	116	13-157	
Carbon tetrachloride	ug/L	20	20.7	103	70-131	
Chloroethane	ug/L	20	21.8	109	47-133	
Chloroform	ug/L	20	18.2	91	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.3	102	68-127	N2
Ethylbenzene	ug/L	20	20.7	104	74-122	
Methylene chloride	ug/L	20	18.5	93	64-129	
Tetrachloroethene	ug/L	20	20.9	104	73-125	
Toluene	ug/L	20	19.3	97	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.0	100	66-129	
Trichloroethene	ug/L	20	19.7	98	71-123	
Vinyl chloride	ug/L	20	24.9	125	43-129	
Xylene (Total)	ug/L	60	63.6	106	75-121	N2
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-16-14

Pace Project No.: 60167212

QC Batch:	MSV/60926	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60167212001		

METHOD BLANK: 1363074 Matrix: Water

Associated Lab Samples: 60167212001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methylene chloride	ug/L	ND	1.0	04/18/14 12:29	
1,2-Dichloroethane-d4 (S)	%	98	80-120	04/18/14 12:29	
4-Bromofluorobenzene (S)	%	103	80-120	04/18/14 12:29	
Toluene-d8 (S)	%	99	80-120	04/18/14 12:29	

LABORATORY CONTROL SAMPLE: 1363075

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Methylene chloride	ug/L	20	18.8	94	64-129	
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			96	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1363076

Parameter	Units	60167111001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Methylene chloride	ug/L	ND	5000	5220	102	31-144	
1,2-Dichloroethane-d4 (S)	%				103	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	
Toluene-d8 (S)	%				102	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-16-14

Pace Project No.: 60167212

QC Batch: OEXT/43807

Analysis Method: EPA 625

QC Batch Method: EPA 625

Analysis Description: 625 MSS

Associated Lab Samples: 60167212001

METHOD BLANK: 1365048

Matrix: Water

Associated Lab Samples: 60167212001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/24/14 12:07	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/24/14 12:07	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/24/14 12:07	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/24/14 12:07	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/24/14 12:07	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/24/14 12:07	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/24/14 12:07	
Hexachloroethane	ug/L	ND	5.0	04/24/14 12:07	
Naphthalene	ug/L	ND	5.0	04/24/14 12:07	
Nitrobenzene	ug/L	ND	5.0	04/24/14 12:07	
Pentachlorophenol	ug/L	ND	5.0	04/24/14 12:07	
Phenol	ug/L	ND	5.0	04/24/14 12:07	
2,4,6-Tribromophenol (S)	%	85	39-120	04/24/14 12:07	
2-Fluorobiphenyl (S)	%	82	39-120	04/24/14 12:07	
2-Fluorophenol (S)	%	45	17-120	04/24/14 12:07	
Nitrobenzene-d5 (S)	%	75	33-120	04/24/14 12:07	
Phenol-d6 (S)	%	30	11-120	04/24/14 12:07	
Terphenyl-d14 (S)	%	94	45-120	04/24/14 12:07	

LABORATORY CONTROL SAMPLE: 1365049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.2	78	46-120	
2,4,6-Trichlorophenol	ug/L	50	47.2	94	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	35.4	71	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	33.3	67	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	57.8	116	40-133	
Hexachloro-1,3-butadiene	ug/L	50	37.9	76	44-116	
Hexachlorocyclopentadiene	ug/L	100	68.5	68	24-120	
Hexachloroethane	ug/L	50	37.1	74	43-113	
Naphthalene	ug/L	50	40.3	81	48-120	
Nitrobenzene	ug/L	50	43.1	86	48-120	
Pentachlorophenol	ug/L	50	54.4	109	47-120	
Phenol	ug/L	50	16.5	33	16-112	
2,4,6-Tribromophenol (S)	%			106	39-120	
2-Fluorobiphenyl (S)	%			88	39-120	
2-Fluorophenol (S)	%			45	17-120	
Nitrobenzene-d5 (S)	%			85	33-120	
Phenol-d6 (S)	%			31	11-120	
Terphenyl-d14 (S)	%			98	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-16-14

Pace Project No.: 60167212

MATRIX SPIKE SAMPLE:		1365050					
Parameter	Units	60167211001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	37.9	76	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	50.4	101	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	50	46.2	92	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	89.3	50	122	65	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	50	52.5	105	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	38.9	78	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	79.6	80	11-120	
Hexachloroethane	ug/L	ND	50	40.9	82	40-113	
Naphthalene	ug/L	14.8	50	52.9	76	45-120	
Nitrobenzene	ug/L	ND	50	48.5	97	38-120	
Pentachlorophenol	ug/L	ND	50	58.4	117	43-135	
Phenol	ug/L	134	50	149	30	13-112	
2,4,6-Tribromophenol (S)	%				111	39-120	
2-Fluorobiphenyl (S)	%				91	39-120	
2-Fluorophenol (S)	%				52	17-120	
Nitrobenzene-d5 (S)	%				154	33-120	S0
Phenol-d6 (S)	%				39	11-120	
Terphenyl-d14 (S)	%				92	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-16-14

Pace Project No.: 60167212

QC Batch:	WET/47400	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60167212001		

METHOD BLANK: 1363217 Matrix: Water

Associated Lab Samples: 60167212001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/18/14 13:09	

LABORATORY CONTROL SAMPLE: 1363218

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: 1363223

Parameter	Units	60166883002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	50.6	46.8	88	78-114	

SAMPLE DUPLICATE: 1363221

Parameter	Units	60166821002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	3J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-16-14

Pace Project No.: 60167212

QC Batch: WET/47483

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60167212001

METHOD BLANK: 1365814

Matrix: Water

Associated Lab Samples: 60167212001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	04/24/14 07:52	

LABORATORY CONTROL SAMPLE: 1365815

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	19.1	96	64-132	

MATRIX SPIKE SAMPLE: 1365816

Parameter	Units	60167211001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	7.6	80	44.8	46	64-132	M1

SAMPLE DUPLICATE: 1365817

Parameter	Units	60167212001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	6.0	5.2	14	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-16-14

Pace Project No.: 60167212

QC Batch: WET/47361

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60167212001

METHOD BLANK: 1361997

Matrix: Water

Associated Lab Samples: 60167212001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/17/14 10:57	

SAMPLE DUPLICATE: 1361998

Parameter	Units	60167160002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 1361999

Parameter	Units	60167022003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	127	128	1	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-16-14

Pace Project No.: 60167212

QC Batch: WET/47403 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60167212001

SAMPLE DUPLICATE: 1363741

Parameter	Units	60167225004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.6	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-16-14

Pace Project No.: 60167212

QC Batch: WET/47358

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60167212001

METHOD BLANK: 1361983

Matrix: Water

Associated Lab Samples: 60167212001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/22/14 11:48	

LABORATORY CONTROL SAMPLE: 1361984

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

SAMPLE DUPLICATE: 1361985

Parameter	Units	60167118002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	11.9	11.1	6	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-16-14

Pace Project No.: 60167212

QC Batch: WETA/29057

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60167212001

METHOD BLANK: 1362821

Matrix: Water

Associated Lab Samples: 60167212001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/18/14 08:53	

LABORATORY CONTROL SAMPLE: 1362822

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

MATRIX SPIKE SAMPLE: 1362824

Parameter	Units	60167118002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.0	102	90-110	

MATRIX SPIKE SAMPLE: 1362825

Parameter	Units	60167218007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.31	2	1.7	67	90-110	M1

SAMPLE DUPLICATE: 1362823

Parameter	Units	60167113002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	3.9	3.9	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-16-14

Pace Project No.: 60167212

QC Batch:	WETA/29116	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60167212001		

METHOD BLANK: 1365557 Matrix: Water
Associated Lab Samples: 60167212001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	04/24/14 10:50	

LABORATORY CONTROL SAMPLE: 1365558

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	45.3	91	90-110	

MATRIX SPIKE SAMPLE: 1365559

Parameter	Units	60166887001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	9990	5000	13900	79	90-110	M1

MATRIX SPIKE SAMPLE: 1365561

Parameter	Units	60167212001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	58400	25000	76300	72	90-110	M1

SAMPLE DUPLICATE: 1365560

Parameter	Units	60166887005 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	7640	7350	4	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF CB 04-16-14
Pace Project No.: 60167212

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/60905

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

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

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.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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

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 CB 04-16-14

Pace Project No.: 60167212

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60167212001	CB 04-16-14	EPA 200.7	MPRP/26892	EPA 200.7	ICP/20430
60167212001	CB 04-16-14	EPA 200.7	MPRP/26927	EPA 200.7	ICP/20442
60167212001	CB 04-16-14	EPA 245.1	MERP/8322	EPA 245.1	MERC/8275
60167212001	CB 04-16-14	EPA 245.1	MERP/8327	EPA 245.1	MERC/8282
60167212001	CB 04-16-14	EPA 625	OEXT/43807	EPA 625	MSSV/13983
60167212001	CB 04-16-14	EPA 624 Low	MSV/60905		
60167212001	CB 04-16-14	EPA 624 Low	MSV/60926		
60167212002	TRIP BLANK	EPA 624 Low	MSV/60905		
60167212001	CB 04-16-14	EPA 1664A	WET/47400		
60167212001	CB 04-16-14	EPA 1664A	WET/47483		
60167212001	CB 04-16-14	SM 2540D	WET/47361		
60167212001	CB 04-16-14	SM 4500-H+B	WET/47403		
60167212001	CB 04-16-14	SM 5210B	WET/47358	SM 5210B	WET/47437
60167212001	CB 04-16-14	EPA 350.1	WETA/29057		
60167212001	CB 04-16-14	EPA 410.4	WETA/29116		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60167212



60167212

Client Name: Barr Eng

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 ☒ 2 pc

Thermometer Used: T-239 / T-194

Type of Ice: Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 36

Date and initials of person examining contents: 4/17/14 BA

Temperature should be above freezing to 6°C

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

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:

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

[illegible]

SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: WILLIAM ABERNATHY SIGNATURE of SAMPLER: <i>[Signature]</i>		TEMP in C Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)
DATE Signed: 4/16/14		

April 30, 2014

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

RE: Project: BRIDGETON TCLP SLUDGE
Pace Project No.: 60167226

Dear Ed Galbraith:

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

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

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.
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON TCLP SLUDGE

Pace Project No.: 60167226

New Orleans Certification IDs

California Env. Lab Accreditation Program Branch:
11277CA

Florida Department of Health (NELAC): E87595

Illinois Environmental Protection Agency: 0025721

Kansas Department of Health and Environment (NELAC):

E-10266

Louisiana Dept. of Environmental Quality (NELAC/LELAP):

02006

Oklahoma Department of Environmental Quality: 2010-
139

Oregon Environmental Laboratory Accreditation:

LA200001

Pennsylvania Dept. of Env Protection (NELAC): 68-04202

Texas Commission on Env. Quality (NELAC):

T104704405-09-TX

U.S. Dept. of Agriculture Foreign Soil Import: P330-10-
00119

Washington Department of Ecology: C2078

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 TCLP SLUDGE

Pace Project No.: 60167226

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60167226001	BTF SLUDGE	Solid	04/16/14 13:24	04/17/14 00:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON TCLP SLUDGE

Pace Project No.: 60167226

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60167226001	BTF SLUDGE	EPA 8081	TA	9	PASI-D
		EPA 8082	JDH	8	PASI-K
		EPA 8151	PMS	3	PASI-D
		EPA 6010	JGP	7	PASI-K
		EPA 7470	TDS	1	PASI-K
		EPA 8270	JMT	18	PASI-K
		EPA 8260	JKL	13	PASI-K
		ASTM D2974	DWC	1	PASI-K
		SW-846 7.3.4.2	LJL	1	PASI-N
		EPA 9045	DJR	1	PASI-K
		ASTM D92	DJR	1	PASI-K
		SW-846 7.3.3.2	LVA	1	PASI-N
		EPA 9023	JRP	1	PASI-N
		EPA 9065	LVA	1	PASI-N

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: BRIDGETON TCLP SLUDGE

Pace Project No.: 60167226

Date: April 30, 2014

The sample BTF Sludge was initially analyzed at Pace KS for PCBs EPA 8082, yielding high reporting limits due to the sample matrix. The raw sample was sent to Pace Indianapolis-East and the sample was extracted again for method EPA 8082, however using a sonication method as opposed to the microwave digestion method. The extract underwent several additional steps including sulfuric acid, permanganate, florisil and sulfur clean ups. Notes from the laboratory indicate a very strong solvent odor is present.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON TCLP SLUDGE

Pace Project No.: 60167226

Sample: BTF SLUDGE **Lab ID: 60167226001** Collected: 04/16/14 13:24 Received: 04/17/14 00:55 Matrix: Solid

Results reported on a "dry-weight" basis

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									
Leachate Method/Date: EPA 1311; 04/17/14 17:20									
gamma-BHC (Lindane)	ND	mg/L	0.00020	.4	1	04/22/14 17:45	04/23/14 13:55	58-89-9	M1
Chlordane (Technical)	ND	mg/L	0.0050	.03	1	04/22/14 17:45	04/23/14 13:55	57-74-9	
Endrin	ND	mg/L	0.00020	.02	1	04/22/14 17:45	04/23/14 13:55	72-20-8	
Heptachlor	ND	mg/L	0.00020	.008	1	04/22/14 17:45	04/23/14 13:55	76-44-8	
Heptachlor epoxide	ND	mg/L	0.00050	.008	1	04/22/14 17:45	04/23/14 13:55	1024-57-3	
Methoxychlor	ND	mg/L	0.00050	10	1	04/22/14 17:45	04/23/14 13:55	72-43-5	
Toxaphene	ND	mg/L	0.010	.5	1	04/22/14 17:45	04/23/14 13:55	8001-35-2	
Surrogates									
Decachlorobiphenyl (S)	105 %		40-140		1	04/22/14 17:45	04/23/14 13:55	2051-24-3	
Tetrachloro-m-xylene (S)	67 %		40-140		1	04/22/14 17:45	04/23/14 13:55	877-09-8	
8082 GCS PCB SW									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	1290000		500	04/21/14 00:00	04/22/14 22:58	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	2580000		500	04/21/14 00:00	04/22/14 22:58	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	1290000		500	04/21/14 00:00	04/22/14 22:58	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	1290000		500	04/21/14 00:00	04/22/14 22:58	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	1290000		500	04/21/14 00:00	04/22/14 22:58	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	1290000		500	04/21/14 00:00	04/22/14 22:58	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	1290000		500	04/21/14 00:00	04/22/14 22:58	11096-82-5	
Surrogates									
Decachlorobiphenyl (S)	0 %		38-119		500	04/21/14 00:00	04/22/14 22:58	2051-24-3	CL,D3, S4
8151 Chlorinate Herbicide TCLP									
Analytical Method: EPA 8151 Preparation Method: EPA 8151									
Leachate Method/Date: EPA 1311; 04/17/14 17:20									
2,4-D	ND	mg/L	0.00050	10	1	04/22/14 15:00	04/23/14 13:47	94-75-7	M1
2,4,5-TP (Silvex)	ND	mg/L	0.00050	1	1	04/22/14 15:00	04/23/14 13:47	93-72-1	M1
Surrogates									
2,4-DCAA (S)	164 %		40-140		1	04/22/14 15:00	04/23/14 13:47	19719-28-9	S3
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 04/18/14 00:00									
Arsenic	ND	mg/L	0.50	5	1	04/18/14 15:30	04/21/14 10:35	7440-38-2	
Barium	ND	mg/L	2.5	100	1	04/18/14 15:30	04/21/14 10:35	7440-39-3	
Cadmium	ND	mg/L	0.050	1	1	04/18/14 15:30	04/21/14 10:35	7440-43-9	
Chromium	ND	mg/L	0.10	5	1	04/18/14 15:30	04/21/14 10:35	7440-47-3	
Lead	ND	mg/L	0.50	5	1	04/18/14 15:30	04/21/14 10:35	7439-92-1	
Selenium	ND	mg/L	0.50	1	1	04/18/14 15:30	04/21/14 10:35	7782-49-2	
Silver	ND	mg/L	0.10	5	1	04/18/14 15:30	04/21/14 10:35	7440-22-4	
7470 Mercury, TCLP									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 04/18/14 00:00									
Mercury	ND	mg/L	0.0020	.2	1	04/21/14 10:45	04/21/14 14:41	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON TCLP SLUDGE

Pace Project No.: 60167226

Sample: BTF SLUDGE **Lab ID: 60167226001** Collected: 04/16/14 13:24 Received: 04/17/14 00:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV TCLP Sep Funnel									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Leachate Method/Date: EPA 1311; 04/18/14 00:00									
1,4-Dichlorobenzene	ND	ug/L	200	7500	2	04/19/14 00:00	04/22/14 17:58	106-46-7	
2,4-Dinitrotoluene	ND	ug/L	200	130	2	04/19/14 00:00	04/22/14 17:58	121-14-2	
Hexachloro-1,3-butadiene	ND	ug/L	200	500	2	04/19/14 00:00	04/22/14 17:58	87-68-3	
Hexachlorobenzene	ND	ug/L	200	130	2	04/19/14 00:00	04/22/14 17:58	118-74-1	
Hexachloroethane	ND	ug/L	200	3000	2	04/19/14 00:00	04/22/14 17:58	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	200	200000	2	04/19/14 00:00	04/22/14 17:58	95-48-7	
3&4-Methylphenol(m&p Cresol)	2000	ug/L	400	200000	2	04/19/14 00:00	04/22/14 17:58		
Nitrobenzene	ND	ug/L	200	2000	2	04/19/14 00:00	04/22/14 17:58	98-95-3	
Pentachlorophenol	ND	ug/L	1000	100000	2	04/19/14 00:00	04/22/14 17:58	87-86-5	
Pyridine	ND	ug/L	200	5000	2	04/19/14 00:00	04/22/14 17:58	110-86-1	
2,4,5-Trichlorophenol	ND	ug/L	1000	400000	2	04/19/14 00:00	04/22/14 17:58	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	200	2000	2	04/19/14 00:00	04/22/14 17:58	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	119	%	44-120		2	04/19/14 00:00	04/22/14 17:58	4165-60-0	
2-Fluorobiphenyl (S)	88	%	49-120		2	04/19/14 00:00	04/22/14 17:58	321-60-8	
Terphenyl-d14 (S)	81	%	52-122		2	04/19/14 00:00	04/22/14 17:58	1718-51-0	
Phenol-d6 (S)	88	%	36-120		2	04/19/14 00:00	04/22/14 17:58	13127-88-3	
2-Fluorophenol (S)	84	%	37-120		2	04/19/14 00:00	04/22/14 17:58	367-12-4	
2,4,6-Tribromophenol (S)	92	%	36-128		2	04/19/14 00:00	04/22/14 17:58	118-79-6	
8260 MSV TCLP									
Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 04/18/14 00:00									
Benzene	1200	ug/L	250	500	5		04/19/14 05:51	71-43-2	
2-Butanone (MEK)	ND	ug/L	5000	200000	5		04/19/14 05:51	78-93-3	
Carbon tetrachloride	ND	ug/L	250	500	5		04/19/14 05:51	56-23-5	
Chlorobenzene	ND	ug/L	250	100000	5		04/19/14 05:51	108-90-7	
Chloroform	ND	ug/L	1000	6000	5		04/19/14 05:51	67-66-3	
1,2-Dichloroethane	ND	ug/L	250	500	5		04/19/14 05:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	250	700	5		04/19/14 05:51	75-35-4	
Tetrachloroethene	ND	ug/L	250	700	5		04/19/14 05:51	127-18-4	
Trichloroethene	ND	ug/L	250	500	5		04/19/14 05:51	79-01-6	
Vinyl chloride	ND	ug/L	100	200	5		04/19/14 05:51	75-01-4	L3
Surrogates									
1,2-Dichloroethane-d4 (S)	100	%	80-120		5		04/19/14 05:51	17060-07-0	
Toluene-d8 (S)	100	%	80-120		5		04/19/14 05:51	2037-26-5	
4-Bromofluorobenzene (S)	106	%	80-120		5		04/19/14 05:51	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	65.7	%	0.50		1		04/21/14 00:00		
Reactive Sulfide									
Analytical Method: SW-846 7.3.4.2 Preparation Method: SW-846 7.3.4.2									
Sulfide, Reactive	ND	mg/kg	50.0		1	04/28/14 09:00	04/28/14 15:51		
9045 pH Soil									
Analytical Method: EPA 9045									
pH at 25 Degrees C	5.7	Std. Units	0.10		1		04/19/14 09:45		H1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON TCLP SLUDGE

Pace Project No.: 60167226

Sample: BTF SLUDGE **Lab ID: 60167226001** Collected: 04/16/14 13:24 Received: 04/17/14 00:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Flashpoint, Open Cup Analytical Method: ASTM D92									
Flashpoint	>210	deg F			1		04/23/14 07:45		
733C S Reactive Cyanide Analytical Method: SW-846 7.3.3.2 Preparation Method: SW-846 7.3.3.2									
Cyanide, Reactive	ND	mg/kg	25.0		1	04/28/14 09:00	04/29/14 14:13		
9023 Ext. Organic Halides EOX Analytical Method: EPA 9023 Preparation Method: EPA 9023									
Extractable Organic Halogens	2550	mg/kg	151		1	04/24/14 14:00	04/24/14 15:40		
9065 Phenolics, Total Analytical Method: EPA 9065 Preparation Method: EPA 9065									
Phenolics, Total Recoverable	1820	mg/kg	429		1000	04/29/14 09:30	04/30/14 10:23		D6,M6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP SLUDGE

Pace Project No.: 60167226

QC Batch: MERP/8313

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury TCLP

Associated Lab Samples: 60167226001

METHOD BLANK: 1364089

Matrix: Water

Associated Lab Samples: 60167226001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	ND	0.0020	04/21/14 14:32	

LABORATORY CONTROL SAMPLE: 1364090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.005	0.0049	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1364091 1364092

Parameter	Units	60167153001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	.015	.015	0.014	0.016	96	106	75-125	10	20	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP SLUDGE

Pace Project No.: 60167226

QC Batch: MPRP/26910

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET TCLP

Associated Lab Samples: 60167226001

METHOD BLANK: 1363437

Matrix: Water

Associated Lab Samples: 60167226001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.50	04/21/14 09:48	
Barium	mg/L	ND	2.5	04/21/14 09:48	
Cadmium	mg/L	ND	0.050	04/21/14 09:48	
Chromium	mg/L	ND	0.10	04/21/14 09:48	
Lead	mg/L	ND	0.50	04/21/14 09:48	
Selenium	mg/L	ND	0.50	04/21/14 09:48	
Silver	mg/L	ND	0.10	04/21/14 09:48	

LABORATORY CONTROL SAMPLE: 1363438

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	1	0.93	93	80-120	
Barium	mg/L	1	0.96	96	80-120	
Cadmium	mg/L	1	0.95	95	80-120	
Chromium	mg/L	1	0.97	97	80-120	
Lead	mg/L	1	0.98	98	80-120	
Selenium	mg/L	1	0.94	94	80-120	
Silver	mg/L	.5	0.47	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1363439 1363440

Parameter	Units	60166631001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	10	10	10.1	9.9	101	99	75-125	2	20	
Barium	mg/L	ND	10	10	9.6	9.3	95	92	75-125	3	20	
Cadmium	mg/L	ND	10	10	10.1	10	100	99	75-125	1	20	
Chromium	mg/L	ND	10	10	9.2	9.5	92	94	75-125	3	20	
Lead	mg/L	ND	10	10	9.1	9.1	88	88	75-125	0	20	
Selenium	mg/L	ND	10	10	10.4	10.2	104	101	75-125	3	20	
Silver	mg/L	ND	5	5	5.3	5.2	105	104	75-125	1	20	

MATRIX SPIKE SAMPLE: 1363441

Parameter	Units	60166912003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	ND	10	9.4	93	75-125	
Barium	mg/L	ND	10	9.5	91	75-125	
Cadmium	mg/L	130 ug/L	10	9.6	94	75-125	
Chromium	mg/L	ND	10	9.3	93	75-125	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP SLUDGE

Pace Project No.: 60167226

MATRIX SPIKE SAMPLE:		1363441					
		60166912003	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Lead	mg/L	1.6	10	10.6	90	75-125	
Selenium	mg/L	ND	10	9.6	96	75-125	
Silver	mg/L	ND	5	4.7	95	75-125	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP SLUDGE

Pace Project No.: 60167226

QC Batch: MSV/60943

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV TCLP

Associated Lab Samples: 60167226001

METHOD BLANK: 1363403

Matrix: Water

Associated Lab Samples: 60167226001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	04/19/14 04:04	
1,2-Dichloroethane	ug/L	ND	50.0	04/19/14 04:04	
2-Butanone (MEK)	ug/L	ND	1000	04/19/14 04:04	
Benzene	ug/L	ND	50.0	04/19/14 04:04	
Carbon tetrachloride	ug/L	ND	50.0	04/19/14 04:04	
Chlorobenzene	ug/L	ND	50.0	04/19/14 04:04	
Chloroform	ug/L	ND	200	04/19/14 04:04	
Tetrachloroethene	ug/L	ND	50.0	04/19/14 04:04	
Trichloroethene	ug/L	ND	50.0	04/19/14 04:04	
Vinyl chloride	ug/L	ND	20.0	04/19/14 04:04	
1,2-Dichloroethane-d4 (S)	%	99	80-120	04/19/14 04:04	
4-Bromofluorobenzene (S)	%	99	80-120	04/19/14 04:04	
Toluene-d8 (S)	%	102	80-120	04/19/14 04:04	

LABORATORY CONTROL SAMPLE: 1363404

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	1000	1180	118	78-126	
1,2-Dichloroethane	ug/L	1000	976	98	77-123	
2-Butanone (MEK)	ug/L	5000	4800	96	52-145	
Benzene	ug/L	1000	938	94	80-120	
Carbon tetrachloride	ug/L	1000	1070	107	78-128	
Chlorobenzene	ug/L	1000	963	96	80-120	
Chloroform	ug/L	1000	958	96	79-120	
Tetrachloroethene	ug/L	1000	982	98	80-121	
Trichloroethene	ug/L	1000	1010	101	80-120	
Vinyl chloride	ug/L	1000	1460	146	59-120 L0	
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			104	80-120	
Toluene-d8 (S)	%			102	80-120	

MATRIX SPIKE SAMPLE: 1363405

Parameter	Units	60166926001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	5000	5000	100	60-144	
1,2-Dichloroethane	ug/L	ND	5000	4540	91	49-148	
2-Butanone (MEK)	ug/L	ND	25000	23200	93	36-145	
Benzene	ug/L	ND	5000	4360	87	37-157	
Carbon tetrachloride	ug/L	ND	5000	4900	98	68-142	
Chlorobenzene	ug/L	ND	5000	4540	91	66-133	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP SLUDGE

Pace Project No.: 60167226

MATRIX SPIKE SAMPLE:		1363405					
Parameter	Units	60166926001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloroform	ug/L	ND	5000	4410	88	66-127	
Tetrachloroethene	ug/L	ND	5000	4600	92	69-133	
Trichloroethene	ug/L	ND	5000	4670	93	61-135	
Vinyl chloride	ug/L	ND	5000	4260	85	44-128	
1,2-Dichloroethane-d4 (S)	%				102	80-120	
4-Bromofluorobenzene (S)	%				100	80-120	
Toluene-d8 (S)	%				103	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP SLUDGE

Pace Project No.: 60167226

QC Batch:	OEXT/3760	Analysis Method:	EPA 8081
QC Batch Method:	EPA 3510	Analysis Description:	8081 GCS TCLP Pesticides
Associated Lab Samples:	60167226001		

METHOD BLANK: 72048 Matrix: Water

Associated Lab Samples: 60167226001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chlordane (Technical)	mg/L	ND	0.00050	04/23/14 11:46	
Endrin	mg/L	ND	0.000020	04/23/14 11:46	
gamma-BHC (Lindane)	mg/L	ND	0.000020	04/23/14 11:46	
Heptachlor	mg/L	ND	0.000020	04/23/14 11:46	
Heptachlor epoxide	mg/L	ND	0.000050	04/23/14 11:46	
Methoxychlor	mg/L	ND	0.000050	04/23/14 11:46	
Toxaphene	mg/L	ND	0.0010	04/23/14 11:46	
Decachlorobiphenyl (S)	%	93	40-140	04/23/14 11:46	
Tetrachloro-m-xylene (S)	%	92	40-140	04/23/14 11:46	

LABORATORY CONTROL SAMPLE: 72049

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlordane (Technical)	mg/L		ND			
Endrin	mg/L	.001	0.0013	129	40-140	
gamma-BHC (Lindane)	mg/L	.001	0.0012	117	40-140	
Heptachlor	mg/L	.001	0.0011	110	40-140	
Heptachlor epoxide	mg/L	.001	0.0011	110	40-140	
Methoxychlor	mg/L	.001	0.0011	113	40-140	
Toxaphene	mg/L		ND			
Decachlorobiphenyl (S)	%			96	40-140	
Tetrachloro-m-xylene (S)	%			86	40-140	

MATRIX SPIKE SAMPLE: 72050

Parameter	Units	60167226001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chlordane (Technical)	mg/L		ND	ND			
Endrin	mg/L		ND	.01	0.022	217	40-140 M1
gamma-BHC (Lindane)	mg/L		ND	.01	0.011	107	40-140
Heptachlor	mg/L		ND	.01	0.012	125	40-140
Heptachlor epoxide	mg/L		ND	.01	0.012	124	40-140
Methoxychlor	mg/L		ND	.01	0.014	135	40-140
Toxaphene	mg/L		ND	ND			
Decachlorobiphenyl (S)	%					114	40-140
Tetrachloro-m-xylene (S)	%					65	40-140

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP SLUDGE

Pace Project No.: 60167226

QC Batch: OEXT/43774

Analysis Method: EPA 8082

QC Batch Method: EPA 3546

Analysis Description: 8082 GCS PCB

Associated Lab Samples: 60167226001

METHOD BLANK: 1364049

Matrix: Solid

Associated Lab Samples: 60167226001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	32.6	04/22/14 20:05	
PCB-1221 (Aroclor 1221)	ug/kg	ND	65.3	04/22/14 20:05	
PCB-1232 (Aroclor 1232)	ug/kg	ND	32.6	04/22/14 20:05	
PCB-1242 (Aroclor 1242)	ug/kg	ND	32.6	04/22/14 20:05	
PCB-1248 (Aroclor 1248)	ug/kg	ND	32.6	04/22/14 20:05	
PCB-1254 (Aroclor 1254)	ug/kg	ND	32.6	04/22/14 20:05	
PCB-1260 (Aroclor 1260)	ug/kg	ND	32.6	04/22/14 20:05	
Decachlorobiphenyl (S)	%	98	38-119	04/22/14 20:05	

LABORATORY CONTROL SAMPLE: 1364050

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	165	166	101	71-122	
PCB-1260 (Aroclor 1260)	ug/kg	165	172	104	75-117	
Decachlorobiphenyl (S)	%			97	38-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1364051 1364052

Parameter	Units	60167441003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
PCB-1016 (Aroclor 1016)	ug/kg	ND	165	164	590	457	358	279	20-160	25	35	M1
PCB-1260 (Aroclor 1260)	ug/kg	0.084 mg/kg	165	164	255	245	103	98	17-160	4	34	
Decachlorobiphenyl (S)	%						84	87	38-119			

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP SLUDGE

Pace Project No.: 60167226

QC Batch: OEXT/3758

Analysis Method: EPA 8151

QC Batch Method: EPA 8151

Analysis Description: 8151 GCS TCLP Herbicides

Associated Lab Samples: 60167226001

METHOD BLANK: 72014

Matrix: Water

Associated Lab Samples: 60167226001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	mg/L	ND	0.000050	04/23/14 12:12	
2,4-D	mg/L	ND	0.000050	04/23/14 12:12	
2,4-DCAA (S)	%.	109	40-140	04/23/14 12:12	

LABORATORY CONTROL SAMPLE: 72015

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	mg/L	.002	0.0023	113	10-140	
2,4-D	mg/L	.002	0.0023	117	40-140	
2,4-DCAA (S)	%.			132	40-140	

MATRIX SPIKE SAMPLE: 72016

Parameter	Units	60167226001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	mg/L	ND	.02	0.029	145	10-140	M1
2,4-D	mg/L	ND	.02	0.043	213	40-140	M1
2,4-DCAA (S)	%.				163	40-140	S0

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP SLUDGE

Pace Project No.: 60167226

QC Batch: OEXT/43754

Analysis Method: EPA 8270

QC Batch Method: EPA 3510

Analysis Description: 8270 TCLP MSSV

Associated Lab Samples: 60167226001

METHOD BLANK: 1363805

Matrix: Water

Associated Lab Samples: 60167226001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	100	04/21/14 09:46	
2,4,5-Trichlorophenol	ug/L	ND	500	04/21/14 09:46	
2,4,6-Trichlorophenol	ug/L	ND	100	04/21/14 09:46	
2,4-Dinitrotoluene	ug/L	ND	100	04/21/14 09:46	
2-Methylphenol(o-Cresol)	ug/L	ND	100	04/21/14 09:46	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	200	04/21/14 09:46	
Hexachloro-1,3-butadiene	ug/L	ND	100	04/21/14 09:46	
Hexachlorobenzene	ug/L	ND	100	04/21/14 09:46	
Hexachloroethane	ug/L	ND	100	04/21/14 09:46	
Nitrobenzene	ug/L	ND	100	04/21/14 09:46	
Pentachlorophenol	ug/L	ND	500	04/21/14 09:46	
Pyridine	ug/L	ND	100	04/21/14 09:46	
2,4,6-Tribromophenol (S)	%	121	36-128	04/21/14 09:46	
2-Fluorobiphenyl (S)	%	104	49-120	04/21/14 09:46	
2-Fluorophenol (S)	%	86	37-120	04/21/14 09:46	
Nitrobenzene-d5 (S)	%	86	44-120	04/21/14 09:46	
Phenol-d6 (S)	%	85	36-120	04/21/14 09:46	
Terphenyl-d14 (S)	%	105	52-122	04/21/14 09:46	

LABORATORY CONTROL SAMPLE: 1363806

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	500	389	78	47-120	
2,4,5-Trichlorophenol	ug/L	500	449J	90	51-124	
2,4,6-Trichlorophenol	ug/L	500	430	86	46-120	
2,4-Dinitrotoluene	ug/L	500	347	69	38-120	
2-Methylphenol(o-Cresol)	ug/L	500	362	72	46-120	
3&4-Methylphenol(m&p Cresol)	ug/L	1000	703	70	41-120	
Hexachloro-1,3-butadiene	ug/L	500	404	81	49-120	
Hexachlorobenzene	ug/L	500	441	88	50-120	
Hexachloroethane	ug/L	500	371	74	38-120	
Nitrobenzene	ug/L	500	329	66	49-120	
Pentachlorophenol	ug/L	500	483J	97	35-125	
Pyridine	ug/L	500	248	50	10-120	
2,4,6-Tribromophenol (S)	%			99	36-128	
2-Fluorobiphenyl (S)	%			84	49-120	
2-Fluorophenol (S)	%			74	37-120	
Nitrobenzene-d5 (S)	%			69	44-120	
Phenol-d6 (S)	%			69	36-120	
Terphenyl-d14 (S)	%			83	52-122	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP SLUDGE

Pace Project No.: 60167226

MATRIX SPIKE SAMPLE:		1363807					
Parameter	Units	60166926001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	500	424	85	48-120	
2,4,5-Trichlorophenol	ug/L	ND	500	515	103	57-120	
2,4,6-Trichlorophenol	ug/L	ND	500	485	97	48-120	
2,4-Dinitrotoluene	ug/L	ND	500	403	81	38-120	
2-Methylphenol(o-Cresol)	ug/L	ND	500	378	76	48-120	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	1000	780	78	47-120	
Hexachloro-1,3-butadiene	ug/L	ND	500	452	90	49-120	
Hexachlorobenzene	ug/L	ND	500	427	85	53-120	
Hexachloroethane	ug/L	ND	500	425	85	38-120	
Nitrobenzene	ug/L	ND	500	361	72	51-120	
Pentachlorophenol	ug/L	ND	500	561	112	34-131	
Pyridine	ug/L	ND	500	349	70	10-120	
2,4,6-Tribromophenol (S)	%				107	36-128	
2-Fluorobiphenyl (S)	%				92	49-120	
2-Fluorophenol (S)	%				73	37-120	
Nitrobenzene-d5 (S)	%				76	44-120	
Phenol-d6 (S)	%				74	36-120	
Terphenyl-d14 (S)	%				84	52-122	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP SLUDGE

Pace Project No.: 60167226

QC Batch:	PMST/9594	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	60167226001		

METHOD BLANK: 1364015

Matrix: Solid

Associated Lab Samples: 60167226001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	04/21/14 00:00	

SAMPLE DUPLICATE: 1364016

Parameter	Units	10262448001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.6	15.6	0	20	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP SLUDGE

Pace Project No.: 60167226

QC Batch:	WET/1651	Analysis Method:	SW-846 7.3.4.2
QC Batch Method:	SW-846 7.3.4.2	Analysis Description:	Reactive Sulfide
Associated Lab Samples:	60167226001		

METHOD BLANK: 12484

Matrix: Solid

Associated Lab Samples: 60167226001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Reactive	mg/kg	ND	50.0	04/28/14 15:40	

LABORATORY CONTROL SAMPLE: 12485

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Reactive	mg/kg	500	441	88	1-110	

MATRIX SPIKE SAMPLE: 12487

Parameter	Units	202723001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Reactive	mg/kg	ND	500	441	84	1-110	

SAMPLE DUPLICATE: 12486

Parameter	Units	202723001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Reactive	mg/kg	ND	ND		20	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP SLUDGE

Pace Project No.: 60167226

QC Batch: WET/47406 Analysis Method: EPA 9045

QC Batch Method: EPA 9045 Analysis Description: 9045 pH

Associated Lab Samples: 60167226001

SAMPLE DUPLICATE: 1363763

Parameter	Units	60167316003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.6	1	3	

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP SLUDGE

Pace Project No.: 60167226

QC Batch:	WETA/1522	Analysis Method:	SW-846 7.3.3.2
QC Batch Method:	SW-846 7.3.3.2	Analysis Description:	733C Reactive Cyanide
Associated Lab Samples:	60167226001		

METHOD BLANK: 12494 Matrix: Solid

Associated Lab Samples: 60167226001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide, Reactive	mg/kg	ND	25.0	04/29/14 14:13	

LABORATORY CONTROL SAMPLE: 12495

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide, Reactive	mg/kg	100	ND	24	1-110	

MATRIX SPIKE SAMPLE: 12497

Parameter	Units	202723001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cyanide, Reactive	mg/kg	ND	100	ND	9	1-110	

SAMPLE DUPLICATE: 12496

Parameter	Units	202723001 Result	Dup Result	RPD	Max RPD	Qualifiers
Cyanide, Reactive	mg/kg	ND	ND		20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP SLUDGE

Pace Project No.: 60167226

QC Batch: WETA/1503

Analysis Method: EPA 9023

QC Batch Method: EPA 9023

Analysis Description: 9023 Extractable Organic Halides EOX

Associated Lab Samples: 60167226001

METHOD BLANK: 11822

Matrix: Solid

Associated Lab Samples: 60167226001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Extractable Organic Halogens	mg/kg	ND	49.2	04/24/14 15:27	

LABORATORY CONTROL SAMPLE: 11823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Extractable Organic Halogens	mg/kg	988	885	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 11827

11828

Parameter	Units	60167534001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Extractable Organic Halogens	mg/kg	106	1100	1160	1160	1310	96	104	75-125	12	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON TCLP SLUDGE

Pace Project No.: 60167226

QC Batch: WETA/1545

Analysis Method: EPA 9065

QC Batch Method: EPA 9065

Analysis Description: 9065 Phenolics

Associated Lab Samples: 60167226001

METHOD BLANK: 12822

Matrix: Solid

Associated Lab Samples: 60167226001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	mg/kg	ND	0.15	04/30/14 10:23	

LABORATORY CONTROL SAMPLE: 12823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	mg/kg	2.5	2.8	111	80-120	

MATRIX SPIKE SAMPLE: 12825

Parameter	Units	60167226001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	mg/kg	1820	6.71	148	-24500	75-125	M6

SAMPLE DUPLICATE: 12824

Parameter	Units	60167226001 Result	Dup Result	RPD	Max RPD	Qualifiers
Phenolics, Total Recoverable	mg/kg	1820	2620	36	20	D6

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON TCLP SLUDGE
Pace Project No.: 60167226

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
 PASI-N Pace Analytical Services - New Orleans

ANALYTE QUALIFIERS

CL The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
 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.
 H1 Analysis conducted outside the EPA method holding time.
 L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
 L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
 M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
 M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
 S0 Surrogate recovery outside laboratory control limits.
 S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
 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 TCLP SLUDGE

Pace Project No.: 60167226

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60167226001	BTF SLUDGE	EPA 3510	OEXT/3760	EPA 8081	GCSV/2468
60167226001	BTF SLUDGE	EPA 3546	OEXT/43774	EPA 8082	GCSV/16668
60167226001	BTF SLUDGE	EPA 8151	OEXT/3758	EPA 8151	GCSV/2467
60167226001	BTF SLUDGE	EPA 3010	MPRP/26910	EPA 6010	ICP/20429
60167226001	BTF SLUDGE	EPA 7470	MERP/8313	EPA 7470	MERC/8269
60167226001	BTF SLUDGE	EPA 3510	OEXT/43754	EPA 8270	MSSV/13965
60167226001	BTF SLUDGE	EPA 8260	MSV/60943		
60167226001	BTF SLUDGE	ASTM D2974	PMST/9594		
60167226001	BTF SLUDGE	SW-846 7.3.4.2	WET/1651	SW-846 7.3.4.2	WET/1669
60167226001	BTF SLUDGE	EPA 9045	WET/47406		
60167226001	BTF SLUDGE	ASTM D92	WET/47448		
60167226001	BTF SLUDGE	SW-846 7.3.3.2	WETA/1522	SW-846 7.3.3.2	WETA/1539
60167226001	BTF SLUDGE	EPA 9023	WETA/1503	EPA 9023	WETA/1504
60167226001	BTF SLUDGE	EPA 9065	WETA/1545	EPA 9065	WETA/1553

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO# : 60167226



Name: Barr Engineering

Carrier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☒ X-Packs

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

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

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

Thermometer Used: T-239 / T-194

Type of Ice: Wet Blue ☐ None ☐ Samples received on ice, cooling process has begun.
(circle one)

Air Temperature: 5.6

Temperature should be above freezing to 6°C

Date and initials of person examining contents: 4/10/14 JD

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

Section A

Required Client Information:

Company: **BARR ENGINEERING**

Address:

Email To:

Phone: Fax:

Requested Due Date/TAT:

Section B

Required Project Information:

Report To: **ED GALBRAITH/BARR**

Copy To: **SCOTT FEDAK/FEEZOR**

DANA BAKER/MARGARET TREANOR-BARR

Purchase Order No.: **PO 3727110**

Project Name: **BRIDGETON TCLP FILTER CAKE SLUDGE**

Project Number:

Section C

Invoice Information:

Attention: **AMY HARGROVE/BRIAN POWER**

Company Name: **REPUBLIC SERVICES**

Address: **BRIDGETON, MO 63044**

Pace Quote Reference:

Pace Project Manager: **Angie Brown 913-563-1402**

Pace Profile #: **PROFILE 6787-LINE 6**

REGULATORY AGENCY

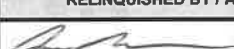
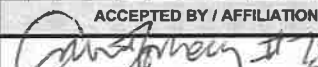
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location

MO

STATE:

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test Y/N	Requested Analysis Filtered (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	TCLP VOCs	pH EPA 9045		Phenol EPA 9065*	Flashpoint	PCB	Paint Filter	Reactive CN/S	TOX-EOX*	TCLP RCRA 8	TCLP SVOC	TCLP PEST/HERB	Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
1	SAMPLE ID (A-Z, 0-9 / .-) Sample IDs MUST BE UNIQUE	BTF SLUDGE 4WGRU	SL	G	DATE	TIME	DATE	TIME		4	4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									</

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
RUSH TAT	 EGC	4-16-14	14:55	 William Abernathy Jr	4-16-14	14:55				
				E Prockett 1 Fee	4/17/14	0055	5.6	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:		DATE Signed (MM/DD/YY):				
WILLIAM ABERNATHY		4/16/14				

Pace Analytical
www.pacelabs.com

Owner Received Date: 4/17/2014 Results Requested By: 4/23/2014

W0#: 7514342

7514342



Sample Condition Upon Receipt
Dallas

Client Name: Pace-Kansas Project Work order: 7514342

Courier: FedEX ☒ UPS ☐ USPS ☐ Client ☐ Courier ☐ LSO ☐ PACE ☐ Other: _____

Tracking#: 5689 1283 1709

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: 0.8°C (Temp should be above freezing to 6°C)

Chain of Custody Present	Yes ☒ No ☐ NA ☐	1
Chain of Custody filled out	Yes ☒ No ☐ NA ☐	2
Chain of Custody relinquished	Yes ☒ No ☐ NA ☐	3
Sampler name & signature on COC	Yes ☐ No ☒ NA ☐	4
Sample received within HT	Yes ☒ No ☐ NA ☐	5
Short HT analyses (<72 hrs)	Yes ☐ No ☒ NA ☐	6
Rush TAT requested	Yes ☒ No ☐ NA ☐	7
Sufficient Volume received	Yes ☒ No ☐ NA ☐	8
Correct Container used	Yes ☒ No ☐ NA ☐	9
Pace Container used	Yes ☒ No ☐ NA ☐	
Container Intact	Yes ☒ No ☐ NA ☐	10
Unpreserved 5035A soil frozen within 48 hrs	Yes ☐ No ☐ NA ☒	11
Filtered volume received for Dissolved tests	Yes ☐ No ☐ NA ☒	12
Sample labels match COC	Yes ☒ No ☐ NA ☐	13
Include date/time/ID/analyses	Matrix: <u>Solid</u>	
All containers needing preservation have been checked	Yes ☐ No ☐ NA ☒	14a. Lot# of pH strip: _____ pH checked Yes ☐ No ☐ pH<2 ☐ pH>9 ☐ pH>12 ☐ Lot# of Iodine strip: _____ Lot# of Lead Acetate strip: _____
Do containers require preservation at the lab	Yes ☐ No ☐ NA ☒	14b. Preservation: _____ Lot#: _____
All containers needing preservation are found to be in Compliance with EPA recommendation	Yes ☐ No ☐ NA ☒	14c. _____
Exception: VOA, coliform, O&G	Yes ☐ No ☒	
Trip Blank present	Yes ☐ No ☐ NA ☒	15
Trip Blank Custody Seals Intact	Yes ☐ No ☐ NA ☒	
Pace Trip Blank Lot# (if purchased): _____		
Headspace in VOA (>6mm)	Yes ☐ No ☐ NA ☒	16
Project sampled in USDA Regulated Area:	Yes ☐ No ☐ NA ☒	17. List State _____

Client Notification/Resolution/Comments:

Person Contacted: _____ Date: _____

Comments/Resolution: _____

Person Examining Contents: RLW Date: 4-22-14

Sample Container Count



COC PAGE 1 of 1
COC ID# _____

Pace Project # 7514342

Sample Line Item	BP2N	AG1U	VG9U	VG9H	BP2S	BP1U	BP2U	BG1H	AG1S	BP2O	SP5T	WGFU	WGKU	AG2U	Comments
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															

Container Codes

DG9H	40mL HCL amber 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 unpreserved	SP5T	120mL Coliform Na Thiosulfate	SP5U	120mL Coliform unpreserved	GN	General unpreserved
Other	Other						

WO#: 202974

PM: KHB

Due Date: 04/28/14

CLIENT: PASI-KANS

Workorder: 60167226

Workorder Name: BRI DGETON TCLP SLUDGE

Owner Received Date: 4/17/2014 Results Requested By: 4/23/2014

[illegible]



Sample Condition

1000 Riverbend Blvd., Suite F
St. Rose, LA 70087

WO#: 202974



Courier: ☐ Pace Courier ☐ Hired Courier ☒ Fed X ☐ UPS ☐ DHL ☐ USPS ☐ Customer ☐ Other

Custody Seal on Cooler/Box Present: [see COC]

Custody Seals intact: ☒ Yes ☐ No

Thermometer
Used:

- ☐ Therm Fisher IR 5
☐ Therm Fisher IR 6
☒ Therm Fisher IR 7

Type of Ice: Wet Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Temp should be above freezing to 6°C

Date and Initials of person examining
contents: 4-23-14 JMB

Temp must be measured from Temperature blank when present

Comments:

Temperature Blank Present?	☐ Yes ☐ No ☒ N/A	1
Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	2
Chain of Custody Complete:	☒ Yes ☐ No ☐ N/A	3
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	4
Sampler Name & Signature on COC:	☐ Yes ☒ No ☐ N/A	5
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	6
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	7
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	8 8 oz jar
Filtered vol. Rec. for Diss. tests	☐ Yes ☐ No ☒ N/A	9
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	10
All containers received within manufacture's precautionary and/or expiration dates.	☒ Yes ☐ No ☐ N/A	11
All containers needing chemical preservation have been checked (except VOA, coliform, & O&G).	☐ Yes ☐ No ☒ N/A	12
All containers preservation checked found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☒ N/A	13 If No, was preservative added? ☐ Yes ☐ No If added record lot no.: HNO3 _____ H2SO4 _____
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☒ N/A	14
Trip Blank Present:	☐ Yes ☒ No	15

Client Notification/ Resolution:

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

CERTIFICATE OF ANALYSIS

Service Location PACE ANALYTICAL SERVICES, INC. 7901 W. MORRIS ST. INDIANAPOLIS, IN 46231 (317)243-8304	Received 25-APR-14	Lab ID AA15283
	Completed 28-APR-14	PO Number 60167226
	Printed 29-APR-14	Sampled 16-APR-14 13:24

Report To ANGIE BROWN PACE ANALYTICAL SERVICES 9608 LOIRET BLVD LENEXA, KS 66219	Bill To JULIE THIESCHAFER PACE ANALYTICAL SERVICES, INC. 1700 ELM STREET SE # 200 MINNEAPOLIS, MN 55414-2485
---	---

Sample Description CLIENT ID: BTF SLUDGE MATRIX TYPE: SLUDGE, SOIL, SOLID OR SEDIMENT SUBMITTER: 11172 - PACE ANALYTICAL - LENEXA DATA PACKAGE #: N/A DESCRIPTION: TCLP FILTERCAKES LOCATION: BRIDGETON LANDFILL CONTACT: BRIAN SEHIE

PCB SONICATION EXTRACTION FOR ORGANICS SW846-3550 (MOD)			
Analyst: B. WOOD	Analysis Date: 26-APR-14	Instrument: PREP	Test: P231.1.0
Parameter	Result	Det. Limit	Units
INITIAL WEIGHT OR VOLUME	10.01		Grams
FINAL VOLUME	100		mL
CLEANUP RATIO 1 TO	5		

PCB AROCLORS BY GAS CHROMATOGRAPHY/ECD SW846-8082A			NELAC:Y
Analyst: B. WOOD	Analysis Date: 26-APR-14 16:17	Instrument: GC/ECD	Test: O301.7.0
Prep: PCB SONICATION EXTRACTION FOR ORGANICS SW846-3550 (MOD) P231.1.0			
Parameter	Result	Det. Limit	Units
PCB AROCLOR 1016	BDL	1.0	mg/kg
PCB AROCLOR 1221	BDL	1.0	mg/kg
PCB AROCLOR 1232	BDL	1.0	mg/kg
PCB AROCLOR 1242	BDL	1.0	mg/kg
PCB AROCLOR 1248	BDL	1.0	mg/kg
PCB AROCLOR 1254	2.0	1.0	mg/kg
PCB AROCLOR 1260	BDL	1.0	mg/kg
PCB AROCLOR 1262	BDL	1.0	mg/kg
...			
SURROGATE RECOVERY			

DECACHLOROBIPHENYL (DCB)	102.0		% Rec

Sample Comments BDL Below Detection Limit

Sample Comments

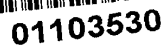
Sample was received on ice at temperature 2.4 C.
Sample chain of custody number PACE.

This Certificate shall not be reproduced, except in full, without the written approval of the lab. The sample results relate only to the analytes of interest tested or to the sample as received by the lab. Pace Analytical Services, INC. certifies that the test results indicated as NELAP (National Environmental Laboratory Accreditation Program) accredited (Yes for NELAP) meet all requirements of NELAP and Kansas (KDHE) unless otherwise explained or justified as to the the exact nature of the deviations.

KS ELAP / NELAP Accreditation # E-10177 Indiana SDWA C-49-01



Approved by: CHRISTOPHER BOYLE 29-APR-14



Pace Analytical
www.pacelabs.com

BRIDGETON TCLP SLUDGE

Report / Invoice To		Subcontract To		Requested Analysis																			
AR/ERIC BROWN		CHRIS BOYLE		SUB 7216																			
PACE - KS		PACE - HERTFORD																					
Item	Sample ID	Collect Date/Time	Lab ID	Matrix	None	Preserved Containers					PCB EPA 8082												
1	BTF SLUDGE	04/16/14 1324	60167226001	SOIL	X						X	LAB USE ONLY AA15283											
2																							
3																							
4																							
5																							
											Comments												
Transfers	Released By	Date/Time	Received By	Date/Time																			
1	<i>[Signature]</i>	4/24/14 1700	<i>[Signature]</i>	4/25/14 1210	Invis - Refer to email for 60167226																		
2																							
3																							
Cooler Temperature on Receipt 2.4 °C		Custody Seal <i>[Signature]</i>		Received on Ice <i>[Signature]</i>		Samples Intact Y or <i>[Signature]</i>																	

~~LID RECD BROKEN~~
SAMPLE LID RECD CRACKED

Sample Receiving Check Sheet

COC ID: 07103530

	Sulfuric plastic <2	Sulfuric Diss Plastic <2	Sulfuric glass <2	Nitric plastic <2	Nitric Diss Plastic <2	NaOH/ZnAOC <12	NaOH plastic >12	preservative added?	pH after addition	Residual C12 present Y/N	Headpace >1/4"	Sample is UNP or other than aqueous	HCL Preserved Containers*	Comments
Line 1 on COC												X		Aqueous samples: For each sample and container type, check the box if pH is acceptable. If pH is not acceptable for any sample container then record the pH in the box. If approved by the project chemist then add acid or base to the sample to achieve the correct pH. Add up to two times the volume initially added to the sample container. Record pH after the addition of this preservative. Preservative sizes for addition: 120ml NaOH 1 mL 500ml H2SO4 2 mL 1000ml H2SO4 4 mL 500ml HNO3 2 mL 1000ml HNO3 4 mL Drop Off  UPS Courier Tracking # Checked by:  *pH of HCL preserved containers checked by analysts Comments:
Line 2 on COC														
Line 3 on COC														
Line 4 on COC														
Line 5 on COC														
Line 6 on COC														
Line 7 on COC														
Line 8 on COC														
Line 9 on COC														
Line 10 on COC														
Line 11 on COC														
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Line 20 on COC														
Line 21 on COC														
Line 22 on COC														
Line 23 on COC														
Line 24 on COC														
Line 25 on COC														

April 25, 2014

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

RE: Project: BRIDGETON LF 316-272
Pace Project No.: 60167314

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 18, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-272

Pace Project No.: 60167314

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 316-272

Pace Project No.: 60167314

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60167314001	316-272	Water	04/17/14 10:00	04/18/14 00:55
60167314002	TRIP BLANK	Water		04/18/14 09:08

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-272

Pace Project No.: 60167314

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60167314001	316-272	EPA 200.7	NDJ	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	DJR	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
		EPA 624 Low	EAK	28
60167314002	TRIP BLANK			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-272
Pace Project No.: 60167314

Sample: 316-272		Lab ID: 60167314001	Collected: 04/17/14 10:00	Received: 04/18/14 00:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	12400	ug/L	750	2	04/22/14 10:15	04/23/14 13:46	7429-90-5	
Antimony	76.4	ug/L	50.0	1	04/22/14 10:15	04/23/14 13:43	7440-36-0	
Arsenic	1280	ug/L	50.0	1	04/22/14 10:15	04/23/14 13:43	7440-38-2	
Beryllium	ND	ug/L	5.0	1	04/22/14 10:15	04/23/14 13:43	7440-41-7	
Cadmium	ND	ug/L	25.0	1	04/22/14 10:15	04/23/14 13:43	7440-43-9	
Chromium	268	ug/L	25.0	1	04/22/14 10:15	04/23/14 13:43	7440-47-3	
Cobalt	40.7	ug/L	25.0	1	04/22/14 10:15	04/23/14 13:43	7440-48-4	
Copper	ND	ug/L	50.0	1	04/22/14 10:15	04/23/14 13:43	7440-50-8	
Iron	958000	ug/L	250	1	04/22/14 10:15	04/23/14 13:43	7439-89-6	
Lead	126	ug/L	25.0	1	04/22/14 10:15	04/23/14 13:43	7439-92-1	
Nickel	129	ug/L	25.0	1	04/22/14 10:15	04/23/14 13:43	7440-02-0	
Selenium	ND	ug/L	75.0	1	04/22/14 10:15	04/23/14 13:43	7782-49-2	
Silver	ND	ug/L	35.0	1	04/22/14 10:15	04/23/14 13:43	7440-22-4	
Thallium	ND	ug/L	100	1	04/22/14 10:15	04/23/14 13:43	7440-28-0	
Zinc	7480	ug/L	500	2	04/22/14 10:15	04/23/14 13:46	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1370	ug/L	750	2	04/24/14 17:20	04/24/14 14:01	7429-90-5	
Antimony, Dissolved	ND	ug/L	100	2	04/24/14 17:20	04/24/14 14:01	7440-36-0	D3
Arsenic, Dissolved	900	ug/L	50.0	1	04/24/14 17:20	04/24/14 13:58	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	04/24/14 17:20	04/24/14 13:58	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	04/24/14 17:20	04/24/14 13:58	7440-43-9	
Chromium, Dissolved	173	ug/L	25.0	1	04/24/14 17:20	04/24/14 13:58	7440-47-3	
Cobalt, Dissolved	28.7	ug/L	25.0	1	04/24/14 17:20	04/24/14 13:58	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	04/24/14 17:20	04/24/14 13:58	7440-50-8	
Iron, Dissolved	395000	ug/L	250	1	04/24/14 17:20	04/24/14 13:58	7439-89-6	M1
Lead, Dissolved	34.9	ug/L	25.0	1	04/24/14 17:20	04/24/14 13:58	7439-92-1	
Nickel, Dissolved	86.4	ug/L	25.0	1	04/24/14 17:20	04/24/14 13:58	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	04/24/14 17:20	04/24/14 13:58	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	04/24/14 17:20	04/24/14 13:58	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	04/24/14 17:20	04/24/14 13:58	7440-28-0	
Zinc, Dissolved	5720	ug/L	500	2	04/24/14 17:20	04/24/14 14:01	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	43.2	ug/L	6.0	1	04/22/14 11:45	04/22/14 15:12	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND	ug/L	6.0	1	04/23/14 15:15	04/23/14 19:00	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	04/24/14 00:00	04/25/14 10:01	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	04/24/14 00:00	04/25/14 10:01	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	04/24/14 00:00	04/25/14 10:01	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	04/24/14 00:00	04/25/14 10:01	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	2	04/24/14 00:00	04/25/14 10:01	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	9930	ug/L	4000	2	04/24/14 00:00	04/25/14 10:01		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-272

Pace Project No.: 60167314

Sample: 316-272		Lab ID: 60167314001	Collected: 04/17/14 10:00	Received: 04/18/14 00:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	2200 ug/L		1000	2	04/24/14 00:00	04/25/14 10:01	91-20-3	
Nitrobenzene	ND ug/L		1000	2	04/24/14 00:00	04/25/14 10:01	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	04/24/14 00:00	04/25/14 10:01	87-86-5	M1
Phenol	14100 ug/L		1000	2	04/24/14 00:00	04/25/14 10:01	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	04/24/14 00:00	04/25/14 10:01	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	04/24/14 00:00	04/25/14 10:01	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	184 %		33-120	2	04/24/14 00:00	04/25/14 10:01	4165-60-0	S0
2-Fluorobiphenyl (S)	102 %		39-120	2	04/24/14 00:00	04/25/14 10:01	321-60-8	
Terphenyl-d14 (S)	101 %		45-120	2	04/24/14 00:00	04/25/14 10:01	1718-51-0	
Phenol-d6 (S)	42 %		11-120	2	04/24/14 00:00	04/25/14 10:01	13127-88-3	
2-Fluorophenol (S)	57 %		17-120	2	04/24/14 00:00	04/25/14 10:01	367-12-4	
2,4,6-Tribromophenol (S)	133 %		39-120	2	04/24/14 00:00	04/25/14 10:01	118-79-6	S0
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	144000 ug/L		5000	500		04/22/14 15:56	67-64-1	N2
Benzene	ND ug/L		500	500		04/22/14 15:56	71-43-2	
Bromodichloromethane	ND ug/L		500	500		04/22/14 15:56	75-27-4	
Bromoform	ND ug/L		500	500		04/22/14 15:56	75-25-2	
Bromomethane	ND ug/L		2500	500		04/22/14 15:56	74-83-9	
2-Butanone (MEK)	75500 ug/L		5000	500		04/22/14 15:56	78-93-3	N2
Carbon tetrachloride	ND ug/L		500	500		04/22/14 15:56	56-23-5	
Chloroethane	ND ug/L		500	500		04/22/14 15:56	75-00-3	
Chloroform	ND ug/L		500	500		04/22/14 15:56	67-66-3	
1,4-Dichlorobenzene	ND ug/L		500	500		04/22/14 15:56	106-46-7	
1,2-Dichloroethane	ND ug/L		500	500		04/22/14 15:56	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		500	500		04/22/14 15:56	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		500	500		04/22/14 15:56	156-60-5	
Ethylbenzene	ND ug/L		500	500		04/22/14 15:56	100-41-4	
Methylene chloride	ND ug/L		500	500		04/22/14 15:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5000	500		04/22/14 15:56	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		500	500		04/22/14 15:56	79-34-5	N2
Tetrachloroethene	ND ug/L		500	500		04/22/14 15:56	127-18-4	
Toluene	ND ug/L		500	500		04/22/14 15:56	108-88-3	
1,1,1-Trichloroethane	ND ug/L		500	500		04/22/14 15:56	71-55-6	
1,1,2-Trichloroethane	ND ug/L		500	500		04/22/14 15:56	79-00-5	
Trichloroethene	ND ug/L		500	500		04/22/14 15:56	79-01-6	
Vinyl chloride	ND ug/L		500	500		04/22/14 15:56	75-01-4	
Xylene (Total)	ND ug/L		1500	500		04/22/14 15:56	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	99 %		80-120	500		04/22/14 15:56	460-00-4	
Toluene-d8 (S)	103 %		80-120	500		04/22/14 15:56	2037-26-5	
1,2-Dichloroethane-d4 (S)	103 %		80-120	500		04/22/14 15:56	17060-07-0	
Preservation pH	6.0		1.0	500		04/22/14 15:56		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1220 mg/L		5.0	1		04/25/14 06:49		M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-272

Pace Project No.: 60167314

Sample: 316-272		Lab ID: 60167314001	Collected: 04/17/14 10:00		Received: 04/18/14 00:55		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	20.4	mg/L	5.0	1		04/25/14 06:47		M1
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	4380	mg/L	5.0	1		04/21/14 11:36		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.4	Std. Units	0.10	1		04/19/14 09:30		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	30600	mg/L	2.0	1	04/18/14 13:48	04/23/14 16:13		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	562	mg/L	20.0	200		04/25/14 08:54	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	53200	mg/L	5000	500		04/24/14 11:16		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-272

Pace Project No.: 60167314

Sample: TRIP BLANK		Lab ID: 60167314002	Collected:	Received: 04/18/14 09:08	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		04/18/14 13:01	67-64-1	L3,N2
Benzene	ND ug/L		1.0	1		04/18/14 13:01	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/18/14 13:01	75-27-4	
Bromoform	ND ug/L		1.0	1		04/18/14 13:01	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/18/14 13:01	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/18/14 13:01	78-93-3	L3,N2
Carbon tetrachloride	ND ug/L		1.0	1		04/18/14 13:01	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/18/14 13:01	75-00-3	
Chloroform	ND ug/L		1.0	1		04/18/14 13:01	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/18/14 13:01	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/18/14 13:01	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/18/14 13:01	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/18/14 13:01	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/18/14 13:01	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/18/14 13:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/18/14 13:01	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/18/14 13:01	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/18/14 13:01	127-18-4	
Toluene	ND ug/L		1.0	1		04/18/14 13:01	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/18/14 13:01	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/18/14 13:01	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/18/14 13:01	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/18/14 13:01	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/18/14 13:01	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	99 %		80-120	1		04/18/14 13:01	460-00-4	
Toluene-d8 (S)	100 %		80-120	1		04/18/14 13:01	2037-26-5	
1,2-Dichloroethane-d4 (S)	96 %		80-120	1		04/18/14 13:01	17060-07-0	
Preservation pH	6.0		1.0	1		04/18/14 13:01		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-272

Pace Project No.: 60167314

QC Batch: MERP/8322

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60167314001

METHOD BLANK: 1364493

Matrix: Water

Associated Lab Samples: 60167314001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/22/14 14:45	

LABORATORY CONTROL SAMPLE: 1364494

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: 1364495 1364496

Parameter	Units	60167111001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	18.4	150	150	157	162	92	96	70-130	4	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-272

Pace Project No.: 60167314

QC Batch: MERP/8327

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60167314001

METHOD BLANK: 1365590

Matrix: Water

Associated Lab Samples: 60167314001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/23/14 18:47	

LABORATORY CONTROL SAMPLE: 1365591

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: 1365592 1365593

Parameter	Units	60167211001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	130	109	86	72	70-130	17	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-272
Pace Project No.: 60167314

QC Batch: MPRP/26931 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60167314001

METHOD BLANK: 1364473 Matrix: Water
Associated Lab Samples: 60167314001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/23/14 13:39	
Antimony	ug/L	ND	10.0	04/23/14 13:39	
Arsenic	ug/L	ND	10.0	04/23/14 13:39	
Beryllium	ug/L	ND	1.0	04/23/14 13:39	
Cadmium	ug/L	ND	5.0	04/23/14 13:39	
Chromium	ug/L	ND	5.0	04/23/14 13:39	
Cobalt	ug/L	ND	5.0	04/23/14 13:39	
Copper	ug/L	ND	10.0	04/23/14 13:39	
Iron	ug/L	ND	50.0	04/23/14 13:39	
Lead	ug/L	ND	5.0	04/23/14 13:39	
Nickel	ug/L	ND	5.0	04/23/14 13:39	
Selenium	ug/L	ND	15.0	04/23/14 13:39	
Silver	ug/L	ND	7.0	04/23/14 13:39	
Thallium	ug/L	ND	20.0	04/23/14 13:39	
Zinc	ug/L	ND	50.0	04/23/14 13:39	

LABORATORY CONTROL SAMPLE: 1364474

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10100	101	85-115	
Antimony	ug/L	1000	1030	103	85-115	
Arsenic	ug/L	1000	1000	100	85-115	
Beryllium	ug/L	1000	1030	103	85-115	
Cadmium	ug/L	1000	1020	102	85-115	
Chromium	ug/L	1000	990	99	85-115	
Cobalt	ug/L	1000	1040	104	85-115	
Copper	ug/L	1000	999	100	85-115	
Iron	ug/L	10000	10300	103	85-115	
Lead	ug/L	1000	1050	105	85-115	
Nickel	ug/L	1000	1060	106	85-115	
Selenium	ug/L	1000	1020	102	85-115	
Silver	ug/L	500	488	98	85-115	
Thallium	ug/L	1000	1070	107	85-115	
Zinc	ug/L	1000	1030	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1364475 1364476

Parameter	Units	60167314001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	12400	50000	50000	72300	73200	120	122	70-130	1	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-272

Pace Project No.: 60167314

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1364475 1364476											
Parameter	Units	60167314001		MS	MSD	MSD		MS	MSD	% Rec	Max
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	RPD
Antimony	ug/L	76.4	5000	5000	5000	5600	5550	111	109	70-130	1
Arsenic	ug/L	1280	5000	5000	5000	7100	7040	116	115	70-130	1
Beryllium	ug/L	ND	5000	5000	5000	5070	4930	101	99	70-130	3
Cadmium	ug/L	ND	5000	5000	5000	5530	5440	111	109	70-130	2
Chromium	ug/L	268	5000	5000	5000	5240	5000	99	95	70-130	5
Cobalt	ug/L	40.7	5000	5000	5000	5070	4940	101	98	70-130	3
Copper	ug/L	ND	5000	5000	5000	5520	5420	110	108	70-130	2
Iron	ug/L	958000	50000	50000	50000	1020000	1000000	130	85	70-130	2
Lead	ug/L	126	5000	5000	5000	4950	4840	96	94	70-130	2
Nickel	ug/L	129	5000	5000	5000	5120	5000	100	98	70-130	2
Selenium	ug/L	ND	5000	5000	5000	6410	6310	128	126	70-130	2
Silver	ug/L	ND	2500	2500	2500	2750	2670	110	107	70-130	3
Thallium	ug/L	ND	5000	5000	5000	4600	4550	92	91	70-130	1
Zinc	ug/L	7480	5000	5000	5000	12300	12600	96	103	70-130	3

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-272
Pace Project No.: 60167314

QC Batch: MPRP/26968 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60167314001

METHOD BLANK: 1365685 Matrix: Water
Associated Lab Samples: 60167314001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/24/14 13:41	
Antimony, Dissolved	ug/L	ND	10.0	04/24/14 13:41	
Arsenic, Dissolved	ug/L	ND	10.0	04/24/14 13:41	
Beryllium, Dissolved	ug/L	ND	1.0	04/24/14 13:41	
Cadmium, Dissolved	ug/L	ND	5.0	04/24/14 13:41	
Chromium, Dissolved	ug/L	ND	5.0	04/24/14 13:41	
Cobalt, Dissolved	ug/L	ND	5.0	04/24/14 13:41	
Copper, Dissolved	ug/L	ND	10.0	04/24/14 13:41	
Iron, Dissolved	ug/L	ND	50.0	04/24/14 13:41	
Lead, Dissolved	ug/L	ND	5.0	04/24/14 13:41	
Nickel, Dissolved	ug/L	ND	5.0	04/24/14 13:41	
Selenium, Dissolved	ug/L	ND	15.0	04/24/14 13:41	
Silver, Dissolved	ug/L	ND	7.0	04/24/14 13:41	
Thallium, Dissolved	ug/L	ND	20.0	04/24/14 13:41	
Zinc, Dissolved	ug/L	ND	50.0	04/24/14 13:41	

LABORATORY CONTROL SAMPLE: 1365686

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9750	98	85-115	
Antimony, Dissolved	ug/L	1000	984	98	85-115	
Arsenic, Dissolved	ug/L	1000	948	95	85-115	
Beryllium, Dissolved	ug/L	1000	988	99	85-115	
Cadmium, Dissolved	ug/L	1000	972	97	85-115	
Chromium, Dissolved	ug/L	1000	976	98	85-115	
Cobalt, Dissolved	ug/L	1000	997	100	85-115	
Copper, Dissolved	ug/L	1000	968	97	85-115	
Iron, Dissolved	ug/L	10000	9870	99	85-115	
Lead, Dissolved	ug/L	1000	997	100	85-115	
Nickel, Dissolved	ug/L	1000	1010	101	85-115	
Selenium, Dissolved	ug/L	1000	972	97	85-115	
Silver, Dissolved	ug/L	500	480	96	85-115	
Thallium, Dissolved	ug/L	1000	995	100	85-115	
Zinc, Dissolved	ug/L	1000	988	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1365687 1365688

Parameter	Units	60167314001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	1370	50000	50000	50000	50800	97	99	70-130	2	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-272

Pace Project No.: 60167314

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1365687 1365688											
Parameter	Units	60167314001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	5000	5000	5100	5200	101	103	70-130	2	7
Arsenic, Dissolved	ug/L	900	5000	5000	6180	6200	105	106	70-130	0	10
Beryllium, Dissolved	ug/L	ND	5000	5000	4670	4740	93	95	70-130	2	7
Cadmium, Dissolved	ug/L	ND	5000	5000	5060	5180	101	103	70-130	2	10
Chromium, Dissolved	ug/L	173	5000	5000	4880	5000	94	96	70-130	2	10
Cobalt, Dissolved	ug/L	28.7	5000	5000	4690	4820	93	96	70-130	3	6
Copper, Dissolved	ug/L	ND	5000	5000	5160	5260	103	105	70-130	2	11
Iron, Dissolved	ug/L	395000	50000	50000	465000	426000	140	62	70-130	9	10 M1
Lead, Dissolved	ug/L	34.9	5000	5000	4490	4610	89	91	70-130	3	10
Nickel, Dissolved	ug/L	86.4	5000	5000	4780	4870	94	96	70-130	2	10
Selenium, Dissolved	ug/L	ND	5000	5000	5860	5880	116	117	70-130	1	10
Silver, Dissolved	ug/L	ND	2500	2500	2620	2650	105	106	70-130	1	10
Thallium, Dissolved	ug/L	ND	5000	5000	4140	4300	83	86	70-130	4	6
Zinc, Dissolved	ug/L	5720	5000	5000	10700	10200	100	91	70-130	5	11

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-272
Pace Project No.: 60167314

QC Batch:	MSV/60926	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60167314002		

METHOD BLANK: 1363074 Matrix: Water
Associated Lab Samples: 60167314002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/18/14 12:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/18/14 12:29	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/18/14 12:29	
1,2-Dichloroethane	ug/L	ND	1.0	04/18/14 12:29	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/18/14 12:29	
2-Butanone (MEK)	ug/L	ND	10.0	04/18/14 12:29	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/18/14 12:29	N2
Acetone	ug/L	ND	10.0	04/18/14 12:29	N2
Benzene	ug/L	ND	1.0	04/18/14 12:29	
Bromodichloromethane	ug/L	ND	1.0	04/18/14 12:29	
Bromoform	ug/L	ND	1.0	04/18/14 12:29	
Bromomethane	ug/L	ND	5.0	04/18/14 12:29	
Carbon tetrachloride	ug/L	ND	1.0	04/18/14 12:29	
Chloroethane	ug/L	ND	1.0	04/18/14 12:29	
Chloroform	ug/L	ND	1.0	04/18/14 12:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/18/14 12:29	N2
Ethylbenzene	ug/L	ND	1.0	04/18/14 12:29	
Methylene chloride	ug/L	ND	1.0	04/18/14 12:29	
Tetrachloroethene	ug/L	ND	1.0	04/18/14 12:29	
Toluene	ug/L	ND	1.0	04/18/14 12:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/18/14 12:29	
Trichloroethene	ug/L	ND	1.0	04/18/14 12:29	
Vinyl chloride	ug/L	ND	1.0	04/18/14 12:29	
Xylene (Total)	ug/L	ND	3.0	04/18/14 12:29	N2
1,2-Dichloroethane-d4 (S)	%	98	80-120	04/18/14 12:29	
4-Bromofluorobenzene (S)	%	103	80-120	04/18/14 12:29	
Toluene-d8 (S)	%	99	80-120	04/18/14 12:29	

LABORATORY CONTROL SAMPLE: 1363075

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.3	97	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.0	100	67-127	N2
1,1,2-Trichloroethane	ug/L	20	20.3	101	67-124	
1,2-Dichloroethane	ug/L	20	20.4	102	70-126	
1,4-Dichlorobenzene	ug/L	20	19.6	98	74-120	
2-Butanone (MEK)	ug/L	100	171	171	42-153	L0,N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	108	108	59-131	N2
Acetone	ug/L	100	214	214	38-134	L0,N2
Benzene	ug/L	20	19.3	97	75-120	
Bromodichloromethane	ug/L	20	20.6	103	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-272

Pace Project No.: 60167314

LABORATORY CONTROL SAMPLE: 1363075

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	20.2	101	65-127	
Bromomethane	ug/L	20	23.9	120	13-157	
Carbon tetrachloride	ug/L	20	21.2	106	70-131	
Chloroethane	ug/L	20	20.4	102	47-133	
Chloroform	ug/L	20	18.8	94	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.7	104	68-127	N2
Ethylbenzene	ug/L	20	20.7	104	74-122	
Methylene chloride	ug/L	20	18.8	94	64-129	
Tetrachloroethene	ug/L	20	19.8	99	73-125	
Toluene	ug/L	20	20.2	101	69-126	
trans-1,2-Dichloroethene	ug/L	20	20.5	102	66-129	
Trichloroethene	ug/L	20	20.0	100	71-123	
Vinyl chloride	ug/L	20	24.6	123	43-129	
Xylene (Total)	ug/L	60	61.6	103	75-121	N2
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			96	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1363076

Parameter	Units	60167111001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	5920	118	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	5290	106	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	5370	107	52-143	
1,2-Dichloroethane	ug/L	ND	5000	5740	115	49-144	
1,4-Dichlorobenzene	ug/L	ND	5000	5220	102	33-140	
2-Butanone (MEK)	ug/L	58200	25000	89300	124	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	30700	121	40-160	N2
Acetone	ug/L	142000	25000	168000	101	10-160	N2
Benzene	ug/L	ND	5000	5430	109	37-151	
Bromodichloromethane	ug/L	ND	5000	5650	113	35-142	
Bromoform	ug/L	ND	5000	5550	111	45-142	
Bromomethane	ug/L	ND	5000	6070	121	10-158	
Carbon tetrachloride	ug/L	ND	5000	6620	132	70-140	
Chloroethane	ug/L	ND	5000	6110	122	19-152	
Chloroform	ug/L	ND	5000	5370	107	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	5860	117	34-147	N2
Ethylbenzene	ug/L	ND	5000	5480	110	40-142	
Methylene chloride	ug/L	ND	5000	5220	102	31-144	
Tetrachloroethene	ug/L	ND	5000	5700	114	64-148	
Toluene	ug/L	ND	5000	5690	114	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	5920	118	54-151	
Trichloroethene	ug/L	ND	5000	5700	114	71-149	
Vinyl chloride	ug/L	ND	5000	7310	146	22-146	
Xylene (Total)	ug/L	ND	15000	16700	111	37-144	N2
1,2-Dichloroethane-d4 (S)	%				103	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-272

Pace Project No.: 60167314

MATRIX SPIKE SAMPLE: 1363076

Parameter	Units	60167111001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				102	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-272
Pace Project No.: 60167314

QC Batch:	MSV/61015	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60167314001		

METHOD BLANK: 1364689 Matrix: Water
Associated Lab Samples: 60167314001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/22/14 14:54	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/22/14 14:54	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/22/14 14:54	
1,2-Dichloroethane	ug/L	ND	1.0	04/22/14 14:54	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/22/14 14:54	
2-Butanone (MEK)	ug/L	ND	10.0	04/22/14 14:54	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/22/14 14:54	N2
Acetone	ug/L	ND	10.0	04/22/14 14:54	N2
Benzene	ug/L	ND	1.0	04/22/14 14:54	
Bromodichloromethane	ug/L	ND	1.0	04/22/14 14:54	
Bromoform	ug/L	ND	1.0	04/22/14 14:54	
Bromomethane	ug/L	ND	5.0	04/22/14 14:54	
Carbon tetrachloride	ug/L	ND	1.0	04/22/14 14:54	
Chloroethane	ug/L	ND	1.0	04/22/14 14:54	
Chloroform	ug/L	ND	1.0	04/22/14 14:54	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/22/14 14:54	N2
Ethylbenzene	ug/L	ND	1.0	04/22/14 14:54	
Methylene chloride	ug/L	ND	1.0	04/22/14 14:54	
Tetrachloroethene	ug/L	ND	1.0	04/22/14 14:54	
Toluene	ug/L	ND	1.0	04/22/14 14:54	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/22/14 14:54	
Trichloroethene	ug/L	ND	1.0	04/22/14 14:54	
Vinyl chloride	ug/L	ND	1.0	04/22/14 14:54	
Xylene (Total)	ug/L	ND	3.0	04/22/14 14:54	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	04/22/14 14:54	
4-Bromofluorobenzene (S)	%	99	80-120	04/22/14 14:54	
Toluene-d8 (S)	%	99	80-120	04/22/14 14:54	

LABORATORY CONTROL SAMPLE: 1364690

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.6	98	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	95	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.9	100	67-124	
1,2-Dichloroethane	ug/L	20	19.1	95	70-126	
1,4-Dichlorobenzene	ug/L	20	17.1	85	74-120	
2-Butanone (MEK)	ug/L	100	101	101	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	105	105	59-131	N2
Acetone	ug/L	100	87.2	87	38-134	N2
Benzene	ug/L	20	18.6	93	75-120	
Bromodichloromethane	ug/L	20	20.5	103	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-272

Pace Project No.: 60167314

LABORATORY CONTROL SAMPLE: 1364690

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	22.0	110	65-127	
Bromomethane	ug/L	20	18.9	95	13-157	
Carbon tetrachloride	ug/L	20	25.3	127	70-131	
Chloroethane	ug/L	20	20.5	103	47-133	
Chloroform	ug/L	20	18.2	91	65-127	
cis-1,2-Dichloroethene	ug/L	20	19.0	95	68-127	N2
Ethylbenzene	ug/L	20	18.7	94	74-122	
Methylene chloride	ug/L	20	17.8	89	64-129	
Tetrachloroethene	ug/L	20	17.7	88	73-125	
Toluene	ug/L	20	19.5	97	69-126	
trans-1,2-Dichloroethene	ug/L	20	18.6	93	66-129	
Trichloroethene	ug/L	20	18.6	93	71-123	
Vinyl chloride	ug/L	20	24.1	121	43-129	
Xylene (Total)	ug/L	60	58.5	97	75-121	N2
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			104	80-120	

MATRIX SPIKE SAMPLE: 1364691

Parameter	Units	60167413001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	5440	109	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	4740	95	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4930	99	52-143	
1,2-Dichloroethane	ug/L	ND	5000	4770	95	49-144	
1,4-Dichlorobenzene	ug/L	423	5000	5000	92	33-140	
2-Butanone (MEK)	ug/L	74500	25000	96400	88	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	24500	93	40-160	N2
Acetone	ug/L	150000	25000	167000	66	10-160	N2
Benzene	ug/L	ND	5000	4980	100	37-151	
Bromodichloromethane	ug/L	ND	5000	5500	110	35-142	
Bromoform	ug/L	ND	5000	8430	169	45-142	M1
Bromomethane	ug/L	ND	5000	4900	98	10-158	
Carbon tetrachloride	ug/L	ND	5000	8170	163	70-140	M1
Chloroethane	ug/L	ND	5000	5530	111	19-152	
Chloroform	ug/L	ND	5000	4710	94	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	5000	100	34-147	N2
Ethylbenzene	ug/L	ND	5000	5240	105	40-142	
Methylene chloride	ug/L	ND	5000	4590	90	31-144	
Tetrachloroethene	ug/L	ND	5000	4910	98	64-148	
Toluene	ug/L	ND	5000	4920	98	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	5060	101	54-151	
Trichloroethene	ug/L	ND	5000	4900	98	71-149	
Vinyl chloride	ug/L	ND	5000	6610	132	22-146	
Xylene (Total)	ug/L	ND	15000	15700	105	37-144	N2
1,2-Dichloroethane-d4 (S)	%				99	80-120	
4-Bromofluorobenzene (S)	%				96	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-272

Pace Project No.: 60167314

MATRIX SPIKE SAMPLE:		1364691					
Parameter	Units	60167413001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%					98	80-120
Preservation pH		6.0		6.0			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-272
Pace Project No.: 60167314

QC Batch:	OEXT/43832	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60167314001		

METHOD BLANK: 1365892 Matrix: Water
Associated Lab Samples: 60167314001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/25/14 08:59	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/25/14 08:59	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/25/14 08:59	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/25/14 08:59	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/25/14 08:59	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/25/14 08:59	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/25/14 08:59	
Hexachloroethane	ug/L	ND	5.0	04/25/14 08:59	
Naphthalene	ug/L	ND	5.0	04/25/14 08:59	
Nitrobenzene	ug/L	ND	5.0	04/25/14 08:59	
Pentachlorophenol	ug/L	ND	5.0	04/25/14 08:59	
Phenol	ug/L	ND	5.0	04/25/14 08:59	
2,4,6-Tribromophenol (S)	%	100	39-120	04/25/14 08:59	
2-Fluorobiphenyl (S)	%	89	39-120	04/25/14 08:59	
2-Fluorophenol (S)	%	47	17-120	04/25/14 08:59	
Nitrobenzene-d5 (S)	%	90	33-120	04/25/14 08:59	
Phenol-d6 (S)	%	30	11-120	04/25/14 08:59	
Terphenyl-d14 (S)	%	92	45-120	04/25/14 08:59	

LABORATORY CONTROL SAMPLE: 1365893

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	41.9	84	46-120	
2,4,6-Trichlorophenol	ug/L	50	47.6	95	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	35.1	70	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	31.5	63	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	59.6	119	40-133	
Hexachloro-1,3-butadiene	ug/L	50	39.7	79	44-116	
Hexachlorocyclopentadiene	ug/L	100	72.1	72	24-120	
Hexachloroethane	ug/L	50	38.7	77	43-113	
Naphthalene	ug/L	50	42.6	85	48-120	
Nitrobenzene	ug/L	50	45.2	90	48-120	
Pentachlorophenol	ug/L	50	57.8	116	47-120	
Phenol	ug/L	50	15.3	31	16-112	
2,4,6-Tribromophenol (S)	%			109	39-120	
2-Fluorobiphenyl (S)	%			87	39-120	
2-Fluorophenol (S)	%			45	17-120	
Nitrobenzene-d5 (S)	%			93	33-120	
Phenol-d6 (S)	%			29	11-120	
Terphenyl-d14 (S)	%			94	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-272

Pace Project No.: 60167314

MATRIX SPIKE SAMPLE:		1365894					
Parameter	Units	60167314001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	4540	91	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	5600	112	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	5230	105	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	9930	5000	13300	67	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	6570	131	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4540	91	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	9590	96	11-120	
Hexachloroethane	ug/L	ND	5000	4890	98	40-113	
Naphthalene	ug/L	2200	5000	6600	88	45-120	
Nitrobenzene	ug/L	ND	5000	5320	106	38-120	
Pentachlorophenol	ug/L	ND	5000	7000	140	43-135	M1
Phenol	ug/L	14100	5000	15200	22	13-112	
2,4,6-Tribromophenol (S)	%				129	39-120	S0
2-Fluorobiphenyl (S)	%				98	39-120	
2-Fluorophenol (S)	%				55	17-120	
Nitrobenzene-d5 (S)	%				184	33-120	S0
Phenol-d6 (S)	%				40	11-120	
Terphenyl-d14 (S)	%				99	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-272

Pace Project No.: 60167314

QC Batch:	WET/47512	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60167314001		

METHOD BLANK: 1366625 Matrix: Water

Associated Lab Samples: 60167314001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/25/14 06:48	

LABORATORY CONTROL SAMPLE: 1366626

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	40.2	100	78-114	

MATRIX SPIKE SAMPLE: 1366627

Parameter	Units	60167314001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	1220	160	1580	227	78-114	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-272

Pace Project No.: 60167314

QC Batch: WET/47511

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60167314001

METHOD BLANK: 1366622

Matrix: Water

Associated Lab Samples: 60167314001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	04/25/14 06:47	

LABORATORY CONTROL SAMPLE: 1366623

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: 1366624

Parameter	Units	60167314001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20.4	80	43.6	29	64-132	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-272

Pace Project No.: 60167314

QC Batch: WET/47411

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60167314001

METHOD BLANK: 1364008

Matrix: Water

Associated Lab Samples: 60167314001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/21/14 11:34	

SAMPLE DUPLICATE: 1364009

Parameter	Units	60167203002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 1364010

Parameter	Units	60167314001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	4380	4340	1	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-272

Pace Project No.: 60167314

QC Batch:	WET/47404	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
Associated Lab Samples:	60167314001		

SAMPLE DUPLICATE: 1363752

Parameter	Units	60167224001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.3	8.3	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-272

Pace Project No.: 60167314

QC Batch: WET/47398

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60167314001

METHOD BLANK: 1363178

Matrix: Water

Associated Lab Samples: 60167314001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/23/14 15:29	

LABORATORY CONTROL SAMPLE: 1363179

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	168	85	85-115	

SAMPLE DUPLICATE: 1363180

Parameter	Units	60167334002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	1430	1320	8	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-272

Pace Project No.: 60167314

QC Batch: WETA/29134

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60167314001

METHOD BLANK: 1366606

Matrix: Water

Associated Lab Samples: 60167314001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/25/14 08:29	

LABORATORY CONTROL SAMPLE: 1366607

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	100	90-110	

MATRIX SPIKE SAMPLE: 1366608

Parameter	Units	60166487003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.83	2	3.1	112	90-110	M1

MATRIX SPIKE SAMPLE: 1366609

Parameter	Units	60167168001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	9.3	10	18.0	87	90-110	M1

SAMPLE DUPLICATE: 1366610

Parameter	Units	60167306002 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-272

Pace Project No.: 60167314

QC Batch:	WETA/29116	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60167314001		

METHOD BLANK: 1365557 Matrix: Water
Associated Lab Samples: 60167314001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	04/24/14 10:50	

LABORATORY CONTROL SAMPLE: 1365558

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	45.3	91	90-110	

MATRIX SPIKE SAMPLE: 1365559

Parameter	Units	60166887001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	9990	5000	13900	79	90-110	M1

MATRIX SPIKE SAMPLE: 1365561

Parameter	Units	60167212001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	58400	25000	76300	72	90-110	M1

SAMPLE DUPLICATE: 1365560

Parameter	Units	60166887005 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	7640	7350	4	25	

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QUALIFIERS

Project: BRIDGETON LF 316-272

Pace Project No.: 60167314

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.

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

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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

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 316-272

Pace Project No.: 60167314

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60167314001	316-272	EPA 200.7	MPRP/26931	EPA 200.7	ICP/20452
60167314001	316-272	EPA 200.7	MPRP/26968	EPA 200.7	ICP/20469
60167314001	316-272	EPA 245.1	MERP/8322	EPA 245.1	MERC/8275
60167314001	316-272	EPA 245.1	MERP/8327	EPA 245.1	MERC/8282
60167314001	316-272	EPA 625	OEXT/43832	EPA 625	MSSV/13989
60167314001	316-272	EPA 624 Low	MSV/61015		
60167314002	TRIP BLANK	EPA 624 Low	MSV/60926		
60167314001	316-272	EPA 1664A	WET/47512		
60167314001	316-272	EPA 1664A	WET/47511		
60167314001	316-272	SM 2540D	WET/47411		
60167314001	316-272	SM 4500-H+B	WET/47404		
60167314001	316-272	SM 5210B	WET/47398	SM 5210B	WET/47478
60167314001	316-272	EPA 350.1	WETA/29134		
60167314001	316-272	EPA 410.4	WETA/29116		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60167314



60167314

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 ☒ 201C

Thermometer Used: T-239 / T-194

Type of Ice: Wet Blue ☐ None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 3.0

Temperature should be above freezing to 6°C

Date and initials of person examining contents: pv 4/18/14

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☒ Yes ☐ No ☐ N/A	6. <u>BOD PH</u>
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	9.
Pace containers used:	☒ Yes ☐ No ☐ N/A	10.
Containers intact:	☒ Yes ☐ No ☐ N/A	11.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	12.
Filtered volume received for dissolved tests?	☐ Yes ☐ No ☒ N/A	13.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	14.
Includes date/time/ID/analyses Matrix: <u>WT</u>		15. <u>Added 2.5 mL of HNO₃ to BPS. PH 4.0/6.0/4.0</u> <u>Added 2.0 mL of H₂SO₄ to BPS. PH 6.0/3.0</u>
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	16.
All containers needing preservation are found to be in compliance with EPA recommendation.	☒ Yes ☐ No ☐ N/A	17.
Exceptions: <u>VOA</u> coliform, TOC, <u>O&O</u> , WI-DRO (water), Phenolics	☒ Yes ☐ No	Initial when completed <u>pv</u> Lot # of added preservative <u>12522</u> <u>12513</u>
Trip Blank present:	☒ Yes ☐ No ☐ N/A	18.
Pace Trip Blank lot # (if purchased): <u>1064</u>		19.
Headspace in VOA vials (>6mm):	☐ Yes ☒ No ☐ N/A	20.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ N/A	21. 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: _____ Date: 4/18/14

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

Page : 1 Of 1

Regulatory Agency
State / Location
Missouri

[illegible]

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:	DATE signed:				
PRINT Name of SAMPLER: WILLIAM ABERNATHY SIGNATURE of SAMPLER: <i>[Signature]</i>					

April 28, 2014

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

RE: Project: BRIDGETON LF 316-273
Pace Project No.: 60167413

Dear Ed Galbraith:

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



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

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-273

Pace Project No.: 60167413

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 316-273

Pace Project No.: 60167413

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60167413001	316-273	Water	04/18/14 08:41	04/19/14 00:45
60167413002	TRIP BLANK	Water	04/18/14 08:00	04/19/14 00:45

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-273

Pace Project No.: 60167413

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60167413001	316-273	EPA 200.7	NDJ	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	DJR	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
		EPA 624 Low	EAK	28
60167413002	TRIP BLANK			

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-273

Pace Project No.: 60167413

Sample: 316-273		Lab ID: 60167413001	Collected: 04/18/14 08:41	Received: 04/19/14 00:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	12100	ug/L	750	2	04/22/14 10:15	04/23/14 14:15	7429-90-5	D3
Antimony	62.8	ug/L	50.0	1	04/22/14 10:15	04/23/14 14:13	7440-36-0	
Arsenic	1240	ug/L	50.0	1	04/22/14 10:15	04/23/14 14:13	7440-38-2	
Beryllium	ND	ug/L	5.0	1	04/22/14 10:15	04/23/14 14:13	7440-41-7	
Cadmium	ND	ug/L	25.0	1	04/22/14 10:15	04/23/14 14:13	7440-43-9	
Chromium	258	ug/L	25.0	1	04/22/14 10:15	04/23/14 14:13	7440-47-3	
Cobalt	42.1	ug/L	25.0	1	04/22/14 10:15	04/23/14 14:13	7440-48-4	
Copper	ND	ug/L	50.0	1	04/22/14 10:15	04/23/14 14:13	7440-50-8	
Iron	934000	ug/L	250	1	04/22/14 10:15	04/23/14 14:13	7439-89-6	
Lead	125	ug/L	25.0	1	04/22/14 10:15	04/23/14 14:13	7439-92-1	
Nickel	126	ug/L	25.0	1	04/22/14 10:15	04/23/14 14:13	7440-02-0	
Selenium	ND	ug/L	75.0	1	04/22/14 10:15	04/23/14 14:13	7782-49-2	
Silver	ND	ug/L	35.0	1	04/22/14 10:15	04/23/14 14:13	7440-22-4	
Thallium	ND	ug/L	100	1	04/22/14 10:15	04/23/14 14:13	7440-28-0	
Zinc	7850	ug/L	500	2	04/22/14 10:15	04/23/14 14:15	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1760	ug/L	750	2	04/24/14 17:20	04/24/14 14:28	7429-90-5	D3
Antimony, Dissolved	ND	ug/L	100	2	04/24/14 17:20	04/24/14 14:28	7440-36-0	
Arsenic, Dissolved	1020	ug/L	50.0	1	04/24/14 17:20	04/24/14 14:24	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	04/24/14 17:20	04/24/14 14:24	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	04/24/14 17:20	04/24/14 14:24	7440-43-9	
Chromium, Dissolved	200	ug/L	25.0	1	04/24/14 17:20	04/24/14 14:24	7440-47-3	
Cobalt, Dissolved	34.6	ug/L	25.0	1	04/24/14 17:20	04/24/14 14:24	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	04/24/14 17:20	04/24/14 14:24	7440-50-8	
Iron, Dissolved	448000	ug/L	250	1	04/24/14 17:20	04/24/14 14:24	7439-89-6	
Lead, Dissolved	40.1	ug/L	25.0	1	04/24/14 17:20	04/24/14 14:24	7439-92-1	
Nickel, Dissolved	110	ug/L	25.0	1	04/24/14 17:20	04/24/14 14:24	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	04/24/14 17:20	04/24/14 14:24	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	04/24/14 17:20	04/24/14 14:24	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	04/24/14 17:20	04/24/14 14:24	7440-28-0	
Zinc, Dissolved	6870	ug/L	500	2	04/24/14 17:20	04/24/14 14:28	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	43.8	ug/L	6.0	1	04/22/14 11:45	04/22/14 15:14	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	04/23/14 15:15	04/23/14 19:02	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	04/24/14 00:00	04/25/14 13:49	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	04/24/14 00:00	04/25/14 13:49	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	04/24/14 00:00	04/25/14 13:49	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	04/24/14 00:00	04/25/14 13:49	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	2	04/24/14 00:00	04/25/14 13:49	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	8870	ug/L	4000	2	04/24/14 00:00	04/25/14 13:49		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-273

Pace Project No.: 60167413

Sample: 316-273		Lab ID: 60167413001	Collected: 04/18/14 08:41	Received: 04/19/14 00:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	1940 ug/L		1000	2	04/24/14 00:00	04/25/14 13:49	91-20-3	
Nitrobenzene	ND ug/L		1000	2	04/24/14 00:00	04/25/14 13:49	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	04/24/14 00:00	04/25/14 13:49	87-86-5	
Phenol	12200 ug/L		1000	2	04/24/14 00:00	04/25/14 13:49	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	04/24/14 00:00	04/25/14 13:49	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	04/24/14 00:00	04/25/14 13:49	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	163 %		33-120	2	04/24/14 00:00	04/25/14 13:49	4165-60-0	S0
2-Fluorobiphenyl (S)	92 %		39-120	2	04/24/14 00:00	04/25/14 13:49	321-60-8	
Terphenyl-d14 (S)	96 %		45-120	2	04/24/14 00:00	04/25/14 13:49	1718-51-0	
Phenol-d6 (S)	37 %		11-120	2	04/24/14 00:00	04/25/14 13:49	13127-88-3	
2-Fluorophenol (S)	50 %		17-120	2	04/24/14 00:00	04/25/14 13:49	367-12-4	
2,4,6-Tribromophenol (S)	123 %		39-120	2	04/24/14 00:00	04/25/14 13:49	118-79-6	S0
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	150000 ug/L		2500	250		04/22/14 16:12	67-64-1	N2
Benzene	ND ug/L		250	250		04/22/14 16:12	71-43-2	
Bromodichloromethane	ND ug/L		250	250		04/22/14 16:12	75-27-4	
Bromoform	ND ug/L		250	250		04/22/14 16:12	75-25-2	M1
Bromomethane	ND ug/L		1250	250		04/22/14 16:12	74-83-9	
2-Butanone (MEK)	74500 ug/L		2500	250		04/22/14 16:12	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		04/22/14 16:12	56-23-5	M1
Chloroethane	ND ug/L		250	250		04/22/14 16:12	75-00-3	
Chloroform	ND ug/L		250	250		04/22/14 16:12	67-66-3	
1,4-Dichlorobenzene	423 ug/L		250	250		04/22/14 16:12	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		04/22/14 16:12	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		04/22/14 16:12	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		04/22/14 16:12	156-60-5	
Ethylbenzene	ND ug/L		250	250		04/22/14 16:12	100-41-4	
Methylene chloride	ND ug/L		250	250		04/22/14 16:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		04/22/14 16:12	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		04/22/14 16:12	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		04/22/14 16:12	127-18-4	
Toluene	ND ug/L		250	250		04/22/14 16:12	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		04/22/14 16:12	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		04/22/14 16:12	79-00-5	
Trichloroethene	ND ug/L		250	250		04/22/14 16:12	79-01-6	
Vinyl chloride	ND ug/L		250	250		04/22/14 16:12	75-01-4	
Xylene (Total)	ND ug/L		750	250		04/22/14 16:12	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	102 %		80-120	250		04/22/14 16:12	460-00-4	
Toluene-d8 (S)	98 %		80-120	250		04/22/14 16:12	2037-26-5	
1,2-Dichloroethane-d4 (S)	101 %		80-120	250		04/22/14 16:12	17060-07-0	
Preservation pH	6.0		1.0	250		04/22/14 16:12		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	973 mg/L		5.0	1		04/27/14 09:04		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-273

Pace Project No.: 60167413

Sample: 316-273		Lab ID: 60167413001	Collected: 04/18/14 08:41	Received: 04/19/14 00:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	9.2	mg/L	5.0	1		04/28/14 07:17		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	4020	mg/L	5.0	1		04/21/14 11:40		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.4	Std. Units	0.10	1		04/19/14 09:30		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	33800	mg/L	2.0	1	04/19/14 11:15	04/24/14 15:22		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	565	mg/L	20.0	200		04/25/14 09:05	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	58900	mg/L	5000	500		04/28/14 11:30		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-273

Pace Project No.: 60167413

Sample: TRIP BLANK		Lab ID: 60167413002	Collected: 04/18/14 08:00	Received: 04/19/14 00:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		04/22/14 15:41	67-64-1	N2
Benzene	ND ug/L		1.0	1		04/22/14 15:41	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/22/14 15:41	75-27-4	
Bromoform	ND ug/L		1.0	1		04/22/14 15:41	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/22/14 15:41	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/22/14 15:41	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		04/22/14 15:41	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/22/14 15:41	75-00-3	
Chloroform	ND ug/L		1.0	1		04/22/14 15:41	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/22/14 15:41	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/22/14 15:41	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/22/14 15:41	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/22/14 15:41	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/22/14 15:41	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/22/14 15:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/22/14 15:41	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/22/14 15:41	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/22/14 15:41	127-18-4	
Toluene	ND ug/L		1.0	1		04/22/14 15:41	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/22/14 15:41	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/22/14 15:41	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/22/14 15:41	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/22/14 15:41	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/22/14 15:41	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	103 %		80-120	1		04/22/14 15:41	460-00-4	
Toluene-d8 (S)	99 %		80-120	1		04/22/14 15:41	2037-26-5	
1,2-Dichloroethane-d4 (S)	106 %		80-120	1		04/22/14 15:41	17060-07-0	
Preservation pH	6.0		1.0	1		04/22/14 15:41		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-273

Pace Project No.: 60167413

QC Batch: MERP/8322

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60167413001

METHOD BLANK: 1364493

Matrix: Water

Associated Lab Samples: 60167413001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/22/14 14:45	

LABORATORY CONTROL SAMPLE: 1364494

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: 1364495 1364496

Parameter	Units	60167111001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	18.4	150	150	157	162	92	96	70-130	4	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-273

Pace Project No.: 60167413

QC Batch: MERP/8327

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60167413001

METHOD BLANK: 1365590

Matrix: Water

Associated Lab Samples: 60167413001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/23/14 18:47	

LABORATORY CONTROL SAMPLE: 1365591

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: 1365592 1365593

Parameter	Units	60167211001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	130	109	86	72	70-130	17	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-273
Pace Project No.: 60167413

QC Batch: MPRP/26931 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60167413001

METHOD BLANK: 1364473 Matrix: Water
Associated Lab Samples: 60167413001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/23/14 13:39	
Antimony	ug/L	ND	10.0	04/23/14 13:39	
Arsenic	ug/L	ND	10.0	04/23/14 13:39	
Beryllium	ug/L	ND	1.0	04/23/14 13:39	
Cadmium	ug/L	ND	5.0	04/23/14 13:39	
Chromium	ug/L	ND	5.0	04/23/14 13:39	
Cobalt	ug/L	ND	5.0	04/23/14 13:39	
Copper	ug/L	ND	10.0	04/23/14 13:39	
Iron	ug/L	ND	50.0	04/23/14 13:39	
Lead	ug/L	ND	5.0	04/23/14 13:39	
Nickel	ug/L	ND	5.0	04/23/14 13:39	
Selenium	ug/L	ND	15.0	04/23/14 13:39	
Silver	ug/L	ND	7.0	04/23/14 13:39	
Thallium	ug/L	ND	20.0	04/23/14 13:39	
Zinc	ug/L	ND	50.0	04/23/14 13:39	

LABORATORY CONTROL SAMPLE: 1364474

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10100	101	85-115	
Antimony	ug/L	1000	1030	103	85-115	
Arsenic	ug/L	1000	1000	100	85-115	
Beryllium	ug/L	1000	1030	103	85-115	
Cadmium	ug/L	1000	1020	102	85-115	
Chromium	ug/L	1000	990	99	85-115	
Cobalt	ug/L	1000	1040	104	85-115	
Copper	ug/L	1000	999	100	85-115	
Iron	ug/L	10000	10300	103	85-115	
Lead	ug/L	1000	1050	105	85-115	
Nickel	ug/L	1000	1060	106	85-115	
Selenium	ug/L	1000	1020	102	85-115	
Silver	ug/L	500	488	98	85-115	
Thallium	ug/L	1000	1070	107	85-115	
Zinc	ug/L	1000	1030	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1364475 1364476

Parameter	Units	60167314001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	12400	50000	50000	72300	73200	120	122	70-130	1	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-273

Pace Project No.: 60167413

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1364475 1364476											
Parameter	Units	60167314001		MS	MSD	MSD		MS	MSD	% Rec	Max
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	RPD
Antimony	ug/L	76.4	5000	5000	5000	5600	5550	111	109	70-130	1
Arsenic	ug/L	1280	5000	5000	5000	7100	7040	116	115	70-130	1
Beryllium	ug/L	ND	5000	5000	5000	5070	4930	101	99	70-130	3
Cadmium	ug/L	ND	5000	5000	5000	5530	5440	111	109	70-130	2
Chromium	ug/L	268	5000	5000	5000	5240	5000	99	95	70-130	5
Cobalt	ug/L	40.7	5000	5000	5000	5070	4940	101	98	70-130	3
Copper	ug/L	ND	5000	5000	5000	5520	5420	110	108	70-130	2
Iron	ug/L	958000	50000	50000	50000	1020000	1000000	130	85	70-130	2
Lead	ug/L	126	5000	5000	5000	4950	4840	96	94	70-130	2
Nickel	ug/L	129	5000	5000	5000	5120	5000	100	98	70-130	2
Selenium	ug/L	ND	5000	5000	5000	6410	6310	128	126	70-130	2
Silver	ug/L	ND	2500	2500	2500	2750	2670	110	107	70-130	3
Thallium	ug/L	ND	5000	5000	5000	4600	4550	92	91	70-130	1
Zinc	ug/L	7480	5000	5000	5000	12300	12600	96	103	70-130	3

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-273
Pace Project No.: 60167413

QC Batch: MPRP/26968 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60167413001

METHOD BLANK: 1365685 Matrix: Water
Associated Lab Samples: 60167413001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/24/14 13:41	
Antimony, Dissolved	ug/L	ND	10.0	04/24/14 13:41	
Arsenic, Dissolved	ug/L	ND	10.0	04/24/14 13:41	
Beryllium, Dissolved	ug/L	ND	1.0	04/24/14 13:41	
Cadmium, Dissolved	ug/L	ND	5.0	04/24/14 13:41	
Chromium, Dissolved	ug/L	ND	5.0	04/24/14 13:41	
Cobalt, Dissolved	ug/L	ND	5.0	04/24/14 13:41	
Copper, Dissolved	ug/L	ND	10.0	04/24/14 13:41	
Iron, Dissolved	ug/L	ND	50.0	04/24/14 13:41	
Lead, Dissolved	ug/L	ND	5.0	04/24/14 13:41	
Nickel, Dissolved	ug/L	ND	5.0	04/24/14 13:41	
Selenium, Dissolved	ug/L	ND	15.0	04/24/14 13:41	
Silver, Dissolved	ug/L	ND	7.0	04/24/14 13:41	
Thallium, Dissolved	ug/L	ND	20.0	04/24/14 13:41	
Zinc, Dissolved	ug/L	ND	50.0	04/24/14 13:41	

LABORATORY CONTROL SAMPLE: 1365686

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9750	98	85-115	
Antimony, Dissolved	ug/L	1000	984	98	85-115	
Arsenic, Dissolved	ug/L	1000	948	95	85-115	
Beryllium, Dissolved	ug/L	1000	988	99	85-115	
Cadmium, Dissolved	ug/L	1000	972	97	85-115	
Chromium, Dissolved	ug/L	1000	976	98	85-115	
Cobalt, Dissolved	ug/L	1000	997	100	85-115	
Copper, Dissolved	ug/L	1000	968	97	85-115	
Iron, Dissolved	ug/L	10000	9870	99	85-115	
Lead, Dissolved	ug/L	1000	997	100	85-115	
Nickel, Dissolved	ug/L	1000	1010	101	85-115	
Selenium, Dissolved	ug/L	1000	972	97	85-115	
Silver, Dissolved	ug/L	500	480	96	85-115	
Thallium, Dissolved	ug/L	1000	995	100	85-115	
Zinc, Dissolved	ug/L	1000	988	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1365687 1365688

Parameter	Units	60167314001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	1370	50000	50000	50000	50800	97	99	70-130	2	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-273

Pace Project No.: 60167413

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1365687 1365688												
Parameter	Units	60167314001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Antimony, Dissolved	ug/L	ND	5000	5000	5100	5200	101	103	70-130	2	7	
Arsenic, Dissolved	ug/L	900	5000	5000	6180	6200	105	106	70-130	0	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	4670	4740	93	95	70-130	2	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5060	5180	101	103	70-130	2	10	
Chromium, Dissolved	ug/L	173	5000	5000	4880	5000	94	96	70-130	2	10	
Cobalt, Dissolved	ug/L	28.7	5000	5000	4690	4820	93	96	70-130	3	6	
Copper, Dissolved	ug/L	ND	5000	5000	5160	5260	103	105	70-130	2	11	
Iron, Dissolved	ug/L	395000	50000	50000	465000	426000	140	62	70-130	9	10	M1
Lead, Dissolved	ug/L	34.9	5000	5000	4490	4610	89	91	70-130	3	10	
Nickel, Dissolved	ug/L	86.4	5000	5000	4780	4870	94	96	70-130	2	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5860	5880	116	117	70-130	1	10	
Silver, Dissolved	ug/L	ND	2500	2500	2620	2650	105	106	70-130	1	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4140	4300	83	86	70-130	4	6	
Zinc, Dissolved	ug/L	5720	5000	5000	10700	10200	100	91	70-130	5	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-273

Pace Project No.: 60167413

QC Batch: MSV/61015 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60167413001, 60167413002

METHOD BLANK: 1364689

Matrix: Water

Associated Lab Samples: 60167413001, 60167413002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/22/14 14:54	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/22/14 14:54	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/22/14 14:54	
1,2-Dichloroethane	ug/L	ND	1.0	04/22/14 14:54	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/22/14 14:54	
2-Butanone (MEK)	ug/L	ND	10.0	04/22/14 14:54	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/22/14 14:54	N2
Acetone	ug/L	ND	10.0	04/22/14 14:54	N2
Benzene	ug/L	ND	1.0	04/22/14 14:54	
Bromodichloromethane	ug/L	ND	1.0	04/22/14 14:54	
Bromoform	ug/L	ND	1.0	04/22/14 14:54	
Bromomethane	ug/L	ND	5.0	04/22/14 14:54	
Carbon tetrachloride	ug/L	ND	1.0	04/22/14 14:54	
Chloroethane	ug/L	ND	1.0	04/22/14 14:54	
Chloroform	ug/L	ND	1.0	04/22/14 14:54	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/22/14 14:54	N2
Ethylbenzene	ug/L	ND	1.0	04/22/14 14:54	
Methylene chloride	ug/L	ND	1.0	04/22/14 14:54	
Tetrachloroethene	ug/L	ND	1.0	04/22/14 14:54	
Toluene	ug/L	ND	1.0	04/22/14 14:54	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/22/14 14:54	
Trichloroethene	ug/L	ND	1.0	04/22/14 14:54	
Vinyl chloride	ug/L	ND	1.0	04/22/14 14:54	
Xylene (Total)	ug/L	ND	3.0	04/22/14 14:54	N2
1,2-Dichloroethane-d4 (S)	%	101	80-120	04/22/14 14:54	
4-Bromofluorobenzene (S)	%	99	80-120	04/22/14 14:54	
Toluene-d8 (S)	%	99	80-120	04/22/14 14:54	

LABORATORY CONTROL SAMPLE: 1364690

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.6	98	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	95	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.9	100	67-124	
1,2-Dichloroethane	ug/L	20	19.1	95	70-126	
1,4-Dichlorobenzene	ug/L	20	17.1	85	74-120	
2-Butanone (MEK)	ug/L	100	101	101	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	105	105	59-131	N2
Acetone	ug/L	100	87.2	87	38-134	N2
Benzene	ug/L	20	18.6	93	75-120	
Bromodichloromethane	ug/L	20	20.5	103	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-273

Pace Project No.: 60167413

LABORATORY CONTROL SAMPLE: 1364690

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	22.0	110	65-127	
Bromomethane	ug/L	20	18.9	95	13-157	
Carbon tetrachloride	ug/L	20	25.3	127	70-131	
Chloroethane	ug/L	20	20.5	103	47-133	
Chloroform	ug/L	20	18.2	91	65-127	
cis-1,2-Dichloroethene	ug/L	20	19.0	95	68-127	N2
Ethylbenzene	ug/L	20	18.7	94	74-122	
Methylene chloride	ug/L	20	17.8	89	64-129	
Tetrachloroethene	ug/L	20	17.7	88	73-125	
Toluene	ug/L	20	19.5	97	69-126	
trans-1,2-Dichloroethene	ug/L	20	18.6	93	66-129	
Trichloroethene	ug/L	20	18.6	93	71-123	
Vinyl chloride	ug/L	20	24.1	121	43-129	
Xylene (Total)	ug/L	60	58.5	97	75-121	N2
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			104	80-120	

MATRIX SPIKE SAMPLE: 1364691

Parameter	Units	60167413001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	5440	109	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	4740	95	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4930	99	52-143	
1,2-Dichloroethane	ug/L	ND	5000	4770	95	49-144	
1,4-Dichlorobenzene	ug/L	423	5000	5000	92	33-140	
2-Butanone (MEK)	ug/L	74500	25000	96400	88	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	24500	93	40-160	N2
Acetone	ug/L	150000	25000	167000	66	10-160	N2
Benzene	ug/L	ND	5000	4980	100	37-151	
Bromodichloromethane	ug/L	ND	5000	5500	110	35-142	
Bromoform	ug/L	ND	5000	8430	169	45-142	M1
Bromomethane	ug/L	ND	5000	4900	98	10-158	
Carbon tetrachloride	ug/L	ND	5000	8170	163	70-140	M1
Chloroethane	ug/L	ND	5000	5530	111	19-152	
Chloroform	ug/L	ND	5000	4710	94	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	5000	100	34-147	N2
Ethylbenzene	ug/L	ND	5000	5240	105	40-142	
Methylene chloride	ug/L	ND	5000	4590	90	31-144	
Tetrachloroethene	ug/L	ND	5000	4910	98	64-148	
Toluene	ug/L	ND	5000	4920	98	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	5060	101	54-151	
Trichloroethene	ug/L	ND	5000	4900	98	71-149	
Vinyl chloride	ug/L	ND	5000	6610	132	22-146	
Xylene (Total)	ug/L	ND	15000	15700	105	37-144	N2
1,2-Dichloroethane-d4 (S)	%				99	80-120	
4-Bromofluorobenzene (S)	%				96	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-273

Pace Project No.: 60167413

MATRIX SPIKE SAMPLE:		1364691					
Parameter	Units	60167413001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%					98	80-120
Preservation pH		6.0		6.0			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-273

Pace Project No.: 60167413

QC Batch: OEXT/43832

Analysis Method: EPA 625

QC Batch Method: EPA 625

Analysis Description: 625 MSS

Associated Lab Samples: 60167413001

METHOD BLANK: 1365892

Matrix: Water

Associated Lab Samples: 60167413001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/25/14 08:59	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/25/14 08:59	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/25/14 08:59	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/25/14 08:59	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/25/14 08:59	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/25/14 08:59	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/25/14 08:59	
Hexachloroethane	ug/L	ND	5.0	04/25/14 08:59	
Naphthalene	ug/L	ND	5.0	04/25/14 08:59	
Nitrobenzene	ug/L	ND	5.0	04/25/14 08:59	
Pentachlorophenol	ug/L	ND	5.0	04/25/14 08:59	
Phenol	ug/L	ND	5.0	04/25/14 08:59	
2,4,6-Tribromophenol (S)	%	100	39-120	04/25/14 08:59	
2-Fluorobiphenyl (S)	%	89	39-120	04/25/14 08:59	
2-Fluorophenol (S)	%	47	17-120	04/25/14 08:59	
Nitrobenzene-d5 (S)	%	90	33-120	04/25/14 08:59	
Phenol-d6 (S)	%	30	11-120	04/25/14 08:59	
Terphenyl-d14 (S)	%	92	45-120	04/25/14 08:59	

LABORATORY CONTROL SAMPLE: 1365893

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	41.9	84	46-120	
2,4,6-Trichlorophenol	ug/L	50	47.6	95	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	35.1	70	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	31.5	63	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	59.6	119	40-133	
Hexachloro-1,3-butadiene	ug/L	50	39.7	79	44-116	
Hexachlorocyclopentadiene	ug/L	100	72.1	72	24-120	
Hexachloroethane	ug/L	50	38.7	77	43-113	
Naphthalene	ug/L	50	42.6	85	48-120	
Nitrobenzene	ug/L	50	45.2	90	48-120	
Pentachlorophenol	ug/L	50	57.8	116	47-120	
Phenol	ug/L	50	15.3	31	16-112	
2,4,6-Tribromophenol (S)	%			109	39-120	
2-Fluorobiphenyl (S)	%			87	39-120	
2-Fluorophenol (S)	%			45	17-120	
Nitrobenzene-d5 (S)	%			93	33-120	
Phenol-d6 (S)	%			29	11-120	
Terphenyl-d14 (S)	%			94	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-273

Pace Project No.: 60167413

MATRIX SPIKE SAMPLE:		1365894					
Parameter	Units	60167314001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	4540	91	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	5600	112	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	5230	105	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	9930	5000	13300	67	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	6570	131	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4540	91	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	9590	96	11-120	
Hexachloroethane	ug/L	ND	5000	4890	98	40-113	
Naphthalene	ug/L	2200	5000	6600	88	45-120	
Nitrobenzene	ug/L	ND	5000	5320	106	38-120	
Pentachlorophenol	ug/L	ND	5000	7000	140	43-135	M1
Phenol	ug/L	14100	5000	15200	22	13-112	
2,4,6-Tribromophenol (S)	%				129	39-120	S0
2-Fluorobiphenyl (S)	%				98	39-120	
2-Fluorophenol (S)	%				55	17-120	
Nitrobenzene-d5 (S)	%				184	33-120	S0
Phenol-d6 (S)	%				40	11-120	
Terphenyl-d14 (S)	%				99	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-273

Pace Project No.: 60167413

QC Batch: WET/47535

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60167413001

METHOD BLANK: 1368080

Matrix: Water

Associated Lab Samples: 60167413001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/27/14 09:01	

LABORATORY CONTROL SAMPLE: 1368081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	35.9	90	78-114	

MATRIX SPIKE SAMPLE: 1368082

Parameter	Units	60167085001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40.4	37.6	91	78-114	

SAMPLE DUPLICATE: 1368083

Parameter	Units	60167149001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	1.8J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-273

Pace Project No.: 60167413

QC Batch: WET/47537

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60167413001

METHOD BLANK: 1368113

Matrix: Water

Associated Lab Samples: 60167413001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	04/28/14 07:17	

LABORATORY CONTROL SAMPLE: 1368114

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: 1368115

Parameter	Units	60167335001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20.6	15.3	68	64-132	

SAMPLE DUPLICATE: 1368116

Parameter	Units	60167335002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	1.6J		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-273

Pace Project No.: 60167413

QC Batch: WET/47412

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60167413001

METHOD BLANK: 1364019

Matrix: Water

Associated Lab Samples: 60167413001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/21/14 11:38	

SAMPLE DUPLICATE: 1364020

Parameter	Units	60167306002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	6.0	8.0	29	10	D6

SAMPLE DUPLICATE: 1364021

Parameter	Units	60167313001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	245	254	4	10	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-273

Pace Project No.: 60167413

QC Batch:	WET/47404	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
Associated Lab Samples:	60167413001		

SAMPLE DUPLICATE: 1363752

Parameter	Units	60167224001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.3	8.3	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-273

Pace Project No.: 60167413

QC Batch: WET/47407

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60167413001

METHOD BLANK: 1363813

Matrix: Water

Associated Lab Samples: 60167413001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/24/14 14:47	

LABORATORY CONTROL SAMPLE: 1363814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	193	97	85-115	

SAMPLE DUPLICATE: 1363815

Parameter	Units	60167308004 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	6.4	6.6	4	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-273

Pace Project No.: 60167413

QC Batch:	WETA/29135	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60167413001		

METHOD BLANK: 1366611 Matrix: Water

Associated Lab Samples: 60167413001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/25/14 09:02	

LABORATORY CONTROL SAMPLE: 1366612

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	101	90-110	

MATRIX SPIKE SAMPLE: 1366613

Parameter	Units	60167437002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	31.5	20	46.1	73	90-110	M1

MATRIX SPIKE SAMPLE: 1366614

Parameter	Units	60167570005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.9	91	90-110	

SAMPLE DUPLICATE: 1366615

Parameter	Units	60167570010 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 316-273

Pace Project No.: 60167413

QC Batch:	WETA/29163	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60167413001		

METHOD BLANK: 1368199 Matrix: Water

Associated Lab Samples: 60167413001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	04/28/14 11:29	

LABORATORY CONTROL SAMPLE: 1368200

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	50.5	101	90-110	

MATRIX SPIKE SAMPLE: 1368201

Parameter	Units	60167413001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	58900	25000	81800	92	90-110	

SAMPLE DUPLICATE: 1368202

Parameter	Units	60167476001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	62700	59000	6	25	

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QUALIFIERS

Project: BRIDGETON LF 316-273

Pace Project No.: 60167413

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 316-273

Pace Project No.: 60167413

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60167413001	316-273	EPA 200.7	MPRP/26931	EPA 200.7	ICP/20452
60167413001	316-273	EPA 200.7	MPRP/26968	EPA 200.7	ICP/20469
60167413001	316-273	EPA 245.1	MERP/8322	EPA 245.1	MERC/8275
60167413001	316-273	EPA 245.1	MERP/8327	EPA 245.1	MERC/8282
60167413001	316-273	EPA 625	OEXT/43832	EPA 625	MSSV/13989
60167413001	316-273	EPA 624 Low	MSV/61015		
60167413002	TRIP BLANK	EPA 624 Low	MSV/61015		
60167413001	316-273	EPA 1664A	WET/47535		
60167413001	316-273	EPA 1664A	WET/47537		
60167413001	316-273	SM 2540D	WET/47412		
60167413001	316-273	SM 4500-H+B	WET/47404		
60167413001	316-273	SM 5210B	WET/47407	SM 5210B	WET/47499
60167413001	316-273	EPA 350.1	WETA/29135		
60167413001	316-273	EPA 410.4	WETA/29163		

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Sample Condition Upon Receipt

WO#: 60167413



60167413

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 ☒ 2P/c

Thermometer Used: T-239 / T-194

Type of Ice: Wet Blue ☐ None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 5-4

Date and initials of person examining contents: 4/19/14

Temperature should be above freezing to 6°C

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☒ Yes ☐ No ☐ N/A	6. <u>BOD PH</u>
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	9.
Pace containers used:	☒ Yes ☐ No ☐ N/A	10.
Containers intact:	☒ Yes ☐ No ☐ N/A	11.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☒ No ☐ N/A	12.
Filtered volume received for dissolved tests?	☐ Yes ☐ No ☒ N/A	13.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	14.
Includes date/time/ID/analyses Matrix:	<u>WT</u>	15.
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	16.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☒ No ☐ N/A	17.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☒ Yes ☐ No	18.
Trip Blank present:	☒ Yes ☐ No ☐ N/A	19.
Pace Trip Blank lot # (if purchased):	<u>Cover</u>	20.
Headspace in VOA vials (>6mm):	☐ Yes ☒ No ☐ N/A	21.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ N/A	22.
Client Notification/ Resolution:	Copy COC to Client? Y ☒ N ☐ Field Data Required? Y ☒ N ☐	23.
Person Contacted:	Date/Time:	24.
Comments/ Resolution:		25.
Project Manager Review:	Date:	26.

April 28, 2014

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

RE: Project: BRIDGETON LF 316-274
Pace Project No.: 60167475

Dear Ed Galbraith:

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



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

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-274

Pace Project No.: 60167475

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 316-274

Pace Project No.: 60167475

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60167475001	316-274	Water	04/19/14 16:00	04/21/14 13:25
60167475002	TRIP BLANK	Water	04/19/14 16:00	04/21/14 13:25

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-274

Pace Project No.: 60167475

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60167475001	316-274	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	JML	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
		EPA 624 Low	EAK	28
60167475002	TRIP BLANK			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-274

Pace Project No.: 60167475

Sample: 316-274		Lab ID: 60167475001	Collected: 04/19/14 16:00	Received: 04/21/14 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	11500 ug/L		750	2	04/23/14 17:20	04/24/14 11:05	7429-90-5	
Antimony	ND ug/L		100	2	04/23/14 17:20	04/24/14 11:05	7440-36-0	D3
Arsenic	1330 ug/L		50.0	1	04/23/14 17:20	04/24/14 11:02	7440-38-2	
Beryllium	ND ug/L		5.0	1	04/23/14 17:20	04/24/14 11:02	7440-41-7	
Cadmium	ND ug/L		25.0	1	04/23/14 17:20	04/24/14 11:02	7440-43-9	
Chromium	300 ug/L		25.0	1	04/23/14 17:20	04/24/14 11:02	7440-47-3	
Cobalt	64.8 ug/L		25.0	1	04/23/14 17:20	04/24/14 11:02	7440-48-4	
Copper	ND ug/L		50.0	1	04/23/14 17:20	04/24/14 11:02	7440-50-8	
Iron	987000 ug/L		250	1	04/23/14 17:20	04/24/14 11:02	7439-89-6	
Lead	161 ug/L		25.0	1	04/23/14 17:20	04/24/14 11:02	7439-92-1	
Nickel	160 ug/L		25.0	1	04/23/14 17:20	04/24/14 11:02	7440-02-0	
Selenium	101 ug/L		75.0	1	04/23/14 17:20	04/24/14 11:02	7782-49-2	
Silver	ND ug/L		35.0	1	04/23/14 17:20	04/24/14 11:02	7440-22-4	
Thallium	ND ug/L		100	1	04/23/14 17:20	04/24/14 11:02	7440-28-0	
Zinc	8230 ug/L		500	2	04/23/14 17:20	04/24/14 11:05	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	2000 ug/L		750	2	04/24/14 17:20	04/24/14 14:37	7429-90-5	
Antimony, Dissolved	ND ug/L		100	2	04/24/14 17:20	04/24/14 14:37	7440-36-0	D3
Arsenic, Dissolved	867 ug/L		50.0	1	04/24/14 17:20	04/24/14 14:34	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	04/24/14 17:20	04/24/14 14:34	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	04/24/14 17:20	04/24/14 14:34	7440-43-9	
Chromium, Dissolved	182 ug/L		25.0	1	04/24/14 17:20	04/24/14 14:34	7440-47-3	
Cobalt, Dissolved	29.2 ug/L		25.0	1	04/24/14 17:20	04/24/14 14:34	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	04/24/14 17:20	04/24/14 14:34	7440-50-8	
Iron, Dissolved	414000 ug/L		250	1	04/24/14 17:20	04/24/14 14:34	7439-89-6	
Lead, Dissolved	38.8 ug/L		25.0	1	04/24/14 17:20	04/24/14 14:34	7439-92-1	
Nickel, Dissolved	98.6 ug/L		25.0	1	04/24/14 17:20	04/24/14 14:34	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	04/24/14 17:20	04/24/14 14:34	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	04/24/14 17:20	04/24/14 14:34	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	04/24/14 17:20	04/24/14 14:34	7440-28-0	
Zinc, Dissolved	6390 ug/L		500	2	04/24/14 17:20	04/24/14 14:37	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	72.3 ug/L		6.0	1	04/22/14 11:45	04/22/14 15:16	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	04/23/14 15:15	04/23/14 19:05	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	04/24/14 00:00	04/25/14 14:10	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	04/24/14 00:00	04/25/14 14:10	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	04/24/14 00:00	04/25/14 14:10	77-47-4	
Hexachloroethane	ND ug/L		1000	2	04/24/14 00:00	04/25/14 14:10	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	04/24/14 00:00	04/25/14 14:10	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	8210 ug/L		4000	2	04/24/14 00:00	04/25/14 14:10		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-274

Pace Project No.: 60167475

Sample: 316-274		Lab ID: 60167475001	Collected: 04/19/14 16:00	Received: 04/21/14 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						
Naphthalene	2160 ug/L		1000	2	04/24/14 00:00	04/25/14 14:10	91-20-3	
Nitrobenzene	ND ug/L		1000	2	04/24/14 00:00	04/25/14 14:10	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	04/24/14 00:00	04/25/14 14:10	87-86-5	
Phenol	11100 ug/L		1000	2	04/24/14 00:00	04/25/14 14:10	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	04/24/14 00:00	04/25/14 14:10	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	04/24/14 00:00	04/25/14 14:10	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	163 %		33-120	2	04/24/14 00:00	04/25/14 14:10	4165-60-0	S0
2-Fluorobiphenyl (S)	83 %		39-120	2	04/24/14 00:00	04/25/14 14:10	321-60-8	
Terphenyl-d14 (S)	86 %		45-120	2	04/24/14 00:00	04/25/14 14:10	1718-51-0	
Phenol-d6 (S)	32 %		11-120	2	04/24/14 00:00	04/25/14 14:10	13127-88-3	
2-Fluorophenol (S)	45 %		17-120	2	04/24/14 00:00	04/25/14 14:10	367-12-4	
2,4,6-Tribromophenol (S)	111 %		39-120	2	04/24/14 00:00	04/25/14 14:10	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	138000 ug/L		2500	250		04/23/14 20:13	67-64-1	N2
Benzene	ND ug/L		250	250		04/23/14 20:13	71-43-2	
Bromodichloromethane	ND ug/L		250	250		04/23/14 20:13	75-27-4	
Bromoform	ND ug/L		250	250		04/23/14 20:13	75-25-2	
Bromomethane	ND ug/L		1250	250		04/23/14 20:13	74-83-9	
2-Butanone (MEK)	60400 ug/L		2500	250		04/23/14 20:13	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		04/23/14 20:13	56-23-5	
Chloroethane	ND ug/L		250	250		04/23/14 20:13	75-00-3	
Chloroform	ND ug/L		250	250		04/23/14 20:13	67-66-3	
1,4-Dichlorobenzene	375 ug/L		250	250		04/23/14 20:13	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		04/23/14 20:13	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		04/23/14 20:13	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		04/23/14 20:13	156-60-5	
Ethylbenzene	ND ug/L		250	250		04/23/14 20:13	100-41-4	
Methylene chloride	ND ug/L		250	250		04/23/14 20:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		04/23/14 20:13	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		04/23/14 20:13	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		04/23/14 20:13	127-18-4	
Toluene	ND ug/L		250	250		04/23/14 20:13	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		04/23/14 20:13	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		04/23/14 20:13	79-00-5	
Trichloroethene	ND ug/L		250	250		04/23/14 20:13	79-01-6	
Vinyl chloride	ND ug/L		250	250		04/23/14 20:13	75-01-4	
Xylene (Total)	ND ug/L		750	250		04/23/14 20:13	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	97 %		80-120	250		04/23/14 20:13	460-00-4	
Toluene-d8 (S)	98 %		80-120	250		04/23/14 20:13	2037-26-5	
1,2-Dichloroethane-d4 (S)	100 %		80-120	250		04/23/14 20:13	17060-07-0	
Preservation pH	6.0		1.0	250		04/23/14 20:13		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1050 mg/L		5.0	1		04/27/14 09:05		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-274

Pace Project No.: 60167475

Sample: 316-274		Lab ID: 60167475001	Collected: 04/19/14 16:00		Received: 04/21/14 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	8.8	mg/L	5.0	1		04/28/14 07:17		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	4140	mg/L	5.0	1		04/22/14 13:58		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.3	Std. Units	0.10	1		04/26/14 09:01		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	28700	mg/L	2.0	1	04/21/14 15:52	04/26/14 09:33		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	565	mg/L	20.0	200		04/25/14 09:10	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	57900	mg/L	5000	500		04/28/14 11:31		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-274

Pace Project No.: 60167475

Sample: TRIP BLANK		Lab ID: 60167475002	Collected: 04/19/14 16:00	Received: 04/21/14 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		04/23/14 17:22	67-64-1	N2
Benzene	ND ug/L		1.0	1		04/23/14 17:22	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/23/14 17:22	75-27-4	
Bromoform	ND ug/L		1.0	1		04/23/14 17:22	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/23/14 17:22	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/23/14 17:22	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		04/23/14 17:22	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/23/14 17:22	75-00-3	
Chloroform	ND ug/L		1.0	1		04/23/14 17:22	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/23/14 17:22	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/23/14 17:22	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/23/14 17:22	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/23/14 17:22	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/23/14 17:22	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/23/14 17:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/23/14 17:22	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/23/14 17:22	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/23/14 17:22	127-18-4	
Toluene	ND ug/L		1.0	1		04/23/14 17:22	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/23/14 17:22	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/23/14 17:22	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/23/14 17:22	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/23/14 17:22	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/23/14 17:22	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	97 %		80-120	1		04/23/14 17:22	460-00-4	
Toluene-d8 (S)	101 %		80-120	1		04/23/14 17:22	2037-26-5	
1,2-Dichloroethane-d4 (S)	102 %		80-120	1		04/23/14 17:22	17060-07-0	
Preservation pH	6.0		1.0	1		04/23/14 17:22		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-274

Pace Project No.: 60167475

QC Batch: MERP/8322

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60167475001

METHOD BLANK: 1364493

Matrix: Water

Associated Lab Samples: 60167475001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/22/14 14:45	

LABORATORY CONTROL SAMPLE: 1364494

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: 1364495 1364496

Parameter	Units	60167111001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	18.4	150	150	157	162	92	96	70-130	4	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-274

Pace Project No.: 60167475

QC Batch: MERP/8327

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60167475001

METHOD BLANK: 1365590

Matrix: Water

Associated Lab Samples: 60167475001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/23/14 18:47	

LABORATORY CONTROL SAMPLE: 1365591

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: 1365592 1365593

Parameter	Units	60167211001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	130	109	86	72	70-130	17	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-274

Pace Project No.: 60167475

QC Batch: MPRP/26963

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Associated Lab Samples: 60167475001

METHOD BLANK: 1365470

Matrix: Water

Associated Lab Samples: 60167475001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/24/14 10:45	
Antimony	ug/L	ND	10.0	04/24/14 10:45	
Arsenic	ug/L	ND	10.0	04/24/14 10:45	
Beryllium	ug/L	ND	1.0	04/24/14 10:45	
Cadmium	ug/L	ND	5.0	04/24/14 10:45	
Chromium	ug/L	ND	5.0	04/24/14 10:45	
Cobalt	ug/L	ND	5.0	04/24/14 10:45	
Copper	ug/L	ND	10.0	04/24/14 10:45	
Iron	ug/L	ND	50.0	04/24/14 10:45	
Lead	ug/L	ND	5.0	04/24/14 10:45	
Nickel	ug/L	ND	5.0	04/24/14 10:45	
Selenium	ug/L	ND	15.0	04/24/14 10:45	
Silver	ug/L	ND	7.0	04/24/14 10:45	
Thallium	ug/L	ND	20.0	04/24/14 10:45	
Zinc	ug/L	ND	50.0	04/24/14 10:45	

LABORATORY CONTROL SAMPLE: 1365471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10200	102	85-115	
Antimony	ug/L	1000	1060	106	85-115	
Arsenic	ug/L	1000	1010	101	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1030	103	85-115	
Chromium	ug/L	1000	1010	101	85-115	
Cobalt	ug/L	1000	1050	105	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	10400	104	85-115	
Lead	ug/L	1000	1040	104	85-115	
Nickel	ug/L	1000	1060	106	85-115	
Selenium	ug/L	1000	1040	104	85-115	
Silver	ug/L	500	502	100	85-115	
Thallium	ug/L	1000	1070	107	85-115	
Zinc	ug/L	1000	1010	101	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-274

Pace Project No.: 60167475

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1365472 1365473											
Parameter	Units	60167264001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Aluminum	ug/L	1.0 mg/L	10000	10000	12300	11800	113	107	70-130	5	8
Antimony	ug/L	ND	1000	1000	1190	1140	119	114	70-130	4	7
Arsenic	ug/L	0.015 mg/L	1000	1000	1180	1130	116	112	70-130	4	10
Beryllium	ug/L	0.00032 J mg/L	1000	1000	956	906	96	91	70-130	5	7
Cadmium	ug/L	ND	1000	1000	1170	1120	117	112	70-130	4	10
Chromium	ug/L	0.035 mg/L	1000	1000	964	921	93	89	70-130	5	10
Cobalt	ug/L	0.0012J mg/L	1000	1000	937	897	94	90	70-130	4	6
Copper	ug/L	0.14 mg/L	1000	1000	1320	1240	117	110	70-130	6	11
Iron	ug/L	4.2 mg/L	10000	10000	13800	12900	96	87	70-130	6	10
Lead	ug/L	0.0064 mg/L	1000	1000	879	846	87	84	70-130	4	10
Nickel	ug/L	0.036 mg/L	1000	1000	952	912	92	88	70-130	4	10
Selenium	ug/L	0.0088J mg/L	1000	1000	1370	1310	136	130	70-130	4	10 M1
Silver	ug/L	ND	500	500	615	582	123	116	70-130	5	10
Thallium	ug/L	ND	1000	1000	835	804	83	80	70-130	4	6
Zinc	ug/L	0.039J mg/L	1000	1000	909	870	87	83	70-130	4	11

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-274
Pace Project No.: 60167475

QC Batch: MPRP/26968 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60167475001

METHOD BLANK: 1365685 Matrix: Water
Associated Lab Samples: 60167475001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/24/14 13:41	
Antimony, Dissolved	ug/L	ND	10.0	04/24/14 13:41	
Arsenic, Dissolved	ug/L	ND	10.0	04/24/14 13:41	
Beryllium, Dissolved	ug/L	ND	1.0	04/24/14 13:41	
Cadmium, Dissolved	ug/L	ND	5.0	04/24/14 13:41	
Chromium, Dissolved	ug/L	ND	5.0	04/24/14 13:41	
Cobalt, Dissolved	ug/L	ND	5.0	04/24/14 13:41	
Copper, Dissolved	ug/L	ND	10.0	04/24/14 13:41	
Iron, Dissolved	ug/L	ND	50.0	04/24/14 13:41	
Lead, Dissolved	ug/L	ND	5.0	04/24/14 13:41	
Nickel, Dissolved	ug/L	ND	5.0	04/24/14 13:41	
Selenium, Dissolved	ug/L	ND	15.0	04/24/14 13:41	
Silver, Dissolved	ug/L	ND	7.0	04/24/14 13:41	
Thallium, Dissolved	ug/L	ND	20.0	04/24/14 13:41	
Zinc, Dissolved	ug/L	ND	50.0	04/24/14 13:41	

LABORATORY CONTROL SAMPLE: 1365686

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9750	98	85-115	
Antimony, Dissolved	ug/L	1000	984	98	85-115	
Arsenic, Dissolved	ug/L	1000	948	95	85-115	
Beryllium, Dissolved	ug/L	1000	988	99	85-115	
Cadmium, Dissolved	ug/L	1000	972	97	85-115	
Chromium, Dissolved	ug/L	1000	976	98	85-115	
Cobalt, Dissolved	ug/L	1000	997	100	85-115	
Copper, Dissolved	ug/L	1000	968	97	85-115	
Iron, Dissolved	ug/L	10000	9870	99	85-115	
Lead, Dissolved	ug/L	1000	997	100	85-115	
Nickel, Dissolved	ug/L	1000	1010	101	85-115	
Selenium, Dissolved	ug/L	1000	972	97	85-115	
Silver, Dissolved	ug/L	500	480	96	85-115	
Thallium, Dissolved	ug/L	1000	995	100	85-115	
Zinc, Dissolved	ug/L	1000	988	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1365687 1365688

Parameter	Units	60167314001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	1370	50000	50000	50000	50800	97	99	70-130	2	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-274

Pace Project No.: 60167475

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1365687 1365688												
Parameter	Units	60167314001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Antimony, Dissolved	ug/L	ND	5000	5000	5100	5200	101	103	70-130	2	7	
Arsenic, Dissolved	ug/L	900	5000	5000	6180	6200	105	106	70-130	0	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	4670	4740	93	95	70-130	2	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5060	5180	101	103	70-130	2	10	
Chromium, Dissolved	ug/L	173	5000	5000	4880	5000	94	96	70-130	2	10	
Cobalt, Dissolved	ug/L	28.7	5000	5000	4690	4820	93	96	70-130	3	6	
Copper, Dissolved	ug/L	ND	5000	5000	5160	5260	103	105	70-130	2	11	
Iron, Dissolved	ug/L	395000	50000	50000	465000	426000	140	62	70-130	9	10	M1
Lead, Dissolved	ug/L	34.9	5000	5000	4490	4610	89	91	70-130	3	10	
Nickel, Dissolved	ug/L	86.4	5000	5000	4780	4870	94	96	70-130	2	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5860	5880	116	117	70-130	1	10	
Silver, Dissolved	ug/L	ND	2500	2500	2620	2650	105	106	70-130	1	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4140	4300	83	86	70-130	4	6	
Zinc, Dissolved	ug/L	5720	5000	5000	10700	10200	100	91	70-130	5	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-274

Pace Project No.: 60167475

QC Batch:	MSV/61061	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples: 60167475001, 60167475002			

METHOD BLANK: 1365522 Matrix: Water

Associated Lab Samples: 60167475001, 60167475002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/23/14 17:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/23/14 17:07	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/23/14 17:07	
1,2-Dichloroethane	ug/L	ND	1.0	04/23/14 17:07	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/23/14 17:07	
2-Butanone (MEK)	ug/L	ND	10.0	04/23/14 17:07	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/23/14 17:07	N2
Acetone	ug/L	ND	10.0	04/23/14 17:07	N2
Benzene	ug/L	ND	1.0	04/23/14 17:07	
Bromodichloromethane	ug/L	ND	1.0	04/23/14 17:07	
Bromoform	ug/L	ND	1.0	04/23/14 17:07	
Bromomethane	ug/L	ND	5.0	04/23/14 17:07	
Carbon tetrachloride	ug/L	ND	1.0	04/23/14 17:07	
Chloroethane	ug/L	ND	1.0	04/23/14 17:07	
Chloroform	ug/L	ND	1.0	04/23/14 17:07	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/23/14 17:07	N2
Ethylbenzene	ug/L	ND	1.0	04/23/14 17:07	
Methylene chloride	ug/L	ND	1.0	04/23/14 17:07	
Tetrachloroethene	ug/L	ND	1.0	04/23/14 17:07	
Toluene	ug/L	ND	1.0	04/23/14 17:07	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/23/14 17:07	
Trichloroethene	ug/L	ND	1.0	04/23/14 17:07	
Vinyl chloride	ug/L	ND	1.0	04/23/14 17:07	
Xylene (Total)	ug/L	ND	3.0	04/23/14 17:07	N2
1,2-Dichloroethane-d4 (S)	%	100	80-120	04/23/14 17:07	
4-Bromofluorobenzene (S)	%	98	80-120	04/23/14 17:07	
Toluene-d8 (S)	%	100	80-120	04/23/14 17:07	

LABORATORY CONTROL SAMPLE: 1365523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.5	98	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.1	101	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.7	98	67-124	
1,2-Dichloroethane	ug/L	20	19.2	96	70-126	
1,4-Dichlorobenzene	ug/L	20	20.0	100	74-120	
2-Butanone (MEK)	ug/L	100	90.6	91	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	103	103	59-131	N2
Acetone	ug/L	100	90.9	91	38-134	N2
Benzene	ug/L	20	18.8	94	75-120	
Bromodichloromethane	ug/L	20	20.5	103	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-274

Pace Project No.: 60167475

LABORATORY CONTROL SAMPLE: 1365523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.7	98	65-127	
Bromomethane	ug/L	20	24.3	121	13-157	
Carbon tetrachloride	ug/L	20	18.6	93	70-131	
Chloroethane	ug/L	20	20.4	102	47-133	
Chloroform	ug/L	20	18.3	92	65-127	
cis-1,2-Dichloroethene	ug/L	20	19.8	99	68-127	N2
Ethylbenzene	ug/L	20	20.4	102	74-122	
Methylene chloride	ug/L	20	19.1	95	64-129	
Tetrachloroethene	ug/L	20	19.6	98	73-125	
Toluene	ug/L	20	19.3	96	69-126	
trans-1,2-Dichloroethene	ug/L	20	19.3	96	66-129	
Trichloroethene	ug/L	20	19.4	97	71-123	
Vinyl chloride	ug/L	20	21.4	107	43-129	
Xylene (Total)	ug/L	60	60.9	101	75-121	N2
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1365524

Parameter	Units	60167475001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	5080	102	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	5000	100	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4830	97	52-143	
1,2-Dichloroethane	ug/L	ND	5000	4810	96	49-144	
1,4-Dichlorobenzene	ug/L	375	5000	5060	94	33-140	
2-Butanone (MEK)	ug/L	60400	25000	85400	100	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	26900	104	40-160	N2
Acetone	ug/L	138000	25000	165000	110	10-160	N2
Benzene	ug/L	ND	5000	4650	93	37-151	
Bromodichloromethane	ug/L	ND	5000	4870	97	35-142	
Bromoform	ug/L	ND	5000	4520	90	45-142	
Bromomethane	ug/L	ND	5000	5980	120	10-158	
Carbon tetrachloride	ug/L	ND	5000	5140	103	70-140	
Chloroethane	ug/L	ND	5000	5480	110	19-152	
Chloroform	ug/L	ND	5000	4600	92	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4960	99	34-147	N2
Ethylbenzene	ug/L	ND	5000	4920	98	40-142	
Methylene chloride	ug/L	ND	5000	4630	93	31-144	
Tetrachloroethene	ug/L	ND	5000	4720	94	64-148	
Toluene	ug/L	ND	5000	4850	97	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	4900	98	54-151	
Trichloroethene	ug/L	ND	5000	4870	97	71-149	
Vinyl chloride	ug/L	ND	5000	5800	116	22-146	
Xylene (Total)	ug/L	ND	15000	14400	96	37-144	N2
1,2-Dichloroethane-d4 (S)	%				101	80-120	
4-Bromofluorobenzene (S)	%				103	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-274

Pace Project No.: 60167475

MATRIX SPIKE SAMPLE:		1365524					
Parameter	Units	60167475001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%					101	
Preservation pH		6.0		6.0		80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-274
Pace Project No.: 60167475

QC Batch:	OEXT/43832	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60167475001		

METHOD BLANK: 1365892 Matrix: Water
Associated Lab Samples: 60167475001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/25/14 08:59	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/25/14 08:59	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/25/14 08:59	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/25/14 08:59	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/25/14 08:59	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/25/14 08:59	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/25/14 08:59	
Hexachloroethane	ug/L	ND	5.0	04/25/14 08:59	
Naphthalene	ug/L	ND	5.0	04/25/14 08:59	
Nitrobenzene	ug/L	ND	5.0	04/25/14 08:59	
Pentachlorophenol	ug/L	ND	5.0	04/25/14 08:59	
Phenol	ug/L	ND	5.0	04/25/14 08:59	
2,4,6-Tribromophenol (S)	%	100	39-120	04/25/14 08:59	
2-Fluorobiphenyl (S)	%	89	39-120	04/25/14 08:59	
2-Fluorophenol (S)	%	47	17-120	04/25/14 08:59	
Nitrobenzene-d5 (S)	%	90	33-120	04/25/14 08:59	
Phenol-d6 (S)	%	30	11-120	04/25/14 08:59	
Terphenyl-d14 (S)	%	92	45-120	04/25/14 08:59	

LABORATORY CONTROL SAMPLE: 1365893

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	41.9	84	46-120	
2,4,6-Trichlorophenol	ug/L	50	47.6	95	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	35.1	70	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	31.5	63	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	59.6	119	40-133	
Hexachloro-1,3-butadiene	ug/L	50	39.7	79	44-116	
Hexachlorocyclopentadiene	ug/L	100	72.1	72	24-120	
Hexachloroethane	ug/L	50	38.7	77	43-113	
Naphthalene	ug/L	50	42.6	85	48-120	
Nitrobenzene	ug/L	50	45.2	90	48-120	
Pentachlorophenol	ug/L	50	57.8	116	47-120	
Phenol	ug/L	50	15.3	31	16-112	
2,4,6-Tribromophenol (S)	%			109	39-120	
2-Fluorobiphenyl (S)	%			87	39-120	
2-Fluorophenol (S)	%			45	17-120	
Nitrobenzene-d5 (S)	%			93	33-120	
Phenol-d6 (S)	%			29	11-120	
Terphenyl-d14 (S)	%			94	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-274

Pace Project No.: 60167475

MATRIX SPIKE SAMPLE:		1365894					
Parameter	Units	60167314001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	4540	91	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	5600	112	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	5230	105	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	9930	5000	13300	67	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	6570	131	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4540	91	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	9590	96	11-120	
Hexachloroethane	ug/L	ND	5000	4890	98	40-113	
Naphthalene	ug/L	2200	5000	6600	88	45-120	
Nitrobenzene	ug/L	ND	5000	5320	106	38-120	
Pentachlorophenol	ug/L	ND	5000	7000	140	43-135	M1
Phenol	ug/L	14100	5000	15200	22	13-112	
2,4,6-Tribromophenol (S)	%				129	39-120	S0
2-Fluorobiphenyl (S)	%				98	39-120	
2-Fluorophenol (S)	%				55	17-120	
Nitrobenzene-d5 (S)	%				184	33-120	S0
Phenol-d6 (S)	%				40	11-120	
Terphenyl-d14 (S)	%				99	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-274

Pace Project No.: 60167475

QC Batch:	WET/47535	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60167475001		

METHOD BLANK: 1368080 Matrix: Water

Associated Lab Samples: 60167475001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/27/14 09:01	

LABORATORY CONTROL SAMPLE: 1368081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	35.9	90	78-114	

MATRIX SPIKE SAMPLE: 1368082

Parameter	Units	60167085001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40.4	37.6	91	78-114	

SAMPLE DUPLICATE: 1368083

Parameter	Units	60167149001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	1.8J		18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-274

Pace Project No.: 60167475

QC Batch: WET/47537

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60167475001

METHOD BLANK: 1368113

Matrix: Water

Associated Lab Samples: 60167475001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	04/28/14 07:17	

LABORATORY CONTROL SAMPLE: 1368114

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: 1368115

Parameter	Units	60167335001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20.6	15.3	68	64-132	

SAMPLE DUPLICATE: 1368116

Parameter	Units	60167335002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	1.6J		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-274

Pace Project No.: 60167475

QC Batch: WET/47433

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60167475001

METHOD BLANK: 1364431

Matrix: Water

Associated Lab Samples: 60167475001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/22/14 13:57	

SAMPLE DUPLICATE: 1364432

Parameter	Units	60167356002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	8.0	8.0	0	10	

SAMPLE DUPLICATE: 1364433

Parameter	Units	60167475001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	4140	4160	0	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-274

Pace Project No.: 60167475

QC Batch:	WET/47469	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
Associated Lab Samples:	60167475001		

SAMPLE DUPLICATE: 1365341

Parameter	Units	60167475001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.3	5.2	1	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-274

Pace Project No.: 60167475

QC Batch: WET/47426

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60167475001

METHOD BLANK: 1364260

Matrix: Water

Associated Lab Samples: 60167475001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/26/14 09:26	

LABORATORY CONTROL SAMPLE: 1364261

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	173	87	85-115	

SAMPLE DUPLICATE: 1364262

Parameter	Units	60167471002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	104	108	4	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-274

Pace Project No.: 60167475

QC Batch: WETA/29135

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60167475001

METHOD BLANK: 1366611

Matrix: Water

Associated Lab Samples: 60167475001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/25/14 09:02	

LABORATORY CONTROL SAMPLE: 1366612

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	101	90-110	

MATRIX SPIKE SAMPLE: 1366613

Parameter	Units	60167437002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	31.5	20	46.1	73	90-110	M1

MATRIX SPIKE SAMPLE: 1366614

Parameter	Units	60167570005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.9	91	90-110	

SAMPLE DUPLICATE: 1366615

Parameter	Units	60167570010 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-274

Pace Project No.: 60167475

QC Batch:	WETA/29163	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60167475001		

METHOD BLANK: 1368199 Matrix: Water

Associated Lab Samples: 60167475001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	04/28/14 11:29	

LABORATORY CONTROL SAMPLE: 1368200

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	50.5	101	90-110	

MATRIX SPIKE SAMPLE: 1368201

Parameter	Units	60167413001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	58900	25000	81800	92	90-110	

SAMPLE DUPLICATE: 1368202

Parameter	Units	60167476001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	62700	59000	6	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-274

Pace Project No.: 60167475

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 LF 316-274

Pace Project No.: 60167475

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60167475001	316-274	EPA 200.7	MPRP/26963	EPA 200.7	ICP/20464
60167475001	316-274	EPA 200.7	MPRP/26968	EPA 200.7	ICP/20469
60167475001	316-274	EPA 245.1	MERP/8322	EPA 245.1	MERC/8275
60167475001	316-274	EPA 245.1	MERP/8327	EPA 245.1	MERC/8282
60167475001	316-274	EPA 625	OEXT/43832	EPA 625	MSSV/13989
60167475001	316-274	EPA 624 Low	MSV/61061		
60167475002	TRIP BLANK	EPA 624 Low	MSV/61061		
60167475001	316-274	EPA 1664A	WET/47535		
60167475001	316-274	EPA 1664A	WET/47537		
60167475001	316-274	SM 2540D	WET/47433		
60167475001	316-274	SM 4500-H+B	WET/47469		
60167475001	316-274	SM 5210B	WET/47426	SM 5210B	WET/47557
60167475001	316-274	EPA 350.1	WETA/29135		
60167475001	316-274	EPA 410.4	WETA/29163		

REPORT OF LABORATORY ANALYSIS

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WO#: 60167475



Sample Condition Upon Receipt

Client Name: Barv

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

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: 4.0

Date and initials of person examining contents: W 4/21/14

Temperature should be above freezing to 6°C

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☒ Yes ☐ No ☐ N/A	6. <u>Ben</u>
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	
Pace containers used:	☒ Yes ☐ No ☐ N/A	9.
Containers intact:	☒ Yes ☐ No ☐ N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	11.
Filtered volume received for dissolved tests?	☐ Yes ☒ No ☐ N/A	12.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	
Includes date/time/ID/analyses	Matrix: <u>WT</u>	13.
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	<u>HNO3 initial pH ~5.0; added 2.5 ml; final pH ~4.0</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☒ No ☐ N/A	<u>H2SO4 initial pH ~5.0; added 2 ml; final pH ~3.0</u>
Exceptions: <u>VOA</u> , coliform, TOC, O&G, WI-DRO (water), Phenolics	☒ Yes ☐ No	Initial when completed <u>h</u>
Trip Blank present:	☒ Yes ☐ No ☐ N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased):		15.
Headspace in VOA vials (>6mm):	☐ Yes ☒ No ☐ N/A	16.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ 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: 4/22/14

April 28, 2014

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

RE: Project: BRIDGETON LF 316-275
Pace Project No.: 60167476

Dear Ed Galbraith:

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



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

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-275

Pace Project No.: 60167476

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 316-275

Pace Project No.: 60167476

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60167476001	316-275	Water	04/20/14 06:58	04/21/14 13:25
60167476002	TRIP BLANK	Water	04/20/14 06:58	04/21/14 13:25

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-275

Pace Project No.: 60167476

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60167476001	316-275	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	JML	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
		EPA 624 Low	EAK	28
60167476002	TRIP BLANK			

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-275

Pace Project No.: 60167476

Sample: 316-275		Lab ID: 60167476001	Collected: 04/20/14 06:58	Received: 04/21/14 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	6140	ug/L	750	2	04/23/14 17:20	04/24/14 11:26	7429-90-5	D3
Antimony	ND	ug/L	100	2	04/23/14 17:20	04/24/14 11:26	7440-36-0	
Arsenic	1110	ug/L	50.0	1	04/23/14 17:20	04/24/14 11:23	7440-38-2	
Beryllium	ND	ug/L	5.0	1	04/23/14 17:20	04/24/14 11:23	7440-41-7	
Cadmium	ND	ug/L	25.0	1	04/23/14 17:20	04/24/14 11:23	7440-43-9	
Chromium	262	ug/L	25.0	1	04/23/14 17:20	04/24/14 11:23	7440-47-3	
Cobalt	44.4	ug/L	25.0	1	04/23/14 17:20	04/24/14 11:23	7440-48-4	
Copper	ND	ug/L	50.0	1	04/23/14 17:20	04/24/14 11:23	7440-50-8	
Iron	760000	ug/L	250	1	04/23/14 17:20	04/24/14 11:23	7439-89-6	
Lead	95.2	ug/L	25.0	1	04/23/14 17:20	04/24/14 11:23	7439-92-1	
Nickel	119	ug/L	25.0	1	04/23/14 17:20	04/24/14 11:23	7440-02-0	
Selenium	91.0	ug/L	75.0	1	04/23/14 17:20	04/24/14 11:23	7782-49-2	
Silver	ND	ug/L	35.0	1	04/23/14 17:20	04/24/14 11:23	7440-22-4	
Thallium	ND	ug/L	100	1	04/23/14 17:20	04/24/14 11:23	7440-28-0	
Zinc	7150	ug/L	500	2	04/23/14 17:20	04/24/14 11:26	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1640	ug/L	750	2	04/24/14 17:20	04/24/14 14:44	7429-90-5	D3
Antimony, Dissolved	ND	ug/L	100	2	04/24/14 17:20	04/24/14 14:44	7440-36-0	
Arsenic, Dissolved	896	ug/L	50.0	1	04/24/14 17:20	04/24/14 14:40	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	04/24/14 17:20	04/24/14 14:40	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	04/24/14 17:20	04/24/14 14:40	7440-43-9	
Chromium, Dissolved	188	ug/L	25.0	1	04/24/14 17:20	04/24/14 14:40	7440-47-3	
Cobalt, Dissolved	28.5	ug/L	25.0	1	04/24/14 17:20	04/24/14 14:40	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	04/24/14 17:20	04/24/14 14:40	7440-50-8	
Iron, Dissolved	410000	ug/L	250	1	04/24/14 17:20	04/24/14 14:40	7439-89-6	
Lead, Dissolved	36.7	ug/L	25.0	1	04/24/14 17:20	04/24/14 14:40	7439-92-1	
Nickel, Dissolved	89.0	ug/L	25.0	1	04/24/14 17:20	04/24/14 14:40	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	04/24/14 17:20	04/24/14 14:40	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	04/24/14 17:20	04/24/14 14:40	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	04/24/14 17:20	04/24/14 14:40	7440-28-0	
Zinc, Dissolved	5930	ug/L	500	2	04/24/14 17:20	04/24/14 14:44	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	36.6	ug/L	6.0	1	04/22/14 11:45	04/22/14 15:18	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	04/23/14 15:15	04/23/14 19:07	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	04/24/14 00:00	04/25/14 14:30	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	04/24/14 00:00	04/25/14 14:30	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	04/24/14 00:00	04/25/14 14:30	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	04/24/14 00:00	04/25/14 14:30	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	2	04/24/14 00:00	04/25/14 14:30	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	10000	ug/L	4000	2	04/24/14 00:00	04/25/14 14:30		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-275

Pace Project No.: 60167476

Sample: 316-275		Lab ID: 60167476001	Collected: 04/20/14 06:58	Received: 04/21/14 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						
Naphthalene	1990 ug/L		1000	2	04/24/14 00:00	04/25/14 14:30	91-20-3	
Nitrobenzene	ND ug/L		1000	2	04/24/14 00:00	04/25/14 14:30	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	04/24/14 00:00	04/25/14 14:30	87-86-5	
Phenol	14400 ug/L		1000	2	04/24/14 00:00	04/25/14 14:30	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	04/24/14 00:00	04/25/14 14:30	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	04/24/14 00:00	04/25/14 14:30	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	174 %		33-120	2	04/24/14 00:00	04/25/14 14:30	4165-60-0	S0
2-Fluorobiphenyl (S)	100 %		39-120	2	04/24/14 00:00	04/25/14 14:30	321-60-8	
Terphenyl-d14 (S)	100 %		45-120	2	04/24/14 00:00	04/25/14 14:30	1718-51-0	
Phenol-d6 (S)	38 %		11-120	2	04/24/14 00:00	04/25/14 14:30	13127-88-3	
2-Fluorophenol (S)	54 %		17-120	2	04/24/14 00:00	04/25/14 14:30	367-12-4	
2,4,6-Tribromophenol (S)	129 %		39-120	2	04/24/14 00:00	04/25/14 14:30	118-79-6	S0
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	131000 ug/L		2500	250		04/23/14 20:44	67-64-1	N2
Benzene	ND ug/L		250	250		04/23/14 20:44	71-43-2	
Bromodichloromethane	ND ug/L		250	250		04/23/14 20:44	75-27-4	
Bromoform	ND ug/L		250	250		04/23/14 20:44	75-25-2	
Bromomethane	ND ug/L		1250	250		04/23/14 20:44	74-83-9	
2-Butanone (MEK)	55800 ug/L		2500	250		04/23/14 20:44	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		04/23/14 20:44	56-23-5	
Chloroethane	ND ug/L		250	250		04/23/14 20:44	75-00-3	
Chloroform	ND ug/L		250	250		04/23/14 20:44	67-66-3	
1,4-Dichlorobenzene	370 ug/L		250	250		04/23/14 20:44	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		04/23/14 20:44	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		04/23/14 20:44	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		04/23/14 20:44	156-60-5	
Ethylbenzene	ND ug/L		250	250		04/23/14 20:44	100-41-4	
Methylene chloride	ND ug/L		250	250		04/23/14 20:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		04/23/14 20:44	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		04/23/14 20:44	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		04/23/14 20:44	127-18-4	
Toluene	ND ug/L		250	250		04/23/14 20:44	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		04/23/14 20:44	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		04/23/14 20:44	79-00-5	
Trichloroethene	ND ug/L		250	250		04/23/14 20:44	79-01-6	
Vinyl chloride	ND ug/L		250	250		04/23/14 20:44	75-01-4	
Xylene (Total)	ND ug/L		750	250		04/23/14 20:44	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	104 %		80-120	250		04/23/14 20:44	460-00-4	
Toluene-d8 (S)	101 %		80-120	250		04/23/14 20:44	2037-26-5	
1,2-Dichloroethane-d4 (S)	107 %		80-120	250		04/23/14 20:44	17060-07-0	
Preservation pH	6.0		1.0	250		04/23/14 20:44		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1010 mg/L		5.0	1		04/27/14 09:05		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-275

Pace Project No.: 60167476

Sample: 316-275		Lab ID: 60167476001	Collected: 04/20/14 06:58	Received: 04/21/14 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	8.8	mg/L	5.0	1		04/28/14 07:17		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	3780	mg/L	5.0	1		04/22/14 13:59		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.3	Std. Units	0.10	1		04/26/14 09:01		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	29300	mg/L	2.0	1	04/21/14 16:10	04/26/14 09:38		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	614	mg/L	20.0	200		04/25/14 09:11	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	62700	mg/L	5000	500		04/28/14 11:32		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-275

Pace Project No.: 60167476

Sample: TRIP BLANK		Lab ID: 60167476002	Collected: 04/20/14 06:58	Received: 04/21/14 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		04/23/14 17:38	67-64-1	N2
Benzene	ND ug/L		1.0	1		04/23/14 17:38	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/23/14 17:38	75-27-4	
Bromoform	ND ug/L		1.0	1		04/23/14 17:38	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/23/14 17:38	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/23/14 17:38	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		04/23/14 17:38	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/23/14 17:38	75-00-3	
Chloroform	ND ug/L		1.0	1		04/23/14 17:38	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/23/14 17:38	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/23/14 17:38	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/23/14 17:38	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/23/14 17:38	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/23/14 17:38	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/23/14 17:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/23/14 17:38	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/23/14 17:38	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/23/14 17:38	127-18-4	
Toluene	ND ug/L		1.0	1		04/23/14 17:38	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/23/14 17:38	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/23/14 17:38	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/23/14 17:38	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/23/14 17:38	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/23/14 17:38	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	98 %		80-120	1		04/23/14 17:38	460-00-4	
Toluene-d8 (S)	99 %		80-120	1		04/23/14 17:38	2037-26-5	
1,2-Dichloroethane-d4 (S)	101 %		80-120	1		04/23/14 17:38	17060-07-0	
Preservation pH	6.0		1.0	1		04/23/14 17:38		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-275

Pace Project No.: 60167476

QC Batch: MERP/8322

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60167476001

METHOD BLANK: 1364493

Matrix: Water

Associated Lab Samples: 60167476001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/22/14 14:45	

LABORATORY CONTROL SAMPLE: 1364494

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: 1364495 1364496

Parameter	Units	60167111001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	18.4	150	150	157	162	92	96	70-130	4	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-275

Pace Project No.: 60167476

QC Batch: MERP/8327

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60167476001

METHOD BLANK: 1365590

Matrix: Water

Associated Lab Samples: 60167476001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/23/14 18:47	

LABORATORY CONTROL SAMPLE: 1365591

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: 1365592 1365593

Parameter	Units	60167211001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	130	109	86	72	70-130	17	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-275

Pace Project No.: 60167476

QC Batch: MPRP/26963

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Associated Lab Samples: 60167476001

METHOD BLANK: 1365470

Matrix: Water

Associated Lab Samples: 60167476001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/24/14 10:45	
Antimony	ug/L	ND	10.0	04/24/14 10:45	
Arsenic	ug/L	ND	10.0	04/24/14 10:45	
Beryllium	ug/L	ND	1.0	04/24/14 10:45	
Cadmium	ug/L	ND	5.0	04/24/14 10:45	
Chromium	ug/L	ND	5.0	04/24/14 10:45	
Cobalt	ug/L	ND	5.0	04/24/14 10:45	
Copper	ug/L	ND	10.0	04/24/14 10:45	
Iron	ug/L	ND	50.0	04/24/14 10:45	
Lead	ug/L	ND	5.0	04/24/14 10:45	
Nickel	ug/L	ND	5.0	04/24/14 10:45	
Selenium	ug/L	ND	15.0	04/24/14 10:45	
Silver	ug/L	ND	7.0	04/24/14 10:45	
Thallium	ug/L	ND	20.0	04/24/14 10:45	
Zinc	ug/L	ND	50.0	04/24/14 10:45	

LABORATORY CONTROL SAMPLE: 1365471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10200	102	85-115	
Antimony	ug/L	1000	1060	106	85-115	
Arsenic	ug/L	1000	1010	101	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1030	103	85-115	
Chromium	ug/L	1000	1010	101	85-115	
Cobalt	ug/L	1000	1050	105	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	10400	104	85-115	
Lead	ug/L	1000	1040	104	85-115	
Nickel	ug/L	1000	1060	106	85-115	
Selenium	ug/L	1000	1040	104	85-115	
Silver	ug/L	500	502	100	85-115	
Thallium	ug/L	1000	1070	107	85-115	
Zinc	ug/L	1000	1010	101	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-275

Pace Project No.: 60167476

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1365472 1365473											
Parameter	Units	60167264001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Aluminum	ug/L	1.0 mg/L	10000	10000	12300	11800	113	107	70-130	5	8
Antimony	ug/L	ND	1000	1000	1190	1140	119	114	70-130	4	7
Arsenic	ug/L	0.015 mg/L	1000	1000	1180	1130	116	112	70-130	4	10
Beryllium	ug/L	0.00032 J mg/L	1000	1000	956	906	96	91	70-130	5	7
Cadmium	ug/L	ND	1000	1000	1170	1120	117	112	70-130	4	10
Chromium	ug/L	0.035 mg/L	1000	1000	964	921	93	89	70-130	5	10
Cobalt	ug/L	0.0012J mg/L	1000	1000	937	897	94	90	70-130	4	6
Copper	ug/L	0.14 mg/L	1000	1000	1320	1240	117	110	70-130	6	11
Iron	ug/L	4.2 mg/L	10000	10000	13800	12900	96	87	70-130	6	10
Lead	ug/L	0.0064 mg/L	1000	1000	879	846	87	84	70-130	4	10
Nickel	ug/L	0.036 mg/L	1000	1000	952	912	92	88	70-130	4	10
Selenium	ug/L	0.0088J mg/L	1000	1000	1370	1310	136	130	70-130	4	10 M1
Silver	ug/L	ND	500	500	615	582	123	116	70-130	5	10
Thallium	ug/L	ND	1000	1000	835	804	83	80	70-130	4	6
Zinc	ug/L	0.039J mg/L	1000	1000	909	870	87	83	70-130	4	11

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-275
Pace Project No.: 60167476

QC Batch: MPRP/26968 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60167476001

METHOD BLANK: 1365685 Matrix: Water
Associated Lab Samples: 60167476001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/24/14 13:41	
Antimony, Dissolved	ug/L	ND	10.0	04/24/14 13:41	
Arsenic, Dissolved	ug/L	ND	10.0	04/24/14 13:41	
Beryllium, Dissolved	ug/L	ND	1.0	04/24/14 13:41	
Cadmium, Dissolved	ug/L	ND	5.0	04/24/14 13:41	
Chromium, Dissolved	ug/L	ND	5.0	04/24/14 13:41	
Cobalt, Dissolved	ug/L	ND	5.0	04/24/14 13:41	
Copper, Dissolved	ug/L	ND	10.0	04/24/14 13:41	
Iron, Dissolved	ug/L	ND	50.0	04/24/14 13:41	
Lead, Dissolved	ug/L	ND	5.0	04/24/14 13:41	
Nickel, Dissolved	ug/L	ND	5.0	04/24/14 13:41	
Selenium, Dissolved	ug/L	ND	15.0	04/24/14 13:41	
Silver, Dissolved	ug/L	ND	7.0	04/24/14 13:41	
Thallium, Dissolved	ug/L	ND	20.0	04/24/14 13:41	
Zinc, Dissolved	ug/L	ND	50.0	04/24/14 13:41	

LABORATORY CONTROL SAMPLE: 1365686

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9750	98	85-115	
Antimony, Dissolved	ug/L	1000	984	98	85-115	
Arsenic, Dissolved	ug/L	1000	948	95	85-115	
Beryllium, Dissolved	ug/L	1000	988	99	85-115	
Cadmium, Dissolved	ug/L	1000	972	97	85-115	
Chromium, Dissolved	ug/L	1000	976	98	85-115	
Cobalt, Dissolved	ug/L	1000	997	100	85-115	
Copper, Dissolved	ug/L	1000	968	97	85-115	
Iron, Dissolved	ug/L	10000	9870	99	85-115	
Lead, Dissolved	ug/L	1000	997	100	85-115	
Nickel, Dissolved	ug/L	1000	1010	101	85-115	
Selenium, Dissolved	ug/L	1000	972	97	85-115	
Silver, Dissolved	ug/L	500	480	96	85-115	
Thallium, Dissolved	ug/L	1000	995	100	85-115	
Zinc, Dissolved	ug/L	1000	988	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1365687 1365688

Parameter	Units	60167314001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	1370	50000	50000	50000	50800	97	99	70-130	2	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-275

Pace Project No.: 60167476

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1365687 1365688											
Parameter	Units	60167314001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	5000	5000	5100	5200	101	103	70-130	2	7
Arsenic, Dissolved	ug/L	900	5000	5000	6180	6200	105	106	70-130	0	10
Beryllium, Dissolved	ug/L	ND	5000	5000	4670	4740	93	95	70-130	2	7
Cadmium, Dissolved	ug/L	ND	5000	5000	5060	5180	101	103	70-130	2	10
Chromium, Dissolved	ug/L	173	5000	5000	4880	5000	94	96	70-130	2	10
Cobalt, Dissolved	ug/L	28.7	5000	5000	4690	4820	93	96	70-130	3	6
Copper, Dissolved	ug/L	ND	5000	5000	5160	5260	103	105	70-130	2	11
Iron, Dissolved	ug/L	395000	50000	50000	465000	426000	140	62	70-130	9	10 M1
Lead, Dissolved	ug/L	34.9	5000	5000	4490	4610	89	91	70-130	3	10
Nickel, Dissolved	ug/L	86.4	5000	5000	4780	4870	94	96	70-130	2	10
Selenium, Dissolved	ug/L	ND	5000	5000	5860	5880	116	117	70-130	1	10
Silver, Dissolved	ug/L	ND	2500	2500	2620	2650	105	106	70-130	1	10
Thallium, Dissolved	ug/L	ND	5000	5000	4140	4300	83	86	70-130	4	6
Zinc, Dissolved	ug/L	5720	5000	5000	10700	10200	100	91	70-130	5	11

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-275

Pace Project No.: 60167476

QC Batch: MSV/61061 Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low Analysis Description: 624 MSV
Associated Lab Samples: 60167476001, 60167476002

METHOD BLANK: 1365522 Matrix: Water

Associated Lab Samples: 60167476001, 60167476002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/23/14 17:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/23/14 17:07	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/23/14 17:07	
1,2-Dichloroethane	ug/L	ND	1.0	04/23/14 17:07	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/23/14 17:07	
2-Butanone (MEK)	ug/L	ND	10.0	04/23/14 17:07	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/23/14 17:07	N2
Acetone	ug/L	ND	10.0	04/23/14 17:07	N2
Benzene	ug/L	ND	1.0	04/23/14 17:07	
Bromodichloromethane	ug/L	ND	1.0	04/23/14 17:07	
Bromoform	ug/L	ND	1.0	04/23/14 17:07	
Bromomethane	ug/L	ND	5.0	04/23/14 17:07	
Carbon tetrachloride	ug/L	ND	1.0	04/23/14 17:07	
Chloroethane	ug/L	ND	1.0	04/23/14 17:07	
Chloroform	ug/L	ND	1.0	04/23/14 17:07	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/23/14 17:07	N2
Ethylbenzene	ug/L	ND	1.0	04/23/14 17:07	
Methylene chloride	ug/L	ND	1.0	04/23/14 17:07	
Tetrachloroethene	ug/L	ND	1.0	04/23/14 17:07	
Toluene	ug/L	ND	1.0	04/23/14 17:07	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/23/14 17:07	
Trichloroethene	ug/L	ND	1.0	04/23/14 17:07	
Vinyl chloride	ug/L	ND	1.0	04/23/14 17:07	
Xylene (Total)	ug/L	ND	3.0	04/23/14 17:07	N2
1,2-Dichloroethane-d4 (S)	%	100	80-120	04/23/14 17:07	
4-Bromofluorobenzene (S)	%	98	80-120	04/23/14 17:07	
Toluene-d8 (S)	%	100	80-120	04/23/14 17:07	

LABORATORY CONTROL SAMPLE: 1365523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.5	98	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.1	101	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.7	98	67-124	
1,2-Dichloroethane	ug/L	20	19.2	96	70-126	
1,4-Dichlorobenzene	ug/L	20	20.0	100	74-120	
2-Butanone (MEK)	ug/L	100	90.6	91	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	103	103	59-131	N2
Acetone	ug/L	100	90.9	91	38-134	N2
Benzene	ug/L	20	18.8	94	75-120	
Bromodichloromethane	ug/L	20	20.5	103	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-275

Pace Project No.: 60167476

LABORATORY CONTROL SAMPLE: 1365523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.7	98	65-127	
Bromomethane	ug/L	20	24.3	121	13-157	
Carbon tetrachloride	ug/L	20	18.6	93	70-131	
Chloroethane	ug/L	20	20.4	102	47-133	
Chloroform	ug/L	20	18.3	92	65-127	
cis-1,2-Dichloroethene	ug/L	20	19.8	99	68-127	N2
Ethylbenzene	ug/L	20	20.4	102	74-122	
Methylene chloride	ug/L	20	19.1	95	64-129	
Tetrachloroethene	ug/L	20	19.6	98	73-125	
Toluene	ug/L	20	19.3	96	69-126	
trans-1,2-Dichloroethene	ug/L	20	19.3	96	66-129	
Trichloroethene	ug/L	20	19.4	97	71-123	
Vinyl chloride	ug/L	20	21.4	107	43-129	
Xylene (Total)	ug/L	60	60.9	101	75-121	N2
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1365524

Parameter	Units	60167475001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	5080	102	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	5000	100	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4830	97	52-143	
1,2-Dichloroethane	ug/L	ND	5000	4810	96	49-144	
1,4-Dichlorobenzene	ug/L	375	5000	5060	94	33-140	
2-Butanone (MEK)	ug/L	60400	25000	85400	100	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	26900	104	40-160	N2
Acetone	ug/L	138000	25000	165000	110	10-160	N2
Benzene	ug/L	ND	5000	4650	93	37-151	
Bromodichloromethane	ug/L	ND	5000	4870	97	35-142	
Bromoform	ug/L	ND	5000	4520	90	45-142	
Bromomethane	ug/L	ND	5000	5980	120	10-158	
Carbon tetrachloride	ug/L	ND	5000	5140	103	70-140	
Chloroethane	ug/L	ND	5000	5480	110	19-152	
Chloroform	ug/L	ND	5000	4600	92	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4960	99	34-147	N2
Ethylbenzene	ug/L	ND	5000	4920	98	40-142	
Methylene chloride	ug/L	ND	5000	4630	93	31-144	
Tetrachloroethene	ug/L	ND	5000	4720	94	64-148	
Toluene	ug/L	ND	5000	4850	97	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	4900	98	54-151	
Trichloroethene	ug/L	ND	5000	4870	97	71-149	
Vinyl chloride	ug/L	ND	5000	5800	116	22-146	
Xylene (Total)	ug/L	ND	15000	14400	96	37-144	N2
1,2-Dichloroethane-d4 (S)	%				101	80-120	
4-Bromofluorobenzene (S)	%				103	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-275

Pace Project No.: 60167476

MATRIX SPIKE SAMPLE:		1365524					
Parameter	Units	60167475001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				101	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-275
Pace Project No.: 60167476

QC Batch:	OEXT/43832	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60167476001		

METHOD BLANK: 1365892 Matrix: Water
Associated Lab Samples: 60167476001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/25/14 08:59	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/25/14 08:59	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/25/14 08:59	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/25/14 08:59	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/25/14 08:59	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/25/14 08:59	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/25/14 08:59	
Hexachloroethane	ug/L	ND	5.0	04/25/14 08:59	
Naphthalene	ug/L	ND	5.0	04/25/14 08:59	
Nitrobenzene	ug/L	ND	5.0	04/25/14 08:59	
Pentachlorophenol	ug/L	ND	5.0	04/25/14 08:59	
Phenol	ug/L	ND	5.0	04/25/14 08:59	
2,4,6-Tribromophenol (S)	%	100	39-120	04/25/14 08:59	
2-Fluorobiphenyl (S)	%	89	39-120	04/25/14 08:59	
2-Fluorophenol (S)	%	47	17-120	04/25/14 08:59	
Nitrobenzene-d5 (S)	%	90	33-120	04/25/14 08:59	
Phenol-d6 (S)	%	30	11-120	04/25/14 08:59	
Terphenyl-d14 (S)	%	92	45-120	04/25/14 08:59	

LABORATORY CONTROL SAMPLE: 1365893

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	41.9	84	46-120	
2,4,6-Trichlorophenol	ug/L	50	47.6	95	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	35.1	70	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	31.5	63	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	59.6	119	40-133	
Hexachloro-1,3-butadiene	ug/L	50	39.7	79	44-116	
Hexachlorocyclopentadiene	ug/L	100	72.1	72	24-120	
Hexachloroethane	ug/L	50	38.7	77	43-113	
Naphthalene	ug/L	50	42.6	85	48-120	
Nitrobenzene	ug/L	50	45.2	90	48-120	
Pentachlorophenol	ug/L	50	57.8	116	47-120	
Phenol	ug/L	50	15.3	31	16-112	
2,4,6-Tribromophenol (S)	%			109	39-120	
2-Fluorobiphenyl (S)	%			87	39-120	
2-Fluorophenol (S)	%			45	17-120	
Nitrobenzene-d5 (S)	%			93	33-120	
Phenol-d6 (S)	%			29	11-120	
Terphenyl-d14 (S)	%			94	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-275

Pace Project No.: 60167476

MATRIX SPIKE SAMPLE:		1365894					
Parameter	Units	60167314001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	4540	91	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	5600	112	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	5230	105	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	9930	5000	13300	67	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	6570	131	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4540	91	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	9590	96	11-120	
Hexachloroethane	ug/L	ND	5000	4890	98	40-113	
Naphthalene	ug/L	2200	5000	6600	88	45-120	
Nitrobenzene	ug/L	ND	5000	5320	106	38-120	
Pentachlorophenol	ug/L	ND	5000	7000	140	43-135	M1
Phenol	ug/L	14100	5000	15200	22	13-112	
2,4,6-Tribromophenol (S)	%				129	39-120	S0
2-Fluorobiphenyl (S)	%				98	39-120	
2-Fluorophenol (S)	%				55	17-120	
Nitrobenzene-d5 (S)	%				184	33-120	S0
Phenol-d6 (S)	%				40	11-120	
Terphenyl-d14 (S)	%				99	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-275

Pace Project No.: 60167476

QC Batch:	WET/47535	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60167476001		

METHOD BLANK: 1368080 Matrix: Water

Associated Lab Samples: 60167476001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/27/14 09:01	

LABORATORY CONTROL SAMPLE: 1368081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	35.9	90	78-114	

MATRIX SPIKE SAMPLE: 1368082

Parameter	Units	60167085001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40.4	37.6	91	78-114	

SAMPLE DUPLICATE: 1368083

Parameter	Units	60167149001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	1.8J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-275

Pace Project No.: 60167476

QC Batch: WET/47537

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60167476001

METHOD BLANK: 1368113

Matrix: Water

Associated Lab Samples: 60167476001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	04/28/14 07:17	

LABORATORY CONTROL SAMPLE: 1368114

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: 1368115

Parameter	Units	60167335001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20.6	15.3	68	64-132	

SAMPLE DUPLICATE: 1368116

Parameter	Units	60167335002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	1.6J		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-275

Pace Project No.: 60167476

QC Batch: WET/47433

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60167476001

METHOD BLANK: 1364431

Matrix: Water

Associated Lab Samples: 60167476001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/22/14 13:57	

SAMPLE DUPLICATE: 1364432

Parameter	Units	60167356002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	8.0	8.0	0	10	

SAMPLE DUPLICATE: 1364433

Parameter	Units	60167475001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	4140	4160	0	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-275

Pace Project No.: 60167476

QC Batch: WET/47469 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60167476001

SAMPLE DUPLICATE: 1365341

Parameter	Units	60167475001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.3	5.2	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-275

Pace Project No.: 60167476

QC Batch: WET/47426

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60167476001

METHOD BLANK: 1364260

Matrix: Water

Associated Lab Samples: 60167476001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/26/14 09:26	

LABORATORY CONTROL SAMPLE: 1364261

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	173	87	85-115	

SAMPLE DUPLICATE: 1364262

Parameter	Units	60167471002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	104	108	4	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-275

Pace Project No.: 60167476

QC Batch:	WETA/29135	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60167476001		

METHOD BLANK: 1366611 Matrix: Water

Associated Lab Samples: 60167476001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/25/14 09:02	

LABORATORY CONTROL SAMPLE: 1366612

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	101	90-110	

MATRIX SPIKE SAMPLE: 1366613

Parameter	Units	60167437002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	31.5	20	46.1	73	90-110	M1

MATRIX SPIKE SAMPLE: 1366614

Parameter	Units	60167570005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.9	91	90-110	

SAMPLE DUPLICATE: 1366615

Parameter	Units	60167570010 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-275

Pace Project No.: 60167476

QC Batch:	WETA/29163	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60167476001		

METHOD BLANK: 1368199 Matrix: Water
Associated Lab Samples: 60167476001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	04/28/14 11:29	

LABORATORY CONTROL SAMPLE: 1368200

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	50.5	101	90-110	

MATRIX SPIKE SAMPLE: 1368201

Parameter	Units	60167413001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	58900	25000	81800	92	90-110	

SAMPLE DUPLICATE: 1368202

Parameter	Units	60167476001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	62700	59000	6	25	

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QUALIFIERS

Project: BRIDGETON LF 316-275

Pace Project No.: 60167476

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 316-275

Pace Project No.: 60167476

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60167476001	316-275	EPA 200.7	MPRP/26963	EPA 200.7	ICP/20464
60167476001	316-275	EPA 200.7	MPRP/26968	EPA 200.7	ICP/20469
60167476001	316-275	EPA 245.1	MERP/8322	EPA 245.1	MERC/8275
60167476001	316-275	EPA 245.1	MERP/8327	EPA 245.1	MERC/8282
60167476001	316-275	EPA 625	OEXT/43832	EPA 625	MSSV/13989
60167476001	316-275	EPA 624 Low	MSV/61061		
60167476002	TRIP BLANK	EPA 624 Low	MSV/61061		
60167476001	316-275	EPA 1664A	WET/47535		
60167476001	316-275	EPA 1664A	WET/47537		
60167476001	316-275	SM 2540D	WET/47433		
60167476001	316-275	SM 4500-H+B	WET/47469		
60167476001	316-275	SM 5210B	WET/47426	SM 5210B	WET/47557
60167476001	316-275	EPA 350.1	WETA/29135		
60167476001	316-275	EPA 410.4	WETA/29163		

REPORT OF LABORATORY ANALYSIS

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WO#: 60167476



60167476



Sample Condition Upon Receipt

Client Name: BarrCourier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☒ K/O a/cTracking #: _____ 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-194Type of Ice: Yes Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)Cooler Temperature: 4.4Date and initials of person examining contents: W 4/21/14

Temperature should be above freezing to 6°C

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☒ Yes ☐ No ☐ N/A	6. <u>Ben</u>
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	
Pace containers used:	☒ Yes ☐ No ☐ N/A	9.
Containers intact:	☒ Yes ☐ No ☐ N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	11.
Filtered volume received for dissolved tests?	☐ Yes ☒ No ☐ N/A	12.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	
Includes date/time/ID/analyses Matrix: <u>wt</u>		13.
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	<u>HNO3 initial pH ~5.0; added 2.5 ml; final pH ~4.0</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☒ No ☐ N/A	<u>H2SO4 initial pH ~5.0; added 2 ml; final pH ~3.0</u>
Exceptions: <u>VOA</u> , coliform, TOC, O&G, WI-DRO (water), Phenolics	☒ Yes ☐ No	Initial when completed <u>h</u> Lot # of added preservative
Trip Blank present:	☒ Yes ☐ No ☐ N/A	
Pace Trip Blank lot # (if purchased):		15.
Headspace in VOA vials (>6mm):	☐ Yes ☒ No ☐ N/A	
		16.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ N/A	17. List State: <u>MD</u>

Client Notification/ Resolution:

Copy COC to Client? Y / NField Data Required? Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: 4/21/14

April 28, 2014

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

RE: Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60167477

Dear Ed Galbraith:

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



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

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167477

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.: 60167477

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60167477001	TCLP 4-19-14	Water	04/19/14 10:33	04/21/14 13:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167477

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60167477001	TCLP 4-19-14	EPA 8260	RAB	13
		EPA 5030B/8260	PRG	28
		EPA 1664A	JMC1	1
		SM 2540B	RAH	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167477

Sample: TCLP 4-19-14		Lab ID: 60167477001	Collected: 04/19/14 10:33	Received: 04/21/14 13:25	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; 04/25/14 00:00						
Benzene	469 ug/L		250	5		04/25/14 19:50	71-43-2	
2-Butanone (MEK)	52900 ug/L		5000	5		04/25/14 19:50	78-93-3	
Carbon tetrachloride	ND ug/L		250	5		04/25/14 19:50	56-23-5	
Chlorobenzene	ND ug/L		250	5		04/25/14 19:50	108-90-7	
Chloroform	ND ug/L		1000	5		04/25/14 19:50	67-66-3	
1,2-Dichloroethane	ND ug/L		250	5		04/25/14 19:50	107-06-2	
1,1-Dichloroethene	ND ug/L		250	5		04/25/14 19:50	75-35-4	
Tetrachloroethene	ND ug/L		250	5		04/25/14 19:50	127-18-4	
Trichloroethene	ND ug/L		250	5		04/25/14 19:50	79-01-6	
Vinyl chloride	ND ug/L		100	5		04/25/14 19:50	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	92 %		80-120	5		04/25/14 19:50	17060-07-0	
Toluene-d8 (S)	100 %		80-120	5		04/25/14 19:50	2037-26-5	
4-Bromofluorobenzene (S)	101 %		80-120	5		04/25/14 19:50	460-00-4	
8260 MSV		Analytical Method: EPA 5030B/8260						
Acetone	124000 ug/L		2500	250		04/24/14 12:25	67-64-1	
Benzene	933 ug/L		250	250		04/24/14 12:25	71-43-2	
Bromodichloromethane	ND ug/L		250	250		04/24/14 12:25	75-27-4	
Bromoform	ND ug/L		250	250		04/24/14 12:25	75-25-2	
Bromomethane	ND ug/L		1250	250		04/24/14 12:25	74-83-9	
2-Butanone (MEK)	63900 ug/L		2500	250		04/24/14 12:25	78-93-3	
Carbon tetrachloride	ND ug/L		250	250		04/24/14 12:25	56-23-5	
Chloroethane	ND ug/L		250	250		04/24/14 12:25	75-00-3	
Chloroform	ND ug/L		250	250		04/24/14 12:25	67-66-3	
1,4-Dichlorobenzene	752 ug/L		250	250		04/24/14 12:25	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		04/24/14 12:25	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		04/24/14 12:25	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		250	250		04/24/14 12:25	156-60-5	
Ethylbenzene	251 ug/L		250	250		04/24/14 12:25	100-41-4	
Methylene chloride	ND ug/L		250	250		04/24/14 12:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		04/24/14 12:25	108-10-1	
1,1,1,2-Tetrachloroethane	ND ug/L		250	250		04/24/14 12:25	79-34-5	
Tetrachloroethene	ND ug/L		250	250		04/24/14 12:25	127-18-4	
Toluene	ND ug/L		250	250		04/24/14 12:25	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		04/24/14 12:25	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		04/24/14 12:25	79-00-5	
Trichloroethene	ND ug/L		250	250		04/24/14 12:25	79-01-6	
Vinyl chloride	ND ug/L		250	250		04/24/14 12:25	75-01-4	
Xylene (Total)	ND ug/L		750	250		04/24/14 12:25	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	96 %		80-120	250		04/24/14 12:25	460-00-4	HS
1,2-Dichloroethane-d4 (S)	98 %		80-120	250		04/24/14 12:25	17060-07-0	
Toluene-d8 (S)	96 %		80-120	250		04/24/14 12:25	2037-26-5	
Preservation pH	5.0		0.10	250		04/24/14 12:25		pH

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167477

Sample: TCLP 4-19-14		Lab ID: 60167477001	Collected: 04/19/14 10:33	Received: 04/21/14 13:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	178	mg/L	5.0	1		04/27/14 09:05		
2540B Total Solids	Analytical Method: SM 2540B							
Total Solids	26400	mg/L	5.0	1		04/23/14 15:28		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167477

QC Batch:	MSV/61155	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV TCLP
Associated Lab Samples:	60167477001		

METHOD BLANK: 1367436 Matrix: Water

Associated Lab Samples: 60167477001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	04/25/14 19:35	
1,2-Dichloroethane	ug/L	ND	50.0	04/25/14 19:35	
2-Butanone (MEK)	ug/L	ND	1000	04/25/14 19:35	
Benzene	ug/L	ND	50.0	04/25/14 19:35	
Carbon tetrachloride	ug/L	ND	50.0	04/25/14 19:35	
Chlorobenzene	ug/L	ND	50.0	04/25/14 19:35	
Chloroform	ug/L	ND	200	04/25/14 19:35	
Tetrachloroethene	ug/L	ND	50.0	04/25/14 19:35	
Trichloroethene	ug/L	ND	50.0	04/25/14 19:35	
Vinyl chloride	ug/L	ND	20.0	04/25/14 19:35	
1,2-Dichloroethane-d4 (S)	%	94	80-120	04/25/14 19:35	
4-Bromofluorobenzene (S)	%	101	80-120	04/25/14 19:35	
Toluene-d8 (S)	%	99	80-120	04/25/14 19:35	

LABORATORY CONTROL SAMPLE: 1367437

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	1000	974	97	78-126	
1,2-Dichloroethane	ug/L	1000	989	99	77-123	
2-Butanone (MEK)	ug/L	5000	5260	105	52-145	
Benzene	ug/L	1000	1000	100	80-120	
Carbon tetrachloride	ug/L	1000	932	93	78-128	
Chlorobenzene	ug/L	1000	996	100	80-120	
Chloroform	ug/L	1000	977	98	79-120	
Tetrachloroethene	ug/L	1000	973	97	80-121	
Trichloroethene	ug/L	1000	988	99	80-120	
Vinyl chloride	ug/L	1000	1050	105	59-120	
1,2-Dichloroethane-d4 (S)	%			94	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1367438

Parameter	Units	60167477001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	5000	4240	85	60-144	
1,2-Dichloroethane	ug/L	ND	5000	4800	96	49-148	
2-Butanone (MEK)	ug/L	52900	25000	86600	135	36-145	
Benzene	ug/L	469	5000	5210	95	37-157	
Carbon tetrachloride	ug/L	ND	5000	4330	87	68-142	
Chlorobenzene	ug/L	ND	5000	4790	95	66-133	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167477

MATRIX SPIKE SAMPLE:		1367438					
Parameter	Units	60167477001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloroform	ug/L	ND	5000	4460	89	66-127	
Tetrachloroethene	ug/L	ND	5000	4540	91	69-133	
Trichloroethene	ug/L	ND	5000	4580	92	61-135	
Vinyl chloride	ug/L	ND	5000	3760	75	44-128	
1,2-Dichloroethane-d4 (S)	%				93	80-120	
4-Bromofluorobenzene (S)	%				100	80-120	
Toluene-d8 (S)	%				99	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167477

QC Batch:	MSV/61082	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
Associated Lab Samples:	60167477001		

METHOD BLANK: 1366036 Matrix: Water

Associated Lab Samples: 60167477001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/24/14 10:25	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/24/14 10:25	
1,1,2-Trichloroethane	ug/L	ND	1.0	04/24/14 10:25	
1,2-Dichloroethane	ug/L	ND	1.0	04/24/14 10:25	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/24/14 10:25	
2-Butanone (MEK)	ug/L	ND	10.0	04/24/14 10:25	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/24/14 10:25	
Acetone	ug/L	ND	10.0	04/24/14 10:25	
Benzene	ug/L	ND	1.0	04/24/14 10:25	
Bromodichloromethane	ug/L	ND	1.0	04/24/14 10:25	
Bromoform	ug/L	ND	1.0	04/24/14 10:25	
Bromomethane	ug/L	ND	5.0	04/24/14 10:25	
Carbon tetrachloride	ug/L	ND	1.0	04/24/14 10:25	
Chloroethane	ug/L	ND	1.0	04/24/14 10:25	
Chloroform	ug/L	ND	1.0	04/24/14 10:25	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/24/14 10:25	
Ethylbenzene	ug/L	ND	1.0	04/24/14 10:25	
Methylene chloride	ug/L	ND	1.0	04/24/14 10:25	
Tetrachloroethene	ug/L	ND	1.0	04/24/14 10:25	
Toluene	ug/L	ND	1.0	04/24/14 10:25	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/24/14 10:25	
Trichloroethene	ug/L	ND	1.0	04/24/14 10:25	
Vinyl chloride	ug/L	ND	1.0	04/24/14 10:25	
Xylene (Total)	ug/L	ND	3.0	04/24/14 10:25	
1,2-Dichloroethane-d4 (S)	%	97	80-120	04/24/14 10:25	
4-Bromofluorobenzene (S)	%	100	80-120	04/24/14 10:25	
Toluene-d8 (S)	%	102	80-120	04/24/14 10:25	

LABORATORY CONTROL SAMPLE: 1366037

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.4	97	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	22.6	113	73-124	
1,1,2-Trichloroethane	ug/L	20	19.9	100	80-120	
1,2-Dichloroethane	ug/L	20	19.1	95	77-123	
1,4-Dichlorobenzene	ug/L	20	20.3	102	80-120	
2-Butanone (MEK)	ug/L	100	95.3	95	52-145	
4-Methyl-2-pentanone (MIBK)	ug/L	100	105	105	71-131	
Acetone	ug/L	100	96.2	96	32-155	
Benzene	ug/L	20	20.9	104	80-120	
Bromodichloromethane	ug/L	20	20.8	104	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167477

LABORATORY CONTROL SAMPLE: 1366037

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.8	99	73-124	
Bromomethane	ug/L	20	17.8	89	31-144	
Carbon tetrachloride	ug/L	20	17.9	89	78-128	
Chloroethane	ug/L	20	15.7	78	55-137	
Chloroform	ug/L	20	19.6	98	79-120	
cis-1,2-Dichloroethene	ug/L	20	20.6	103	80-120	
Ethylbenzene	ug/L	20	19.3	96	80-121	
Methylene chloride	ug/L	20	19.4	97	73-126	
Tetrachloroethene	ug/L	20	19.7	99	80-121	
Toluene	ug/L	20	20.3	101	80-122	
trans-1,2-Dichloroethene	ug/L	20	18.8	94	79-121	
Trichloroethene	ug/L	20	19.1	95	80-120	
Vinyl chloride	ug/L	20	15.9	80	59-120	
Xylene (Total)	ug/L	60	60.4	101	80-121	
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			95	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167477

QC Batch:	WET/47535	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60167477001		

METHOD BLANK: 1368080 Matrix: Water

Associated Lab Samples: 60167477001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/27/14 09:01	

LABORATORY CONTROL SAMPLE: 1368081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	35.9	90	78-114	

MATRIX SPIKE SAMPLE: 1368082

Parameter	Units	60167085001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40.4	37.6	91	78-114	

SAMPLE DUPLICATE: 1368083

Parameter	Units	60167149001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	1.8J		18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167477

QC Batch: WET/47455

Analysis Method: SM 2540B

QC Batch Method: SM 2540B

Analysis Description: 2540B Total Solids

Associated Lab Samples: 60167477001

METHOD BLANK: 1365107

Matrix: Water

Associated Lab Samples: 60167477001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	5.0	04/23/14 15:27	

LABORATORY CONTROL SAMPLE: 1365108

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	1000	994	99	80-120	

SAMPLE DUPLICATE: 1365109

Parameter	Units	60167522001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	14900	15000	0	10	

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QUALIFIERS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167477

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/61082

[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).

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.: 60167477

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60167477001	TCLP 4-19-14	EPA 8260	MSV/61155		
60167477001	TCLP 4-19-14	EPA 5030B/8260	MSV/61082		
60167477001	TCLP 4-19-14	EPA 1664A	WET/47535		
60167477001	TCLP 4-19-14	SM 2540B	WET/47455		

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Sample Condition Upon Receipt

WO#: 60167477



Client Name: Barr

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

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: 17.8

(circle one)
melted

Date and initials of person examining contents: m 4/21/14

Temperature should be above freezing to 6°C

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

Date: 4/22/14

Section A

Required Client Information:

Section B

Required Project Information:

Section C

Invoice Information:

Page:

of

Company: BARR ENGINEERING		Report To: ED GALBRAITH/BARR	Invoice Information: Attention: JANET ROLLEN		
Address:		Copy To: SCOTT FEDAK/FEEZOR	Company Name: REPUBLIC SERVICES	REGULATORY AGENCY	
		DANA BAKER/MARGARET TREANOR-BARR	Address: BRIDGETON, MO 63044		
Email To:		Purchase Order No.: PO 3727110	Pace Quote Reference:	☐ NPDES ☐ GROUND-WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER _____	
Phone:	Fax:	Project Name: MONTHLY UNTREATED COMMINGLED	Pace Project Manager: Angie Brown 913-563-1402	Site Location	MO
Requested Due Date/TAT:		Project Number:	Pace Profile #: PROFILE 6787-LINE 6		

[illegible]

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>William Abernathy</i>					
DATE Signed (MM/DD/YY): <i>4/19/14</i>					

April 30, 2014

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

RE: Project: BRIDGETON LF CB 04-21-14
Pace Project No.: 60167571

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 23, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF CB 04-21-14

Pace Project No.: 60167571

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 CB 04-21-14

Pace Project No.: 60167571

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60167571001	CB 04-21-14	Water	04/21/14 09:46	04/23/14 02:00
60167571002	TRIP BLANK	Water	04/21/14 09:46	04/23/14 02:00

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF CB 04-21-14

Pace Project No.: 60167571

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60167571001	CB 04-21-14	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	JML	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
		EPA 624 Low	EAK	28
60167571002	TRIP BLANK			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 04-21-14

Pace Project No.: 60167571

Sample: CB 04-21-14		Lab ID: 60167571001	Collected: 04/21/14 09:46	Received: 04/23/14 02:00	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	7010 ug/L		750	2	04/23/14 17:20	04/24/14 11:33	7429-90-5	
Antimony	ND ug/L		100	2	04/23/14 17:20	04/24/14 11:33	7440-36-0	D3
Arsenic	1020 ug/L		50.0	1	04/23/14 17:20	04/24/14 11:29	7440-38-2	
Beryllium	ND ug/L		5.0	1	04/23/14 17:20	04/24/14 11:29	7440-41-7	
Cadmium	ND ug/L		25.0	1	04/23/14 17:20	04/24/14 11:29	7440-43-9	
Chromium	239 ug/L		25.0	1	04/23/14 17:20	04/24/14 11:29	7440-47-3	
Cobalt	43.5 ug/L		25.0	1	04/23/14 17:20	04/24/14 11:29	7440-48-4	
Copper	ND ug/L		50.0	1	04/23/14 17:20	04/24/14 11:29	7440-50-8	
Iron	70600 ug/L		250	1	04/23/14 17:20	04/24/14 11:29	7439-89-6	
Lead	108 ug/L		25.0	1	04/23/14 17:20	04/24/14 11:29	7439-92-1	
Nickel	124 ug/L		25.0	1	04/23/14 17:20	04/24/14 11:29	7440-02-0	
Selenium	84.4 ug/L		75.0	1	04/23/14 17:20	04/24/14 11:29	7782-49-2	
Silver	ND ug/L		35.0	1	04/23/14 17:20	04/24/14 11:29	7440-22-4	
Thallium	ND ug/L		100	1	04/23/14 17:20	04/24/14 11:29	7440-28-0	
Zinc	6410 ug/L		500	2	04/23/14 17:20	04/24/14 11:33	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	905 ug/L		750	2	04/28/14 16:45	04/29/14 19:42	7429-90-5	
Antimony, Dissolved	ND ug/L		100	2	04/28/14 16:45	04/29/14 19:42	7440-36-0	D3
Arsenic, Dissolved	710 ug/L		50.0	1	04/28/14 16:45	04/29/14 19:38	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	04/28/14 16:45	04/29/14 19:38	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	04/28/14 16:45	04/29/14 19:38	7440-43-9	
Chromium, Dissolved	137 ug/L		25.0	1	04/28/14 16:45	04/29/14 19:38	7440-47-3	
Cobalt, Dissolved	ND ug/L		25.0	1	04/28/14 16:45	04/29/14 19:38	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	04/28/14 16:45	04/29/14 19:38	7440-50-8	
Iron, Dissolved	291000 ug/L		250	1	04/28/14 16:45	04/29/14 19:38	7439-89-6	
Lead, Dissolved	30.1 ug/L		25.0	1	04/28/14 16:45	04/29/14 19:38	7439-92-1	
Nickel, Dissolved	77.2 ug/L		25.0	1	04/28/14 16:45	04/29/14 19:38	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	04/28/14 16:45	04/29/14 19:38	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	04/28/14 16:45	04/29/14 19:38	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	04/28/14 16:45	04/29/14 19:38	7440-28-0	
Zinc, Dissolved	4980 ug/L		500	2	04/28/14 16:45	04/29/14 19:42	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	21.2 ug/L		6.0	1	04/25/14 10:15	04/25/14 15:53	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	04/30/14 11:00	04/30/14 14:50	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	04/25/14 00:00	04/29/14 12:30	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	04/25/14 00:00	04/29/14 12:30	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	04/25/14 00:00	04/29/14 12:30	77-47-4	
Hexachloroethane	ND ug/L		1000	2	04/25/14 00:00	04/29/14 12:30	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	04/25/14 00:00	04/29/14 12:30	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	6810 ug/L		4000	2	04/25/14 00:00	04/29/14 12:30		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 04-21-14

Pace Project No.: 60167571

Sample: CB 04-21-14		Lab ID: 60167571001	Collected: 04/21/14 09:46	Received: 04/23/14 02:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	1150 ug/L		1000	2	04/25/14 00:00	04/29/14 12:30	91-20-3	
Nitrobenzene	ND ug/L		1000	2	04/25/14 00:00	04/29/14 12:30	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	04/25/14 00:00	04/29/14 12:30	87-86-5	
Phenol	9910 ug/L		1000	2	04/25/14 00:00	04/29/14 12:30	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	04/25/14 00:00	04/29/14 12:30	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	04/25/14 00:00	04/29/14 12:30	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	137 %		33-120	2	04/25/14 00:00	04/29/14 12:30	4165-60-0	S0
2-Fluorobiphenyl (S)	84 %		39-120	2	04/25/14 00:00	04/29/14 12:30	321-60-8	
Terphenyl-d14 (S)	89 %		45-120	2	04/25/14 00:00	04/29/14 12:30	1718-51-0	
Phenol-d6 (S)	33 %		11-120	2	04/25/14 00:00	04/29/14 12:30	13127-88-3	
2-Fluorophenol (S)	43 %		17-120	2	04/25/14 00:00	04/29/14 12:30	367-12-4	
2,4,6-Tribromophenol (S)	98 %		39-120	2	04/25/14 00:00	04/29/14 12:30	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	123000 ug/L		2500	250		04/23/14 21:00	67-64-1	N2
Benzene	ND ug/L		250	250		04/23/14 21:00	71-43-2	
Bromodichloromethane	ND ug/L		250	250		04/23/14 21:00	75-27-4	
Bromoform	ND ug/L		250	250		04/23/14 21:00	75-25-2	
Bromomethane	ND ug/L		1250	250		04/23/14 21:00	74-83-9	
2-Butanone (MEK)	57800 ug/L		2500	250		04/23/14 21:00	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		04/23/14 21:00	56-23-5	
Chloroethane	ND ug/L		250	250		04/23/14 21:00	75-00-3	
Chloroform	ND ug/L		250	250		04/23/14 21:00	67-66-3	
1,4-Dichlorobenzene	794 ug/L		250	250		04/23/14 21:00	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		04/23/14 21:00	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		04/23/14 21:00	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		04/23/14 21:00	156-60-5	
Ethylbenzene	ND ug/L		250	250		04/23/14 21:00	100-41-4	
Methylene chloride	ND ug/L		250	250		04/23/14 21:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		04/23/14 21:00	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		04/23/14 21:00	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		04/23/14 21:00	127-18-4	
Toluene	ND ug/L		250	250		04/23/14 21:00	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		04/23/14 21:00	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		04/23/14 21:00	79-00-5	
Trichloroethene	ND ug/L		250	250		04/23/14 21:00	79-01-6	
Vinyl chloride	ND ug/L		250	250		04/23/14 21:00	75-01-4	
Xylene (Total)	ND ug/L		750	250		04/23/14 21:00	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	106 %		80-120	250		04/23/14 21:00	460-00-4	
Toluene-d8 (S)	99 %		80-120	250		04/23/14 21:00	2037-26-5	
1,2-Dichloroethane-d4 (S)	103 %		80-120	250		04/23/14 21:00	17060-07-0	
Preservation pH	6.0		1.0	250		04/23/14 21:00		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1260 mg/L		5.0	1		04/29/14 07:06		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 04-21-14

Pace Project No.: 60167571

Sample: CB 04-21-14		Lab ID: 60167571001	Collected: 04/21/14 09:46		Received: 04/23/14 02:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	11.5	mg/L	5.0	1		04/29/14 07:10		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	3780	mg/L	5.0	1		04/24/14 09:24		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.3	Std. Units	0.10	1		04/26/14 09:01		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	29200	mg/L	200	100	04/23/14 09:40	04/28/14 13:26		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	499	mg/L	20.0	200		04/25/14 09:30	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	49100	mg/L	5000	500		04/30/14 12:44		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 04-21-14

Pace Project No.: 60167571

Sample: TRIP BLANK		Lab ID: 60167571002	Collected: 04/21/14 09:46	Received: 04/23/14 02:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		04/23/14 17:53	67-64-1	N2
Benzene	ND ug/L		1.0	1		04/23/14 17:53	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/23/14 17:53	75-27-4	
Bromoform	ND ug/L		1.0	1		04/23/14 17:53	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/23/14 17:53	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/23/14 17:53	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		04/23/14 17:53	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/23/14 17:53	75-00-3	
Chloroform	ND ug/L		1.0	1		04/23/14 17:53	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/23/14 17:53	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/23/14 17:53	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/23/14 17:53	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/23/14 17:53	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/23/14 17:53	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/23/14 17:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/23/14 17:53	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/23/14 17:53	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/23/14 17:53	127-18-4	
Toluene	ND ug/L		1.0	1		04/23/14 17:53	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/23/14 17:53	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/23/14 17:53	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/23/14 17:53	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/23/14 17:53	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/23/14 17:53	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	96 %		80-120	1		04/23/14 17:53	460-00-4	
Toluene-d8 (S)	101 %		80-120	1		04/23/14 17:53	2037-26-5	
1,2-Dichloroethane-d4 (S)	102 %		80-120	1		04/23/14 17:53	17060-07-0	
Preservation pH	6.0		1.0	1		04/23/14 17:53		

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-21-14

Pace Project No.: 60167571

QC Batch: MERP/8334

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60167571001

METHOD BLANK: 1366765

Matrix: Water

Associated Lab Samples: 60167571001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/25/14 15:10	

LABORATORY CONTROL SAMPLE: 1366766

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1366767 1366768

Parameter	Units	60167270001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.3	4.6	85	91	70-130	7	20	

MATRIX SPIKE SAMPLE: 1366769

Parameter	Units	60167479003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	3.9	78	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-21-14

Pace Project No.: 60167571

QC Batch:	MERP/8352	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60167571001		

METHOD BLANK: 1369342 Matrix: Water

Associated Lab Samples: 60167571001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/30/14 14:46	

LABORATORY CONTROL SAMPLE: 1369343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.5	90	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1369344 1369345

Parameter	Units	60167571001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	116	122	77	81	70-130	5	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-21-14

Pace Project No.: 60167571

QC Batch:	MPRP/26963	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
Associated Lab Samples:	60167571001		

METHOD BLANK: 1365470 Matrix: Water

Associated Lab Samples: 60167571001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/24/14 10:45	
Antimony	ug/L	ND	10.0	04/24/14 10:45	
Arsenic	ug/L	ND	10.0	04/24/14 10:45	
Beryllium	ug/L	ND	1.0	04/24/14 10:45	
Cadmium	ug/L	ND	5.0	04/24/14 10:45	
Chromium	ug/L	ND	5.0	04/24/14 10:45	
Cobalt	ug/L	ND	5.0	04/24/14 10:45	
Copper	ug/L	ND	10.0	04/24/14 10:45	
Iron	ug/L	ND	50.0	04/24/14 10:45	
Lead	ug/L	ND	5.0	04/24/14 10:45	
Nickel	ug/L	ND	5.0	04/24/14 10:45	
Selenium	ug/L	ND	15.0	04/24/14 10:45	
Silver	ug/L	ND	7.0	04/24/14 10:45	
Thallium	ug/L	ND	20.0	04/24/14 10:45	
Zinc	ug/L	ND	50.0	04/24/14 10:45	

LABORATORY CONTROL SAMPLE: 1365471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10200	102	85-115	
Antimony	ug/L	1000	1060	106	85-115	
Arsenic	ug/L	1000	1010	101	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1030	103	85-115	
Chromium	ug/L	1000	1010	101	85-115	
Cobalt	ug/L	1000	1050	105	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	10400	104	85-115	
Lead	ug/L	1000	1040	104	85-115	
Nickel	ug/L	1000	1060	106	85-115	
Selenium	ug/L	1000	1040	104	85-115	
Silver	ug/L	500	502	100	85-115	
Thallium	ug/L	1000	1070	107	85-115	
Zinc	ug/L	1000	1010	101	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-21-14

Pace Project No.: 60167571

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1365472 1365473											
Parameter	Units	60167264001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Aluminum	ug/L	1.0 mg/L	10000	10000	12300	11800	113	107	70-130	5	8
Antimony	ug/L	ND	1000	1000	1190	1140	119	114	70-130	4	7
Arsenic	ug/L	0.015 mg/L	1000	1000	1180	1130	116	112	70-130	4	10
Beryllium	ug/L	0.00032 J mg/L	1000	1000	956	906	96	91	70-130	5	7
Cadmium	ug/L	ND	1000	1000	1170	1120	117	112	70-130	4	10
Chromium	ug/L	0.035 mg/L	1000	1000	964	921	93	89	70-130	5	10
Cobalt	ug/L	0.0012J mg/L	1000	1000	937	897	94	90	70-130	4	6
Copper	ug/L	0.14 mg/L	1000	1000	1320	1240	117	110	70-130	6	11
Iron	ug/L	4.2 mg/L	10000	10000	13800	12900	96	87	70-130	6	10
Lead	ug/L	0.0064 mg/L	1000	1000	879	846	87	84	70-130	4	10
Nickel	ug/L	0.036 mg/L	1000	1000	952	912	92	88	70-130	4	10
Selenium	ug/L	0.0088J mg/L	1000	1000	1370	1310	136	130	70-130	4	10 M1
Silver	ug/L	ND	500	500	615	582	123	116	70-130	5	10
Thallium	ug/L	ND	1000	1000	835	804	83	80	70-130	4	6
Zinc	ug/L	0.039J mg/L	1000	1000	909	870	87	83	70-130	4	11

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-21-14

Pace Project No.: 60167571

QC Batch:	MPRP/27028	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60167571001		

METHOD BLANK: 1368500 Matrix: Water

Associated Lab Samples: 60167571001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/29/14 19:35	
Antimony, Dissolved	ug/L	ND	10.0	04/29/14 19:35	
Arsenic, Dissolved	ug/L	ND	10.0	04/29/14 19:35	
Beryllium, Dissolved	ug/L	ND	1.0	04/29/14 19:35	
Cadmium, Dissolved	ug/L	ND	5.0	04/29/14 19:35	
Chromium, Dissolved	ug/L	ND	5.0	04/29/14 19:35	
Cobalt, Dissolved	ug/L	ND	5.0	04/29/14 19:35	
Copper, Dissolved	ug/L	ND	10.0	04/29/14 19:35	
Iron, Dissolved	ug/L	ND	50.0	04/29/14 19:35	
Lead, Dissolved	ug/L	ND	5.0	04/29/14 19:35	
Nickel, Dissolved	ug/L	ND	5.0	04/29/14 19:35	
Selenium, Dissolved	ug/L	ND	15.0	04/29/14 19:35	
Silver, Dissolved	ug/L	ND	7.0	04/29/14 19:35	
Thallium, Dissolved	ug/L	ND	20.0	04/29/14 19:35	
Zinc, Dissolved	ug/L	ND	50.0	04/29/14 19:35	

LABORATORY CONTROL SAMPLE: 1368501

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	1010	101	85-115	
Beryllium, Dissolved	ug/L	1000	956	96	85-115	
Cadmium, Dissolved	ug/L	1000	1030	103	85-115	
Chromium, Dissolved	ug/L	1000	989	99	85-115	
Cobalt, Dissolved	ug/L	1000	1060	106	85-115	
Copper, Dissolved	ug/L	1000	984	98	85-115	
Iron, Dissolved	ug/L	10000	9430	94	85-115	
Lead, Dissolved	ug/L	1000	1070	107	85-115	
Nickel, Dissolved	ug/L	1000	1100	110	85-115	
Selenium, Dissolved	ug/L	1000	1060	106	85-115	
Silver, Dissolved	ug/L	500	494	99	85-115	
Thallium, Dissolved	ug/L	1000	1040	104	85-115	
Zinc, Dissolved	ug/L	1000	1080	108	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1368502 1368503

Parameter	Units	MS Result	MSD Spike Conc.	MS Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	ND	10000	10000	9930	10200	99	102	70-130	3	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-21-14

Pace Project No.: 60167571

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1368502 1368503											
Parameter	Units	60167588001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	1000	1000	1050	1070	105	107	70-130	2	7
Arsenic, Dissolved	ug/L	4.8J	1000	1000	1010	1030	101	102	70-130	2	10
Beryllium, Dissolved	ug/L	ND	1000	1000	939	1010	94	101	70-130	7	7
Cadmium, Dissolved	ug/L	ND	1000	1000	1030	1050	103	105	70-130	2	10
Chromium, Dissolved	ug/L	ND	1000	1000	963	984	96	98	70-130	2	10
Cobalt, Dissolved	ug/L	ND	1000	1000	1040	1050	104	105	70-130	2	6
Copper, Dissolved	ug/L	ND	1000	1000	976	992	98	99	70-130	2	11
Iron, Dissolved	ug/L	ND	10000	10000	9020	9800	90	98	70-130	8	10
Lead, Dissolved	ug/L	ND	1000	1000	1050	1070	105	107	70-130	1	10
Nickel, Dissolved	ug/L	ND	1000	1000	1080	1100	108	110	70-130	2	10
Selenium, Dissolved	ug/L	ND	1000	1000	1060	1080	106	108	70-130	2	10
Silver, Dissolved	ug/L	ND	500	500	491	503	98	101	70-130	2	10
Thallium, Dissolved	ug/L	ND	1000	1000	1020	1030	102	103	70-130	2	6
Zinc, Dissolved	ug/L	ND	1000	1000	1060	1080	105	107	70-130	2	11

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-21-14

Pace Project No.: 60167571

QC Batch: MSV/61061 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60167571001, 60167571002

METHOD BLANK: 1365522

Matrix: Water

Associated Lab Samples: 60167571001, 60167571002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/23/14 17:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/23/14 17:07	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/23/14 17:07	
1,2-Dichloroethane	ug/L	ND	1.0	04/23/14 17:07	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/23/14 17:07	
2-Butanone (MEK)	ug/L	ND	10.0	04/23/14 17:07	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/23/14 17:07	N2
Acetone	ug/L	ND	10.0	04/23/14 17:07	N2
Benzene	ug/L	ND	1.0	04/23/14 17:07	
Bromodichloromethane	ug/L	ND	1.0	04/23/14 17:07	
Bromoform	ug/L	ND	1.0	04/23/14 17:07	
Bromomethane	ug/L	ND	5.0	04/23/14 17:07	
Carbon tetrachloride	ug/L	ND	1.0	04/23/14 17:07	
Chloroethane	ug/L	ND	1.0	04/23/14 17:07	
Chloroform	ug/L	ND	1.0	04/23/14 17:07	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/23/14 17:07	N2
Ethylbenzene	ug/L	ND	1.0	04/23/14 17:07	
Methylene chloride	ug/L	ND	1.0	04/23/14 17:07	
Tetrachloroethene	ug/L	ND	1.0	04/23/14 17:07	
Toluene	ug/L	ND	1.0	04/23/14 17:07	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/23/14 17:07	
Trichloroethene	ug/L	ND	1.0	04/23/14 17:07	
Vinyl chloride	ug/L	ND	1.0	04/23/14 17:07	
Xylene (Total)	ug/L	ND	3.0	04/23/14 17:07	N2
1,2-Dichloroethane-d4 (S)	%	100	80-120	04/23/14 17:07	
4-Bromofluorobenzene (S)	%	98	80-120	04/23/14 17:07	
Toluene-d8 (S)	%	100	80-120	04/23/14 17:07	

LABORATORY CONTROL SAMPLE: 1365523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.5	98	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.1	101	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.7	98	67-124	
1,2-Dichloroethane	ug/L	20	19.2	96	70-126	
1,4-Dichlorobenzene	ug/L	20	20.0	100	74-120	
2-Butanone (MEK)	ug/L	100	90.6	91	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	103	103	59-131	N2
Acetone	ug/L	100	90.9	91	38-134	N2
Benzene	ug/L	20	18.8	94	75-120	
Bromodichloromethane	ug/L	20	20.5	103	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-21-14

Pace Project No.: 60167571

LABORATORY CONTROL SAMPLE: 1365523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.7	98	65-127	
Bromomethane	ug/L	20	24.3	121	13-157	
Carbon tetrachloride	ug/L	20	18.6	93	70-131	
Chloroethane	ug/L	20	20.4	102	47-133	
Chloroform	ug/L	20	18.3	92	65-127	
cis-1,2-Dichloroethene	ug/L	20	19.8	99	68-127	N2
Ethylbenzene	ug/L	20	20.4	102	74-122	
Methylene chloride	ug/L	20	19.1	95	64-129	
Tetrachloroethene	ug/L	20	19.6	98	73-125	
Toluene	ug/L	20	19.3	96	69-126	
trans-1,2-Dichloroethene	ug/L	20	19.3	96	66-129	
Trichloroethene	ug/L	20	19.4	97	71-123	
Vinyl chloride	ug/L	20	21.4	107	43-129	
Xylene (Total)	ug/L	60	60.9	101	75-121	N2
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1365524

Parameter	Units	60167475001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	5080	102	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	5000	100	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4830	97	52-143	
1,2-Dichloroethane	ug/L	ND	5000	4810	96	49-144	
1,4-Dichlorobenzene	ug/L	375	5000	5060	94	33-140	
2-Butanone (MEK)	ug/L	60400	25000	85400	100	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	26900	104	40-160	N2
Acetone	ug/L	138000	25000	165000	110	10-160	N2
Benzene	ug/L	ND	5000	4650	93	37-151	
Bromodichloromethane	ug/L	ND	5000	4870	97	35-142	
Bromoform	ug/L	ND	5000	4520	90	45-142	
Bromomethane	ug/L	ND	5000	5980	120	10-158	
Carbon tetrachloride	ug/L	ND	5000	5140	103	70-140	
Chloroethane	ug/L	ND	5000	5480	110	19-152	
Chloroform	ug/L	ND	5000	4600	92	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4960	99	34-147	N2
Ethylbenzene	ug/L	ND	5000	4920	98	40-142	
Methylene chloride	ug/L	ND	5000	4630	93	31-144	
Tetrachloroethene	ug/L	ND	5000	4720	94	64-148	
Toluene	ug/L	ND	5000	4850	97	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	4900	98	54-151	
Trichloroethene	ug/L	ND	5000	4870	97	71-149	
Vinyl chloride	ug/L	ND	5000	5800	116	22-146	
Xylene (Total)	ug/L	ND	15000	14400	96	37-144	N2
1,2-Dichloroethane-d4 (S)	%				101	80-120	
4-Bromofluorobenzene (S)	%				103	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-21-14

Pace Project No.: 60167571

MATRIX SPIKE SAMPLE:		1365524					
Parameter	Units	60167475001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				101	80-120	
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-21-14

Pace Project No.: 60167571

QC Batch:	OEXT/43857	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60167571001		

METHOD BLANK: 1366657 Matrix: Water

Associated Lab Samples: 60167571001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/29/14 11:48	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/29/14 11:48	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/29/14 11:48	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/29/14 11:48	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/29/14 11:48	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/29/14 11:48	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/29/14 11:48	
Hexachloroethane	ug/L	ND	5.0	04/29/14 11:48	
Naphthalene	ug/L	ND	5.0	04/29/14 11:48	
Nitrobenzene	ug/L	ND	5.0	04/29/14 11:48	
Pentachlorophenol	ug/L	ND	5.0	04/29/14 11:48	
Phenol	ug/L	ND	5.0	04/29/14 11:48	
2,4,6-Tribromophenol (S)	%	88	39-120	04/29/14 11:48	
2-Fluorobiphenyl (S)	%	83	39-120	04/29/14 11:48	
2-Fluorophenol (S)	%	39	17-120	04/29/14 11:48	
Nitrobenzene-d5 (S)	%	87	33-120	04/29/14 11:48	
Phenol-d6 (S)	%	26	11-120	04/29/14 11:48	
Terphenyl-d14 (S)	%	87	45-120	04/29/14 11:48	

LABORATORY CONTROL SAMPLE: 1366658

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.6	79	46-120	
2,4,6-Trichlorophenol	ug/L	50	43.5	87	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	34.1	68	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	31.1	62	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	51.7	103	40-133	
Hexachloro-1,3-butadiene	ug/L	50	37.9	76	44-116	
Hexachlorocyclopentadiene	ug/L	100	67.8	68	24-120	
Hexachloroethane	ug/L	50	38.1	76	43-113	
Naphthalene	ug/L	50	40.9	82	48-120	
Nitrobenzene	ug/L	50	43.9	88	48-120	
Pentachlorophenol	ug/L	50	49.2	98	47-120	
Phenol	ug/L	50	15.6	31	16-112	
2,4,6-Tribromophenol (S)	%			96	39-120	
2-Fluorobiphenyl (S)	%			83	39-120	
2-Fluorophenol (S)	%			43	17-120	
Nitrobenzene-d5 (S)	%			88	33-120	
Phenol-d6 (S)	%			30	11-120	
Terphenyl-d14 (S)	%			92	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-21-14

Pace Project No.: 60167571

QC Batch:	WET/47569	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60167571001		

METHOD BLANK: 1368531 Matrix: Water

Associated Lab Samples: 60167571001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/29/14 07:02	

LABORATORY CONTROL SAMPLE: 1368532

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.7	99	78-114	

MATRIX SPIKE SAMPLE: 1368533

Parameter	Units	60167262001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	1.1J	41.2	41.1	97	78-114	

SAMPLE DUPLICATE: 1368534

Parameter	Units	60167264001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	2.1J	2.2J		18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-21-14

Pace Project No.: 60167571

QC Batch: WET/47570

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60167571001

METHOD BLANK: 1368535

Matrix: Water

Associated Lab Samples: 60167571001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	04/29/14 07:09	

LABORATORY CONTROL SAMPLE: 1368536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	22.0	110	64-132	

MATRIX SPIKE SAMPLE: 1368537

Parameter	Units	60167262001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20.6	17.2	79	64-132	

SAMPLE DUPLICATE: 1368538

Parameter	Units	60167264001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	ND		34	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-21-14

Pace Project No.: 60167571

QC Batch: WET/47489

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60167571001

METHOD BLANK: 1365950

Matrix: Water

Associated Lab Samples: 60167571001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/24/14 09:23	

SAMPLE DUPLICATE: 1365951

Parameter	Units	60167492005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2300	2300	0	10	

SAMPLE DUPLICATE: 1365952

Parameter	Units	60167586001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	4420	4420	0	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-21-14

Pace Project No.: 60167571

QC Batch:	WET/47469	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
Associated Lab Samples:	60167571001		

SAMPLE DUPLICATE: 1365341

Parameter	Units	60167475001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.3	5.2	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-21-14

Pace Project No.: 60167571

QC Batch: WET/47461

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60167571001

METHOD BLANK: 1365158

Matrix: Water

Associated Lab Samples: 60167571001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/28/14 13:21	

LABORATORY CONTROL SAMPLE: 1365159

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	167	85	85-115	

SAMPLE DUPLICATE: 1365160

Parameter	Units	60167518002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	ND	ND		17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-21-14

Pace Project No.: 60167571

QC Batch:	WETA/29135	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60167571001		

METHOD BLANK: 1366611 Matrix: Water

Associated Lab Samples: 60167571001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/25/14 09:02	

LABORATORY CONTROL SAMPLE: 1366612

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	101	90-110	

MATRIX SPIKE SAMPLE: 1366613

Parameter	Units	60167437002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	31.5	20	46.1	73	90-110	M1

MATRIX SPIKE SAMPLE: 1366614

Parameter	Units	60167570005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.9	91	90-110	

SAMPLE DUPLICATE: 1366615

Parameter	Units	60167570010 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-21-14

Pace Project No.: 60167571

QC Batch:	WETA/29205	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60167571001		

METHOD BLANK: 1369323 Matrix: Water

Associated Lab Samples: 60167571001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	04/30/14 12:41	

LABORATORY CONTROL SAMPLE: 1369324

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	48.0	96	90-110	

MATRIX SPIKE SAMPLE: 1369325

Parameter	Units	60167182001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	1410	1000	2380	97	90-110	

SAMPLE DUPLICATE: 1369326

Parameter	Units	60167572001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	61700	64800	5	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF CB 04-21-14

Pace Project No.: 60167571

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 LF CB 04-21-14

Pace Project No.: 60167571

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60167571001	CB 04-21-14	EPA 200.7	MPRP/26963	EPA 200.7	ICP/20464
60167571001	CB 04-21-14	EPA 200.7	MPRP/27028	EPA 200.7	ICP/20508
60167571001	CB 04-21-14	EPA 245.1	MERP/8334	EPA 245.1	MERC/8290
60167571001	CB 04-21-14	EPA 245.1	MERP/8352	EPA 245.1	MERC/8304
60167571001	CB 04-21-14	EPA 625	OEXT/43857	EPA 625	MSSV/14009
60167571001	CB 04-21-14	EPA 624 Low	MSV/61061		
60167571002	TRIP BLANK	EPA 624 Low	MSV/61061		
60167571001	CB 04-21-14	EPA 1664A	WET/47569		
60167571001	CB 04-21-14	EPA 1664A	WET/47570		
60167571001	CB 04-21-14	SM 2540D	WET/47489		
60167571001	CB 04-21-14	SM 4500-H+B	WET/47469		
60167571001	CB 04-21-14	SM 5210B	WET/47461	SM 5210B	WET/47560
60167571001	CB 04-21-14	EPA 350.1	WETA/29135		
60167571001	CB 04-21-14	EPA 410.4	WETA/29205		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60167571



60167571

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 ☒ 2 PIC

Thermometer Used: T-239 / T-194

Type of Ice: Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2.2

Date and initials of person examining contents: 4/23/14

Temperature should be above freezing to 6°C

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

Client Notification/ Resolution:

Copy COC to Client? Y ☒ N ☐

Field Data Required? Y ☒ N ☐

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

April 30, 2014

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

RE: Project: BRIDGETON LF 316-276
Pace Project No.: 60167572

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 23, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-276

Pace Project No.: 60167572

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 316-276

Pace Project No.: 60167572

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60167572001	316-276	Water	04/21/14 12:27	04/23/14 02:00
60167572002	TRIP BLANK	Water	04/21/14 00:00	04/23/14 02:00

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-276

Pace Project No.: 60167572

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60167572001	316-276	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	JML	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
		EPA 624 Low	EAK	28
60167572002	TRIP BLANK			

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-276

Pace Project No.: 60167572

Sample: 316-276		Lab ID: 60167572001	Collected: 04/21/14 12:27	Received: 04/23/14 02:00	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	9140 ug/L		750	2	04/23/14 17:20	04/24/14 11:40	7429-90-5	
Antimony	ND ug/L		100	2	04/23/14 17:20	04/24/14 11:40	7440-36-0	D3
Arsenic	1260 ug/L		50.0	1	04/23/14 17:20	04/24/14 11:36	7440-38-2	
Beryllium	ND ug/L		5.0	1	04/23/14 17:20	04/24/14 11:36	7440-41-7	
Cadmium	ND ug/L		25.0	1	04/23/14 17:20	04/24/14 11:36	7440-43-9	
Chromium	293 ug/L		25.0	1	04/23/14 17:20	04/24/14 11:36	7440-47-3	
Cobalt	55.1 ug/L		25.0	1	04/23/14 17:20	04/24/14 11:36	7440-48-4	
Copper	ND ug/L		50.0	1	04/23/14 17:20	04/24/14 11:36	7440-50-8	
Iron	874000 ug/L		250	1	04/23/14 17:20	04/24/14 11:36	7439-89-6	
Lead	121 ug/L		25.0	1	04/23/14 17:20	04/24/14 11:36	7439-92-1	
Nickel	138 ug/L		25.0	1	04/23/14 17:20	04/24/14 11:36	7440-02-0	
Selenium	94.5 ug/L		75.0	1	04/23/14 17:20	04/24/14 11:36	7782-49-2	
Silver	ND ug/L		35.0	1	04/23/14 17:20	04/24/14 11:36	7440-22-4	
Thallium	ND ug/L		100	1	04/23/14 17:20	04/24/14 11:36	7440-28-0	
Zinc	7430 ug/L		500	2	04/23/14 17:20	04/24/14 11:40	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1290 ug/L		750	2	04/25/14 17:30	04/29/14 19:28	7429-90-5	
Antimony, Dissolved	ND ug/L		100	2	04/25/14 17:30	04/29/14 19:28	7440-36-0	D3
Arsenic, Dissolved	839 ug/L		50.0	1	04/25/14 17:30	04/29/14 19:25	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	04/25/14 17:30	04/29/14 19:25	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	04/25/14 17:30	04/29/14 19:25	7440-43-9	
Chromium, Dissolved	162 ug/L		25.0	1	04/25/14 17:30	04/29/14 19:25	7440-47-3	
Cobalt, Dissolved	28.0 ug/L		25.0	1	04/25/14 17:30	04/29/14 19:25	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	04/25/14 17:30	04/29/14 19:25	7440-50-8	
Iron, Dissolved	334000 ug/L		250	1	04/25/14 17:30	04/29/14 19:25	7439-89-6	
Lead, Dissolved	33.0 ug/L		25.0	1	04/25/14 17:30	04/29/14 19:25	7439-92-1	
Nickel, Dissolved	89.4 ug/L		25.0	1	04/25/14 17:30	04/29/14 19:25	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	04/25/14 17:30	04/29/14 19:25	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	04/25/14 17:30	04/29/14 19:25	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	04/25/14 17:30	04/29/14 19:25	7440-28-0	
Zinc, Dissolved	5460 ug/L		500	2	04/25/14 17:30	04/29/14 19:28	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	30.9 ug/L		6.0	1	04/25/14 10:15	04/25/14 15:55	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	04/30/14 11:00	04/30/14 15:04	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	04/25/14 00:00	04/29/14 12:50	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	04/25/14 00:00	04/29/14 12:50	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	04/25/14 00:00	04/29/14 12:50	77-47-4	
Hexachloroethane	ND ug/L		1000	2	04/25/14 00:00	04/29/14 12:50	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	04/25/14 00:00	04/29/14 12:50	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	8620 ug/L		4000	2	04/25/14 00:00	04/29/14 12:50		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-276

Pace Project No.: 60167572

Sample: 316-276		Lab ID: 60167572001	Collected: 04/21/14 12:27	Received: 04/23/14 02:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	1230 ug/L		1000	2	04/25/14 00:00	04/29/14 12:50	91-20-3	
Nitrobenzene	ND ug/L		1000	2	04/25/14 00:00	04/29/14 12:50	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	04/25/14 00:00	04/29/14 12:50	87-86-5	
Phenol	13300 ug/L		1000	2	04/25/14 00:00	04/29/14 12:50	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	04/25/14 00:00	04/29/14 12:50	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	04/25/14 00:00	04/29/14 12:50	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	159 %		33-120	2	04/25/14 00:00	04/29/14 12:50	4165-60-0	S0
2-Fluorobiphenyl (S)	91 %		39-120	2	04/25/14 00:00	04/29/14 12:50	321-60-8	
Terphenyl-d14 (S)	98 %		45-120	2	04/25/14 00:00	04/29/14 12:50	1718-51-0	
Phenol-d6 (S)	36 %		11-120	2	04/25/14 00:00	04/29/14 12:50	13127-88-3	
2-Fluorophenol (S)	50 %		17-120	2	04/25/14 00:00	04/29/14 12:50	367-12-4	
2,4,6-Tribromophenol (S)	110 %		39-120	2	04/25/14 00:00	04/29/14 12:50	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	120000 ug/L		2500	250		04/23/14 21:15	67-64-1	N2
Benzene	ND ug/L		250	250		04/23/14 21:15	71-43-2	
Bromodichloromethane	ND ug/L		250	250		04/23/14 21:15	75-27-4	
Bromoform	ND ug/L		250	250		04/23/14 21:15	75-25-2	
Bromomethane	ND ug/L		1250	250		04/23/14 21:15	74-83-9	
2-Butanone (MEK)	51800 ug/L		2500	250		04/23/14 21:15	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		04/23/14 21:15	56-23-5	
Chloroethane	ND ug/L		250	250		04/23/14 21:15	75-00-3	
Chloroform	ND ug/L		250	250		04/23/14 21:15	67-66-3	
1,4-Dichlorobenzene	542 ug/L		250	250		04/23/14 21:15	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		04/23/14 21:15	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		04/23/14 21:15	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		04/23/14 21:15	156-60-5	
Ethylbenzene	ND ug/L		250	250		04/23/14 21:15	100-41-4	
Methylene chloride	ND ug/L		250	250		04/23/14 21:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		04/23/14 21:15	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		04/23/14 21:15	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		04/23/14 21:15	127-18-4	
Toluene	ND ug/L		250	250		04/23/14 21:15	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		04/23/14 21:15	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		04/23/14 21:15	79-00-5	
Trichloroethene	ND ug/L		250	250		04/23/14 21:15	79-01-6	
Vinyl chloride	ND ug/L		250	250		04/23/14 21:15	75-01-4	
Xylene (Total)	ND ug/L		750	250		04/23/14 21:15	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	102 %		80-120	250		04/23/14 21:15	460-00-4	
Toluene-d8 (S)	98 %		80-120	250		04/23/14 21:15	2037-26-5	
1,2-Dichloroethane-d4 (S)	101 %		80-120	250		04/23/14 21:15	17060-07-0	
Preservation pH	6.0		1.0	250		04/23/14 21:15		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1440 mg/L		5.0	1		04/29/14 07:06		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-276

Pace Project No.: 60167572

Sample: 316-276		Lab ID: 60167572001	Collected: 04/21/14 12:27	Received: 04/23/14 02:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	9.2	mg/L	5.0	1		04/29/14 07:10		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	4940	mg/L	5.0	1		04/24/14 09:24		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.2	Std. Units	0.10	1		04/26/14 09:01		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	35700	mg/L	200	100	04/23/14 10:24	04/28/14 13:55		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	571	mg/L	20.0	200		04/25/14 09:31	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	61700	mg/L	5000	500		04/30/14 12:47		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-276

Pace Project No.: 60167572

Sample: TRIP BLANK		Lab ID: 60167572002	Collected: 04/21/14 00:00	Received: 04/23/14 02:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		04/23/14 18:09	67-64-1	N2
Benzene	ND ug/L		1.0	1		04/23/14 18:09	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/23/14 18:09	75-27-4	
Bromoform	ND ug/L		1.0	1		04/23/14 18:09	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/23/14 18:09	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/23/14 18:09	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		04/23/14 18:09	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/23/14 18:09	75-00-3	
Chloroform	ND ug/L		1.0	1		04/23/14 18:09	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/23/14 18:09	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/23/14 18:09	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/23/14 18:09	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/23/14 18:09	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/23/14 18:09	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/23/14 18:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/23/14 18:09	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/23/14 18:09	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/23/14 18:09	127-18-4	
Toluene	ND ug/L		1.0	1		04/23/14 18:09	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/23/14 18:09	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/23/14 18:09	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/23/14 18:09	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/23/14 18:09	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/23/14 18:09	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	99 %		80-120	1		04/23/14 18:09	460-00-4	
Toluene-d8 (S)	102 %		80-120	1		04/23/14 18:09	2037-26-5	
1,2-Dichloroethane-d4 (S)	103 %		80-120	1		04/23/14 18:09	17060-07-0	
Preservation pH	6.0		1.0	1		04/23/14 18:09		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-276

Pace Project No.: 60167572

QC Batch: MERP/8334

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60167572001

METHOD BLANK: 1366765

Matrix: Water

Associated Lab Samples: 60167572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/25/14 15:10	

LABORATORY CONTROL SAMPLE: 1366766

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1366767 1366768

Parameter	Units	60167270001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.3	4.6	85	91	70-130	7	20	

MATRIX SPIKE SAMPLE: 1366769

Parameter	Units	60167479003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	3.9	78	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-276

Pace Project No.: 60167572

QC Batch: MERP/8352

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60167572001

METHOD BLANK: 1369342

Matrix: Water

Associated Lab Samples: 60167572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/30/14 14:46	

LABORATORY CONTROL SAMPLE: 1369343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.5	90	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1369344 1369345

Parameter	Units	60167571001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	116	122	77	81	70-130	5	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-276

Pace Project No.: 60167572

QC Batch: MPRP/26963

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Associated Lab Samples: 60167572001

METHOD BLANK: 1365470

Matrix: Water

Associated Lab Samples: 60167572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/24/14 10:45	
Antimony	ug/L	ND	10.0	04/24/14 10:45	
Arsenic	ug/L	ND	10.0	04/24/14 10:45	
Beryllium	ug/L	ND	1.0	04/24/14 10:45	
Cadmium	ug/L	ND	5.0	04/24/14 10:45	
Chromium	ug/L	ND	5.0	04/24/14 10:45	
Cobalt	ug/L	ND	5.0	04/24/14 10:45	
Copper	ug/L	ND	10.0	04/24/14 10:45	
Iron	ug/L	ND	50.0	04/24/14 10:45	
Lead	ug/L	ND	5.0	04/24/14 10:45	
Nickel	ug/L	ND	5.0	04/24/14 10:45	
Selenium	ug/L	ND	15.0	04/24/14 10:45	
Silver	ug/L	ND	7.0	04/24/14 10:45	
Thallium	ug/L	ND	20.0	04/24/14 10:45	
Zinc	ug/L	ND	50.0	04/24/14 10:45	

LABORATORY CONTROL SAMPLE: 1365471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10200	102	85-115	
Antimony	ug/L	1000	1060	106	85-115	
Arsenic	ug/L	1000	1010	101	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1030	103	85-115	
Chromium	ug/L	1000	1010	101	85-115	
Cobalt	ug/L	1000	1050	105	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	10400	104	85-115	
Lead	ug/L	1000	1040	104	85-115	
Nickel	ug/L	1000	1060	106	85-115	
Selenium	ug/L	1000	1040	104	85-115	
Silver	ug/L	500	502	100	85-115	
Thallium	ug/L	1000	1070	107	85-115	
Zinc	ug/L	1000	1010	101	85-115	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-276

Pace Project No.: 60167572

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1365472 1365473											
Parameter	Units	60167264001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Aluminum	ug/L	1.0 mg/L	10000	10000	12300	11800	113	107	70-130	5	8
Antimony	ug/L	ND	1000	1000	1190	1140	119	114	70-130	4	7
Arsenic	ug/L	0.015 mg/L	1000	1000	1180	1130	116	112	70-130	4	10
Beryllium	ug/L	0.00032 J mg/L	1000	1000	956	906	96	91	70-130	5	7
Cadmium	ug/L	ND	1000	1000	1170	1120	117	112	70-130	4	10
Chromium	ug/L	0.035 mg/L	1000	1000	964	921	93	89	70-130	5	10
Cobalt	ug/L	0.0012J mg/L	1000	1000	937	897	94	90	70-130	4	6
Copper	ug/L	0.14 mg/L	1000	1000	1320	1240	117	110	70-130	6	11
Iron	ug/L	4.2 mg/L	10000	10000	13800	12900	96	87	70-130	6	10
Lead	ug/L	0.0064 mg/L	1000	1000	879	846	87	84	70-130	4	10
Nickel	ug/L	0.036 mg/L	1000	1000	952	912	92	88	70-130	4	10
Selenium	ug/L	0.0088J mg/L	1000	1000	1370	1310	136	130	70-130	4	10 M1
Silver	ug/L	ND	500	500	615	582	123	116	70-130	5	10
Thallium	ug/L	ND	1000	1000	835	804	83	80	70-130	4	6
Zinc	ug/L	0.039J mg/L	1000	1000	909	870	87	83	70-130	4	11

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-276
Pace Project No.: 60167572

QC Batch:	MPRP/27009	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60167572001		

METHOD BLANK: 1367544 Matrix: Water
Associated Lab Samples: 60167572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/29/14 18:11	
Antimony, Dissolved	ug/L	ND	10.0	04/29/14 18:11	
Arsenic, Dissolved	ug/L	ND	10.0	04/29/14 18:11	
Beryllium, Dissolved	ug/L	ND	1.0	04/29/14 18:11	
Cadmium, Dissolved	ug/L	ND	5.0	04/29/14 18:11	
Chromium, Dissolved	ug/L	ND	5.0	04/29/14 18:11	
Cobalt, Dissolved	ug/L	ND	5.0	04/29/14 18:11	
Copper, Dissolved	ug/L	ND	10.0	04/29/14 18:11	
Iron, Dissolved	ug/L	ND	50.0	04/29/14 18:11	
Lead, Dissolved	ug/L	ND	5.0	04/29/14 18:11	
Nickel, Dissolved	ug/L	ND	5.0	04/29/14 18:11	
Selenium, Dissolved	ug/L	ND	15.0	04/29/14 18:11	
Silver, Dissolved	ug/L	ND	7.0	04/29/14 18:11	
Thallium, Dissolved	ug/L	ND	20.0	04/29/14 18:11	
Zinc, Dissolved	ug/L	ND	50.0	04/29/14 18:11	

LABORATORY CONTROL SAMPLE: 1367545

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	1010	101	85-115	
Beryllium, Dissolved	ug/L	1000	977	98	85-115	
Cadmium, Dissolved	ug/L	1000	1030	103	85-115	
Chromium, Dissolved	ug/L	1000	1000	100	85-115	
Cobalt, Dissolved	ug/L	1000	1060	106	85-115	
Copper, Dissolved	ug/L	1000	990	99	85-115	
Iron, Dissolved	ug/L	10000	9620	96	85-115	
Lead, Dissolved	ug/L	1000	1070	107	85-115	
Nickel, Dissolved	ug/L	1000	1100	110	85-115	
Selenium, Dissolved	ug/L	1000	1050	105	85-115	
Silver, Dissolved	ug/L	500	495	99	85-115	
Thallium, Dissolved	ug/L	1000	1050	105	85-115	
Zinc, Dissolved	ug/L	1000	1070	107	85-115	

MATRIX SPIKE SAMPLE: 1367584

Parameter	Units	60167791001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	ND	10000	10100	101	70-130	
Antimony, Dissolved	ug/L	ND	1000	1060	106	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-276

Pace Project No.: 60167572

MATRIX SPIKE SAMPLE:		1367584					
Parameter	Units	60167791001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	ND	1000	1020	102	70-130	
Beryllium, Dissolved	ug/L	ND	1000	963	96	70-130	
Cadmium, Dissolved	ug/L	ND	1000	1030	103	70-130	
Chromium, Dissolved	ug/L	ND	1000	994	99	70-130	
Cobalt, Dissolved	ug/L	ND	1000	1060	106	70-130	
Copper, Dissolved	ug/L	ND	1000	989	99	70-130	
Iron, Dissolved	ug/L	103	10000	9450	93	70-130	
Lead, Dissolved	ug/L	ND	1000	1070	107	70-130	
Nickel, Dissolved	ug/L	ND	1000	1100	110	70-130	
Selenium, Dissolved	ug/L	ND	1000	1060	106	70-130	
Silver, Dissolved	ug/L	ND	500	495	99	70-130	
Thallium, Dissolved	ug/L	ND	1000	1030	103	70-130	
Zinc, Dissolved	ug/L	ND	1000	1090	108	70-130	

MATRIX SPIKE SAMPLE:		1369302					
Parameter	Units	60167491002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	ND	10000	10400	104	70-130	
Antimony, Dissolved	ug/L	ND	1000	1110	111	70-130	
Arsenic, Dissolved	ug/L	ND	1000	1080	108	70-130	
Beryllium, Dissolved	ug/L	ND	1000	970	97	70-130	
Cadmium, Dissolved	ug/L	ND	1000	1070	107	70-130	
Chromium, Dissolved	ug/L	1.2J	1000	993	99	70-130	
Cobalt, Dissolved	ug/L	26.2	1000	1060	103	70-130	
Copper, Dissolved	ug/L	ND	1000	1040	104	70-130	
Iron, Dissolved	ug/L	40.3J	10000	9560	95	70-130	
Lead, Dissolved	ug/L	ND	1000	1020	102	70-130	
Nickel, Dissolved	ug/L	86.9	1000	1140	105	70-130	
Selenium, Dissolved	ug/L	ND	1000	1140	114	70-130	
Silver, Dissolved	ug/L	ND	500	521	104	70-130	
Thallium, Dissolved	ug/L	ND	1000	971	97	70-130	
Zinc, Dissolved	ug/L	178	1000	1190	101	70-130	

SAMPLE DUPLICATE: 1367583

Parameter	Units	60167491003 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum, Dissolved	ug/L	ND	ND		20	
Antimony, Dissolved	ug/L	ND	ND		20	
Arsenic, Dissolved	ug/L	4.5J	3.8J		20	
Beryllium, Dissolved	ug/L	ND	ND		20	
Cadmium, Dissolved	ug/L	0.64J	ND		20	
Chromium, Dissolved	ug/L	0.95J	ND		20	
Cobalt, Dissolved	ug/L	ND	ND		20	
Copper, Dissolved	ug/L	1.3J	1J		20	
Iron, Dissolved	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-276

Pace Project No.: 60167572

SAMPLE DUPLICATE: 1367583

Parameter	Units	60167491003 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead, Dissolved	ug/L	2.3J	ND		20	
Nickel, Dissolved	ug/L	7.7	6.8	13	20	
Selenium, Dissolved	ug/L	ND	ND		20	
Silver, Dissolved	ug/L	ND	ND		20	
Thallium, Dissolved	ug/L	ND	ND		20	
Zinc, Dissolved	ug/L	38.0J	35.8J		20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-276

Pace Project No.: 60167572

QC Batch: MSV/61061 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60167572001, 60167572002

METHOD BLANK: 1365522

Matrix: Water

Associated Lab Samples: 60167572001, 60167572002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/23/14 17:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/23/14 17:07	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/23/14 17:07	
1,2-Dichloroethane	ug/L	ND	1.0	04/23/14 17:07	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/23/14 17:07	
2-Butanone (MEK)	ug/L	ND	10.0	04/23/14 17:07	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/23/14 17:07	N2
Acetone	ug/L	ND	10.0	04/23/14 17:07	N2
Benzene	ug/L	ND	1.0	04/23/14 17:07	
Bromodichloromethane	ug/L	ND	1.0	04/23/14 17:07	
Bromoform	ug/L	ND	1.0	04/23/14 17:07	
Bromomethane	ug/L	ND	5.0	04/23/14 17:07	
Carbon tetrachloride	ug/L	ND	1.0	04/23/14 17:07	
Chloroethane	ug/L	ND	1.0	04/23/14 17:07	
Chloroform	ug/L	ND	1.0	04/23/14 17:07	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/23/14 17:07	N2
Ethylbenzene	ug/L	ND	1.0	04/23/14 17:07	
Methylene chloride	ug/L	ND	1.0	04/23/14 17:07	
Tetrachloroethene	ug/L	ND	1.0	04/23/14 17:07	
Toluene	ug/L	ND	1.0	04/23/14 17:07	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/23/14 17:07	
Trichloroethene	ug/L	ND	1.0	04/23/14 17:07	
Vinyl chloride	ug/L	ND	1.0	04/23/14 17:07	
Xylene (Total)	ug/L	ND	3.0	04/23/14 17:07	N2
1,2-Dichloroethane-d4 (S)	%	100	80-120	04/23/14 17:07	
4-Bromofluorobenzene (S)	%	98	80-120	04/23/14 17:07	
Toluene-d8 (S)	%	100	80-120	04/23/14 17:07	

LABORATORY CONTROL SAMPLE: 1365523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.5	98	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.1	101	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.7	98	67-124	
1,2-Dichloroethane	ug/L	20	19.2	96	70-126	
1,4-Dichlorobenzene	ug/L	20	20.0	100	74-120	
2-Butanone (MEK)	ug/L	100	90.6	91	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	103	103	59-131	N2
Acetone	ug/L	100	90.9	91	38-134	N2
Benzene	ug/L	20	18.8	94	75-120	
Bromodichloromethane	ug/L	20	20.5	103	68-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-276

Pace Project No.: 60167572

LABORATORY CONTROL SAMPLE: 1365523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.7	98	65-127	
Bromomethane	ug/L	20	24.3	121	13-157	
Carbon tetrachloride	ug/L	20	18.6	93	70-131	
Chloroethane	ug/L	20	20.4	102	47-133	
Chloroform	ug/L	20	18.3	92	65-127	
cis-1,2-Dichloroethene	ug/L	20	19.8	99	68-127	N2
Ethylbenzene	ug/L	20	20.4	102	74-122	
Methylene chloride	ug/L	20	19.1	95	64-129	
Tetrachloroethene	ug/L	20	19.6	98	73-125	
Toluene	ug/L	20	19.3	96	69-126	
trans-1,2-Dichloroethene	ug/L	20	19.3	96	66-129	
Trichloroethene	ug/L	20	19.4	97	71-123	
Vinyl chloride	ug/L	20	21.4	107	43-129	
Xylene (Total)	ug/L	60	60.9	101	75-121	N2
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1365524

Parameter	Units	60167475001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	5080	102	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	5000	100	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4830	97	52-143	
1,2-Dichloroethane	ug/L	ND	5000	4810	96	49-144	
1,4-Dichlorobenzene	ug/L	375	5000	5060	94	33-140	
2-Butanone (MEK)	ug/L	60400	25000	85400	100	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	26900	104	40-160	N2
Acetone	ug/L	138000	25000	165000	110	10-160	N2
Benzene	ug/L	ND	5000	4650	93	37-151	
Bromodichloromethane	ug/L	ND	5000	4870	97	35-142	
Bromoform	ug/L	ND	5000	4520	90	45-142	
Bromomethane	ug/L	ND	5000	5980	120	10-158	
Carbon tetrachloride	ug/L	ND	5000	5140	103	70-140	
Chloroethane	ug/L	ND	5000	5480	110	19-152	
Chloroform	ug/L	ND	5000	4600	92	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4960	99	34-147	N2
Ethylbenzene	ug/L	ND	5000	4920	98	40-142	
Methylene chloride	ug/L	ND	5000	4630	93	31-144	
Tetrachloroethene	ug/L	ND	5000	4720	94	64-148	
Toluene	ug/L	ND	5000	4850	97	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	4900	98	54-151	
Trichloroethene	ug/L	ND	5000	4870	97	71-149	
Vinyl chloride	ug/L	ND	5000	5800	116	22-146	
Xylene (Total)	ug/L	ND	15000	14400	96	37-144	N2
1,2-Dichloroethane-d4 (S)	%				101	80-120	
4-Bromofluorobenzene (S)	%				103	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-276

Pace Project No.: 60167572

MATRIX SPIKE SAMPLE: 1365524

Parameter	Units	60167475001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
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 316-276
Pace Project No.: 60167572

QC Batch:	OEXT/43857	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60167572001		

METHOD BLANK: 1366657 Matrix: Water
Associated Lab Samples: 60167572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/29/14 11:48	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/29/14 11:48	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/29/14 11:48	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/29/14 11:48	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/29/14 11:48	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/29/14 11:48	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/29/14 11:48	
Hexachloroethane	ug/L	ND	5.0	04/29/14 11:48	
Naphthalene	ug/L	ND	5.0	04/29/14 11:48	
Nitrobenzene	ug/L	ND	5.0	04/29/14 11:48	
Pentachlorophenol	ug/L	ND	5.0	04/29/14 11:48	
Phenol	ug/L	ND	5.0	04/29/14 11:48	
2,4,6-Tribromophenol (S)	%	88	39-120	04/29/14 11:48	
2-Fluorobiphenyl (S)	%	83	39-120	04/29/14 11:48	
2-Fluorophenol (S)	%	39	17-120	04/29/14 11:48	
Nitrobenzene-d5 (S)	%	87	33-120	04/29/14 11:48	
Phenol-d6 (S)	%	26	11-120	04/29/14 11:48	
Terphenyl-d14 (S)	%	87	45-120	04/29/14 11:48	

LABORATORY CONTROL SAMPLE: 1366658

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.6	79	46-120	
2,4,6-Trichlorophenol	ug/L	50	43.5	87	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	34.1	68	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	31.1	62	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	51.7	103	40-133	
Hexachloro-1,3-butadiene	ug/L	50	37.9	76	44-116	
Hexachlorocyclopentadiene	ug/L	100	67.8	68	24-120	
Hexachloroethane	ug/L	50	38.1	76	43-113	
Naphthalene	ug/L	50	40.9	82	48-120	
Nitrobenzene	ug/L	50	43.9	88	48-120	
Pentachlorophenol	ug/L	50	49.2	98	47-120	
Phenol	ug/L	50	15.6	31	16-112	
2,4,6-Tribromophenol (S)	%			96	39-120	
2-Fluorobiphenyl (S)	%			83	39-120	
2-Fluorophenol (S)	%			43	17-120	
Nitrobenzene-d5 (S)	%			88	33-120	
Phenol-d6 (S)	%			30	11-120	
Terphenyl-d14 (S)	%			92	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-276

Pace Project No.: 60167572

QC Batch: WET/47569

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60167572001

METHOD BLANK: 1368531

Matrix: Water

Associated Lab Samples: 60167572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/29/14 07:02	

LABORATORY CONTROL SAMPLE: 1368532

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.7	99	78-114	

MATRIX SPIKE SAMPLE: 1368533

Parameter	Units	60167262001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	1.1J	41.2	41.1	97	78-114	

SAMPLE DUPLICATE: 1368534

Parameter	Units	60167264001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	2.1J	2.2J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-276

Pace Project No.: 60167572

QC Batch: WET/47570

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60167572001

METHOD BLANK: 1368535

Matrix: Water

Associated Lab Samples: 60167572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	04/29/14 07:09	

LABORATORY CONTROL SAMPLE: 1368536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	22.0	110	64-132	

MATRIX SPIKE SAMPLE: 1368537

Parameter	Units	60167262001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20.6	17.2	79	64-132	

SAMPLE DUPLICATE: 1368538

Parameter	Units	60167264001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	ND		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-276

Pace Project No.: 60167572

QC Batch: WET/47489

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60167572001

METHOD BLANK: 1365950

Matrix: Water

Associated Lab Samples: 60167572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/24/14 09:23	

SAMPLE DUPLICATE: 1365951

Parameter	Units	60167492005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2300	2300	0	10	

SAMPLE DUPLICATE: 1365952

Parameter	Units	60167586001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	4420	4420	0	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-276

Pace Project No.: 60167572

QC Batch: WET/47469 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60167572001

SAMPLE DUPLICATE: 1365341

Parameter	Units	60167475001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.3	5.2	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-276

Pace Project No.: 60167572

QC Batch: WET/47461

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60167572001

METHOD BLANK: 1365158

Matrix: Water

Associated Lab Samples: 60167572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/28/14 13:21	

LABORATORY CONTROL SAMPLE: 1365159

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	167	85	85-115	

SAMPLE DUPLICATE: 1365160

Parameter	Units	60167518002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	ND	ND		17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-276

Pace Project No.: 60167572

QC Batch: WETA/29135

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60167572001

METHOD BLANK: 1366611

Matrix: Water

Associated Lab Samples: 60167572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/25/14 09:02	

LABORATORY CONTROL SAMPLE: 1366612

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	101	90-110	

MATRIX SPIKE SAMPLE: 1366613

Parameter	Units	60167437002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	31.5	20	46.1	73	90-110	M1

MATRIX SPIKE SAMPLE: 1366614

Parameter	Units	60167570005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.9	91	90-110	

SAMPLE DUPLICATE: 1366615

Parameter	Units	60167570010 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-276

Pace Project No.: 60167572

QC Batch:	WETA/29205	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60167572001		

METHOD BLANK: 1369323 Matrix: Water

Associated Lab Samples: 60167572001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	04/30/14 12:41	

LABORATORY CONTROL SAMPLE: 1369324

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	48.0	96	90-110	

MATRIX SPIKE SAMPLE: 1369325

Parameter	Units	60167182001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	1410	1000	2380	97	90-110	

SAMPLE DUPLICATE: 1369326

Parameter	Units	60167572001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	61700	64800	5	25	

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QUALIFIERS

Project: BRIDGETON LF 316-276

Pace Project No.: 60167572

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 LF 316-276

Pace Project No.: 60167572

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60167572001	316-276	EPA 200.7	MPRP/26963	EPA 200.7	ICP/20464
60167572001	316-276	EPA 200.7	MPRP/27009	EPA 200.7	ICP/20487
60167572001	316-276	EPA 245.1	MERP/8334	EPA 245.1	MERC/8290
60167572001	316-276	EPA 245.1	MERP/8352	EPA 245.1	MERC/8304
60167572001	316-276	EPA 625	OEXT/43857	EPA 625	MSSV/14009
60167572001	316-276	EPA 624 Low	MSV/61061		
60167572002	TRIP BLANK	EPA 624 Low	MSV/61061		
60167572001	316-276	EPA 1664A	WET/47569		
60167572001	316-276	EPA 1664A	WET/47570		
60167572001	316-276	SM 2540D	WET/47489		
60167572001	316-276	SM 4500-H+B	WET/47469		
60167572001	316-276	SM 5210B	WET/47461	SM 5210B	WET/47560
60167572001	316-276	EPA 350.1	WETA/29135		
60167572001	316-276	EPA 410.4	WETA/29205		

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Sample Condition Upon Receipt

WO#: 60167572



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 ☒ 2P11

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

Cooler Temperature: 6.0

Temperature should be above freezing to 6°C

Date and initials of person examining contents: pu 4/23/14

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☒ Yes ☐ No ☐ N/A	6. <u>BOD PH</u>
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	9.
Pace containers used:	☒ Yes ☐ No ☐ N/A	10.
Containers intact:	☒ Yes ☐ No ☐ N/A	11.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	12.
Filtered volume received for dissolved tests?	☐ Yes ☐ No ☒ N/A	13.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	14.
Includes date/time/ID/analyses	Matrix: <u>WT</u>	15.
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	16.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☒ No ☐ N/A	17.
Exceptions: <u>VOA</u> , coliform, TOC, <u>O&G</u> , WI-DRO (water), Phenolics	☒ Yes ☐ No	Initial when completed: <u>pu</u>
Trip Blank present:	☒ Yes ☐ No ☐ N/A	Lot # of added preservative: <u>12513</u>
Pace Trip Blank lot # (if purchased): <u>cover</u>		<u>12512</u> <u>12522</u>
Headspace in VOA vials (>6mm):	☐ Yes ☒ No ☐ N/A	
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ 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: 4/24/14

April 30, 2014

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

RE: Project: BRIDGETON LF CB 04-22-14
Pace Project No.: 60167586

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 23, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF CB 04-22-14

Pace Project No.: 60167586

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 CB 04-22-14

Pace Project No.: 60167586

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60167586001	CB 04-22-14	Water	04/22/14 07:48	04/23/14 02:00
60167586002	TRIP BLANK	Water	04/22/14 00:00	04/23/14 02:00

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF CB 04-22-14

Pace Project No.: 60167586

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60167586001	CB 04-22-14	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	JML	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
		EPA 624 Low	EAK	28
60167586002	TRIP BLANK			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 04-22-14

Pace Project No.: 60167586

Sample: CB 04-22-14		Lab ID: 60167586001	Collected: 04/22/14 07:48	Received: 04/23/14 02:00	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	8560 ug/L		750	2	04/23/14 17:20	04/24/14 11:53	7429-90-5	D3
Antimony	ND ug/L		100	2	04/23/14 17:20	04/24/14 11:53	7440-36-0	
Arsenic	1150 ug/L		50.0	1	04/23/14 17:20	04/24/14 11:50	7440-38-2	
Beryllium	ND ug/L		5.0	1	04/23/14 17:20	04/24/14 11:50	7440-41-7	
Cadmium	ND ug/L		25.0	1	04/23/14 17:20	04/24/14 11:50	7440-43-9	
Chromium	271 ug/L		25.0	1	04/23/14 17:20	04/24/14 11:50	7440-47-3	
Cobalt	47.7 ug/L		25.0	1	04/23/14 17:20	04/24/14 11:50	7440-48-4	
Copper	ND ug/L		50.0	1	04/23/14 17:20	04/24/14 11:50	7440-50-8	
Iron	778000 ug/L		250	1	04/23/14 17:20	04/24/14 11:50	7439-89-6	
Lead	124 ug/L		25.0	1	04/23/14 17:20	04/24/14 11:50	7439-92-1	
Nickel	133 ug/L		25.0	1	04/23/14 17:20	04/24/14 11:50	7440-02-0	
Selenium	88.4 ug/L		75.0	1	04/23/14 17:20	04/24/14 11:50	7782-49-2	
Silver	ND ug/L		35.0	1	04/23/14 17:20	04/24/14 11:50	7440-22-4	
Thallium	ND ug/L		100	1	04/23/14 17:20	04/24/14 11:50	7440-28-0	
Zinc	7030 ug/L		500	2	04/23/14 17:20	04/24/14 11:53	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1140 ug/L		750	2	04/25/14 17:30	04/29/14 18:18	7429-90-5	D3
Antimony, Dissolved	ND ug/L		100	2	04/25/14 17:30	04/29/14 18:18	7440-36-0	
Arsenic, Dissolved	814 ug/L		50.0	1	04/25/14 17:30	04/29/14 18:14	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	04/25/14 17:30	04/29/14 18:14	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	04/25/14 17:30	04/29/14 18:14	7440-43-9	
Chromium, Dissolved	161 ug/L		25.0	1	04/25/14 17:30	04/29/14 18:14	7440-47-3	
Cobalt, Dissolved	28.0 ug/L		25.0	1	04/25/14 17:30	04/29/14 18:14	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	04/25/14 17:30	04/29/14 18:14	7440-50-8	
Iron, Dissolved	392000 ug/L		250	1	04/25/14 17:30	04/29/14 18:14	7439-89-6	
Lead, Dissolved	33.4 ug/L		25.0	1	04/25/14 17:30	04/29/14 18:14	7439-92-1	
Nickel, Dissolved	88.8 ug/L		25.0	1	04/25/14 17:30	04/29/14 18:14	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	04/25/14 17:30	04/29/14 18:14	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	04/25/14 17:30	04/29/14 18:14	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	04/25/14 17:30	04/29/14 18:14	7440-28-0	
Zinc, Dissolved	5500 ug/L		500	2	04/25/14 17:30	04/29/14 18:18	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	24.1 ug/L		6.0	1	04/25/14 10:15	04/25/14 15:57	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	04/30/14 11:00	04/30/14 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	04/28/14 00:00	04/29/14 14:13	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	04/28/14 00:00	04/29/14 14:13	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	04/28/14 00:00	04/29/14 14:13	77-47-4	
Hexachloroethane	ND ug/L		1000	2	04/28/14 00:00	04/29/14 14:13	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	04/28/14 00:00	04/29/14 14:13	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	8370 ug/L		4000	2	04/28/14 00:00	04/29/14 14:13		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 04-22-14

Pace Project No.: 60167586

Sample: CB 04-22-14		Lab ID: 60167586001	Collected: 04/22/14 07:48	Received: 04/23/14 02:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	1630	ug/L	1000	2	04/28/14 00:00	04/29/14 14:13	91-20-3	
Nitrobenzene	ND	ug/L	1000	2	04/28/14 00:00	04/29/14 14:13	98-95-3	
Pentachlorophenol	ND	ug/L	1000	2	04/28/14 00:00	04/29/14 14:13	87-86-5	
Phenol	12800	ug/L	1000	2	04/28/14 00:00	04/29/14 14:13	108-95-2	
1,2,4-Trichlorobenzene	ND	ug/L	1000	2	04/28/14 00:00	04/29/14 14:13	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	1000	2	04/28/14 00:00	04/29/14 14:13	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	144	%	33-120	2	04/28/14 00:00	04/29/14 14:13	4165-60-0	S0
2-Fluorobiphenyl (S)	84	%	39-120	2	04/28/14 00:00	04/29/14 14:13	321-60-8	
Terphenyl-d14 (S)	86	%	45-120	2	04/28/14 00:00	04/29/14 14:13	1718-51-0	
Phenol-d6 (S)	39	%	11-120	2	04/28/14 00:00	04/29/14 14:13	13127-88-3	
2-Fluorophenol (S)	50	%	17-120	2	04/28/14 00:00	04/29/14 14:13	367-12-4	
2,4,6-Tribromophenol (S)	97	%	39-120	2	04/28/14 00:00	04/29/14 14:13	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	119000	ug/L	2500	250		04/23/14 22:33	67-64-1	N2
Benzene	ND	ug/L	250	250		04/23/14 22:33	71-43-2	
Bromodichloromethane	ND	ug/L	250	250		04/23/14 22:33	75-27-4	
Bromoform	ND	ug/L	250	250		04/23/14 22:33	75-25-2	
Bromomethane	ND	ug/L	1250	250		04/23/14 22:33	74-83-9	
2-Butanone (MEK)	52900	ug/L	2500	250		04/23/14 22:33	78-93-3	N2
Carbon tetrachloride	ND	ug/L	250	250		04/23/14 22:33	56-23-5	
Chloroethane	ND	ug/L	250	250		04/23/14 22:33	75-00-3	
Chloroform	ND	ug/L	250	250		04/23/14 22:33	67-66-3	
1,4-Dichlorobenzene	666	ug/L	250	250		04/23/14 22:33	106-46-7	
1,2-Dichloroethane	ND	ug/L	250	250		04/23/14 22:33	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	250	250		04/23/14 22:33	156-59-2	N2
trans-1,2-Dichloroethene	ND	ug/L	250	250		04/23/14 22:33	156-60-5	
Ethylbenzene	ND	ug/L	250	250		04/23/14 22:33	100-41-4	
Methylene chloride	ND	ug/L	250	250		04/23/14 22:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2500	250		04/23/14 22:33	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND	ug/L	250	250		04/23/14 22:33	79-34-5	N2
Tetrachloroethene	ND	ug/L	250	250		04/23/14 22:33	127-18-4	
Toluene	ND	ug/L	250	250		04/23/14 22:33	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	250	250		04/23/14 22:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	250	250		04/23/14 22:33	79-00-5	
Trichloroethene	ND	ug/L	250	250		04/23/14 22:33	79-01-6	
Vinyl chloride	ND	ug/L	250	250		04/23/14 22:33	75-01-4	
Xylene (Total)	ND	ug/L	750	250		04/23/14 22:33	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101	%	80-120	250		04/23/14 22:33	460-00-4	
Toluene-d8 (S)	98	%	80-120	250		04/23/14 22:33	2037-26-5	
1,2-Dichloroethane-d4 (S)	104	%	80-120	250		04/23/14 22:33	17060-07-0	
Preservation pH	6.0		1.0	250		04/23/14 22:33		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1470	mg/L	5.0	1		04/29/14 07:06		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 04-22-14

Pace Project No.: 60167586

Sample: CB 04-22-14		Lab ID: 60167586001	Collected: 04/22/14 07:48	Received: 04/23/14 02:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	ND	mg/L	5.0	1		04/29/14 07:11		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	4420	mg/L	5.0	1		04/24/14 09:24		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.3	Std. Units	0.10	1		04/26/14 09:01		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	26300	mg/L	200	100	04/23/14 17:21	04/28/14 15:37		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	517	mg/L	20.0	200		04/25/14 09:32	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	52600	mg/L	5000	500		04/30/14 12:48		

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 04-22-14

Pace Project No.: 60167586

Sample: TRIP BLANK		Lab ID: 60167586002	Collected: 04/22/14 00:00	Received: 04/23/14 02:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		04/23/14 22:49	67-64-1	N2
Benzene	ND ug/L		1.0	1		04/23/14 22:49	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/23/14 22:49	75-27-4	
Bromoform	ND ug/L		1.0	1		04/23/14 22:49	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/23/14 22:49	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/23/14 22:49	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		04/23/14 22:49	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/23/14 22:49	75-00-3	
Chloroform	ND ug/L		1.0	1		04/23/14 22:49	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/23/14 22:49	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/23/14 22:49	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/23/14 22:49	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/23/14 22:49	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/23/14 22:49	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/23/14 22:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/23/14 22:49	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/23/14 22:49	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/23/14 22:49	127-18-4	
Toluene	ND ug/L		1.0	1		04/23/14 22:49	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/23/14 22:49	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/23/14 22:49	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/23/14 22:49	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/23/14 22:49	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/23/14 22:49	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	96 %		80-120	1		04/23/14 22:49	460-00-4	
Toluene-d8 (S)	99 %		80-120	1		04/23/14 22:49	2037-26-5	
1,2-Dichloroethane-d4 (S)	98 %		80-120	1		04/23/14 22:49	17060-07-0	
Preservation pH	6.0		1.0	1		04/23/14 22:49		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-22-14

Pace Project No.: 60167586

QC Batch: MERP/8334

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60167586001

METHOD BLANK: 1366765

Matrix: Water

Associated Lab Samples: 60167586001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/25/14 15:10	

LABORATORY CONTROL SAMPLE: 1366766

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1366767 1366768

Parameter	Units	60167270001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.3	4.6	85	91	70-130	7	20	

MATRIX SPIKE SAMPLE: 1366769

Parameter	Units	60167479003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	3.9	78	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-22-14

Pace Project No.: 60167586

QC Batch:	MERP/8352	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60167586001		

METHOD BLANK: 1369342 Matrix: Water

Associated Lab Samples: 60167586001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/30/14 14:46	

LABORATORY CONTROL SAMPLE: 1369343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.5	90	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1369344 1369345

Parameter	Units	60167571001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	116	122	77	81	70-130	5	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-22-14

Pace Project No.: 60167586

QC Batch: MPRP/26963

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Associated Lab Samples: 60167586001

METHOD BLANK: 1365470

Matrix: Water

Associated Lab Samples: 60167586001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/24/14 10:45	
Antimony	ug/L	ND	10.0	04/24/14 10:45	
Arsenic	ug/L	ND	10.0	04/24/14 10:45	
Beryllium	ug/L	ND	1.0	04/24/14 10:45	
Cadmium	ug/L	ND	5.0	04/24/14 10:45	
Chromium	ug/L	ND	5.0	04/24/14 10:45	
Cobalt	ug/L	ND	5.0	04/24/14 10:45	
Copper	ug/L	ND	10.0	04/24/14 10:45	
Iron	ug/L	ND	50.0	04/24/14 10:45	
Lead	ug/L	ND	5.0	04/24/14 10:45	
Nickel	ug/L	ND	5.0	04/24/14 10:45	
Selenium	ug/L	ND	15.0	04/24/14 10:45	
Silver	ug/L	ND	7.0	04/24/14 10:45	
Thallium	ug/L	ND	20.0	04/24/14 10:45	
Zinc	ug/L	ND	50.0	04/24/14 10:45	

LABORATORY CONTROL SAMPLE: 1365471

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10200	102	85-115	
Antimony	ug/L	1000	1060	106	85-115	
Arsenic	ug/L	1000	1010	101	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	1030	103	85-115	
Chromium	ug/L	1000	1010	101	85-115	
Cobalt	ug/L	1000	1050	105	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	10400	104	85-115	
Lead	ug/L	1000	1040	104	85-115	
Nickel	ug/L	1000	1060	106	85-115	
Selenium	ug/L	1000	1040	104	85-115	
Silver	ug/L	500	502	100	85-115	
Thallium	ug/L	1000	1070	107	85-115	
Zinc	ug/L	1000	1010	101	85-115	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-22-14

Pace Project No.: 60167586

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1365472 1365473											
Parameter	Units	60167264001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Aluminum	ug/L	1.0 mg/L	10000	10000	12300	11800	113	107	70-130	5	8
Antimony	ug/L	ND	1000	1000	1190	1140	119	114	70-130	4	7
Arsenic	ug/L	0.015 mg/L	1000	1000	1180	1130	116	112	70-130	4	10
Beryllium	ug/L	0.00032 J mg/L	1000	1000	956	906	96	91	70-130	5	7
Cadmium	ug/L	ND	1000	1000	1170	1120	117	112	70-130	4	10
Chromium	ug/L	0.035 mg/L	1000	1000	964	921	93	89	70-130	5	10
Cobalt	ug/L	0.0012J mg/L	1000	1000	937	897	94	90	70-130	4	6
Copper	ug/L	0.14 mg/L	1000	1000	1320	1240	117	110	70-130	6	11
Iron	ug/L	4.2 mg/L	10000	10000	13800	12900	96	87	70-130	6	10
Lead	ug/L	0.0064 mg/L	1000	1000	879	846	87	84	70-130	4	10
Nickel	ug/L	0.036 mg/L	1000	1000	952	912	92	88	70-130	4	10
Selenium	ug/L	0.0088J mg/L	1000	1000	1370	1310	136	130	70-130	4	10 M1
Silver	ug/L	ND	500	500	615	582	123	116	70-130	5	10
Thallium	ug/L	ND	1000	1000	835	804	83	80	70-130	4	6
Zinc	ug/L	0.039J mg/L	1000	1000	909	870	87	83	70-130	4	11

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-22-14

Pace Project No.: 60167586

QC Batch:	MPRP/27009	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60167586001		

METHOD BLANK: 1367544 Matrix: Water

Associated Lab Samples: 60167586001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/29/14 18:11	
Antimony, Dissolved	ug/L	ND	10.0	04/29/14 18:11	
Arsenic, Dissolved	ug/L	ND	10.0	04/29/14 18:11	
Beryllium, Dissolved	ug/L	ND	1.0	04/29/14 18:11	
Cadmium, Dissolved	ug/L	ND	5.0	04/29/14 18:11	
Chromium, Dissolved	ug/L	ND	5.0	04/29/14 18:11	
Cobalt, Dissolved	ug/L	ND	5.0	04/29/14 18:11	
Copper, Dissolved	ug/L	ND	10.0	04/29/14 18:11	
Iron, Dissolved	ug/L	ND	50.0	04/29/14 18:11	
Lead, Dissolved	ug/L	ND	5.0	04/29/14 18:11	
Nickel, Dissolved	ug/L	ND	5.0	04/29/14 18:11	
Selenium, Dissolved	ug/L	ND	15.0	04/29/14 18:11	
Silver, Dissolved	ug/L	ND	7.0	04/29/14 18:11	
Thallium, Dissolved	ug/L	ND	20.0	04/29/14 18:11	
Zinc, Dissolved	ug/L	ND	50.0	04/29/14 18:11	

LABORATORY CONTROL SAMPLE: 1367545

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	1010	101	85-115	
Beryllium, Dissolved	ug/L	1000	977	98	85-115	
Cadmium, Dissolved	ug/L	1000	1030	103	85-115	
Chromium, Dissolved	ug/L	1000	1000	100	85-115	
Cobalt, Dissolved	ug/L	1000	1060	106	85-115	
Copper, Dissolved	ug/L	1000	990	99	85-115	
Iron, Dissolved	ug/L	10000	9620	96	85-115	
Lead, Dissolved	ug/L	1000	1070	107	85-115	
Nickel, Dissolved	ug/L	1000	1100	110	85-115	
Selenium, Dissolved	ug/L	1000	1050	105	85-115	
Silver, Dissolved	ug/L	500	495	99	85-115	
Thallium, Dissolved	ug/L	1000	1050	105	85-115	
Zinc, Dissolved	ug/L	1000	1070	107	85-115	

MATRIX SPIKE SAMPLE: 1367584

Parameter	Units	60167791001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	ND	10000	10100	101	70-130	
Antimony, Dissolved	ug/L	ND	1000	1060	106	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-22-14

Pace Project No.: 60167586

MATRIX SPIKE SAMPLE:		1367584					
Parameter	Units	60167791001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	ND	1000	1020	102	70-130	
Beryllium, Dissolved	ug/L	ND	1000	963	96	70-130	
Cadmium, Dissolved	ug/L	ND	1000	1030	103	70-130	
Chromium, Dissolved	ug/L	ND	1000	994	99	70-130	
Cobalt, Dissolved	ug/L	ND	1000	1060	106	70-130	
Copper, Dissolved	ug/L	ND	1000	989	99	70-130	
Iron, Dissolved	ug/L	103	10000	9450	93	70-130	
Lead, Dissolved	ug/L	ND	1000	1070	107	70-130	
Nickel, Dissolved	ug/L	ND	1000	1100	110	70-130	
Selenium, Dissolved	ug/L	ND	1000	1060	106	70-130	
Silver, Dissolved	ug/L	ND	500	495	99	70-130	
Thallium, Dissolved	ug/L	ND	1000	1030	103	70-130	
Zinc, Dissolved	ug/L	ND	1000	1090	108	70-130	

MATRIX SPIKE SAMPLE:		1369302					
Parameter	Units	60167491002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	ND	10000	10400	104	70-130	
Antimony, Dissolved	ug/L	ND	1000	1110	111	70-130	
Arsenic, Dissolved	ug/L	ND	1000	1080	108	70-130	
Beryllium, Dissolved	ug/L	ND	1000	970	97	70-130	
Cadmium, Dissolved	ug/L	ND	1000	1070	107	70-130	
Chromium, Dissolved	ug/L	1.2J	1000	993	99	70-130	
Cobalt, Dissolved	ug/L	26.2	1000	1060	103	70-130	
Copper, Dissolved	ug/L	ND	1000	1040	104	70-130	
Iron, Dissolved	ug/L	40.3J	10000	9560	95	70-130	
Lead, Dissolved	ug/L	ND	1000	1020	102	70-130	
Nickel, Dissolved	ug/L	86.9	1000	1140	105	70-130	
Selenium, Dissolved	ug/L	ND	1000	1140	114	70-130	
Silver, Dissolved	ug/L	ND	500	521	104	70-130	
Thallium, Dissolved	ug/L	ND	1000	971	97	70-130	
Zinc, Dissolved	ug/L	178	1000	1190	101	70-130	

SAMPLE DUPLICATE: 1367583

Parameter	Units	60167491003 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum, Dissolved	ug/L	ND	ND		20	
Antimony, Dissolved	ug/L	ND	ND		20	
Arsenic, Dissolved	ug/L	4.5J	3.8J		20	
Beryllium, Dissolved	ug/L	ND	ND		20	
Cadmium, Dissolved	ug/L	0.64J	ND		20	
Chromium, Dissolved	ug/L	0.95J	ND		20	
Cobalt, Dissolved	ug/L	ND	ND		20	
Copper, Dissolved	ug/L	1.3J	1J		20	
Iron, Dissolved	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-22-14

Pace Project No.: 60167586

SAMPLE DUPLICATE: 1367583

Parameter	Units	60167491003 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead, Dissolved	ug/L	2.3J	ND		20	
Nickel, Dissolved	ug/L	7.7	6.8	13	20	
Selenium, Dissolved	ug/L	ND	ND		20	
Silver, Dissolved	ug/L	ND	ND		20	
Thallium, Dissolved	ug/L	ND	ND		20	
Zinc, Dissolved	ug/L	38.0J	35.8J		20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-22-14

Pace Project No.: 60167586

QC Batch:	MSV/61061	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples: 60167586001, 60167586002			

METHOD BLANK: 1365522 Matrix: Water

Associated Lab Samples: 60167586001, 60167586002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/23/14 17:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/23/14 17:07	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/23/14 17:07	
1,2-Dichloroethane	ug/L	ND	1.0	04/23/14 17:07	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/23/14 17:07	
2-Butanone (MEK)	ug/L	ND	10.0	04/23/14 17:07	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/23/14 17:07	N2
Acetone	ug/L	ND	10.0	04/23/14 17:07	N2
Benzene	ug/L	ND	1.0	04/23/14 17:07	
Bromodichloromethane	ug/L	ND	1.0	04/23/14 17:07	
Bromoform	ug/L	ND	1.0	04/23/14 17:07	
Bromomethane	ug/L	ND	5.0	04/23/14 17:07	
Carbon tetrachloride	ug/L	ND	1.0	04/23/14 17:07	
Chloroethane	ug/L	ND	1.0	04/23/14 17:07	
Chloroform	ug/L	ND	1.0	04/23/14 17:07	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/23/14 17:07	N2
Ethylbenzene	ug/L	ND	1.0	04/23/14 17:07	
Methylene chloride	ug/L	ND	1.0	04/23/14 17:07	
Tetrachloroethene	ug/L	ND	1.0	04/23/14 17:07	
Toluene	ug/L	ND	1.0	04/23/14 17:07	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/23/14 17:07	
Trichloroethene	ug/L	ND	1.0	04/23/14 17:07	
Vinyl chloride	ug/L	ND	1.0	04/23/14 17:07	
Xylene (Total)	ug/L	ND	3.0	04/23/14 17:07	N2
1,2-Dichloroethane-d4 (S)	%	100	80-120	04/23/14 17:07	
4-Bromofluorobenzene (S)	%	98	80-120	04/23/14 17:07	
Toluene-d8 (S)	%	100	80-120	04/23/14 17:07	

LABORATORY CONTROL SAMPLE: 1365523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.5	98	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.1	101	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.7	98	67-124	
1,2-Dichloroethane	ug/L	20	19.2	96	70-126	
1,4-Dichlorobenzene	ug/L	20	20.0	100	74-120	
2-Butanone (MEK)	ug/L	100	90.6	91	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	103	103	59-131	N2
Acetone	ug/L	100	90.9	91	38-134	N2
Benzene	ug/L	20	18.8	94	75-120	
Bromodichloromethane	ug/L	20	20.5	103	68-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-22-14

Pace Project No.: 60167586

LABORATORY CONTROL SAMPLE: 1365523

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	19.7	98	65-127	
Bromomethane	ug/L	20	24.3	121	13-157	
Carbon tetrachloride	ug/L	20	18.6	93	70-131	
Chloroethane	ug/L	20	20.4	102	47-133	
Chloroform	ug/L	20	18.3	92	65-127	
cis-1,2-Dichloroethene	ug/L	20	19.8	99	68-127	N2
Ethylbenzene	ug/L	20	20.4	102	74-122	
Methylene chloride	ug/L	20	19.1	95	64-129	
Tetrachloroethene	ug/L	20	19.6	98	73-125	
Toluene	ug/L	20	19.3	96	69-126	
trans-1,2-Dichloroethene	ug/L	20	19.3	96	66-129	
Trichloroethene	ug/L	20	19.4	97	71-123	
Vinyl chloride	ug/L	20	21.4	107	43-129	
Xylene (Total)	ug/L	60	60.9	101	75-121	N2
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1365524

Parameter	Units	60167475001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	5080	102	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	5000	100	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4830	97	52-143	
1,2-Dichloroethane	ug/L	ND	5000	4810	96	49-144	
1,4-Dichlorobenzene	ug/L	375	5000	5060	94	33-140	
2-Butanone (MEK)	ug/L	60400	25000	85400	100	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	26900	104	40-160	N2
Acetone	ug/L	138000	25000	165000	110	10-160	N2
Benzene	ug/L	ND	5000	4650	93	37-151	
Bromodichloromethane	ug/L	ND	5000	4870	97	35-142	
Bromoform	ug/L	ND	5000	4520	90	45-142	
Bromomethane	ug/L	ND	5000	5980	120	10-158	
Carbon tetrachloride	ug/L	ND	5000	5140	103	70-140	
Chloroethane	ug/L	ND	5000	5480	110	19-152	
Chloroform	ug/L	ND	5000	4600	92	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4960	99	34-147	N2
Ethylbenzene	ug/L	ND	5000	4920	98	40-142	
Methylene chloride	ug/L	ND	5000	4630	93	31-144	
Tetrachloroethene	ug/L	ND	5000	4720	94	64-148	
Toluene	ug/L	ND	5000	4850	97	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	4900	98	54-151	
Trichloroethene	ug/L	ND	5000	4870	97	71-149	
Vinyl chloride	ug/L	ND	5000	5800	116	22-146	
Xylene (Total)	ug/L	ND	15000	14400	96	37-144	N2
1,2-Dichloroethane-d4 (S)	%				101	80-120	
4-Bromofluorobenzene (S)	%				103	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-22-14

Pace Project No.: 60167586

MATRIX SPIKE SAMPLE:		1365524					
Parameter	Units	60167475001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
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 CB 04-22-14

Pace Project No.: 60167586

QC Batch:	OEXT/43886	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60167586001		

METHOD BLANK: 1368165 Matrix: Water

Associated Lab Samples: 60167586001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/29/14 10:46	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/29/14 10:46	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/29/14 10:46	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/29/14 10:46	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/29/14 10:46	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/29/14 10:46	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/29/14 10:46	
Hexachloroethane	ug/L	ND	5.0	04/29/14 10:46	
Naphthalene	ug/L	ND	5.0	04/29/14 10:46	
Nitrobenzene	ug/L	ND	5.0	04/29/14 10:46	
Pentachlorophenol	ug/L	ND	5.0	04/29/14 10:46	
Phenol	ug/L	ND	5.0	04/29/14 10:46	
2,4,6-Tribromophenol (S)	%	87	39-120	04/29/14 10:46	
2-Fluorobiphenyl (S)	%	76	39-120	04/29/14 10:46	
2-Fluorophenol (S)	%	41	17-120	04/29/14 10:46	
Nitrobenzene-d5 (S)	%	79	33-120	04/29/14 10:46	
Phenol-d6 (S)	%	29	11-120	04/29/14 10:46	
Terphenyl-d14 (S)	%	85	45-120	04/29/14 10:46	

LABORATORY CONTROL SAMPLE: 1368166

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	35.7	71	46-120	
2,4,6-Trichlorophenol	ug/L	50	40.1	80	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	31.9	64	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	29.4	59	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	46.1	92	40-133	
Hexachloro-1,3-butadiene	ug/L	50	35.7	71	44-116	
Hexachlorocyclopentadiene	ug/L	100	63.0	63	24-120	
Hexachloroethane	ug/L	50	34.1	68	43-113	
Naphthalene	ug/L	50	36.4	73	48-120	
Nitrobenzene	ug/L	50	38.9	78	48-120	
Pentachlorophenol	ug/L	50	43.5	87	47-120	
Phenol	ug/L	50	14.8	30	16-112	
2,4,6-Tribromophenol (S)	%			85	39-120	
2-Fluorobiphenyl (S)	%			75	39-120	
2-Fluorophenol (S)	%			40	17-120	
Nitrobenzene-d5 (S)	%			78	33-120	
Phenol-d6 (S)	%			29	11-120	
Terphenyl-d14 (S)	%			81	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-22-14

Pace Project No.: 60167586

MATRIX SPIKE SAMPLE: 1368167		60167627003	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	11.5	23	44-120	M1
2,4,6-Trichlorophenol	ug/L	ND	50	13.5	27	50-120	M1
2-Methylphenol(o-Cresol)	ug/L	ND	50	17.9	36	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	17J	34	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	50	10.8J	22	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	11.2	22	39-116	M1
Hexachlorocyclopentadiene	ug/L	ND	100	19.2	19	11-120	
Hexachloroethane	ug/L	ND	50	10.7	21	40-113	M1
Naphthalene	ug/L	ND	50	11.7	23	45-120	M1
Nitrobenzene	ug/L	ND	50	13.1	26	38-120	M1
Pentachlorophenol	ug/L	ND	50	13.6	27	43-135	M1
Phenol	ug/L	ND	50	8.7	17	13-112	
2,4,6-Tribromophenol (S)	%				26	39-120	S2
2-Fluorobiphenyl (S)	%				24	39-120	S2
2-Fluorophenol (S)	%				18	17-120	
Nitrobenzene-d5 (S)	%				26	33-120	S2
Phenol-d6 (S)	%				17	11-120	
Terphenyl-d14 (S)	%				30	45-120	S2

SAMPLE DUPLICATE: 1368168

Parameter	Units	60167627003	Dup	RPD	Max	
		Result	Result		RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	ND			
2,4,6-Trichlorophenol	ug/L	ND	ND			
2-Methylphenol(o-Cresol)	ug/L	ND	ND			N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	ND			N2
4,6-Dinitro-2-methylphenol	ug/L	ND	ND			
Hexachloro-1,3-butadiene	ug/L	ND	ND			
Hexachlorocyclopentadiene	ug/L	ND	ND			
Hexachloroethane	ug/L	ND	ND			
Naphthalene	ug/L	ND	ND			
Nitrobenzene	ug/L	ND	ND			
Pentachlorophenol	ug/L	ND	ND			
Phenol	ug/L	ND	ND			
2,4,6-Tribromophenol (S)	%	24	24	3		S2
2-Fluorobiphenyl (S)	%	21	21	2		S2
2-Fluorophenol (S)	%	23	27	13		
Nitrobenzene-d5 (S)	%	23	23	2		S2
Phenol-d6 (S)	%	22	24	12		
Terphenyl-d14 (S)	%	30	30	1		S2

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-22-14

Pace Project No.: 60167586

QC Batch: WET/47569

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60167586001

METHOD BLANK: 1368531

Matrix: Water

Associated Lab Samples: 60167586001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/29/14 07:02	

LABORATORY CONTROL SAMPLE: 1368532

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.7	99	78-114	

MATRIX SPIKE SAMPLE: 1368533

Parameter	Units	60167262001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	1.1J	41.2	41.1	97	78-114	

SAMPLE DUPLICATE: 1368534

Parameter	Units	60167264001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	2.1J	2.2J		18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-22-14

Pace Project No.: 60167586

QC Batch:	WET/47570	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60167586001		

METHOD BLANK: 1368535 Matrix: Water

Associated Lab Samples: 60167586001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	04/29/14 07:09	

LABORATORY CONTROL SAMPLE: 1368536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	22.0	110	64-132	

MATRIX SPIKE SAMPLE: 1368537

Parameter	Units	60167262001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20.6	17.2	79	64-132	

SAMPLE DUPLICATE: 1368538

Parameter	Units	60167264001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	ND		34	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-22-14

Pace Project No.: 60167586

QC Batch: WET/47489

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60167586001

METHOD BLANK: 1365950

Matrix: Water

Associated Lab Samples: 60167586001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/24/14 09:23	

SAMPLE DUPLICATE: 1365951

Parameter	Units	60167492005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2300	2300	0	10	

SAMPLE DUPLICATE: 1365952

Parameter	Units	60167586001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	4420	4420	0	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-22-14

Pace Project No.: 60167586

QC Batch:	WET/47469	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
Associated Lab Samples:	60167586001		

SAMPLE DUPLICATE: 1365341

Parameter	Units	60167475001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.3	5.2	1	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-22-14

Pace Project No.: 60167586

QC Batch: WET/47477

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60167586001

METHOD BLANK: 1365622

Matrix: Water

Associated Lab Samples: 60167586001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/28/14 15:18	

LABORATORY CONTROL SAMPLE: 1365623

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

SAMPLE DUPLICATE: 1365624

Parameter	Units	60167606002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	ND	ND		17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-22-14

Pace Project No.: 60167586

QC Batch:	WETA/29135	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60167586001		

METHOD BLANK: 1366611 Matrix: Water

Associated Lab Samples: 60167586001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/25/14 09:02	

LABORATORY CONTROL SAMPLE: 1366612

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	101	90-110	

MATRIX SPIKE SAMPLE: 1366613

Parameter	Units	60167437002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	31.5	20	46.1	73	90-110	M1

MATRIX SPIKE SAMPLE: 1366614

Parameter	Units	60167570005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.9	91	90-110	

SAMPLE DUPLICATE: 1366615

Parameter	Units	60167570010 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-22-14

Pace Project No.: 60167586

QC Batch:	WETA/29205	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60167586001		

METHOD BLANK: 1369323 Matrix: Water

Associated Lab Samples: 60167586001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	04/30/14 12:41	

LABORATORY CONTROL SAMPLE: 1369324

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	48.0	96	90-110	

MATRIX SPIKE SAMPLE: 1369325

Parameter	Units	60167182001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	1410	1000	2380	97	90-110	

SAMPLE DUPLICATE: 1369326

Parameter	Units	60167572001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	61700	64800	5	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF CB 04-22-14

Pace Project No.: 60167586

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.

S2 Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF CB 04-22-14

Pace Project No.: 60167586

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60167586001	CB 04-22-14	EPA 200.7	MPRP/26963	EPA 200.7	ICP/20464
60167586001	CB 04-22-14	EPA 200.7	MPRP/27009	EPA 200.7	ICP/20487
60167586001	CB 04-22-14	EPA 245.1	MERP/8334	EPA 245.1	MERC/8290
60167586001	CB 04-22-14	EPA 245.1	MERP/8352	EPA 245.1	MERC/8304
60167586001	CB 04-22-14	EPA 625	OEXT/43886	EPA 625	MSSV/14011
60167586001	CB 04-22-14	EPA 624 Low	MSV/61061		
60167586002	TRIP BLANK	EPA 624 Low	MSV/61061		
60167586001	CB 04-22-14	EPA 1664A	WET/47569		
60167586001	CB 04-22-14	EPA 1664A	WET/47570		
60167586001	CB 04-22-14	SM 2540D	WET/47489		
60167586001	CB 04-22-14	SM 4500-H+B	WET/47469		
60167586001	CB 04-22-14	SM 5210B	WET/47477	SM 5210B	WET/47566
60167586001	CB 04-22-14	EPA 350.1	WETA/29135		
60167586001	CB 04-22-14	EPA 410.4	WETA/29205		

REPORT OF LABORATORY ANALYSIS

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WO#: 60167586



60167586



Sample Condition Upon Receipt

Client Name: Barr Eng

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 ☒ ZPLC

Thermometer Used: T-239 / T-194

Type of Ice: Wet Blue ☐ None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 2-6

Date and initials of person examining contents: 4/23/14 BA

Temperature should be above freezing to 6°C

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☐ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☒ Yes ☐ No ☐ N/A	6. <u>BOD, pH</u>
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☐ Yes ☐ No ☐ N/A	
Pace containers used:	☒ Yes ☐ No ☐ N/A	9.
Containers intact:	☒ Yes ☐ No ☐ N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	11.
Filtered volume received for dissolved tests?	☐ Yes ☐ No ☒ N/A	12.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☒ No ☐ N/A	
Exceptions: <u>VOA</u> coliform, TOC, O&G, WI-DRO (water), Phenolics	☒ Yes ☐ No	
Trip Blank present:	☒ Yes ☐ No ☐ N/A	
Pace Trip Blank lot # (if purchased): <u>covered</u>		15.
Headspace in VOA vials (>6mm):	☐ Yes ☒ No ☐ N/A	
		16.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ 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: 4/23/14

May 07, 2014

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

RE: Project: BRIDGETON LF CB 04-23-14
Pace Project No.: 60167708

Dear Ed Galbraith:

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

Amended report revised 05/07/14 to correct for qualifier associated with Vinyl Chloride EPA 8260.

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: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF CB 04-23-14

Pace Project No.: 60167708

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 CB 04-23-14

Pace Project No.: 60167708

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60167708001	CB 04-23-14	Water	04/23/14 09:20	04/24/14 01:00
60167708002	TRIP BLANK	Water	04/23/14 00:00	04/24/14 01:00

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF CB 04-23-14

Pace Project No.: 60167708

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60167708001	CB 04-23-14	EPA 200.7	NDJ	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
		EPA 624 Low	EAK	28
60167708002	TRIP BLANK			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 04-23-14

Pace Project No.: 60167708

Sample: CB 04-23-14		Lab ID: 60167708001	Collected: 04/23/14 09:20	Received: 04/24/14 01:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	4970 ug/L		750	2	04/25/14 09:40	04/28/14 10:38	7429-90-5	D3
Antimony	ND ug/L		100	2	04/25/14 09:40	04/28/14 10:38	7440-36-0	
Arsenic	1060 ug/L		50.0	1	04/25/14 09:40	04/28/14 10:35	7440-38-2	
Beryllium	ND ug/L		5.0	1	04/25/14 09:40	04/28/14 10:35	7440-41-7	
Cadmium	ND ug/L		25.0	1	04/25/14 09:40	04/28/14 10:35	7440-43-9	
Chromium	215 ug/L		25.0	1	04/25/14 09:40	04/28/14 10:35	7440-47-3	
Cobalt	47.9 ug/L		25.0	1	04/25/14 09:40	04/28/14 10:35	7440-48-4	
Copper	ND ug/L		50.0	1	04/25/14 09:40	04/28/14 10:35	7440-50-8	
Iron	618000 ug/L		250	1	04/25/14 09:40	04/28/14 10:35	7439-89-6	
Lead	80.5 ug/L		25.0	1	04/25/14 09:40	04/28/14 10:35	7439-92-1	
Nickel	89.2 ug/L		25.0	1	04/25/14 09:40	04/28/14 10:35	7440-02-0	
Selenium	97.0 ug/L		75.0	1	04/25/14 09:40	04/28/14 10:35	7782-49-2	
Silver	ND ug/L		35.0	1	04/25/14 09:40	04/28/14 10:35	7440-22-4	
Thallium	ND ug/L		100	1	04/25/14 09:40	04/28/14 10:35	7440-28-0	
Zinc	6050 ug/L		500	2	04/25/14 09:40	04/28/14 10:38	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1340 ug/L		750	2	04/25/14 17:30	04/29/14 18:58	7429-90-5	
Antimony, Dissolved	ND ug/L		100	2	04/25/14 17:30	04/29/14 18:58	7440-36-0	
Arsenic, Dissolved	764 ug/L		50.0	1	04/25/14 17:30	04/29/14 18:54	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	04/25/14 17:30	04/29/14 18:54	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	04/25/14 17:30	04/29/14 18:54	7440-43-9	
Chromium, Dissolved	147 ug/L		25.0	1	04/25/14 17:30	04/29/14 18:54	7440-47-3	
Cobalt, Dissolved	25.1 ug/L		25.0	1	04/25/14 17:30	04/29/14 18:54	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	04/25/14 17:30	04/29/14 18:54	7440-50-8	
Iron, Dissolved	303000 ug/L		250	1	04/25/14 17:30	04/29/14 18:54	7439-89-6	
Lead, Dissolved	30.7 ug/L		25.0	1	04/25/14 17:30	04/29/14 18:54	7439-92-1	
Nickel, Dissolved	81.8 ug/L		25.0	1	04/25/14 17:30	04/29/14 18:54	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	04/25/14 17:30	04/29/14 18:54	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	04/25/14 17:30	04/29/14 18:54	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	04/25/14 17:30	04/29/14 18:54	7440-28-0	
Zinc, Dissolved	5180 ug/L		500	2	04/25/14 17:30	04/29/14 18:58	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	25.3 ug/L		6.0	1	04/25/14 10:15	04/25/14 16:13	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		6.0	1	04/30/14 11:00	04/30/14 15:06	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	04/28/14 00:00	04/29/14 14:34	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	04/28/14 00:00	04/29/14 14:34	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	04/28/14 00:00	04/29/14 14:34	77-47-4	
Hexachloroethane	ND ug/L		1000	2	04/28/14 00:00	04/29/14 14:34	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	04/28/14 00:00	04/29/14 14:34	95-48-7	
3&4-Methylphenol(m&p Cresol)	8970 ug/L		4000	2	04/28/14 00:00	04/29/14 14:34		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 04-23-14

Pace Project No.: 60167708

Sample: CB 04-23-14		Lab ID: 60167708001	Collected: 04/23/14 09:20	Received: 04/24/14 01:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	1760 ug/L		1000	2	04/28/14 00:00	04/29/14 14:34	91-20-3	
Nitrobenzene	ND ug/L		1000	2	04/28/14 00:00	04/29/14 14:34	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	04/28/14 00:00	04/29/14 14:34	87-86-5	
Phenol	13700 ug/L		1000	2	04/28/14 00:00	04/29/14 14:34	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	04/28/14 00:00	04/29/14 14:34	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	04/28/14 00:00	04/29/14 14:34	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	166 %		33-120	2	04/28/14 00:00	04/29/14 14:34	4165-60-0	S0
2-Fluorobiphenyl (S)	96 %		39-120	2	04/28/14 00:00	04/29/14 14:34	321-60-8	
Terphenyl-d14 (S)	98 %		45-120	2	04/28/14 00:00	04/29/14 14:34	1718-51-0	
Phenol-d6 (S)	39 %		11-120	2	04/28/14 00:00	04/29/14 14:34	13127-88-3	
2-Fluorophenol (S)	50 %		17-120	2	04/28/14 00:00	04/29/14 14:34	367-12-4	
2,4,6-Tribromophenol (S)	111 %		39-120	2	04/28/14 00:00	04/29/14 14:34	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	147000 ug/L		2500	250		04/27/14 22:24	67-64-1	N2
Benzene	ND ug/L		250	250		04/27/14 22:24	71-43-2	
Bromodichloromethane	ND ug/L		250	250		04/27/14 22:24	75-27-4	
Bromoform	ND ug/L		250	250		04/27/14 22:24	75-25-2	
Bromomethane	ND ug/L		1250	250		04/27/14 22:24	74-83-9	
2-Butanone (MEK)	63600 ug/L		2500	250		04/27/14 22:24	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		04/27/14 22:24	56-23-5	
Chloroethane	ND ug/L		250	250		04/27/14 22:24	75-00-3	
Chloroform	ND ug/L		250	250		04/27/14 22:24	67-66-3	
1,4-Dichlorobenzene	442 ug/L		250	250		04/27/14 22:24	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		04/27/14 22:24	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		04/27/14 22:24	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		04/27/14 22:24	156-60-5	
Ethylbenzene	ND ug/L		250	250		04/27/14 22:24	100-41-4	
Methylene chloride	ND ug/L		250	250		04/27/14 22:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		04/27/14 22:24	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		04/27/14 22:24	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		04/27/14 22:24	127-18-4	
Toluene	ND ug/L		250	250		04/27/14 22:24	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		04/27/14 22:24	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		04/27/14 22:24	79-00-5	
Trichloroethene	ND ug/L		250	250		04/27/14 22:24	79-01-6	
Vinyl chloride	ND ug/L		250	250		04/27/14 22:24	75-01-4	
Xylene (Total)	ND ug/L		750	250		04/27/14 22:24	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	99 %		80-120	250		04/27/14 22:24	460-00-4	
Toluene-d8 (S)	100 %		80-120	250		04/27/14 22:24	2037-26-5	
1,2-Dichloroethane-d4 (S)	114 %		80-120	250		04/27/14 22:24	17060-07-0	
Preservation pH	6.0		1.0	250		04/27/14 22:24		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	907 mg/L		5.0	1		04/29/14 07:14		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 04-23-14

Pace Project No.: 60167708

Sample: CB 04-23-14		Lab ID: 60167708001	Collected: 04/23/14 09:20	Received: 04/24/14 01:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	5.8	mg/L	5.0	1		05/01/14 08:27		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	3480	mg/L	5.0	1		04/25/14 08:55		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.3	Std. Units	0.10	1		04/29/14 13:30		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	35200	mg/L	200	100	04/24/14 13:57	04/29/14 14:03		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	491	mg/L	20.0	200		04/29/14 11:40	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	51600	mg/L	5000	500		05/01/14 13:16		

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 04-23-14

Pace Project No.: 60167708

Sample: TRIP BLANK		Lab ID: 60167708002	Collected: 04/23/14 00:00	Received: 04/24/14 01:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		04/27/14 22:08	67-64-1	N2
Benzene	ND ug/L		1.0	1		04/27/14 22:08	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/27/14 22:08	75-27-4	
Bromoform	ND ug/L		1.0	1		04/27/14 22:08	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/27/14 22:08	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/27/14 22:08	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		04/27/14 22:08	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/27/14 22:08	75-00-3	
Chloroform	ND ug/L		1.0	1		04/27/14 22:08	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/27/14 22:08	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/27/14 22:08	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/27/14 22:08	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/27/14 22:08	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/27/14 22:08	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/27/14 22:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/27/14 22:08	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/27/14 22:08	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/27/14 22:08	127-18-4	
Toluene	ND ug/L		1.0	1		04/27/14 22:08	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/27/14 22:08	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/27/14 22:08	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/27/14 22:08	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/27/14 22:08	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/27/14 22:08	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	99 %		80-120	1		04/27/14 22:08	460-00-4	
Toluene-d8 (S)	100 %		80-120	1		04/27/14 22:08	2037-26-5	
1,2-Dichloroethane-d4 (S)	98 %		80-120	1		04/27/14 22:08	17060-07-0	
Preservation pH	6.0		1.0	1		04/27/14 22:08		

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-23-14

Pace Project No.: 60167708

QC Batch: MERP/8334

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60167708001

METHOD BLANK: 1366765

Matrix: Water

Associated Lab Samples: 60167708001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/25/14 15:10	

LABORATORY CONTROL SAMPLE: 1366766

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1366767 1366768

Parameter	Units	60167270001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.3	4.6	85	91	70-130	7	20	

MATRIX SPIKE SAMPLE: 1366769

Parameter	Units	60167479003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	3.9	78	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-23-14

Pace Project No.: 60167708

QC Batch:	MERP/8352	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60167708001		

METHOD BLANK: 1369342 Matrix: Water

Associated Lab Samples: 60167708001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/30/14 14:46	

LABORATORY CONTROL SAMPLE: 1369343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.5	90	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1369344 1369345

Parameter	Units	60167571001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	116	122	77	81	70-130	5	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-23-14

Pace Project No.: 60167708

QC Batch: MPRP/26989

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Associated Lab Samples: 60167708001

METHOD BLANK: 1366770

Matrix: Water

Associated Lab Samples: 60167708001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/28/14 10:22	
Antimony	ug/L	ND	10.0	04/28/14 10:22	
Arsenic	ug/L	ND	10.0	04/28/14 10:22	
Beryllium	ug/L	ND	1.0	04/28/14 10:22	
Cadmium	ug/L	ND	5.0	04/28/14 10:22	
Chromium	ug/L	ND	5.0	04/28/14 10:22	
Cobalt	ug/L	ND	5.0	04/28/14 10:22	
Copper	ug/L	ND	10.0	04/28/14 10:22	
Iron	ug/L	ND	50.0	04/28/14 10:22	
Lead	ug/L	ND	5.0	04/28/14 10:22	
Nickel	ug/L	ND	5.0	04/28/14 10:22	
Selenium	ug/L	ND	15.0	04/28/14 10:22	
Silver	ug/L	ND	7.0	04/28/14 10:22	
Thallium	ug/L	ND	20.0	04/28/14 10:22	
Zinc	ug/L	ND	50.0	04/28/14 10:22	

LABORATORY CONTROL SAMPLE: 1366771

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	1000	100	85-115	
Beryllium	ug/L	1000	1010	101	85-115	
Cadmium	ug/L	1000	1010	101	85-115	
Chromium	ug/L	1000	990	99	85-115	
Cobalt	ug/L	1000	1040	104	85-115	
Copper	ug/L	1000	1060	106	85-115	
Iron	ug/L	10000	10200	102	85-115	
Lead	ug/L	1000	1040	104	85-115	
Nickel	ug/L	1000	1040	104	85-115	
Selenium	ug/L	1000	1060	106	85-115	
Silver	ug/L	500	504	101	85-115	
Thallium	ug/L	1000	1050	105	85-115	
Zinc	ug/L	1000	998	100	85-115	

MATRIX SPIKE SAMPLE: 1366774

Parameter	Units	60167570005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	408	10000	10700	103	70-130	
Antimony	ug/L	ND	1000	1070	107	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-23-14

Pace Project No.: 60167708

MATRIX SPIKE SAMPLE:		1366774					
Parameter	Units	60167570005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	ND	1000	1030	102	70-130	
Beryllium	ug/L	ND	1000	989	99	70-130	
Cadmium	ug/L	ND	1000	1010	101	70-130	
Chromium	ug/L	ND	1000	973	97	70-130	
Cobalt	ug/L	ND	1000	1010	101	70-130	
Copper	ug/L	ND	1000	1030	103	70-130	
Iron	ug/L	628	10000	10400	98	70-130	
Lead	ug/L	ND	1000	986	99	70-130	
Nickel	ug/L	ND	1000	1000	100	70-130	
Selenium	ug/L	ND	1000	1050	105	70-130	
Silver	ug/L	ND	500	501	100	70-130	
Thallium	ug/L	ND	1000	981	98	70-130	
Zinc	ug/L	ND	1000	975	96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			1366952	1366953								
Parameter	Units	60167570011	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		Qual
		Result	Spike Conc.	Spike Conc.						Result	Result	
Aluminum	ug/L	ND	10000	10000	10200	10300	102	103	70-130	1	8	
Antimony	ug/L	ND	1000	1000	1140	1140	114	114	70-130	0	7	
Arsenic	ug/L	ND	1000	1000	1080	1080	108	108	70-130	0	10	
Beryllium	ug/L	ND	1000	1000	991	996	99	100	70-130	1	7	
Cadmium	ug/L	ND	1000	1000	1060	1060	106	106	70-130	0	10	
Chromium	ug/L	ND	1000	1000	958	968	96	97	70-130	1	10	
Cobalt	ug/L	ND	1000	1000	994	1000	99	100	70-130	1	6	
Copper	ug/L	ND	1000	1000	1090	1090	109	109	70-130	0	11	
Iron	ug/L	482	10000	10000	10200	10200	97	98	70-130	1	10	
Lead	ug/L	ND	1000	1000	967	971	97	97	70-130	0	10	
Nickel	ug/L	ND	1000	1000	986	991	98	99	70-130	1	10	
Selenium	ug/L	ND	1000	1000	1120	1120	112	112	70-130	0	10	
Silver	ug/L	ND	500	500	535	538	107	108	70-130	0	10	
Thallium	ug/L	ND	1000	1000	934	938	93	94	70-130	1	6	
Zinc	ug/L	ND	1000	1000	943	952	94	95	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-23-14

Pace Project No.: 60167708

QC Batch: MPRP/27009

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60167708001

METHOD BLANK: 1367544

Matrix: Water

Associated Lab Samples: 60167708001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/29/14 18:11	
Antimony, Dissolved	ug/L	ND	10.0	04/29/14 18:11	
Arsenic, Dissolved	ug/L	ND	10.0	04/29/14 18:11	
Beryllium, Dissolved	ug/L	ND	1.0	04/29/14 18:11	
Cadmium, Dissolved	ug/L	ND	5.0	04/29/14 18:11	
Chromium, Dissolved	ug/L	ND	5.0	04/29/14 18:11	
Cobalt, Dissolved	ug/L	ND	5.0	04/29/14 18:11	
Copper, Dissolved	ug/L	ND	10.0	04/29/14 18:11	
Iron, Dissolved	ug/L	ND	50.0	04/29/14 18:11	
Lead, Dissolved	ug/L	ND	5.0	04/29/14 18:11	
Nickel, Dissolved	ug/L	ND	5.0	04/29/14 18:11	
Selenium, Dissolved	ug/L	ND	15.0	04/29/14 18:11	
Silver, Dissolved	ug/L	ND	7.0	04/29/14 18:11	
Thallium, Dissolved	ug/L	ND	20.0	04/29/14 18:11	
Zinc, Dissolved	ug/L	ND	50.0	04/29/14 18:11	

LABORATORY CONTROL SAMPLE: 1367545

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	1010	101	85-115	
Beryllium, Dissolved	ug/L	1000	977	98	85-115	
Cadmium, Dissolved	ug/L	1000	1030	103	85-115	
Chromium, Dissolved	ug/L	1000	1000	100	85-115	
Cobalt, Dissolved	ug/L	1000	1060	106	85-115	
Copper, Dissolved	ug/L	1000	990	99	85-115	
Iron, Dissolved	ug/L	10000	9620	96	85-115	
Lead, Dissolved	ug/L	1000	1070	107	85-115	
Nickel, Dissolved	ug/L	1000	1100	110	85-115	
Selenium, Dissolved	ug/L	1000	1050	105	85-115	
Silver, Dissolved	ug/L	500	495	99	85-115	
Thallium, Dissolved	ug/L	1000	1050	105	85-115	
Zinc, Dissolved	ug/L	1000	1070	107	85-115	

MATRIX SPIKE SAMPLE: 1367584

Parameter	Units	60167791001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	ND	10000	10100	101	70-130	
Antimony, Dissolved	ug/L	ND	1000	1060	106	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-23-14

Pace Project No.: 60167708

MATRIX SPIKE SAMPLE:		1367584					
Parameter	Units	60167791001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	ND	1000	1020	102	70-130	
Beryllium, Dissolved	ug/L	ND	1000	963	96	70-130	
Cadmium, Dissolved	ug/L	ND	1000	1030	103	70-130	
Chromium, Dissolved	ug/L	ND	1000	994	99	70-130	
Cobalt, Dissolved	ug/L	ND	1000	1060	106	70-130	
Copper, Dissolved	ug/L	ND	1000	989	99	70-130	
Iron, Dissolved	ug/L	103	10000	9450	93	70-130	
Lead, Dissolved	ug/L	ND	1000	1070	107	70-130	
Nickel, Dissolved	ug/L	ND	1000	1100	110	70-130	
Selenium, Dissolved	ug/L	ND	1000	1060	106	70-130	
Silver, Dissolved	ug/L	ND	500	495	99	70-130	
Thallium, Dissolved	ug/L	ND	1000	1030	103	70-130	
Zinc, Dissolved	ug/L	ND	1000	1090	108	70-130	

MATRIX SPIKE SAMPLE:		1369302					
Parameter	Units	60167491002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	ND	10000	10400	104	70-130	
Antimony, Dissolved	ug/L	ND	1000	1110	111	70-130	
Arsenic, Dissolved	ug/L	ND	1000	1080	108	70-130	
Beryllium, Dissolved	ug/L	ND	1000	970	97	70-130	
Cadmium, Dissolved	ug/L	ND	1000	1070	107	70-130	
Chromium, Dissolved	ug/L	1.2J	1000	993	99	70-130	
Cobalt, Dissolved	ug/L	26.2	1000	1060	103	70-130	
Copper, Dissolved	ug/L	ND	1000	1040	104	70-130	
Iron, Dissolved	ug/L	40.3J	10000	9560	95	70-130	
Lead, Dissolved	ug/L	ND	1000	1020	102	70-130	
Nickel, Dissolved	ug/L	86.9	1000	1140	105	70-130	
Selenium, Dissolved	ug/L	ND	1000	1140	114	70-130	
Silver, Dissolved	ug/L	ND	500	521	104	70-130	
Thallium, Dissolved	ug/L	ND	1000	971	97	70-130	
Zinc, Dissolved	ug/L	178	1000	1190	101	70-130	

SAMPLE DUPLICATE: 1367583

Parameter	Units	60167491003 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum, Dissolved	ug/L	ND	ND		20	
Antimony, Dissolved	ug/L	ND	ND		20	
Arsenic, Dissolved	ug/L	4.5J	3.8J		20	
Beryllium, Dissolved	ug/L	ND	ND		20	
Cadmium, Dissolved	ug/L	0.64J	ND		20	
Chromium, Dissolved	ug/L	0.95J	ND		20	
Cobalt, Dissolved	ug/L	ND	ND		20	
Copper, Dissolved	ug/L	1.3J	1J		20	
Iron, Dissolved	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-23-14

Pace Project No.: 60167708

SAMPLE DUPLICATE: 1367583

Parameter	Units	60167491003 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead, Dissolved	ug/L	2.3J	ND		20	
Nickel, Dissolved	ug/L	7.7	6.8	13	20	
Selenium, Dissolved	ug/L	ND	ND		20	
Silver, Dissolved	ug/L	ND	ND		20	
Thallium, Dissolved	ug/L	ND	ND		20	
Zinc, Dissolved	ug/L	38.0J	35.8J		20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-23-14

Pace Project No.: 60167708

QC Batch: MSV/61089 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60167708001, 60167708002

METHOD BLANK: 1366107

Matrix: Water

Associated Lab Samples: 60167708001, 60167708002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/27/14 20:50	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/27/14 20:50	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/27/14 20:50	
1,2-Dichloroethane	ug/L	ND	1.0	04/27/14 20:50	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/27/14 20:50	
2-Butanone (MEK)	ug/L	ND	10.0	04/27/14 20:50	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/27/14 20:50	N2
Acetone	ug/L	ND	10.0	04/27/14 20:50	N2
Benzene	ug/L	ND	1.0	04/27/14 20:50	
Bromodichloromethane	ug/L	ND	1.0	04/27/14 20:50	
Bromoform	ug/L	ND	1.0	04/27/14 20:50	
Bromomethane	ug/L	ND	5.0	04/27/14 20:50	
Carbon tetrachloride	ug/L	ND	1.0	04/27/14 20:50	
Chloroethane	ug/L	ND	1.0	04/27/14 20:50	
Chloroform	ug/L	ND	1.0	04/27/14 20:50	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/27/14 20:50	N2
Ethylbenzene	ug/L	ND	1.0	04/27/14 20:50	
Methylene chloride	ug/L	ND	1.0	04/27/14 20:50	
Tetrachloroethene	ug/L	ND	1.0	04/27/14 20:50	
Toluene	ug/L	ND	1.0	04/27/14 20:50	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/27/14 20:50	
Trichloroethene	ug/L	ND	1.0	04/27/14 20:50	
Vinyl chloride	ug/L	ND	1.0	04/27/14 20:50	
Xylene (Total)	ug/L	ND	3.0	04/27/14 20:50	N2
1,2-Dichloroethane-d4 (S)	%	98	80-120	04/27/14 20:50	
4-Bromofluorobenzene (S)	%	102	80-120	04/27/14 20:50	
Toluene-d8 (S)	%	101	80-120	04/27/14 20:50	

LABORATORY CONTROL SAMPLE: 1366108

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.8	94	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	18.5	92	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.0	95	67-124	
1,2-Dichloroethane	ug/L	20	18.3	91	70-126	
1,4-Dichlorobenzene	ug/L	20	18.8	94	74-120	
2-Butanone (MEK)	ug/L	100	85.5	86	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.1	92	59-131	N2
Acetone	ug/L	100	82.1	82	38-134	N2
Benzene	ug/L	20	17.8	89	75-120	
Bromodichloromethane	ug/L	20	18.4	92	68-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-23-14

Pace Project No.: 60167708

LABORATORY CONTROL SAMPLE: 1366108

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	17.7	88	65-127	
Bromomethane	ug/L	20	22.9	114	13-157	
Carbon tetrachloride	ug/L	20	18.1	90	70-131	
Chloroethane	ug/L	20	20.4	102	47-133	
Chloroform	ug/L	20	18.1	91	65-127	
cis-1,2-Dichloroethene	ug/L	20	19.0	95	68-127	N2
Ethylbenzene	ug/L	20	19.6	98	74-122	
Methylene chloride	ug/L	20	18.5	93	64-129	
Tetrachloroethene	ug/L	20	18.5	92	73-125	
Toluene	ug/L	20	17.8	89	69-126	
trans-1,2-Dichloroethene	ug/L	20	18.1	90	66-129	
Trichloroethene	ug/L	20	17.8	89	71-123	
Vinyl chloride	ug/L	20	21.5	108	43-129	
Xylene (Total)	ug/L	60	59.1	99	75-121	N2
1,2-Dichloroethane-d4 (S)	%			95	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Toluene-d8 (S)	%			97	80-120	
Preservation pH			6.0			

MATRIX SPIKE SAMPLE: 1366109

Parameter	Units	60167708001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	5040	101	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	4460	89	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4360	87	52-143	
1,2-Dichloroethane	ug/L	ND	5000	4760	95	49-144	
1,4-Dichlorobenzene	ug/L	442	5000	4610	83	33-140	
2-Butanone (MEK)	ug/L	63600	25000	88700	100	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	26000	101	40-160	N2
Acetone	ug/L	147000	25000	177000	118	10-160	N2
Benzene	ug/L	ND	5000	4750	95	37-151	
Bromodichloromethane	ug/L	ND	5000	4760	95	35-142	
Bromoform	ug/L	ND	5000	4190	84	45-142	
Bromomethane	ug/L	ND	5000	5540	111	10-158	
Carbon tetrachloride	ug/L	ND	5000	5160	103	70-140	
Chloroethane	ug/L	ND	5000	5420	108	19-152	
Chloroform	ug/L	ND	5000	4720	94	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4920	98	34-147	N2
Ethylbenzene	ug/L	ND	5000	4500	90	40-142	
Methylene chloride	ug/L	ND	5000	4920	98	31-144	
Tetrachloroethene	ug/L	ND	5000	4520	90	64-148	
Toluene	ug/L	ND	5000	4740	95	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	4850	97	54-151	
Trichloroethene	ug/L	ND	5000	4660	93	71-149	
Vinyl chloride	ug/L	ND	5000	5980	120	22-146	
Xylene (Total)	ug/L	ND	15000	14300	96	37-144	N2
1,2-Dichloroethane-d4 (S)	%				112	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-23-14

Pace Project No.: 60167708

MATRIX SPIKE SAMPLE:		1366109					
Parameter	Units	60167708001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%				98	80-120	
Toluene-d8 (S)	%				100	80-120	
Preservation pH		6.0		6.0			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-23-14

Pace Project No.: 60167708

QC Batch:	OEXT/43886	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60167708001		

METHOD BLANK: 1368165 Matrix: Water

Associated Lab Samples: 60167708001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	04/29/14 10:46	
2,4,6-Trichlorophenol	ug/L	ND	5.0	04/29/14 10:46	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	04/29/14 10:46	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	04/29/14 10:46	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	04/29/14 10:46	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	04/29/14 10:46	
Hexachlorocyclopentadiene	ug/L	ND	5.0	04/29/14 10:46	
Hexachloroethane	ug/L	ND	5.0	04/29/14 10:46	
Naphthalene	ug/L	ND	5.0	04/29/14 10:46	
Nitrobenzene	ug/L	ND	5.0	04/29/14 10:46	
Pentachlorophenol	ug/L	ND	5.0	04/29/14 10:46	
Phenol	ug/L	ND	5.0	04/29/14 10:46	
2,4,6-Tribromophenol (S)	%	87	39-120	04/29/14 10:46	
2-Fluorobiphenyl (S)	%	76	39-120	04/29/14 10:46	
2-Fluorophenol (S)	%	41	17-120	04/29/14 10:46	
Nitrobenzene-d5 (S)	%	79	33-120	04/29/14 10:46	
Phenol-d6 (S)	%	29	11-120	04/29/14 10:46	
Terphenyl-d14 (S)	%	85	45-120	04/29/14 10:46	

LABORATORY CONTROL SAMPLE: 1368166

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	35.7	71	46-120	
2,4,6-Trichlorophenol	ug/L	50	40.1	80	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	31.9	64	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	29.4	59	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	46.1	92	40-133	
Hexachloro-1,3-butadiene	ug/L	50	35.7	71	44-116	
Hexachlorocyclopentadiene	ug/L	100	63.0	63	24-120	
Hexachloroethane	ug/L	50	34.1	68	43-113	
Naphthalene	ug/L	50	36.4	73	48-120	
Nitrobenzene	ug/L	50	38.9	78	48-120	
Pentachlorophenol	ug/L	50	43.5	87	47-120	
Phenol	ug/L	50	14.8	30	16-112	
2,4,6-Tribromophenol (S)	%			85	39-120	
2-Fluorobiphenyl (S)	%			75	39-120	
2-Fluorophenol (S)	%			40	17-120	
Nitrobenzene-d5 (S)	%			78	33-120	
Phenol-d6 (S)	%			29	11-120	
Terphenyl-d14 (S)	%			81	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-23-14

Pace Project No.: 60167708

MATRIX SPIKE SAMPLE: 1368167		60167627003	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	11.5	23	44-120	M1
2,4,6-Trichlorophenol	ug/L	ND	50	13.5	27	50-120	M1
2-Methylphenol(o-Cresol)	ug/L	ND	50	17.9	36	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	17J	34	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	50	10.8J	22	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	11.2	22	39-116	M1
Hexachlorocyclopentadiene	ug/L	ND	100	19.2	19	11-120	
Hexachloroethane	ug/L	ND	50	10.7	21	40-113	M1
Naphthalene	ug/L	ND	50	11.7	23	45-120	M1
Nitrobenzene	ug/L	ND	50	13.1	26	38-120	M1
Pentachlorophenol	ug/L	ND	50	13.6	27	43-135	M1
Phenol	ug/L	ND	50	8.7	17	13-112	
2,4,6-Tribromophenol (S)	%				26	39-120	S2
2-Fluorobiphenyl (S)	%				24	39-120	S2
2-Fluorophenol (S)	%				18	17-120	
Nitrobenzene-d5 (S)	%				26	33-120	S2
Phenol-d6 (S)	%				17	11-120	
Terphenyl-d14 (S)	%				30	45-120	S2

SAMPLE DUPLICATE: 1368168

Parameter	Units	60167627003	Dup	RPD	Max	
		Result	Result		RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	ND			
2,4,6-Trichlorophenol	ug/L	ND	ND			
2-Methylphenol(o-Cresol)	ug/L	ND	ND			N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	ND			N2
4,6-Dinitro-2-methylphenol	ug/L	ND	ND			
Hexachloro-1,3-butadiene	ug/L	ND	ND			
Hexachlorocyclopentadiene	ug/L	ND	ND			
Hexachloroethane	ug/L	ND	ND			
Naphthalene	ug/L	ND	ND			
Nitrobenzene	ug/L	ND	ND			
Pentachlorophenol	ug/L	ND	ND			
Phenol	ug/L	ND	ND			
2,4,6-Tribromophenol (S)	%	24	24	3		S2
2-Fluorobiphenyl (S)	%	21	21	2		S2
2-Fluorophenol (S)	%	23	27	13		
Nitrobenzene-d5 (S)	%	23	23	2		S2
Phenol-d6 (S)	%	22	24	12		
Terphenyl-d14 (S)	%	30	30	1		S2

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-23-14

Pace Project No.: 60167708

QC Batch: WET/47572

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60167708001

METHOD BLANK: 1368543

Matrix: Water

Associated Lab Samples: 60167708001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/29/14 07:12	

LABORATORY CONTROL SAMPLE: 1368544

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.0	98	78-114	

MATRIX SPIKE SAMPLE: 1368547

Parameter	Units	60167024001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40.4	43.9	106	78-114	

SAMPLE DUPLICATE: 1368545

Parameter	Units	60167627003 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	5.4		18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-23-14

Pace Project No.: 60167708

QC Batch:	WET/47625	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60167708001		

METHOD BLANK: 1370002 Matrix: Water
Associated Lab Samples: 60167708001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	05/01/14 08:27	

LABORATORY CONTROL SAMPLE: 1370003

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

MATRIX SPIKE SAMPLE: 1370005

Parameter	Units	60167891001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	22	20.1	87	64-132	

SAMPLE DUPLICATE: 1370004

Parameter	Units	60167630002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	9.4	7.7	20	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-23-14

Pace Project No.: 60167708

QC Batch:	WET/47519	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	60167708001		

METHOD BLANK: 1366742 Matrix: Water

Associated Lab Samples: 60167708001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/25/14 08:52	

SAMPLE DUPLICATE: 1366743

Parameter	Units	60167766001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	18500	18600	1	10	

SAMPLE DUPLICATE: 1366744

Parameter	Units	60167705001 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 CB 04-23-14

Pace Project No.: 60167708

QC Batch:	WET/47555	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
Associated Lab Samples:	60167708001		

SAMPLE DUPLICATE: 1368247

Parameter	Units	60167611001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.3	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-23-14

Pace Project No.: 60167708

QC Batch: WET/47497

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60167708001

METHOD BLANK: 1366145

Matrix: Water

Associated Lab Samples: 60167708001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/29/14 13:21	

LABORATORY CONTROL SAMPLE: 1366146

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	192	97	85-115	

SAMPLE DUPLICATE: 1366147

Parameter	Units	60167708001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	35200	34600	2	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-23-14

Pace Project No.: 60167708

QC Batch:	WETA/29181	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60167708001		

METHOD BLANK: 1368692 Matrix: Water

Associated Lab Samples: 60167708001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/29/14 11:27	

LABORATORY CONTROL SAMPLE: 1368693

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

MATRIX SPIKE SAMPLE: 1368694

Parameter	Units	60167493001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.18	2	2.5	117	90-110	M1

SAMPLE DUPLICATE: 1368695

Parameter	Units	60167714001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	3.6	3.5	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-23-14

Pace Project No.: 60167708

QC Batch:	WETA/29220	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60167708001		

METHOD BLANK: 1369828 Matrix: Water
Associated Lab Samples: 60167708001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	05/01/14 12:57	

LABORATORY CONTROL SAMPLE: 1369829

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	48.1	96	90-110	

MATRIX SPIKE SAMPLE: 1369830

Parameter	Units	60167415001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	5530	5000	10200	93	90-110	

MATRIX SPIKE SAMPLE: 1369832

Parameter	Units	60167493002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	28.2	50	79.5	103	90-110	

SAMPLE DUPLICATE: 1369831

Parameter	Units	60167415005 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	3290	3310	1	25	

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QUALIFIERS

Project: BRIDGETON LF CB 04-23-14

Pace Project No.: 60167708

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

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TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 60167708

[1] Amended report revised 05/07/14 to correct for qualifier associated with Vinyl Chloride EPA 8260.

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.

S2 Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF CB 04-23-14

Pace Project No.: 60167708

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60167708001	CB 04-23-14	EPA 200.7	MPRP/26989	EPA 200.7	ICP/20484
60167708001	CB 04-23-14	EPA 200.7	MPRP/27009	EPA 200.7	ICP/20487
60167708001	CB 04-23-14	EPA 245.1	MERP/8334	EPA 245.1	MERC/8290
60167708001	CB 04-23-14	EPA 245.1	MERP/8352	EPA 245.1	MERC/8304
60167708001	CB 04-23-14	EPA 625	OEXT/43886	EPA 625	MSSV/14011
60167708001	CB 04-23-14	EPA 624 Low	MSV/61089		
60167708002	TRIP BLANK	EPA 624 Low	MSV/61089		
60167708001	CB 04-23-14	EPA 1664A	WET/47572		
60167708001	CB 04-23-14	EPA 1664A	WET/47625		
60167708001	CB 04-23-14	SM 2540D	WET/47519		
60167708001	CB 04-23-14	SM 4500-H+B	WET/47555		
60167708001	CB 04-23-14	SM 5210B	WET/47497	SM 5210B	WET/47586
60167708001	CB 04-23-14	EPA 350.1	WETA/29181		
60167708001	CB 04-23-14	EPA 410.4	WETA/29220		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60167708



Client Name: Barr

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 ☒ upc

Thermometer Used: T-239 / T-194

Type of Ice: Wet Blue ☐ None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 1.6

Date and initials of person examining contents: 2/4/24/14

Temperature should be above freezing to 6°C

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

Client Notification/ Resolution:

Copy COC to Client? Y ☒ N ☐

Field Data Required? Y ☒ N ☐

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

May 02, 2014

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

RE: Project: BRIDGETON LF CB 04-24-14
Pace Project No.: 60167821

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 25, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Dana B. Pasi, Barr Engineering Co.
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF CB 04-24-14

Pace Project No.: 60167821

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 CB 04-24-14

Pace Project No.: 60167821

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60167821001	CB 04-24-14	Water	04/24/14 08:24	04/25/14 00:55
60167821002	TRIP BLANK	Water	04/24/14 08:24	04/25/14 00:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF CB 04-24-14

Pace Project No.: 60167821

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60167821001	CB 04-24-14	EPA 200.7	SMW	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
60167821002	TRIP BLANK	EPA 624 Low	EAK	28

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 04-24-14

Pace Project No.: 60167821

Sample: CB 04-24-14		Lab ID: 60167821001	Collected: 04/24/14 08:24	Received: 04/25/14 00:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	9480 ug/L		750	2	04/29/14 15:15	04/30/14 16:46	7429-90-5	
Antimony	62.7 ug/L		50.0	1	04/29/14 15:15	04/30/14 16:43	7440-36-0	
Arsenic	1060 ug/L		50.0	1	04/29/14 15:15	04/30/14 16:43	7440-38-2	
Beryllium	ND ug/L		5.0	1	04/29/14 15:15	04/30/14 16:43	7440-41-7	
Cadmium	ND ug/L		25.0	1	04/29/14 15:15	04/30/14 16:43	7440-43-9	
Chromium	232 ug/L		25.0	1	04/29/14 15:15	04/30/14 16:43	7440-47-3	
Cobalt	36.3 ug/L		25.0	1	04/29/14 15:15	04/30/14 16:43	7440-48-4	
Copper	61.0 ug/L		50.0	1	04/29/14 15:15	04/30/14 16:43	7440-50-8	
Iron	760000 ug/L		250	1	04/29/14 15:15	04/30/14 16:43	7439-89-6	
Lead	112 ug/L		25.0	1	04/29/14 15:15	04/30/14 16:43	7439-92-1	
Nickel	112 ug/L		25.0	1	04/29/14 15:15	04/30/14 16:43	7440-02-0	
Selenium	ND ug/L		75.0	1	04/29/14 15:15	04/30/14 16:43	7782-49-2	
Silver	ND ug/L		35.0	1	04/29/14 15:15	04/30/14 16:43	7440-22-4	
Thallium	ND ug/L		100	1	04/29/14 15:15	04/30/14 16:43	7440-28-0	
Zinc	6310 ug/L		500	2	04/29/14 15:15	04/30/14 16:46	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1040 ug/L		750	2	04/25/14 17:30	04/29/14 19:21	7429-90-5	D3
Antimony, Dissolved	ND ug/L		100	2	04/25/14 17:30	04/29/14 19:21	7440-36-0	
Arsenic, Dissolved	748 ug/L		50.0	1	04/25/14 17:30	04/29/14 19:18	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	04/25/14 17:30	04/29/14 19:18	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	04/25/14 17:30	04/29/14 19:18	7440-43-9	
Chromium, Dissolved	147 ug/L		25.0	1	04/25/14 17:30	04/29/14 19:18	7440-47-3	
Cobalt, Dissolved	ND ug/L		25.0	1	04/25/14 17:30	04/29/14 19:18	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	04/25/14 17:30	04/29/14 19:18	7440-50-8	
Iron, Dissolved	281000 ug/L		250	1	04/25/14 17:30	04/29/14 19:18	7439-89-6	
Lead, Dissolved	27.3 ug/L		25.0	1	04/25/14 17:30	04/29/14 19:18	7439-92-1	
Nickel, Dissolved	80.6 ug/L		25.0	1	04/25/14 17:30	04/29/14 19:18	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	04/25/14 17:30	04/29/14 19:18	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	04/25/14 17:30	04/29/14 19:18	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	04/25/14 17:30	04/29/14 19:18	7440-28-0	
Zinc, Dissolved	4950 ug/L		500	2	04/25/14 17:30	04/29/14 19:21	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	27.3 ug/L		6.0	1	04/28/14 10:45	04/28/14 15:45	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	04/30/14 11:00	04/30/14 15:15	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	05/01/14 00:00	05/02/14 11:32	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	05/01/14 00:00	05/02/14 11:32	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	05/01/14 00:00	05/02/14 11:32	77-47-4	
Hexachloroethane	ND ug/L		1000	2	05/01/14 00:00	05/02/14 11:32	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	05/01/14 00:00	05/02/14 11:32	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	6820 ug/L		4000	2	05/01/14 00:00	05/02/14 11:32		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 04-24-14

Pace Project No.: 60167821

Sample: CB 04-24-14		Lab ID: 60167821001	Collected: 04/24/14 08:24	Received: 04/25/14 00:55	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	05/01/14 00:00	05/02/14 11:32	91-20-3	
Nitrobenzene	ND ug/L		1000	2	05/01/14 00:00	05/02/14 11:32	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	05/01/14 00:00	05/02/14 11:32	87-86-5	
Phenol	9380 ug/L		1000	2	05/01/14 00:00	05/02/14 11:32	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	05/01/14 00:00	05/02/14 11:32	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	05/01/14 00:00	05/02/14 11:32	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	144 %		33-120	2	05/01/14 00:00	05/02/14 11:32	4165-60-0	S0
2-Fluorobiphenyl (S)	84 %		39-120	2	05/01/14 00:00	05/02/14 11:32	321-60-8	
Terphenyl-d14 (S)	80 %		45-120	2	05/01/14 00:00	05/02/14 11:32	1718-51-0	
Phenol-d6 (S)	27 %		11-120	2	05/01/14 00:00	05/02/14 11:32	13127-88-3	
2-Fluorophenol (S)	44 %		17-120	2	05/01/14 00:00	05/02/14 11:32	367-12-4	
2,4,6-Tribromophenol (S)	100 %		39-120	2	05/01/14 00:00	05/02/14 11:32	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	116000 ug/L		2500	250		04/28/14 18:15	67-64-1	N2
Benzene	ND ug/L		250	250		04/28/14 18:15	71-43-2	
Bromodichloromethane	ND ug/L		250	250		04/28/14 18:15	75-27-4	
Bromoform	ND ug/L		250	250		04/28/14 18:15	75-25-2	
Bromomethane	ND ug/L		1250	250		04/28/14 18:15	74-83-9	
2-Butanone (MEK)	49200 ug/L		2500	250		04/28/14 18:15	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		04/28/14 18:15	56-23-5	
Chloroethane	ND ug/L		250	250		04/28/14 18:15	75-00-3	
Chloroform	ND ug/L		250	250		04/28/14 18:15	67-66-3	
1,4-Dichlorobenzene	316 ug/L		250	250		04/28/14 18:15	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		04/28/14 18:15	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		04/28/14 18:15	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		04/28/14 18:15	156-60-5	
Ethylbenzene	ND ug/L		250	250		04/28/14 18:15	100-41-4	
Methylene chloride	ND ug/L		250	250		04/28/14 18:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		04/28/14 18:15	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		04/28/14 18:15	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		04/28/14 18:15	127-18-4	
Toluene	ND ug/L		250	250		04/28/14 18:15	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		04/28/14 18:15	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		04/28/14 18:15	79-00-5	
Trichloroethene	ND ug/L		250	250		04/28/14 18:15	79-01-6	
Vinyl chloride	ND ug/L		250	250		04/28/14 18:15	75-01-4	
Xylene (Total)	ND ug/L		750	250		04/28/14 18:15	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	104 %		80-120	250		04/28/14 18:15	460-00-4	
Toluene-d8 (S)	99 %		80-120	250		04/28/14 18:15	2037-26-5	
1,2-Dichloroethane-d4 (S)	92 %		80-120	250		04/28/14 18:15	17060-07-0	
Preservation pH	6.0		1.0	250		04/28/14 18:15		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1160 mg/L		5.0	1		04/29/14 07:17		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 04-24-14

Pace Project No.: 60167821

Sample: CB 04-24-14		Lab ID: 60167821001	Collected: 04/24/14 08:24	Received: 04/25/14 00:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	9.2	mg/L	5.0	1		05/01/14 08:28		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	5280	mg/L	5.0	1		04/28/14 10:15		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.3	Std. Units	0.10	1		04/29/14 14:10		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	32900	mg/L	200	100	04/25/14 13:58	04/30/14 16:04		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	504	mg/L	20.0	200		04/29/14 11:47	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	51900	mg/L	5000	500		05/01/14 13:17		

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 04-24-14

Pace Project No.: 60167821

Sample: TRIP BLANK		Lab ID: 60167821002	Collected: 04/24/14 08:24	Received: 04/25/14 00:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	ND ug/L		10.0	1		04/28/14 17:27	67-64-1	N2
Benzene	ND ug/L		1.0	1		04/28/14 17:27	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/28/14 17:27	75-27-4	
Bromoform	ND ug/L		1.0	1		04/28/14 17:27	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/28/14 17:27	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/28/14 17:27	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		04/28/14 17:27	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/28/14 17:27	75-00-3	
Chloroform	ND ug/L		1.0	1		04/28/14 17:27	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/28/14 17:27	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/28/14 17:27	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/28/14 17:27	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/28/14 17:27	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/28/14 17:27	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/28/14 17:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/28/14 17:27	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/28/14 17:27	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/28/14 17:27	127-18-4	
Toluene	ND ug/L		1.0	1		04/28/14 17:27	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/28/14 17:27	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/28/14 17:27	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/28/14 17:27	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/28/14 17:27	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/28/14 17:27	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	105 %		80-120	1		04/28/14 17:27	460-00-4	
Toluene-d8 (S)	97 %		80-120	1		04/28/14 17:27	2037-26-5	
1,2-Dichloroethane-d4 (S)	91 %		80-120	1		04/28/14 17:27	17060-07-0	
Preservation pH	6.0		1.0	1		04/28/14 17:27		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-24-14

Pace Project No.: 60167821

QC Batch:	MERP/8345	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60167821001		

METHOD BLANK: 1368314 Matrix: Water

Associated Lab Samples: 60167821001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/28/14 15:38	

LABORATORY CONTROL SAMPLE: 1368315

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1368318 1368319

Parameter	Units	60167927001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.7	5.0	94	99	70-130	5	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-24-14

Pace Project No.: 60167821

QC Batch: MERP/8352

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60167821001

METHOD BLANK: 1369342

Matrix: Water

Associated Lab Samples: 60167821001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/30/14 14:46	

LABORATORY CONTROL SAMPLE: 1369343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.5	90	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1369344 1369345

Parameter	Units	60167571001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	116	122	77	81	70-130	5	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-24-14

Pace Project No.: 60167821

QC Batch:	MPRP/27045	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
Associated Lab Samples:	60167821001		

METHOD BLANK: 1369052 Matrix: Water
Associated Lab Samples: 60167821001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	04/30/14 16:39	
Antimony	ug/L	ND	10.0	04/30/14 16:39	
Arsenic	ug/L	ND	10.0	04/30/14 16:39	
Beryllium	ug/L	ND	1.0	04/30/14 16:39	
Cadmium	ug/L	ND	5.0	04/30/14 16:39	
Chromium	ug/L	ND	5.0	04/30/14 16:39	
Cobalt	ug/L	ND	5.0	04/30/14 16:39	
Copper	ug/L	ND	10.0	04/30/14 16:39	
Iron	ug/L	ND	50.0	04/30/14 16:39	
Lead	ug/L	ND	5.0	04/30/14 16:39	
Nickel	ug/L	ND	5.0	04/30/14 16:39	
Selenium	ug/L	ND	15.0	04/30/14 16:39	
Silver	ug/L	ND	7.0	04/30/14 16:39	
Thallium	ug/L	ND	20.0	04/30/14 16:39	
Zinc	ug/L	ND	50.0	04/30/14 16:39	

LABORATORY CONTROL SAMPLE: 1369053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10200	102	85-115	
Antimony	ug/L	1000	1020	102	85-115	
Arsenic	ug/L	1000	993	99	85-115	
Beryllium	ug/L	1000	1030	103	85-115	
Cadmium	ug/L	1000	1010	101	85-115	
Chromium	ug/L	1000	1010	101	85-115	
Cobalt	ug/L	1000	1040	104	85-115	
Copper	ug/L	1000	999	100	85-115	
Iron	ug/L	10000	10000	100	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	495	99	85-115	
Thallium	ug/L	1000	1040	104	85-115	
Zinc	ug/L	1000	1020	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1369054 1369055

Parameter	Units	60167805002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	ND	10000	10000	10500	10300	104	103	70-130	2	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-24-14

Pace Project No.: 60167821

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1369054 1369055											
Parameter	Units	60167805002		MS	MSD	MS		MSD	% Rec		Max
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	RPD
Antimony	ug/L	ND	1000	1000	1000	1070	1040	107	104	70-130	2
Arsenic	ug/L	ND	1000	1000	1000	1050	1030	104	102	70-130	2
Beryllium	ug/L	ND	1000	1000	1000	1030	1020	103	102	70-130	2
Cadmium	ug/L	ND	1000	1000	1000	1040	1030	104	103	70-130	2
Chromium	ug/L	ND	1000	1000	1000	1020	1000	102	100	70-130	1
Cobalt	ug/L	ND	1000	1000	1000	1010	999	101	100	70-130	1
Copper	ug/L	ND	1000	1000	1000	1030	1020	102	101	70-130	1
Iron	ug/L	95.9	10000	10000	10000	10100	9950	100	99	70-130	1
Lead	ug/L	ND	1000	1000	1000	998	981	100	98	70-130	2
Nickel	ug/L	6.4	1000	1000	1000	1020	1000	101	100	70-130	2
Selenium	ug/L	92.8	1000	1000	1000	1150	1130	106	104	70-130	2
Silver	ug/L	ND	500	500	500	517	506	103	101	70-130	2
Thallium	ug/L	ND	1000	1000	1000	955	933	96	93	70-130	2
Zinc	ug/L	ND	1000	1000	1000	1020	1010	101	100	70-130	1

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-24-14

Pace Project No.: 60167821

QC Batch:	MPRP/27009	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60167821001		

METHOD BLANK: 1367544 Matrix: Water

Associated Lab Samples: 60167821001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/29/14 18:11	
Antimony, Dissolved	ug/L	ND	10.0	04/29/14 18:11	
Arsenic, Dissolved	ug/L	ND	10.0	04/29/14 18:11	
Beryllium, Dissolved	ug/L	ND	1.0	04/29/14 18:11	
Cadmium, Dissolved	ug/L	ND	5.0	04/29/14 18:11	
Chromium, Dissolved	ug/L	ND	5.0	04/29/14 18:11	
Cobalt, Dissolved	ug/L	ND	5.0	04/29/14 18:11	
Copper, Dissolved	ug/L	ND	10.0	04/29/14 18:11	
Iron, Dissolved	ug/L	ND	50.0	04/29/14 18:11	
Lead, Dissolved	ug/L	ND	5.0	04/29/14 18:11	
Nickel, Dissolved	ug/L	ND	5.0	04/29/14 18:11	
Selenium, Dissolved	ug/L	ND	15.0	04/29/14 18:11	
Silver, Dissolved	ug/L	ND	7.0	04/29/14 18:11	
Thallium, Dissolved	ug/L	ND	20.0	04/29/14 18:11	
Zinc, Dissolved	ug/L	ND	50.0	04/29/14 18:11	

LABORATORY CONTROL SAMPLE: 1367545

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	1010	101	85-115	
Beryllium, Dissolved	ug/L	1000	977	98	85-115	
Cadmium, Dissolved	ug/L	1000	1030	103	85-115	
Chromium, Dissolved	ug/L	1000	1000	100	85-115	
Cobalt, Dissolved	ug/L	1000	1060	106	85-115	
Copper, Dissolved	ug/L	1000	990	99	85-115	
Iron, Dissolved	ug/L	10000	9620	96	85-115	
Lead, Dissolved	ug/L	1000	1070	107	85-115	
Nickel, Dissolved	ug/L	1000	1100	110	85-115	
Selenium, Dissolved	ug/L	1000	1050	105	85-115	
Silver, Dissolved	ug/L	500	495	99	85-115	
Thallium, Dissolved	ug/L	1000	1050	105	85-115	
Zinc, Dissolved	ug/L	1000	1070	107	85-115	

MATRIX SPIKE SAMPLE: 1367584

Parameter	Units	60167791001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	ND	10000	10100	101	70-130	
Antimony, Dissolved	ug/L	ND	1000	1060	106	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-24-14

Pace Project No.: 60167821

MATRIX SPIKE SAMPLE:		1367584					
Parameter	Units	60167791001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	ND	1000	1020	102	70-130	
Beryllium, Dissolved	ug/L	ND	1000	963	96	70-130	
Cadmium, Dissolved	ug/L	ND	1000	1030	103	70-130	
Chromium, Dissolved	ug/L	ND	1000	994	99	70-130	
Cobalt, Dissolved	ug/L	ND	1000	1060	106	70-130	
Copper, Dissolved	ug/L	ND	1000	989	99	70-130	
Iron, Dissolved	ug/L	103	10000	9450	93	70-130	
Lead, Dissolved	ug/L	ND	1000	1070	107	70-130	
Nickel, Dissolved	ug/L	ND	1000	1100	110	70-130	
Selenium, Dissolved	ug/L	ND	1000	1060	106	70-130	
Silver, Dissolved	ug/L	ND	500	495	99	70-130	
Thallium, Dissolved	ug/L	ND	1000	1030	103	70-130	
Zinc, Dissolved	ug/L	ND	1000	1090	108	70-130	

MATRIX SPIKE SAMPLE:		1369302					
Parameter	Units	60167491002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	ND	10000	10400	104	70-130	
Antimony, Dissolved	ug/L	ND	1000	1110	111	70-130	
Arsenic, Dissolved	ug/L	ND	1000	1080	108	70-130	
Beryllium, Dissolved	ug/L	ND	1000	970	97	70-130	
Cadmium, Dissolved	ug/L	ND	1000	1070	107	70-130	
Chromium, Dissolved	ug/L	1.2J	1000	993	99	70-130	
Cobalt, Dissolved	ug/L	26.2	1000	1060	103	70-130	
Copper, Dissolved	ug/L	ND	1000	1040	104	70-130	
Iron, Dissolved	ug/L	40.3J	10000	9560	95	70-130	
Lead, Dissolved	ug/L	ND	1000	1020	102	70-130	
Nickel, Dissolved	ug/L	86.9	1000	1140	105	70-130	
Selenium, Dissolved	ug/L	ND	1000	1140	114	70-130	
Silver, Dissolved	ug/L	ND	500	521	104	70-130	
Thallium, Dissolved	ug/L	ND	1000	971	97	70-130	
Zinc, Dissolved	ug/L	178	1000	1190	101	70-130	

SAMPLE DUPLICATE: 1367583

Parameter	Units	60167491003 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum, Dissolved	ug/L	ND	ND		20	
Antimony, Dissolved	ug/L	ND	ND		20	
Arsenic, Dissolved	ug/L	4.5J	3.8J		20	
Beryllium, Dissolved	ug/L	ND	ND		20	
Cadmium, Dissolved	ug/L	0.64J	ND		20	
Chromium, Dissolved	ug/L	0.95J	ND		20	
Cobalt, Dissolved	ug/L	ND	ND		20	
Copper, Dissolved	ug/L	1.3J	1J		20	
Iron, Dissolved	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-24-14

Pace Project No.: 60167821

SAMPLE DUPLICATE: 1367583

Parameter	Units	60167491003 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead, Dissolved	ug/L	2.3J	ND		20	
Nickel, Dissolved	ug/L	7.7	6.8	13	20	
Selenium, Dissolved	ug/L	ND	ND		20	
Silver, Dissolved	ug/L	ND	ND		20	
Thallium, Dissolved	ug/L	ND	ND		20	
Zinc, Dissolved	ug/L	38.0J	35.8J		20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-24-14

Pace Project No.: 60167821

QC Batch: MSV/61180 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60167821001, 60167821002

METHOD BLANK: 1368344

Matrix: Water

Associated Lab Samples: 60167821001, 60167821002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/28/14 13:16	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/28/14 13:16	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/28/14 13:16	
1,2-Dichloroethane	ug/L	ND	1.0	04/28/14 13:16	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/28/14 13:16	
2-Butanone (MEK)	ug/L	ND	10.0	04/28/14 13:16	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/28/14 13:16	N2
Acetone	ug/L	ND	10.0	04/28/14 13:16	N2
Benzene	ug/L	ND	1.0	04/28/14 13:16	
Bromodichloromethane	ug/L	ND	1.0	04/28/14 13:16	
Bromoform	ug/L	ND	1.0	04/28/14 13:16	
Bromomethane	ug/L	ND	5.0	04/28/14 13:16	
Carbon tetrachloride	ug/L	ND	1.0	04/28/14 13:16	
Chloroethane	ug/L	ND	1.0	04/28/14 13:16	
Chloroform	ug/L	ND	1.0	04/28/14 13:16	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/28/14 13:16	N2
Ethylbenzene	ug/L	ND	1.0	04/28/14 13:16	
Methylene chloride	ug/L	ND	1.0	04/28/14 13:16	
Tetrachloroethene	ug/L	ND	1.0	04/28/14 13:16	
Toluene	ug/L	ND	1.0	04/28/14 13:16	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/28/14 13:16	
Trichloroethene	ug/L	ND	1.0	04/28/14 13:16	
Vinyl chloride	ug/L	ND	1.0	04/28/14 13:16	
Xylene (Total)	ug/L	ND	3.0	04/28/14 13:16	N2
1,2-Dichloroethane-d4 (S)	%	102	80-120	04/28/14 13:16	
4-Bromofluorobenzene (S)	%	103	80-120	04/28/14 13:16	
Toluene-d8 (S)	%	102	80-120	04/28/14 13:16	

LABORATORY CONTROL SAMPLE: 1368345

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.4	97	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.5	97	67-127	N2
1,1,2-Trichloroethane	ug/L	20	18.8	94	67-124	
1,2-Dichloroethane	ug/L	20	19.3	96	70-126	
1,4-Dichlorobenzene	ug/L	20	19.1	96	74-120	
2-Butanone (MEK)	ug/L	100	88.2	88	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	95.0	95	59-131	N2
Acetone	ug/L	100	88.0	88	38-134	N2
Benzene	ug/L	20	18.7	93	75-120	
Bromodichloromethane	ug/L	20	19.4	97	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-24-14

Pace Project No.: 60167821

LABORATORY CONTROL SAMPLE: 1368345

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	18.2	91	65-127	
Bromomethane	ug/L	20	25.2	126	13-157	
Carbon tetrachloride	ug/L	20	19.3	97	70-131	
Chloroethane	ug/L	20	20.2	101	47-133	
Chloroform	ug/L	20	19.2	96	65-127	
cis-1,2-Dichloroethene	ug/L	20	19.7	98	68-127	N2
Ethylbenzene	ug/L	20	20.4	102	74-122	
Methylene chloride	ug/L	20	19.4	97	64-129	
Tetrachloroethene	ug/L	20	19.1	95	73-125	
Toluene	ug/L	20	18.9	94	69-126	
trans-1,2-Dichloroethene	ug/L	20	18.6	93	66-129	
Trichloroethene	ug/L	20	18.2	91	71-123	
Vinyl chloride	ug/L	20	21.6	108	43-129	
Xylene (Total)	ug/L	60	62.4	104	75-121	N2
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1368346

Parameter	Units	60167821001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	5070	101	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	4980	100	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4730	95	52-143	
1,2-Dichloroethane	ug/L	ND	5000	4540	91	49-144	
1,4-Dichlorobenzene	ug/L	316	5000	5170	97	33-140	
2-Butanone (MEK)	ug/L	49200	25000	71900	91	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	25400	97	40-160	N2
Acetone	ug/L	116000	25000	143000	107	10-160	N2
Benzene	ug/L	ND	5000	4810	96	37-151	
Bromodichloromethane	ug/L	ND	5000	4800	96	35-142	
Bromoform	ug/L	ND	5000	4500	90	45-142	
Bromomethane	ug/L	ND	5000	5920	118	10-158	
Carbon tetrachloride	ug/L	ND	5000	5260	105	70-140	
Chloroethane	ug/L	ND	5000	5300	106	19-152	
Chloroform	ug/L	ND	5000	4730	95	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4970	99	34-147	N2
Ethylbenzene	ug/L	ND	5000	5290	106	40-142	
Methylene chloride	ug/L	ND	5000	4800	96	31-144	
Tetrachloroethene	ug/L	ND	5000	5050	101	64-148	
Toluene	ug/L	ND	5000	4880	98	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	4940	99	54-151	
Trichloroethene	ug/L	ND	5000	4730	95	71-149	
Vinyl chloride	ug/L	ND	5000	5710	114	22-146	
Xylene (Total)	ug/L	ND	15000	15900	106	37-144	N2
1,2-Dichloroethane-d4 (S)	%				94	80-120	
4-Bromofluorobenzene (S)	%				102	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-24-14

Pace Project No.: 60167821

MATRIX SPIKE SAMPLE: 1368346

Parameter	Units	60167821001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
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 CB 04-24-14

Pace Project No.: 60167821

QC Batch:	OEXT/43937	Analysis Method:	EPA 625
QC Batch Method:	EPA 625	Analysis Description:	625 MSS
Associated Lab Samples:	60167821001		

METHOD BLANK: 1369918 Matrix: Water

Associated Lab Samples: 60167821001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/02/14 09:27	
2,4,6-Trichlorophenol	ug/L	ND	5.0	05/02/14 09:27	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	05/02/14 09:27	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	05/02/14 09:27	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	05/02/14 09:27	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/02/14 09:27	
Hexachlorocyclopentadiene	ug/L	ND	5.0	05/02/14 09:27	
Hexachloroethane	ug/L	ND	5.0	05/02/14 09:27	
Naphthalene	ug/L	ND	5.0	05/02/14 09:27	
Nitrobenzene	ug/L	ND	5.0	05/02/14 09:27	
Pentachlorophenol	ug/L	ND	5.0	05/02/14 09:27	
Phenol	ug/L	ND	5.0	05/02/14 09:27	
2,4,6-Tribromophenol (S)	%	113	39-120	05/02/14 09:27	
2-Fluorobiphenyl (S)	%	107	39-120	05/02/14 09:27	
2-Fluorophenol (S)	%	52	17-120	05/02/14 09:27	
Nitrobenzene-d5 (S)	%	96	33-120	05/02/14 09:27	
Phenol-d6 (S)	%	32	11-120	05/02/14 09:27	
Terphenyl-d14 (S)	%	100	45-120	05/02/14 09:27	

LABORATORY CONTROL SAMPLE: 1369919

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	43.2	86	46-120	
2,4,6-Trichlorophenol	ug/L	50	45.7	91	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	33.5	67	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	29.4	59	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	48.9	98	40-133	
Hexachloro-1,3-butadiene	ug/L	50	44.6	89	44-116	
Hexachlorocyclopentadiene	ug/L	100	75.1	75	24-120	
Hexachloroethane	ug/L	50	40.8	82	43-113	
Naphthalene	ug/L	50	43.3	87	48-120	
Nitrobenzene	ug/L	50	42.5	85	48-120	
Pentachlorophenol	ug/L	50	50.3	101	47-120	
Phenol	ug/L	50	15.4	31	16-112	
2,4,6-Tribromophenol (S)	%			101	39-120	
2-Fluorobiphenyl (S)	%			91	39-120	
2-Fluorophenol (S)	%			44	17-120	
Nitrobenzene-d5 (S)	%			85	33-120	
Phenol-d6 (S)	%			27	11-120	
Terphenyl-d14 (S)	%			90	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-24-14

Pace Project No.: 60167821

MATRIX SPIKE SAMPLE:		1369246					
Parameter	Units	60167796001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L			4090			
2,4,6-Trichlorophenol	ug/L			4620			
2-Methylphenol(o-Cresol)	ug/L			4170			N2
3&4-Methylphenol(m&p Cresol)	ug/L			10300			N2
4,6-Dinitro-2-methylphenol	ug/L			3020J			
Hexachloro-1,3-butadiene	ug/L			4630			
Hexachlorocyclopentadiene	ug/L			7930			
Hexachloroethane	ug/L			4450			
Naphthalene	ug/L			5450			
Nitrobenzene	ug/L			4310			
Pentachlorophenol	ug/L			4160			
Phenol	ug/L			11200			
2,4,6-Tribromophenol (S)	%				104	39-120	
2-Fluorobiphenyl (S)	%				91	39-120	
2-Fluorophenol (S)	%				49	17-120	
Nitrobenzene-d5 (S)	%				152	33-120	S0
Phenol-d6 (S)	%				32	11-120	
Terphenyl-d14 (S)	%				88	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-24-14

Pace Project No.: 60167821

QC Batch: WET/47572

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60167821001

METHOD BLANK: 1368543

Matrix: Water

Associated Lab Samples: 60167821001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/29/14 07:12	

LABORATORY CONTROL SAMPLE: 1368544

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.0	98	78-114	

MATRIX SPIKE SAMPLE: 1368547

Parameter	Units	60167024001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40.4	43.9	106	78-114	

SAMPLE DUPLICATE: 1368545

Parameter	Units	60167627003 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	5.4		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-24-14

Pace Project No.: 60167821

QC Batch:	WET/47625	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60167821001		

METHOD BLANK: 1370002 Matrix: Water

Associated Lab Samples: 60167821001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	05/01/14 08:27	

LABORATORY CONTROL SAMPLE: 1370003

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

MATRIX SPIKE SAMPLE: 1370005

Parameter	Units	60167891001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	22	20.1	87	64-132	

SAMPLE DUPLICATE: 1370004

Parameter	Units	60167630002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	9.4	7.7	20	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-24-14

Pace Project No.: 60167821

QC Batch: WET/47544

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60167821001

METHOD BLANK: 1368208

Matrix: Water

Associated Lab Samples: 60167821001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/28/14 10:11	

SAMPLE DUPLICATE: 1368209

Parameter	Units	60167726001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	93.0	90.0	3	10	

SAMPLE DUPLICATE: 1368210

Parameter	Units	60167695002 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 CB 04-24-14

Pace Project No.: 60167821

QC Batch: WET/47556 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60167821001

SAMPLE DUPLICATE: 1368248

Parameter	Units	60167695002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	7.9	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-24-14

Pace Project No.: 60167821

QC Batch: WET/47523

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60167821001

METHOD BLANK: 1366973

Matrix: Water

Associated Lab Samples: 60167821001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	04/30/14 15:34	

LABORATORY CONTROL SAMPLE: 1366974

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	187	94	85-115	

SAMPLE DUPLICATE: 1366975

Parameter	Units	60167817001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	23.4	23.6	1	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-24-14

Pace Project No.: 60167821

QC Batch:	WETA/29181	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60167821001		

METHOD BLANK: 1368692 Matrix: Water

Associated Lab Samples: 60167821001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	04/29/14 11:27	

LABORATORY CONTROL SAMPLE: 1368693

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

MATRIX SPIKE SAMPLE: 1368694

Parameter	Units	60167493001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.18	2	2.5	117	90-110	M1

SAMPLE DUPLICATE: 1368695

Parameter	Units	60167714001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	3.6	3.5	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-24-14

Pace Project No.: 60167821

QC Batch:	WETA/29220	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60167821001		

METHOD BLANK: 1369828 Matrix: Water
Associated Lab Samples: 60167821001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	05/01/14 12:57	

LABORATORY CONTROL SAMPLE: 1369829

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	48.1	96	90-110	

MATRIX SPIKE SAMPLE: 1369830

Parameter	Units	60167415001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	5530	5000	10200	93	90-110	

MATRIX SPIKE SAMPLE: 1369832

Parameter	Units	60167493002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	28.2	50	79.5	103	90-110	

SAMPLE DUPLICATE: 1369831

Parameter	Units	60167415005 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	3290	3310	1	25	

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QUALIFIERS

Project: BRIDGETON LF CB 04-24-14

Pace Project No.: 60167821

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 LF CB 04-24-14

Pace Project No.: 60167821

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60167821001	CB 04-24-14	EPA 200.7	MPRP/27045	EPA 200.7	ICP/20520
60167821001	CB 04-24-14	EPA 200.7	MPRP/27009	EPA 200.7	ICP/20487
60167821001	CB 04-24-14	EPA 245.1	MERP/8345	EPA 245.1	MERC/8300
60167821001	CB 04-24-14	EPA 245.1	MERP/8352	EPA 245.1	MERC/8304
60167821001	CB 04-24-14	EPA 625	OEXT/43937	EPA 625	MSSV/14038
60167821001	CB 04-24-14	EPA 624 Low	MSV/61180		
60167821002	TRIP BLANK	EPA 624 Low	MSV/61180		
60167821001	CB 04-24-14	EPA 1664A	WET/47572		
60167821001	CB 04-24-14	EPA 1664A	WET/47625		
60167821001	CB 04-24-14	SM 2540D	WET/47544		
60167821001	CB 04-24-14	SM 4500-H+B	WET/47556		
60167821001	CB 04-24-14	SM 5210B	WET/47523	SM 5210B	WET/47616
60167821001	CB 04-24-14	EPA 350.1	WETA/29181		
60167821001	CB 04-24-14	EPA 410.4	WETA/29220		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60167821



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 ☒ 2 PIC

Thermometer Used: T-239 / T-194

Type of Ice: Wet Blue ☐ None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 5-6

Date and initials of person examining contents: 04/25/14

Temperature should be above freezing to 6°C

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

Date: 4/25/14

May 05, 2014

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

RE: Project: BRIDGETON LF CB 04-25-14
Pace Project No.: 60167912

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 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: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



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CERTIFICATIONS

Project: BRIDGETON LF CB 04-25-14

Pace Project No.: 60167912

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 CB 04-25-14

Pace Project No.: 60167912

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60167912001	CB 04-25-14	Water	04/25/14 07:46	04/26/14 00:50
60167912002	TRIP BLANK	Water	04/25/14 08:00	04/26/14 00:50

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF CB 04-25-14

Pace Project No.: 60167912

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60167912001	CB 04-25-14	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
		EPA 624 Low	EAK	28
60167912002	TRIP BLANK			

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 04-25-14

Pace Project No.: 60167912

Sample: CB 04-25-14		Lab ID: 60167912001	Collected: 04/25/14 07:46	Received: 04/26/14 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	2990 ug/L		750	2	04/30/14 09:30	05/02/14 11:13	7429-90-5	
Antimony	ND ug/L		100	2	04/30/14 09:30	05/02/14 11:13	7440-36-0	D3
Arsenic	898 ug/L		50.0	1	04/30/14 09:30	05/02/14 11:10	7440-38-2	
Beryllium	ND ug/L		5.0	1	04/30/14 09:30	05/02/14 11:10	7440-41-7	
Cadmium	ND ug/L		25.0	1	04/30/14 09:30	05/02/14 11:10	7440-43-9	
Chromium	193 ug/L		25.0	1	04/30/14 09:30	05/02/14 11:10	7440-47-3	
Cobalt	28.9 ug/L		25.0	1	04/30/14 09:30	05/02/14 11:10	7440-48-4	
Copper	ND ug/L		50.0	1	04/30/14 09:30	05/02/14 11:10	7440-50-8	
Iron	455000 ug/L		250	1	04/30/14 09:30	05/02/14 11:10	7439-89-6	
Lead	52.4 ug/L		25.0	1	04/30/14 09:30	05/02/14 11:10	7439-92-1	
Nickel	97.4 ug/L		25.0	1	04/30/14 09:30	05/02/14 11:10	7440-02-0	
Selenium	ND ug/L		75.0	1	04/30/14 09:30	05/02/14 11:10	7782-49-2	
Silver	ND ug/L		35.0	1	04/30/14 09:30	05/02/14 11:10	7440-22-4	
Thallium	ND ug/L		100	1	04/30/14 09:30	05/02/14 11:10	7440-28-0	
Zinc	5860 ug/L		500	2	04/30/14 09:30	05/02/14 11:13	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1230 ug/L		750	2	04/28/14 16:45	04/29/14 20:28	7429-90-5	
Antimony, Dissolved	ND ug/L		100	2	04/28/14 16:45	04/29/14 20:28	7440-36-0	D3
Arsenic, Dissolved	850 ug/L		50.0	1	04/28/14 16:45	04/29/14 20:24	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	04/28/14 16:45	04/30/14 12:03	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	04/28/14 16:45	04/29/14 20:24	7440-43-9	
Chromium, Dissolved	165 ug/L		25.0	1	04/28/14 16:45	04/29/14 20:24	7440-47-3	
Cobalt, Dissolved	27.2 ug/L		25.0	1	04/28/14 16:45	04/29/14 20:24	7440-48-4	
Copper, Dissolved	ND ug/L		50.0	1	04/28/14 16:45	04/29/14 20:24	7440-50-8	
Iron, Dissolved	349000 ug/L		250	1	04/28/14 16:45	04/30/14 12:03	7439-89-6	
Lead, Dissolved	33.0 ug/L		25.0	1	04/28/14 16:45	04/29/14 20:24	7439-92-1	
Nickel, Dissolved	89.9 ug/L		25.0	1	04/28/14 16:45	04/29/14 20:24	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	04/28/14 16:45	04/29/14 20:24	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	04/28/14 16:45	04/29/14 20:24	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	04/28/14 16:45	04/29/14 20:24	7440-28-0	
Zinc, Dissolved	5710 ug/L		500	2	04/28/14 16:45	04/29/14 20:28	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	36.0 ug/L		6.0	1	04/28/14 10:45	04/28/14 15:47	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	04/30/14 11:00	04/30/14 14:59	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	05/01/14 00:00	05/02/14 12:13	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	05/01/14 00:00	05/02/14 12:13	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	05/01/14 00:00	05/02/14 12:13	77-47-4	
Hexachloroethane	ND ug/L		1000	2	05/01/14 00:00	05/02/14 12:13	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	05/01/14 00:00	05/02/14 12:13	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	7350 ug/L		4000	2	05/01/14 00:00	05/02/14 12:13		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 04-25-14

Pace Project No.: 60167912

Sample: CB 04-25-14		Lab ID: 60167912001	Collected: 04/25/14 07:46	Received: 04/26/14 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	05/01/14 00:00	05/02/14 12:13	91-20-3	
Nitrobenzene	ND ug/L		1000	2	05/01/14 00:00	05/02/14 12:13	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	05/01/14 00:00	05/02/14 12:13	87-86-5	
Phenol	9950 ug/L		1000	2	05/01/14 00:00	05/02/14 12:13	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	05/01/14 00:00	05/02/14 12:13	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	05/01/14 00:00	05/02/14 12:13	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	152 %		33-120	2	05/01/14 00:00	05/02/14 12:13	4165-60-0	S0
2-Fluorobiphenyl (S)	92 %		39-120	2	05/01/14 00:00	05/02/14 12:13	321-60-8	
Terphenyl-d14 (S)	87 %		45-120	2	05/01/14 00:00	05/02/14 12:13	1718-51-0	
Phenol-d6 (S)	43 %		11-120	2	05/01/14 00:00	05/02/14 12:13	13127-88-3	
2-Fluorophenol (S)	49 %		17-120	2	05/01/14 00:00	05/02/14 12:13	367-12-4	
2,4,6-Tribromophenol (S)	107 %		39-120	2	05/01/14 00:00	05/02/14 12:13	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	145000 ug/L		2500	250		04/28/14 18:46	67-64-1	N2
Benzene	ND ug/L		250	250		04/28/14 18:46	71-43-2	
Bromodichloromethane	ND ug/L		250	250		04/28/14 18:46	75-27-4	
Bromoform	ND ug/L		250	250		04/28/14 18:46	75-25-2	
Bromomethane	ND ug/L		1250	250		04/28/14 18:46	74-83-9	
2-Butanone (MEK)	60400 ug/L		2500	250		04/28/14 18:46	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		04/28/14 18:46	56-23-5	
Chloroethane	ND ug/L		250	250		04/28/14 18:46	75-00-3	
Chloroform	ND ug/L		250	250		04/28/14 18:46	67-66-3	
1,4-Dichlorobenzene	386 ug/L		250	250		04/28/14 18:46	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		04/28/14 18:46	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		04/28/14 18:46	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		04/28/14 18:46	156-60-5	
Ethylbenzene	ND ug/L		250	250		04/28/14 18:46	100-41-4	
Methylene chloride	ND ug/L		250	250		04/28/14 18:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		04/28/14 18:46	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		04/28/14 18:46	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		04/28/14 18:46	127-18-4	
Toluene	ND ug/L		250	250		04/28/14 18:46	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		04/28/14 18:46	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		04/28/14 18:46	79-00-5	
Trichloroethene	ND ug/L		250	250		04/28/14 18:46	79-01-6	
Vinyl chloride	ND ug/L		250	250		04/28/14 18:46	75-01-4	
Xylene (Total)	ND ug/L		750	250		04/28/14 18:46	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	103 %		80-120	250		04/28/14 18:46	460-00-4	
Toluene-d8 (S)	101 %		80-120	250		04/28/14 18:46	2037-26-5	
1,2-Dichloroethane-d4 (S)	110 %		80-120	250		04/28/14 18:46	17060-07-0	
Preservation pH	6.0		1.0	250		04/28/14 18:46		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	1190 mg/L		5.0	1		04/30/14 07:12		

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 04-25-14

Pace Project No.: 60167912

Sample: CB 04-25-14		Lab ID: 60167912001	Collected: 04/25/14 07:46	Received: 04/26/14 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	6.9	mg/L	5.0	1		05/01/14 08:28		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	4200	mg/L	5.0	1		04/29/14 10:21		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.2	Std. Units	0.10	1		05/01/14 09:10		H1,H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	29000	mg/L	2.0	1	04/26/14 11:58	05/01/14 14:18		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	554	mg/L	20.0	200		05/01/14 14:55	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	52900	mg/L	5000	500		05/05/14 12:50		M1

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 04-25-14

Pace Project No.: 60167912

Sample: TRIP BLANK		Lab ID: 60167912002	Collected: 04/25/14 08:00	Received: 04/26/14 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		04/30/14 13:51	67-64-1	N2
Benzene	ND ug/L		1.0	1		04/30/14 13:51	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/30/14 13:51	75-27-4	
Bromoform	ND ug/L		1.0	1		04/30/14 13:51	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/30/14 13:51	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/30/14 13:51	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		04/30/14 13:51	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/30/14 13:51	75-00-3	
Chloroform	ND ug/L		1.0	1		04/30/14 13:51	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/30/14 13:51	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/30/14 13:51	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/30/14 13:51	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/30/14 13:51	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/30/14 13:51	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/30/14 13:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/30/14 13:51	108-10-1	N2
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		04/30/14 13:51	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/30/14 13:51	127-18-4	
Toluene	ND ug/L		1.0	1		04/30/14 13:51	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/30/14 13:51	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/30/14 13:51	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/30/14 13:51	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/30/14 13:51	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/30/14 13:51	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	102 %		80-120	1		04/30/14 13:51	460-00-4	
Toluene-d8 (S)	97 %		80-120	1		04/30/14 13:51	2037-26-5	
1,2-Dichloroethane-d4 (S)	94 %		80-120	1		04/30/14 13:51	17060-07-0	
Preservation pH	6.0		1.0	1		04/30/14 13:51		

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-25-14

Pace Project No.: 60167912

QC Batch: MERP/8345

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60167912001

METHOD BLANK: 1368314

Matrix: Water

Associated Lab Samples: 60167912001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/28/14 15:38	

LABORATORY CONTROL SAMPLE: 1368315

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1368318 1368319

Parameter	Units	60167927001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.7	5.0	94	99	70-130	5	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-25-14

Pace Project No.: 60167912

QC Batch: MERP/8352

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60167912001

METHOD BLANK: 1369342

Matrix: Water

Associated Lab Samples: 60167912001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/30/14 14:46	

LABORATORY CONTROL SAMPLE: 1369343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.5	90	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1369344 1369345

Parameter	Units	60167571001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	116	122	77	81	70-130	5	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-25-14

Pace Project No.: 60167912

QC Batch:	MPRP/27047	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
Associated Lab Samples:	60167912001		

METHOD BLANK: 1369346 Matrix: Water

Associated Lab Samples: 60167912001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	05/02/14 09:52	
Antimony	ug/L	ND	10.0	05/02/14 09:52	
Arsenic	ug/L	ND	10.0	05/02/14 09:52	
Beryllium	ug/L	ND	1.0	05/02/14 09:52	
Cadmium	ug/L	ND	5.0	05/02/14 09:52	
Chromium	ug/L	ND	5.0	05/02/14 09:52	
Cobalt	ug/L	ND	5.0	05/02/14 09:52	
Copper	ug/L	ND	10.0	05/02/14 09:52	
Iron	ug/L	ND	50.0	05/02/14 09:52	
Lead	ug/L	ND	5.0	05/02/14 09:52	
Nickel	ug/L	ND	5.0	05/02/14 09:52	
Selenium	ug/L	ND	15.0	05/02/14 09:52	
Silver	ug/L	ND	7.0	05/02/14 09:52	
Thallium	ug/L	ND	20.0	05/02/14 09:52	
Zinc	ug/L	ND	50.0	05/02/14 09:52	

LABORATORY CONTROL SAMPLE: 1369347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9950	99	85-115	
Antimony	ug/L	1000	985	98	85-115	
Arsenic	ug/L	1000	946	95	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	972	97	85-115	
Chromium	ug/L	1000	972	97	85-115	
Cobalt	ug/L	1000	986	99	85-115	
Copper	ug/L	1000	976	98	85-115	
Iron	ug/L	10000	9740	97	85-115	
Lead	ug/L	1000	993	99	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	997	100	85-115	
Silver	ug/L	500	488	98	85-115	
Thallium	ug/L	1000	1010	101	85-115	
Zinc	ug/L	1000	1000	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1369348 1369349

Parameter	Units	60167928001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	720	10000	10000	11600	11600	109	109	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-25-14

Pace Project No.: 60167912

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1369348 1369349											
Parameter	Units	60167928001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Antimony	ug/L	ND	1000	1000	994	992	99	99	70-130	0	7
Arsenic	ug/L	ND	1000	1000	954	948	95	95	70-130	1	10
Beryllium	ug/L	ND	1000	1000	1020	1020	102	102	70-130	0	7
Cadmium	ug/L	ND	1000	1000	977	973	98	97	70-130	0	10
Chromium	ug/L	ND	1000	1000	982	972	98	97	70-130	1	10
Cobalt	ug/L	ND	1000	1000	995	988	99	99	70-130	1	6
Copper	ug/L	ND	1000	1000	997	987	99	98	70-130	1	11
Iron	ug/L	903	10000	10000	10800	10700	99	98	70-130	0	10
Lead	ug/L	ND	1000	1000	999	995	100	99	70-130	0	10
Nickel	ug/L	ND	1000	1000	1020	1020	102	102	70-130	0	10
Selenium	ug/L	ND	1000	1000	992	994	99	99	70-130	0	10
Silver	ug/L	ND	500	500	492	486	98	97	70-130	1	10
Thallium	ug/L	ND	1000	1000	982	999	98	100	70-130	2	6
Zinc	ug/L	ND	1000	1000	1030	1030	100	99	70-130	0	11

MATRIX SPIKE SAMPLE: 1369350							
Parameter	Units	60168064005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	224	10000	10000	98	70-130	
Antimony	ug/L	ND	1000	980	98	70-130	
Arsenic	ug/L	ND	1000	951	95	70-130	
Beryllium	ug/L	ND	1000	1010	101	70-130	
Cadmium	ug/L	ND	1000	969	97	70-130	
Chromium	ug/L	ND	1000	944	94	70-130	
Cobalt	ug/L	ND	1000	971	97	70-130	
Copper	ug/L	54.9	1000	1050	99	70-130	
Iron	ug/L	974	10000	10100	91	70-130	
Lead	ug/L	6.8	1000	975	97	70-130	
Nickel	ug/L	5.3	1000	1000	100	70-130	
Selenium	ug/L	ND	1000	997	100	70-130	
Silver	ug/L	ND	500	481	96	70-130	
Thallium	ug/L	ND	1000	912	91	70-130	
Zinc	ug/L	181	1000	1130	95	70-130	

SAMPLE DUPLICATE: 1369432

Parameter	Units	60168043002 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum	ug/L	ND	ND		20	
Antimony	ug/L	ND	ND		20	
Arsenic	ug/L	ND	18.4J		20	
Beryllium	ug/L	ND	ND		20	
Cadmium	ug/L	ND	ND		20	
Chromium	ug/L	ND	ND		20	
Cobalt	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-25-14

Pace Project No.: 60167912

SAMPLE DUPLICATE: 1369432

Parameter	Units	60168043002 Result	Dup Result	RPD	Max RPD	Qualifiers
Copper	ug/L	ND	6.2J		20	
Iron	ug/L	826	786	5	20	
Lead	ug/L	ND	ND		20	
Nickel	ug/L	ND	ND		20	
Selenium	ug/L	ND	ND		20	
Silver	ug/L	ND	ND		20	
Thallium	ug/L	ND	ND		20	
Zinc	ug/L	ND	99.6J		20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-25-14

Pace Project No.: 60167912

QC Batch:	MPRP/27028	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60167912001		

METHOD BLANK: 1368500 Matrix: Water

Associated Lab Samples: 60167912001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/29/14 19:35	
Antimony, Dissolved	ug/L	ND	10.0	04/29/14 19:35	
Arsenic, Dissolved	ug/L	ND	10.0	04/29/14 19:35	
Beryllium, Dissolved	ug/L	ND	1.0	04/29/14 19:35	
Cadmium, Dissolved	ug/L	ND	5.0	04/29/14 19:35	
Chromium, Dissolved	ug/L	ND	5.0	04/29/14 19:35	
Cobalt, Dissolved	ug/L	ND	5.0	04/29/14 19:35	
Copper, Dissolved	ug/L	ND	10.0	04/29/14 19:35	
Iron, Dissolved	ug/L	ND	50.0	04/29/14 19:35	
Lead, Dissolved	ug/L	ND	5.0	04/29/14 19:35	
Nickel, Dissolved	ug/L	ND	5.0	04/29/14 19:35	
Selenium, Dissolved	ug/L	ND	15.0	04/29/14 19:35	
Silver, Dissolved	ug/L	ND	7.0	04/29/14 19:35	
Thallium, Dissolved	ug/L	ND	20.0	04/29/14 19:35	
Zinc, Dissolved	ug/L	ND	50.0	04/29/14 19:35	

LABORATORY CONTROL SAMPLE: 1368501

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	1010	101	85-115	
Beryllium, Dissolved	ug/L	1000	956	96	85-115	
Cadmium, Dissolved	ug/L	1000	1030	103	85-115	
Chromium, Dissolved	ug/L	1000	989	99	85-115	
Cobalt, Dissolved	ug/L	1000	1060	106	85-115	
Copper, Dissolved	ug/L	1000	984	98	85-115	
Iron, Dissolved	ug/L	10000	9430	94	85-115	
Lead, Dissolved	ug/L	1000	1070	107	85-115	
Nickel, Dissolved	ug/L	1000	1100	110	85-115	
Selenium, Dissolved	ug/L	1000	1060	106	85-115	
Silver, Dissolved	ug/L	500	494	99	85-115	
Thallium, Dissolved	ug/L	1000	1040	104	85-115	
Zinc, Dissolved	ug/L	1000	1080	108	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1368502 1368503

Parameter	Units	60167588001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	ND	10000	10000	9930	10200	99	102	70-130	3	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-25-14

Pace Project No.: 60167912

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1368502 1368503											
Parameter	Units	60167588001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	1000	1000	1050	1070	105	107	70-130	2	7
Arsenic, Dissolved	ug/L	4.8J	1000	1000	1010	1030	101	102	70-130	2	10
Beryllium, Dissolved	ug/L	ND	1000	1000	939	1010	94	101	70-130	7	7
Cadmium, Dissolved	ug/L	ND	1000	1000	1030	1050	103	105	70-130	2	10
Chromium, Dissolved	ug/L	ND	1000	1000	963	984	96	98	70-130	2	10
Cobalt, Dissolved	ug/L	ND	1000	1000	1040	1050	104	105	70-130	2	6
Copper, Dissolved	ug/L	ND	1000	1000	976	992	98	99	70-130	2	11
Iron, Dissolved	ug/L	ND	10000	10000	9020	9800	90	98	70-130	8	10
Lead, Dissolved	ug/L	ND	1000	1000	1050	1070	105	107	70-130	1	10
Nickel, Dissolved	ug/L	ND	1000	1000	1080	1100	108	110	70-130	2	10
Selenium, Dissolved	ug/L	ND	1000	1000	1060	1080	106	108	70-130	2	10
Silver, Dissolved	ug/L	ND	500	500	491	503	98	101	70-130	2	10
Thallium, Dissolved	ug/L	ND	1000	1000	1020	1030	102	103	70-130	2	6
Zinc, Dissolved	ug/L	ND	1000	1000	1060	1080	105	107	70-130	2	11

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-25-14

Pace Project No.: 60167912

QC Batch:	MSV/61180	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60167912001		

METHOD BLANK: 1368344 Matrix: Water

Associated Lab Samples: 60167912001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/28/14 13:16	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/28/14 13:16	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/28/14 13:16	
1,2-Dichloroethane	ug/L	ND	1.0	04/28/14 13:16	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/28/14 13:16	
2-Butanone (MEK)	ug/L	ND	10.0	04/28/14 13:16	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/28/14 13:16	N2
Acetone	ug/L	ND	10.0	04/28/14 13:16	N2
Benzene	ug/L	ND	1.0	04/28/14 13:16	
Bromodichloromethane	ug/L	ND	1.0	04/28/14 13:16	
Bromoform	ug/L	ND	1.0	04/28/14 13:16	
Bromomethane	ug/L	ND	5.0	04/28/14 13:16	
Carbon tetrachloride	ug/L	ND	1.0	04/28/14 13:16	
Chloroethane	ug/L	ND	1.0	04/28/14 13:16	
Chloroform	ug/L	ND	1.0	04/28/14 13:16	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/28/14 13:16	N2
Ethylbenzene	ug/L	ND	1.0	04/28/14 13:16	
Methylene chloride	ug/L	ND	1.0	04/28/14 13:16	
Tetrachloroethene	ug/L	ND	1.0	04/28/14 13:16	
Toluene	ug/L	ND	1.0	04/28/14 13:16	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/28/14 13:16	
Trichloroethene	ug/L	ND	1.0	04/28/14 13:16	
Vinyl chloride	ug/L	ND	1.0	04/28/14 13:16	
Xylene (Total)	ug/L	ND	3.0	04/28/14 13:16	N2
1,2-Dichloroethane-d4 (S)	%	102	80-120	04/28/14 13:16	
4-Bromofluorobenzene (S)	%	103	80-120	04/28/14 13:16	
Toluene-d8 (S)	%	102	80-120	04/28/14 13:16	

LABORATORY CONTROL SAMPLE: 1368345

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.4	97	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.5	97	67-127	N2
1,1,2-Trichloroethane	ug/L	20	18.8	94	67-124	
1,2-Dichloroethane	ug/L	20	19.3	96	70-126	
1,4-Dichlorobenzene	ug/L	20	19.1	96	74-120	
2-Butanone (MEK)	ug/L	100	88.2	88	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	95.0	95	59-131	N2
Acetone	ug/L	100	88.0	88	38-134	N2
Benzene	ug/L	20	18.7	93	75-120	
Bromodichloromethane	ug/L	20	19.4	97	68-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-25-14

Pace Project No.: 60167912

LABORATORY CONTROL SAMPLE: 1368345

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	18.2	91	65-127	
Bromomethane	ug/L	20	25.2	126	13-157	
Carbon tetrachloride	ug/L	20	19.3	97	70-131	
Chloroethane	ug/L	20	20.2	101	47-133	
Chloroform	ug/L	20	19.2	96	65-127	
cis-1,2-Dichloroethene	ug/L	20	19.7	98	68-127	N2
Ethylbenzene	ug/L	20	20.4	102	74-122	
Methylene chloride	ug/L	20	19.4	97	64-129	
Tetrachloroethene	ug/L	20	19.1	95	73-125	
Toluene	ug/L	20	18.9	94	69-126	
trans-1,2-Dichloroethene	ug/L	20	18.6	93	66-129	
Trichloroethene	ug/L	20	18.2	91	71-123	
Vinyl chloride	ug/L	20	21.6	108	43-129	
Xylene (Total)	ug/L	60	62.4	104	75-121	N2
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1368346

Parameter	Units	60167821001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	5070	101	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	4980	100	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	4730	95	52-143	
1,2-Dichloroethane	ug/L	ND	5000	4540	91	49-144	
1,4-Dichlorobenzene	ug/L	316	5000	5170	97	33-140	
2-Butanone (MEK)	ug/L	49200	25000	71900	91	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	25400	97	40-160	N2
Acetone	ug/L	116000	25000	143000	107	10-160	N2
Benzene	ug/L	ND	5000	4810	96	37-151	
Bromodichloromethane	ug/L	ND	5000	4800	96	35-142	
Bromoform	ug/L	ND	5000	4500	90	45-142	
Bromomethane	ug/L	ND	5000	5920	118	10-158	
Carbon tetrachloride	ug/L	ND	5000	5260	105	70-140	
Chloroethane	ug/L	ND	5000	5300	106	19-152	
Chloroform	ug/L	ND	5000	4730	95	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4970	99	34-147	N2
Ethylbenzene	ug/L	ND	5000	5290	106	40-142	
Methylene chloride	ug/L	ND	5000	4800	96	31-144	
Tetrachloroethene	ug/L	ND	5000	5050	101	64-148	
Toluene	ug/L	ND	5000	4880	98	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	4940	99	54-151	
Trichloroethene	ug/L	ND	5000	4730	95	71-149	
Vinyl chloride	ug/L	ND	5000	5710	114	22-146	
Xylene (Total)	ug/L	ND	15000	15900	106	37-144	N2
1,2-Dichloroethane-d4 (S)	%				94	80-120	
4-Bromofluorobenzene (S)	%				102	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-25-14

Pace Project No.: 60167912

MATRIX SPIKE SAMPLE:		1368346					
Parameter	Units	60167821001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%					99	80-120
Preservation pH		6.0		6.0			

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-25-14

Pace Project No.: 60167912

QC Batch:	MSV/61249	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60167912002		

METHOD BLANK: 1369553 Matrix: Water

Associated Lab Samples: 60167912002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/30/14 13:35	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/30/14 13:35	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/30/14 13:35	
1,2-Dichloroethane	ug/L	ND	1.0	04/30/14 13:35	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/30/14 13:35	
2-Butanone (MEK)	ug/L	ND	10.0	04/30/14 13:35	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/30/14 13:35	N2
Acetone	ug/L	ND	10.0	04/30/14 13:35	N2
Benzene	ug/L	ND	1.0	04/30/14 13:35	
Bromodichloromethane	ug/L	ND	1.0	04/30/14 13:35	
Bromoform	ug/L	ND	1.0	04/30/14 13:35	
Bromomethane	ug/L	ND	5.0	04/30/14 13:35	
Carbon tetrachloride	ug/L	ND	1.0	04/30/14 13:35	
Chloroethane	ug/L	ND	1.0	04/30/14 13:35	
Chloroform	ug/L	ND	1.0	04/30/14 13:35	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/30/14 13:35	N2
Ethylbenzene	ug/L	ND	1.0	04/30/14 13:35	
Methylene chloride	ug/L	ND	1.0	04/30/14 13:35	
Tetrachloroethene	ug/L	ND	1.0	04/30/14 13:35	
Toluene	ug/L	ND	1.0	04/30/14 13:35	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/30/14 13:35	
Trichloroethene	ug/L	ND	1.0	04/30/14 13:35	
Vinyl chloride	ug/L	ND	1.0	04/30/14 13:35	
Xylene (Total)	ug/L	ND	3.0	04/30/14 13:35	N2
1,2-Dichloroethane-d4 (S)	%	99	80-120	04/30/14 13:35	
4-Bromofluorobenzene (S)	%	102	80-120	04/30/14 13:35	
Toluene-d8 (S)	%	101	80-120	04/30/14 13:35	

LABORATORY CONTROL SAMPLE: 1369554

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.1	100	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.0	95	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.0	95	67-124	
1,2-Dichloroethane	ug/L	20	20.4	102	70-126	
1,4-Dichlorobenzene	ug/L	20	19.1	95	74-120	
2-Butanone (MEK)	ug/L	100	95.8	96	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	105	105	59-131	N2
Acetone	ug/L	100	93.4	93	38-134	N2
Benzene	ug/L	20	19.2	96	75-120	
Bromodichloromethane	ug/L	20	20.2	101	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-25-14

Pace Project No.: 60167912

LABORATORY CONTROL SAMPLE: 1369554

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	17.7	88	65-127	
Bromomethane	ug/L	20	16.6	83	13-157	
Carbon tetrachloride	ug/L	20	20.1	100	70-131	
Chloroethane	ug/L	20	19.9	99	47-133	
Chloroform	ug/L	20	19.9	99	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.2	101	68-127	N2
Ethylbenzene	ug/L	20	19.8	99	74-122	
Methylene chloride	ug/L	20	20.8	104	64-129	
Tetrachloroethene	ug/L	20	18.2	91	73-125	
Toluene	ug/L	20	19.5	97	69-126	
trans-1,2-Dichloroethene	ug/L	20	19.5	98	66-129	
Trichloroethene	ug/L	20	19.2	96	71-123	
Vinyl chloride	ug/L	20	18.5	92	43-129	
Xylene (Total)	ug/L	60	62.6	104	75-121	N2
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			100	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-25-14

Pace Project No.: 60167912

QC Batch: OEXT/43937

Analysis Method: EPA 625

QC Batch Method: EPA 625

Analysis Description: 625 MSS

Associated Lab Samples: 60167912001

METHOD BLANK: 1369918

Matrix: Water

Associated Lab Samples: 60167912001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/02/14 09:27	
2,4,6-Trichlorophenol	ug/L	ND	5.0	05/02/14 09:27	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	05/02/14 09:27	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	05/02/14 09:27	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	05/02/14 09:27	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/02/14 09:27	
Hexachlorocyclopentadiene	ug/L	ND	5.0	05/02/14 09:27	
Hexachloroethane	ug/L	ND	5.0	05/02/14 09:27	
Naphthalene	ug/L	ND	5.0	05/02/14 09:27	
Nitrobenzene	ug/L	ND	5.0	05/02/14 09:27	
Pentachlorophenol	ug/L	ND	5.0	05/02/14 09:27	
Phenol	ug/L	ND	5.0	05/02/14 09:27	
2,4,6-Tribromophenol (S)	%	113	39-120	05/02/14 09:27	
2-Fluorobiphenyl (S)	%	107	39-120	05/02/14 09:27	
2-Fluorophenol (S)	%	52	17-120	05/02/14 09:27	
Nitrobenzene-d5 (S)	%	96	33-120	05/02/14 09:27	
Phenol-d6 (S)	%	32	11-120	05/02/14 09:27	
Terphenyl-d14 (S)	%	100	45-120	05/02/14 09:27	

LABORATORY CONTROL SAMPLE: 1369919

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	43.2	86	46-120	
2,4,6-Trichlorophenol	ug/L	50	45.7	91	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	33.5	67	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	29.4	59	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	48.9	98	40-133	
Hexachloro-1,3-butadiene	ug/L	50	44.6	89	44-116	
Hexachlorocyclopentadiene	ug/L	100	75.1	75	24-120	
Hexachloroethane	ug/L	50	40.8	82	43-113	
Naphthalene	ug/L	50	43.3	87	48-120	
Nitrobenzene	ug/L	50	42.5	85	48-120	
Pentachlorophenol	ug/L	50	50.3	101	47-120	
Phenol	ug/L	50	15.4	31	16-112	
2,4,6-Tribromophenol (S)	%			101	39-120	
2-Fluorobiphenyl (S)	%			91	39-120	
2-Fluorophenol (S)	%			44	17-120	
Nitrobenzene-d5 (S)	%			85	33-120	
Phenol-d6 (S)	%			27	11-120	
Terphenyl-d14 (S)	%			90	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-25-14

Pace Project No.: 60167912

MATRIX SPIKE SAMPLE:		1369246					
Parameter	Units	60167796001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	4090	82	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4620	92	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	4170	83	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	5000	10300	207	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	3020J	60	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4630	93	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	7930	79	11-120	
Hexachloroethane	ug/L	ND	5000	4450	89	40-113	
Naphthalene	ug/L	ND	5000	5450	109	45-120	
Nitrobenzene	ug/L	ND	5000	4310	86	38-120	
Pentachlorophenol	ug/L	ND	5000	4160	83	43-135	
Phenol	ug/L	ND	5000	11200	225	13-112	
2,4,6-Tribromophenol (S)	%				104	39-120	
2-Fluorobiphenyl (S)	%				91	39-120	
2-Fluorophenol (S)	%				49	17-120	
Nitrobenzene-d5 (S)	%				152	33-120	S0
Phenol-d6 (S)	%				32	11-120	
Terphenyl-d14 (S)	%				88	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-25-14

Pace Project No.: 60167912

QC Batch:	WET/47597	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60167912001		

METHOD BLANK: 1369206 Matrix: Water

Associated Lab Samples: 60167912001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/30/14 07:09	

LABORATORY CONTROL SAMPLE: 1369207

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.7	99	78-114	

MATRIX SPIKE SAMPLE: 1369208

Parameter	Units	60167679002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40.4	41.9	101	78-114	

SAMPLE DUPLICATE: 1369209

Parameter	Units	60167698002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	.93J		18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-25-14

Pace Project No.: 60167912

QC Batch: WET/47625

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60167912001

METHOD BLANK: 1370002

Matrix: Water

Associated Lab Samples: 60167912001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	05/01/14 08:27	

LABORATORY CONTROL SAMPLE: 1370003

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

MATRIX SPIKE SAMPLE: 1370005

Parameter	Units	60167891001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	22	20.1	87	64-132	

SAMPLE DUPLICATE: 1370004

Parameter	Units	60167630002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	9.4	7.7	20	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-25-14

Pace Project No.: 60167912

QC Batch: WET/47580

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60167912001

METHOD BLANK: 1368667

Matrix: Water

Associated Lab Samples: 60167912001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/29/14 10:17	

SAMPLE DUPLICATE: 1368668

Parameter	Units	60167834001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	62.0	64.0	3	10	

SAMPLE DUPLICATE: 1368669

Parameter	Units	60167908001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		10	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-25-14

Pace Project No.: 60167912

QC Batch:	WET/47618	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
Associated Lab Samples:	60167912001		

SAMPLE DUPLICATE: 1369900

Parameter	Units	60167830004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.1	8.1	0	5	H1,H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-25-14

Pace Project No.: 60167912

QC Batch: WET/47532

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60167912001

METHOD BLANK: 1367882

Matrix: Water

Associated Lab Samples: 60167912001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	05/01/14 14:03	

LABORATORY CONTROL SAMPLE: 1367883

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

SAMPLE DUPLICATE: 1367884

Parameter	Units	60167910002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	15.7	18.0	13	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-25-14

Pace Project No.: 60167912

QC Batch:	WETA/29231	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60167912001		

METHOD BLANK: 1370091 Matrix: Water
Associated Lab Samples: 60167912001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	05/01/14 13:23	

LABORATORY CONTROL SAMPLE: 1370092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	99	90-110	

MATRIX SPIKE SAMPLE: 1370093

Parameter	Units	60167787001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.0	97	90-110	

MATRIX SPIKE SAMPLE: 1370094

Parameter	Units	60167814001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.41	2	2.2	88	90-110	M1

SAMPLE DUPLICATE: 1370095

Parameter	Units	60167931001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	28.2	27.7	2	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-25-14

Pace Project No.: 60167912

QC Batch:	WETA/29282	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60167912001		

METHOD BLANK: 1372072 Matrix: Water

Associated Lab Samples: 60167912001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	05/05/14 12:48	

LABORATORY CONTROL SAMPLE: 1372073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	45.3	91	90-110	

MATRIX SPIKE SAMPLE: 1372074

Parameter	Units	60167912001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	52900	25000	74900	88	90-110	M1

SAMPLE DUPLICATE: 1372075

Parameter	Units	60167981001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	53000	53300	1	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF CB 04-25-14
Pace Project No.: 60167912

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/61249

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

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

H1 Analysis conducted outside the EPA method holding time.

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

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

N2 The lab does not hold TNI accreditation for this parameter.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF CB 04-25-14

Pace Project No.: 60167912

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60167912001	CB 04-25-14	EPA 200.7	MPRP/27047	EPA 200.7	ICP/20522
60167912001	CB 04-25-14	EPA 200.7	MPRP/27028	EPA 200.7	ICP/20508
60167912001	CB 04-25-14	EPA 245.1	MERP/8345	EPA 245.1	MERC/8300
60167912001	CB 04-25-14	EPA 245.1	MERP/8352	EPA 245.1	MERC/8304
60167912001	CB 04-25-14	EPA 625	OEXT/43937	EPA 625	MSSV/14038
60167912001	CB 04-25-14	EPA 624 Low	MSV/61180		
60167912002	TRIP BLANK	EPA 624 Low	MSV/61249		
60167912001	CB 04-25-14	EPA 1664A	WET/47597		
60167912001	CB 04-25-14	EPA 1664A	WET/47625		
60167912001	CB 04-25-14	SM 2540D	WET/47580		
60167912001	CB 04-25-14	SM 4500-H+B	WET/47618		
60167912001	CB 04-25-14	SM 5210B	WET/47532	SM 5210B	WET/47631
60167912001	CB 04-25-14	EPA 350.1	WETA/29231		
60167912001	CB 04-25-14	EPA 410.4	WETA/29282		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60167912



60167912

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 ☒ 2p/c

Thermometer Used: T-239 / T-194

Type of Ice: Wet Blue ☐ None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 3.6

Date and initials of person examining contents: pu 26/14

Temperature should be above freezing to 6°C

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☒ Yes ☐ No ☐ N/A	6. <u>BOD PH</u>
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	9. <u>Det Sodium Thiosulfate preserved units received for VOCs.</u>
Pace containers used:	☒ Yes ☐ No ☐ N/A	10.
Containers intact:	☒ Yes ☐ No ☐ N/A	11.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	12.
Filtered volume received for dissolved tests?	☐ Yes ☐ No ☒ N/A	13.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	14.
Includes date/time/ID/analyses Matrix:	<u>WT</u>	15. <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 6.0/3.0</u>
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	16. <u>Initial when completed pu</u> Lot # of added preservative <u>12513</u> <u>12522</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	☒ Yes ☒ No ☐ N/A	17. <u>me</u>
Exceptions: <u>VOA</u> coliform, TOC <u>O&G</u> , WI-DRO (water), Phenolics	☒ Yes ☐ No	
Trip Blank present:	☒ Yes ☐ No ☐ N/A	
Pace Trip Blank lot # (if purchased): <u>Cover</u>		
Headspace in VOA vials (>6mm):	☐ Yes ☒ No ☐ N/A	
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ 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: mwo for AXB

Date: 4/28/14

May 05, 2014

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

RE: Project: BRIDGETON LANDFILL CB 4-26-14
Pace Project No.: 60167978

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 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: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LANDFILL CB 4-26-14

Pace Project No.: 60167978

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 LANDFILL CB 4-26-14

Pace Project No.: 60167978

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60167978001	CB 4/26/14	Water	04/26/14 14:10	04/28/14 13:30
60167978002	TRIP BLANK	Water	04/26/14 14:10	04/28/14 13:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LANDFILL CB 4-26-14

Pace Project No.: 60167978

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60167978001	CB 4/26/14	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	NDL	1
		SM 5210B	JML	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
		EPA 624 Low	EAK	28
60167978002	TRIP BLANK			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LANDFILL CB 4-26-14

Pace Project No.: 60167978

Sample: CB 4/26/14		Lab ID: 60167978001	Collected: 04/26/14 14:10	Received: 04/28/14 13:30	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	7980	ug/L	750	2	04/30/14 09:30	05/02/14 11:20	7429-90-5	D3
Antimony	ND	ug/L	100	2	04/30/14 09:30	05/02/14 11:20	7440-36-0	
Arsenic	992	ug/L	50.0	1	04/30/14 09:30	05/02/14 11:17	7440-38-2	
Beryllium	ND	ug/L	5.0	1	04/30/14 09:30	05/02/14 11:17	7440-41-7	
Cadmium	ND	ug/L	25.0	1	04/30/14 09:30	05/02/14 11:17	7440-43-9	
Chromium	250	ug/L	25.0	1	04/30/14 09:30	05/02/14 11:17	7440-47-3	
Cobalt	42.3	ug/L	25.0	1	04/30/14 09:30	05/02/14 11:17	7440-48-4	
Copper	ND	ug/L	50.0	1	04/30/14 09:30	05/02/14 11:17	7440-50-8	
Iron	772000	ug/L	250	1	04/30/14 09:30	05/02/14 11:17	7439-89-6	
Lead	104	ug/L	25.0	1	04/30/14 09:30	05/02/14 11:17	7439-92-1	
Nickel	129	ug/L	25.0	1	04/30/14 09:30	05/02/14 11:17	7440-02-0	
Selenium	ND	ug/L	75.0	1	04/30/14 09:30	05/02/14 11:17	7782-49-2	
Silver	ND	ug/L	35.0	1	04/30/14 09:30	05/02/14 11:17	7440-22-4	
Thallium	ND	ug/L	100	1	04/30/14 09:30	05/02/14 11:17	7440-28-0	
Zinc	6020	ug/L	500	2	04/30/14 09:30	05/02/14 11:20	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1200	ug/L	750	2	04/28/14 16:45	04/29/14 20:41	7429-90-5	D3
Antimony, Dissolved	ND	ug/L	100	2	04/28/14 16:45	04/29/14 20:41	7440-36-0	
Arsenic, Dissolved	818	ug/L	50.0	1	04/28/14 16:45	04/29/14 20:38	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	04/28/14 16:45	04/30/14 12:07	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	04/28/14 16:45	04/29/14 20:38	7440-43-9	
Chromium, Dissolved	162	ug/L	25.0	1	04/28/14 16:45	04/29/14 20:38	7440-47-3	
Cobalt, Dissolved	26.9	ug/L	25.0	1	04/28/14 16:45	04/29/14 20:38	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	04/28/14 16:45	04/29/14 20:38	7440-50-8	
Iron, Dissolved	343000	ug/L	250	1	04/28/14 16:45	04/30/14 12:07	7439-89-6	
Lead, Dissolved	34.1	ug/L	25.0	1	04/28/14 16:45	04/29/14 20:38	7439-92-1	
Nickel, Dissolved	94.2	ug/L	25.0	1	04/28/14 16:45	04/29/14 20:38	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	04/28/14 16:45	04/29/14 20:38	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	04/28/14 16:45	04/29/14 20:38	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	04/28/14 16:45	04/29/14 20:38	7440-28-0	
Zinc, Dissolved	5540	ug/L	500	2	04/28/14 16:45	04/29/14 20:41	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	19.0	ug/L	6.0	1	04/30/14 11:00	04/30/14 15:26	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND	ug/L	6.0	1	04/30/14 11:00	04/30/14 15:01	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	05/01/14 00:00	05/02/14 12:34	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	05/01/14 00:00	05/02/14 12:34	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	05/01/14 00:00	05/02/14 12:34	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	05/01/14 00:00	05/02/14 12:34	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	2	05/01/14 00:00	05/02/14 12:34	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	7040	ug/L	4000	2	05/01/14 00:00	05/02/14 12:34		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LANDFILL CB 4-26-14

Pace Project No.: 60167978

Sample: CB 4/26/14		Lab ID: 60167978001	Collected: 04/26/14 14:10	Received: 04/28/14 13:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	1080 ug/L		1000	2	05/01/14 00:00	05/02/14 12:34	91-20-3	
Nitrobenzene	ND ug/L		1000	2	05/01/14 00:00	05/02/14 12:34	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	05/01/14 00:00	05/02/14 12:34	87-86-5	
Phenol	9450 ug/L		1000	2	05/01/14 00:00	05/02/14 12:34	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	05/01/14 00:00	05/02/14 12:34	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	05/01/14 00:00	05/02/14 12:34	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	155 %		33-120	2	05/01/14 00:00	05/02/14 12:34	4165-60-0	S0
2-Fluorobiphenyl (S)	99 %		39-120	2	05/01/14 00:00	05/02/14 12:34	321-60-8	
Terphenyl-d14 (S)	90 %		45-120	2	05/01/14 00:00	05/02/14 12:34	1718-51-0	
Phenol-d6 (S)	41 %		11-120	2	05/01/14 00:00	05/02/14 12:34	13127-88-3	
2-Fluorophenol (S)	51 %		17-120	2	05/01/14 00:00	05/02/14 12:34	367-12-4	
2,4,6-Tribromophenol (S)	116 %		39-120	2	05/01/14 00:00	05/02/14 12:34	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	221000 ug/L		2500	250		05/01/14 13:58	67-64-1	N2
Benzene	ND ug/L		250	250		05/01/14 13:58	71-43-2	
Bromodichloromethane	ND ug/L		250	250		05/01/14 13:58	75-27-4	
Bromoform	ND ug/L		250	250		05/01/14 13:58	75-25-2	
Bromomethane	ND ug/L		1250	250		05/01/14 13:58	74-83-9	
2-Butanone (MEK)	89900 ug/L		2500	250		05/01/14 13:58	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		05/01/14 13:58	56-23-5	
Chloroethane	ND ug/L		250	250		05/01/14 13:58	75-00-3	
Chloroform	ND ug/L		250	250		05/01/14 13:58	67-66-3	
1,4-Dichlorobenzene	379 ug/L		250	250		05/01/14 13:58	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		05/01/14 13:58	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		05/01/14 13:58	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		05/01/14 13:58	156-60-5	
Ethylbenzene	ND ug/L		250	250		05/01/14 13:58	100-41-4	
Methylene chloride	ND ug/L		250	250		05/01/14 13:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		05/01/14 13:58	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		05/01/14 13:58	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		05/01/14 13:58	127-18-4	
Toluene	ND ug/L		250	250		05/01/14 13:58	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		05/01/14 13:58	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		05/01/14 13:58	79-00-5	
Trichloroethene	ND ug/L		250	250		05/01/14 13:58	79-01-6	
Vinyl chloride	ND ug/L		250	250		05/01/14 13:58	75-01-4	
Xylene (Total)	ND ug/L		750	250		05/01/14 13:58	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	98 %		80-120	250		05/01/14 13:58	460-00-4	
Toluene-d8 (S)	98 %		80-120	250		05/01/14 13:58	2037-26-5	
1,2-Dichloroethane-d4 (S)	97 %		80-120	250		05/01/14 13:58	17060-07-0	
Preservation pH	6.0		1.0	250		05/01/14 13:58		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	874 mg/L		5.0	1		04/30/14 07:13		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LANDFILL CB 4-26-14

Pace Project No.: 60167978

Sample: CB 4/26/14		Lab ID: 60167978001	Collected: 04/26/14 14:10	Received: 04/28/14 13:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	8.0	mg/L	5.0	1		05/01/14 08:28		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	5060	mg/L	5.0	1		04/29/14 10:21		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.3	Std. Units	0.10	1		05/01/14 09:10		H3,H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	22000	mg/L	200	100	04/28/14 17:11	05/03/14 08:36		H2
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	603	mg/L	20.0	200		05/01/14 15:01	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	53000	mg/L	5000	500		05/05/14 12:51		

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ANALYTICAL RESULTS

Project: BRIDGETON LANDFILL CB 4-26-14

Pace Project No.: 60167978

Sample: TRIP BLANK		Lab ID: 60167978002	Collected: 04/26/14 14:10	Received: 04/28/14 13:30	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		04/30/14 14:06	67-64-1	N2
Benzene	ND ug/L		1.0	1		04/30/14 14:06	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/30/14 14:06	75-27-4	
Bromoform	ND ug/L		1.0	1		04/30/14 14:06	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/30/14 14:06	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/30/14 14:06	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		04/30/14 14:06	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/30/14 14:06	75-00-3	
Chloroform	ND ug/L		1.0	1		04/30/14 14:06	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/30/14 14:06	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/30/14 14:06	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/30/14 14:06	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/30/14 14:06	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/30/14 14:06	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/30/14 14:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/30/14 14:06	108-10-1	N2
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		04/30/14 14:06	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/30/14 14:06	127-18-4	
Toluene	ND ug/L		1.0	1		04/30/14 14:06	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/30/14 14:06	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/30/14 14:06	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/30/14 14:06	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/30/14 14:06	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/30/14 14:06	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	1		04/30/14 14:06	460-00-4	
Toluene-d8 (S)	100 %		80-120	1		04/30/14 14:06	2037-26-5	
1,2-Dichloroethane-d4 (S)	96 %		80-120	1		04/30/14 14:06	17060-07-0	
Preservation pH	6.0		1.0	1		04/30/14 14:06		

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-26-14

Pace Project No.: 60167978

QC Batch: MERP/8353

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60167978001

METHOD BLANK: 1369351

Matrix: Water

Associated Lab Samples: 60167978001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/30/14 15:21	

LABORATORY CONTROL SAMPLE: 1369352

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1369353 1369354

Parameter	Units	60167978001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	19.0	150	150	132	127	75	72	70-130	4	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-26-14

Pace Project No.: 60167978

QC Batch: MERP/8352

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60167978001

METHOD BLANK: 1369342

Matrix: Water

Associated Lab Samples: 60167978001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/30/14 14:46	

LABORATORY CONTROL SAMPLE: 1369343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.5	90	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1369344 1369345

Parameter	Units	60167571001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	116	122	77	81	70-130	5	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-26-14
Pace Project No.: 60167978

QC Batch:	MPRP/27047	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
Associated Lab Samples:	60167978001		

METHOD BLANK: 1369346 Matrix: Water
Associated Lab Samples: 60167978001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	05/02/14 09:52	
Antimony	ug/L	ND	10.0	05/02/14 09:52	
Arsenic	ug/L	ND	10.0	05/02/14 09:52	
Beryllium	ug/L	ND	1.0	05/02/14 09:52	
Cadmium	ug/L	ND	5.0	05/02/14 09:52	
Chromium	ug/L	ND	5.0	05/02/14 09:52	
Cobalt	ug/L	ND	5.0	05/02/14 09:52	
Copper	ug/L	ND	10.0	05/02/14 09:52	
Iron	ug/L	ND	50.0	05/02/14 09:52	
Lead	ug/L	ND	5.0	05/02/14 09:52	
Nickel	ug/L	ND	5.0	05/02/14 09:52	
Selenium	ug/L	ND	15.0	05/02/14 09:52	
Silver	ug/L	ND	7.0	05/02/14 09:52	
Thallium	ug/L	ND	20.0	05/02/14 09:52	
Zinc	ug/L	ND	50.0	05/02/14 09:52	

LABORATORY CONTROL SAMPLE: 1369347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9950	99	85-115	
Antimony	ug/L	1000	985	98	85-115	
Arsenic	ug/L	1000	946	95	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	972	97	85-115	
Chromium	ug/L	1000	972	97	85-115	
Cobalt	ug/L	1000	986	99	85-115	
Copper	ug/L	1000	976	98	85-115	
Iron	ug/L	10000	9740	97	85-115	
Lead	ug/L	1000	993	99	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	997	100	85-115	
Silver	ug/L	500	488	98	85-115	
Thallium	ug/L	1000	1010	101	85-115	
Zinc	ug/L	1000	1000	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1369348 1369349

Parameter	Units	60167928001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	720	10000	10000	11600	11600	109	109	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-26-14

Pace Project No.: 60167978

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1369348 1369349											
Parameter	Units	60167928001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Antimony	ug/L	ND	1000	1000	994	992	99	99	70-130	0	7
Arsenic	ug/L	ND	1000	1000	954	948	95	95	70-130	1	10
Beryllium	ug/L	ND	1000	1000	1020	1020	102	102	70-130	0	7
Cadmium	ug/L	ND	1000	1000	977	973	98	97	70-130	0	10
Chromium	ug/L	ND	1000	1000	982	972	98	97	70-130	1	10
Cobalt	ug/L	ND	1000	1000	995	988	99	99	70-130	1	6
Copper	ug/L	ND	1000	1000	997	987	99	98	70-130	1	11
Iron	ug/L	903	10000	10000	10800	10700	99	98	70-130	0	10
Lead	ug/L	ND	1000	1000	999	995	100	99	70-130	0	10
Nickel	ug/L	ND	1000	1000	1020	1020	102	102	70-130	0	10
Selenium	ug/L	ND	1000	1000	992	994	99	99	70-130	0	10
Silver	ug/L	ND	500	500	492	486	98	97	70-130	1	10
Thallium	ug/L	ND	1000	1000	982	999	98	100	70-130	2	6
Zinc	ug/L	ND	1000	1000	1030	1030	100	99	70-130	0	11

MATRIX SPIKE SAMPLE: 1369350							
Parameter	Units	60168064005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	224	10000	10000	98	70-130	
Antimony	ug/L	ND	1000	980	98	70-130	
Arsenic	ug/L	ND	1000	951	95	70-130	
Beryllium	ug/L	ND	1000	1010	101	70-130	
Cadmium	ug/L	ND	1000	969	97	70-130	
Chromium	ug/L	ND	1000	944	94	70-130	
Cobalt	ug/L	ND	1000	971	97	70-130	
Copper	ug/L	54.9	1000	1050	99	70-130	
Iron	ug/L	974	10000	10100	91	70-130	
Lead	ug/L	6.8	1000	975	97	70-130	
Nickel	ug/L	5.3	1000	1000	100	70-130	
Selenium	ug/L	ND	1000	997	100	70-130	
Silver	ug/L	ND	500	481	96	70-130	
Thallium	ug/L	ND	1000	912	91	70-130	
Zinc	ug/L	181	1000	1130	95	70-130	

SAMPLE DUPLICATE: 1369432

Parameter	Units	60168043002 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum	ug/L	ND	ND		20	
Antimony	ug/L	ND	ND		20	
Arsenic	ug/L	ND	18.4J		20	
Beryllium	ug/L	ND	ND		20	
Cadmium	ug/L	ND	ND		20	
Chromium	ug/L	ND	ND		20	
Cobalt	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-26-14

Pace Project No.: 60167978

SAMPLE DUPLICATE: 1369432

Parameter	Units	60168043002 Result	Dup Result	RPD	Max RPD	Qualifiers
Copper	ug/L	ND	6.2J		20	
Iron	ug/L	826	786	5	20	
Lead	ug/L	ND	ND		20	
Nickel	ug/L	ND	ND		20	
Selenium	ug/L	ND	ND		20	
Silver	ug/L	ND	ND		20	
Thallium	ug/L	ND	ND		20	
Zinc	ug/L	ND	99.6J		20	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-26-14
Pace Project No.: 60167978

QC Batch:	MPRP/27028	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60167978001		

METHOD BLANK: 1368500 Matrix: Water
Associated Lab Samples: 60167978001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	04/29/14 19:35	
Antimony, Dissolved	ug/L	ND	10.0	04/29/14 19:35	
Arsenic, Dissolved	ug/L	ND	10.0	04/29/14 19:35	
Beryllium, Dissolved	ug/L	ND	1.0	04/29/14 19:35	
Cadmium, Dissolved	ug/L	ND	5.0	04/29/14 19:35	
Chromium, Dissolved	ug/L	ND	5.0	04/29/14 19:35	
Cobalt, Dissolved	ug/L	ND	5.0	04/29/14 19:35	
Copper, Dissolved	ug/L	ND	10.0	04/29/14 19:35	
Iron, Dissolved	ug/L	ND	50.0	04/29/14 19:35	
Lead, Dissolved	ug/L	ND	5.0	04/29/14 19:35	
Nickel, Dissolved	ug/L	ND	5.0	04/29/14 19:35	
Selenium, Dissolved	ug/L	ND	15.0	04/29/14 19:35	
Silver, Dissolved	ug/L	ND	7.0	04/29/14 19:35	
Thallium, Dissolved	ug/L	ND	20.0	04/29/14 19:35	
Zinc, Dissolved	ug/L	ND	50.0	04/29/14 19:35	

LABORATORY CONTROL SAMPLE: 1368501

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	1010	101	85-115	
Beryllium, Dissolved	ug/L	1000	956	96	85-115	
Cadmium, Dissolved	ug/L	1000	1030	103	85-115	
Chromium, Dissolved	ug/L	1000	989	99	85-115	
Cobalt, Dissolved	ug/L	1000	1060	106	85-115	
Copper, Dissolved	ug/L	1000	984	98	85-115	
Iron, Dissolved	ug/L	10000	9430	94	85-115	
Lead, Dissolved	ug/L	1000	1070	107	85-115	
Nickel, Dissolved	ug/L	1000	1100	110	85-115	
Selenium, Dissolved	ug/L	1000	1060	106	85-115	
Silver, Dissolved	ug/L	500	494	99	85-115	
Thallium, Dissolved	ug/L	1000	1040	104	85-115	
Zinc, Dissolved	ug/L	1000	1080	108	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1368502 1368503

Parameter	Units	60167588001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	ND	10000	10000	9930	10200	99	102	70-130	3	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-26-14

Pace Project No.: 60167978

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1368502 1368503											
Parameter	Units	60167588001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	1000	1000	1050	1070	105	107	70-130	2	7
Arsenic, Dissolved	ug/L	4.8J	1000	1000	1010	1030	101	102	70-130	2	10
Beryllium, Dissolved	ug/L	ND	1000	1000	939	1010	94	101	70-130	7	7
Cadmium, Dissolved	ug/L	ND	1000	1000	1030	1050	103	105	70-130	2	10
Chromium, Dissolved	ug/L	ND	1000	1000	963	984	96	98	70-130	2	10
Cobalt, Dissolved	ug/L	ND	1000	1000	1040	1050	104	105	70-130	2	6
Copper, Dissolved	ug/L	ND	1000	1000	976	992	98	99	70-130	2	11
Iron, Dissolved	ug/L	ND	10000	10000	9020	9800	90	98	70-130	8	10
Lead, Dissolved	ug/L	ND	1000	1000	1050	1070	105	107	70-130	1	10
Nickel, Dissolved	ug/L	ND	1000	1000	1080	1100	108	110	70-130	2	10
Selenium, Dissolved	ug/L	ND	1000	1000	1060	1080	106	108	70-130	2	10
Silver, Dissolved	ug/L	ND	500	500	491	503	98	101	70-130	2	10
Thallium, Dissolved	ug/L	ND	1000	1000	1020	1030	102	103	70-130	2	6
Zinc, Dissolved	ug/L	ND	1000	1000	1060	1080	105	107	70-130	2	11

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-26-14

Pace Project No.: 60167978

QC Batch:	MSV/61249	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60167978002		

METHOD BLANK: 1369553 Matrix: Water

Associated Lab Samples: 60167978002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/30/14 13:35	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/30/14 13:35	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/30/14 13:35	
1,2-Dichloroethane	ug/L	ND	1.0	04/30/14 13:35	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/30/14 13:35	
2-Butanone (MEK)	ug/L	ND	10.0	04/30/14 13:35	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/30/14 13:35	N2
Acetone	ug/L	ND	10.0	04/30/14 13:35	N2
Benzene	ug/L	ND	1.0	04/30/14 13:35	
Bromodichloromethane	ug/L	ND	1.0	04/30/14 13:35	
Bromoform	ug/L	ND	1.0	04/30/14 13:35	
Bromomethane	ug/L	ND	5.0	04/30/14 13:35	
Carbon tetrachloride	ug/L	ND	1.0	04/30/14 13:35	
Chloroethane	ug/L	ND	1.0	04/30/14 13:35	
Chloroform	ug/L	ND	1.0	04/30/14 13:35	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/30/14 13:35	N2
Ethylbenzene	ug/L	ND	1.0	04/30/14 13:35	
Methylene chloride	ug/L	ND	1.0	04/30/14 13:35	
Tetrachloroethene	ug/L	ND	1.0	04/30/14 13:35	
Toluene	ug/L	ND	1.0	04/30/14 13:35	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/30/14 13:35	
Trichloroethene	ug/L	ND	1.0	04/30/14 13:35	
Vinyl chloride	ug/L	ND	1.0	04/30/14 13:35	
Xylene (Total)	ug/L	ND	3.0	04/30/14 13:35	N2
1,2-Dichloroethane-d4 (S)	%	99	80-120	04/30/14 13:35	
4-Bromofluorobenzene (S)	%	102	80-120	04/30/14 13:35	
Toluene-d8 (S)	%	101	80-120	04/30/14 13:35	

LABORATORY CONTROL SAMPLE: 1369554

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.1	100	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.0	95	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.0	95	67-124	
1,2-Dichloroethane	ug/L	20	20.4	102	70-126	
1,4-Dichlorobenzene	ug/L	20	19.1	95	74-120	
2-Butanone (MEK)	ug/L	100	95.8	96	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	105	105	59-131	N2
Acetone	ug/L	100	93.4	93	38-134	N2
Benzene	ug/L	20	19.2	96	75-120	
Bromodichloromethane	ug/L	20	20.2	101	68-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-26-14

Pace Project No.: 60167978

LABORATORY CONTROL SAMPLE: 1369554

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	17.7	88	65-127	
Bromomethane	ug/L	20	16.6	83	13-157	
Carbon tetrachloride	ug/L	20	20.1	100	70-131	
Chloroethane	ug/L	20	19.9	99	47-133	
Chloroform	ug/L	20	19.9	99	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.2	101	68-127	N2
Ethylbenzene	ug/L	20	19.8	99	74-122	
Methylene chloride	ug/L	20	20.8	104	64-129	
Tetrachloroethene	ug/L	20	18.2	91	73-125	
Toluene	ug/L	20	19.5	97	69-126	
trans-1,2-Dichloroethene	ug/L	20	19.5	98	66-129	
Trichloroethene	ug/L	20	19.2	96	71-123	
Vinyl chloride	ug/L	20	18.5	92	43-129	
Xylene (Total)	ug/L	60	62.6	104	75-121	N2
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			100	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-26-14

Pace Project No.: 60167978

QC Batch:	MSV/61294	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60167978001		

METHOD BLANK: 1370244 Matrix: Water

Associated Lab Samples: 60167978001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	05/01/14 13:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/01/14 13:27	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	05/01/14 13:27	
1,2-Dichloroethane	ug/L	ND	1.0	05/01/14 13:27	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/01/14 13:27	
2-Butanone (MEK)	ug/L	ND	10.0	05/01/14 13:27	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	05/01/14 13:27	N2
Acetone	ug/L	ND	10.0	05/01/14 13:27	N2
Benzene	ug/L	ND	1.0	05/01/14 13:27	
Bromodichloromethane	ug/L	ND	1.0	05/01/14 13:27	
Bromoform	ug/L	ND	1.0	05/01/14 13:27	
Bromomethane	ug/L	ND	5.0	05/01/14 13:27	
Carbon tetrachloride	ug/L	ND	1.0	05/01/14 13:27	
Chloroethane	ug/L	ND	1.0	05/01/14 13:27	
Chloroform	ug/L	ND	1.0	05/01/14 13:27	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/01/14 13:27	N2
Ethylbenzene	ug/L	ND	1.0	05/01/14 13:27	
Methylene chloride	ug/L	ND	1.0	05/01/14 13:27	
Tetrachloroethene	ug/L	ND	1.0	05/01/14 13:27	
Toluene	ug/L	ND	1.0	05/01/14 13:27	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/01/14 13:27	
Trichloroethene	ug/L	ND	1.0	05/01/14 13:27	
Vinyl chloride	ug/L	ND	1.0	05/01/14 13:27	
Xylene (Total)	ug/L	ND	3.0	05/01/14 13:27	N2
1,2-Dichloroethane-d4 (S)	%	98	80-120	05/01/14 13:27	
4-Bromofluorobenzene (S)	%	100	80-120	05/01/14 13:27	
Toluene-d8 (S)	%	100	80-120	05/01/14 13:27	

LABORATORY CONTROL SAMPLE: 1370245

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.3	92	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.8	99	67-124	
1,2-Dichloroethane	ug/L	20	18.5	92	70-126	
1,4-Dichlorobenzene	ug/L	20	18.6	93	74-120	
2-Butanone (MEK)	ug/L	100	90.8	91	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	100	100	59-131	N2
Acetone	ug/L	100	84.8	85	38-134	N2
Benzene	ug/L	20	17.4	87	75-120	
Bromodichloromethane	ug/L	20	19.3	97	68-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-26-14

Pace Project No.: 60167978

LABORATORY CONTROL SAMPLE: 1370245

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	18.2	91	65-127	
Bromomethane	ug/L	20	10.9	54	13-157	
Carbon tetrachloride	ug/L	20	17.1	86	70-131	
Chloroethane	ug/L	20	15.9	79	47-133	
Chloroform	ug/L	20	18.8	94	65-127	
cis-1,2-Dichloroethene	ug/L	20	18.9	95	68-127	N2
Ethylbenzene	ug/L	20	20.0	100	74-122	
Methylene chloride	ug/L	20	17.8	89	64-129	
Tetrachloroethene	ug/L	20	17.3	87	73-125	
Toluene	ug/L	20	17.9	89	69-126	
trans-1,2-Dichloroethene	ug/L	20	16.5	82	66-129	
Trichloroethene	ug/L	20	17.7	89	71-123	
Vinyl chloride	ug/L	20	14.7	73	43-129	
Xylene (Total)	ug/L	60	59.9	100	75-121	N2
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE SAMPLE: 1370246

Parameter	Units	60167978001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	4020	80	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	4080	82	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	3830	77	52-143	
1,2-Dichloroethane	ug/L	ND	5000	3880	78	49-144	
1,4-Dichlorobenzene	ug/L	379	5000	4360	80	33-140	
2-Butanone (MEK)	ug/L	89900	25000	101000	44	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	20100	76	40-160	N2
Acetone	ug/L	221000	25000	226000	18	10-160	N2
Benzene	ug/L	ND	5000	3650	72	37-151	
Bromodichloromethane	ug/L	ND	5000	4090	82	35-142	
Bromoform	ug/L	ND	5000	3610	72	45-142	
Bromomethane	ug/L	ND	5000	2120	42	10-158	
Carbon tetrachloride	ug/L	ND	5000	3890	78	70-140	
Chloroethane	ug/L	ND	5000	3660	73	19-152	
Chloroform	ug/L	ND	5000	3940	79	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4020	80	34-147	N2
Ethylbenzene	ug/L	ND	5000	3920	78	40-142	
Methylene chloride	ug/L	ND	5000	3850	76	31-144	
Tetrachloroethene	ug/L	ND	5000	3760	75	64-148	
Toluene	ug/L	ND	5000	3770	75	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	3540	71	54-151	
Trichloroethene	ug/L	ND	5000	3670	73	71-149	
Vinyl chloride	ug/L	ND	5000	3490	70	22-146	
Xylene (Total)	ug/L	ND	15000	12100	81	37-144	N2
1,2-Dichloroethane-d4 (S)	%				96	80-120	
4-Bromofluorobenzene (S)	%				104	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-26-14

Pace Project No.: 60167978

MATRIX SPIKE SAMPLE:		1370246					
Parameter	Units	60167978001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				100	80-120	
Preservation pH		6.0		6.0			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-26-14

Pace Project No.: 60167978

QC Batch: OEXT/43937

Analysis Method: EPA 625

QC Batch Method: EPA 625

Analysis Description: 625 MSS

Associated Lab Samples: 60167978001

METHOD BLANK: 1369918

Matrix: Water

Associated Lab Samples: 60167978001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/02/14 09:27	
2,4,6-Trichlorophenol	ug/L	ND	5.0	05/02/14 09:27	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	05/02/14 09:27	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	05/02/14 09:27	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	05/02/14 09:27	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/02/14 09:27	
Hexachlorocyclopentadiene	ug/L	ND	5.0	05/02/14 09:27	
Hexachloroethane	ug/L	ND	5.0	05/02/14 09:27	
Naphthalene	ug/L	ND	5.0	05/02/14 09:27	
Nitrobenzene	ug/L	ND	5.0	05/02/14 09:27	
Pentachlorophenol	ug/L	ND	5.0	05/02/14 09:27	
Phenol	ug/L	ND	5.0	05/02/14 09:27	
2,4,6-Tribromophenol (S)	%	113	39-120	05/02/14 09:27	
2-Fluorobiphenyl (S)	%	107	39-120	05/02/14 09:27	
2-Fluorophenol (S)	%	52	17-120	05/02/14 09:27	
Nitrobenzene-d5 (S)	%	96	33-120	05/02/14 09:27	
Phenol-d6 (S)	%	32	11-120	05/02/14 09:27	
Terphenyl-d14 (S)	%	100	45-120	05/02/14 09:27	

LABORATORY CONTROL SAMPLE: 1369919

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	43.2	86	46-120	
2,4,6-Trichlorophenol	ug/L	50	45.7	91	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	33.5	67	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	29.4	59	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	48.9	98	40-133	
Hexachloro-1,3-butadiene	ug/L	50	44.6	89	44-116	
Hexachlorocyclopentadiene	ug/L	100	75.1	75	24-120	
Hexachloroethane	ug/L	50	40.8	82	43-113	
Naphthalene	ug/L	50	43.3	87	48-120	
Nitrobenzene	ug/L	50	42.5	85	48-120	
Pentachlorophenol	ug/L	50	50.3	101	47-120	
Phenol	ug/L	50	15.4	31	16-112	
2,4,6-Tribromophenol (S)	%			101	39-120	
2-Fluorobiphenyl (S)	%			91	39-120	
2-Fluorophenol (S)	%			44	17-120	
Nitrobenzene-d5 (S)	%			85	33-120	
Phenol-d6 (S)	%			27	11-120	
Terphenyl-d14 (S)	%			90	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-26-14

Pace Project No.: 60167978

MATRIX SPIKE SAMPLE:		1369246					
Parameter	Units	60167796001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	4090	82	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4620	92	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	4170	83	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	5000	10300	207	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	3020J	60	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4630	93	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	7930	79	11-120	
Hexachloroethane	ug/L	ND	5000	4450	89	40-113	
Naphthalene	ug/L	ND	5000	5450	109	45-120	
Nitrobenzene	ug/L	ND	5000	4310	86	38-120	
Pentachlorophenol	ug/L	ND	5000	4160	83	43-135	
Phenol	ug/L	ND	5000	11200	225	13-112	
2,4,6-Tribromophenol (S)	%				104	39-120	
2-Fluorobiphenyl (S)	%				91	39-120	
2-Fluorophenol (S)	%				49	17-120	
Nitrobenzene-d5 (S)	%				152	33-120	SO
Phenol-d6 (S)	%				32	11-120	
Terphenyl-d14 (S)	%				88	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-26-14

Pace Project No.: 60167978

QC Batch: WET/47597

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60167978001

METHOD BLANK: 1369206

Matrix: Water

Associated Lab Samples: 60167978001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/30/14 07:09	

LABORATORY CONTROL SAMPLE: 1369207

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.7	99	78-114	

MATRIX SPIKE SAMPLE: 1369208

Parameter	Units	60167679002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40.4	41.9	101	78-114	

SAMPLE DUPLICATE: 1369209

Parameter	Units	60167698002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	.93J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-26-14

Pace Project No.: 60167978

QC Batch:	WET/47625	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60167978001		

METHOD BLANK: 1370002 Matrix: Water

Associated Lab Samples: 60167978001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	05/01/14 08:27	

LABORATORY CONTROL SAMPLE: 1370003

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

MATRIX SPIKE SAMPLE: 1370005

Parameter	Units	60167891001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	22	20.1	87	64-132	

SAMPLE DUPLICATE: 1370004

Parameter	Units	60167630002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	9.4	7.7	20	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-26-14

Pace Project No.: 60167978

QC Batch: WET/47580

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60167978001

METHOD BLANK: 1368667

Matrix: Water

Associated Lab Samples: 60167978001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/29/14 10:17	

SAMPLE DUPLICATE: 1368668

Parameter	Units	60167834001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	62.0	64.0	3	10	

SAMPLE DUPLICATE: 1368669

Parameter	Units	60167908001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-26-14

Pace Project No.: 60167978

QC Batch:	WET/47618	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
Associated Lab Samples:	60167978001		

SAMPLE DUPLICATE: 1369900

Parameter	Units	60167830004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.1	8.1	0	5	H1,H6

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-26-14

Pace Project No.: 60167978

QC Batch: WET/47567

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60167978001

METHOD BLANK: 1368524

Matrix: Water

Associated Lab Samples: 60167978001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	05/03/14 08:23	

LABORATORY CONTROL SAMPLE: 1368525

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

SAMPLE DUPLICATE: 1368526

Parameter	Units	60167982001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	36600	36400	0	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-26-14

Pace Project No.: 60167978

QC Batch:	WETA/29231	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60167978001		

METHOD BLANK: 1370091 Matrix: Water
Associated Lab Samples: 60167978001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	05/01/14 13:23	

LABORATORY CONTROL SAMPLE: 1370092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	99	90-110	

MATRIX SPIKE SAMPLE: 1370093

Parameter	Units	60167787001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.0	97	90-110	

MATRIX SPIKE SAMPLE: 1370094

Parameter	Units	60167814001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.41	2	2.2	88	90-110	M1

SAMPLE DUPLICATE: 1370095

Parameter	Units	60167931001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	28.2	27.7	2	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-26-14

Pace Project No.: 60167978

QC Batch:	WETA/29282	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60167978001		

METHOD BLANK: 1372072 Matrix: Water

Associated Lab Samples: 60167978001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	05/05/14 12:48	

LABORATORY CONTROL SAMPLE: 1372073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	45.3	91	90-110	

MATRIX SPIKE SAMPLE: 1372074

Parameter	Units	60167912001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	52900	25000	74900	88	90-110	M1

SAMPLE DUPLICATE: 1372075

Parameter	Units	60167981001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	53000	53300	1	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LANDFILL CB 4-26-14

Pace Project No.: 60167978

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/61249

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

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

H1 Analysis conducted outside the EPA method holding time.

H2 Extraction or preparation conducted outside EPA method holding time.

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 LANDFILL CB 4-26-14

Pace Project No.: 60167978

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60167978001	CB 4/26/14	EPA 200.7	MPRP/27047	EPA 200.7	ICP/20522
60167978001	CB 4/26/14	EPA 200.7	MPRP/27028	EPA 200.7	ICP/20508
60167978001	CB 4/26/14	EPA 245.1	MERP/8353	EPA 245.1	MERC/8303
60167978001	CB 4/26/14	EPA 245.1	MERP/8352	EPA 245.1	MERC/8304
60167978001	CB 4/26/14	EPA 625	OEXT/43937	EPA 625	MSSV/14038
60167978001	CB 4/26/14	EPA 624 Low	MSV/61294		
60167978002	TRIP BLANK	EPA 624 Low	MSV/61249		
60167978001	CB 4/26/14	EPA 1664A	WET/47597		
60167978001	CB 4/26/14	EPA 1664A	WET/47625		
60167978001	CB 4/26/14	SM 2540D	WET/47580		
60167978001	CB 4/26/14	SM 4500-H+B	WET/47618		
60167978001	CB 4/26/14	SM 5210B	WET/47567	SM 5210B	WET/47672
60167978001	CB 4/26/14	EPA 350.1	WETA/29231		
60167978001	CB 4/26/14	EPA 410.4	WETA/29282		

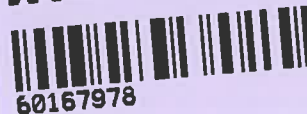
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Sample Condition Upon Receipt

WO#: 60167978



Client Name: Burr

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

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

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

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

Thermometer Used: T-239 / T-194

Type of Ice: Wet Blue ☐ None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 4.4

Date and initials of person examining contents: mw 4/28/14

Temperature should be above freezing to 6°C

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	5. <u>BOO received w/ minimal time remaining in</u>
Short Hold Time analyses (<72hr):	☒ Yes ☐ No ☐ N/A	6. <u>48-hr hold BOO</u>
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	
Pace containers used:	☒ Yes ☐ No ☐ N/A	9.
Containers intact:	☒ Yes ☐ No ☐ N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	11.
Filtered volume received for dissolved tests?	☐ Yes ☒ No ☐ N/A	12.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	<u>HNO3 initial pH ~5.0; added 2.5 ml; final pH ~3.0</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☒ No ☐ N/A	<u>H2SO4 initial pH ~5.0; added 2 ml; final pH ~1.5</u>
Exceptions: VOA, coliform, TOC, <u>DO</u> , WI-DRO (water), Phenolics	☒ Yes ☐ No	Initial when completed <u>mw</u> Lot # of added preservative
Trip Blank present:	☒ Yes ☐ No ☐ N/A	
Pace Trip Blank lot # (if purchased): <u>Apr 15</u>		15.
Headspace in VOA vials (>6mm):	☐ Yes ☒ No ☐ N/A	
		16.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ N/A	17. List State: <u>ND</u>

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: BOO updated w/ BOO time remaining → proceed

Project Manager Review: mw for AKB

Date: 4/28/14

May 05, 2014

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

RE: Project: BRIDGETON LANDFILL CB 4-27-14
Pace Project No.: 60167982

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 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: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



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CERTIFICATIONS

Project: BRIDGETON LANDFILL CB 4-27-14

Pace Project No.: 60167982

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 LANDFILL CB 4-27-14

Pace Project No.: 60167982

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60167982001	CB 4-27-14	Water	04/27/14 13:00	04/28/14 13:30
60167982002	TRIP BLANK	Water	04/27/14 13:00	04/28/14 13:30

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LANDFILL CB 4-27-14

Pace Project No.: 60167982

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60167982001	CB 4-27-14	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	NDL	1
		SM 5210B	JML	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
		EPA 624 Low	EAK	28
60167982002	TRIP BLANK			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LANDFILL CB 4-27-14

Pace Project No.: 60167982

Sample: CB 4-27-14		Lab ID: 60167982001	Collected: 04/27/14 13:00	Received: 04/28/14 13:30	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	8820 ug/L		750	2	04/30/14 09:30	05/02/14 11:34	7429-90-5	D3
Antimony	ND ug/L		100	2	04/30/14 09:30	05/02/14 11:34	7440-36-0	
Arsenic	1020 ug/L		50.0	1	04/30/14 09:30	05/02/14 11:31	7440-38-2	
Beryllium	ND ug/L		5.0	1	04/30/14 09:30	05/02/14 11:31	7440-41-7	
Cadmium	ND ug/L		25.0	1	04/30/14 09:30	05/02/14 11:31	7440-43-9	
Chromium	255 ug/L		25.0	1	04/30/14 09:30	05/02/14 11:31	7440-47-3	
Cobalt	42.8 ug/L		25.0	1	04/30/14 09:30	05/02/14 11:31	7440-48-4	
Copper	134 ug/L		50.0	1	04/30/14 09:30	05/02/14 11:31	7440-50-8	
Iron	781000 ug/L		250	1	04/30/14 09:30	05/02/14 11:31	7439-89-6	
Lead	107 ug/L		25.0	1	04/30/14 09:30	05/02/14 11:31	7439-92-1	
Nickel	128 ug/L		25.0	1	04/30/14 09:30	05/02/14 11:31	7440-02-0	
Selenium	81.8 ug/L		75.0	1	04/30/14 09:30	05/02/14 11:31	7782-49-2	
Silver	ND ug/L		35.0	1	04/30/14 09:30	05/02/14 11:31	7440-22-4	
Thallium	ND ug/L		100	1	04/30/14 09:30	05/02/14 11:31	7440-28-0	
Zinc	6000 ug/L		500	2	04/30/14 09:30	05/02/14 11:34	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1190 ug/L		750	2	05/01/14 16:30	05/02/14 12:22	7429-90-5	D3
Antimony, Dissolved	ND ug/L		100	2	05/01/14 16:30	05/02/14 12:22	7440-36-0	
Arsenic, Dissolved	780 ug/L		50.0	1	05/01/14 16:30	05/02/14 12:19	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	1	05/01/14 16:30	05/02/14 12:19	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	1	05/01/14 16:30	05/02/14 12:19	7440-43-9	
Chromium, Dissolved	169 ug/L		25.0	1	05/01/14 16:30	05/02/14 12:19	7440-47-3	
Cobalt, Dissolved	ND ug/L		25.0	1	05/01/14 16:30	05/02/14 12:19	7440-48-4	
Copper, Dissolved	70.1 ug/L		50.0	1	05/01/14 16:30	05/02/14 12:19	7440-50-8	
Iron, Dissolved	321000 ug/L		250	1	05/01/14 16:30	05/02/14 12:19	7439-89-6	
Lead, Dissolved	28.7 ug/L		25.0	1	05/01/14 16:30	05/02/14 12:19	7439-92-1	
Nickel, Dissolved	87.2 ug/L		25.0	1	05/01/14 16:30	05/02/14 12:19	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	1	05/01/14 16:30	05/02/14 12:19	7782-49-2	
Silver, Dissolved	ND ug/L		35.0	1	05/01/14 16:30	05/02/14 12:19	7440-22-4	
Thallium, Dissolved	ND ug/L		100	1	05/01/14 16:30	05/02/14 12:19	7440-28-0	
Zinc, Dissolved	5020 ug/L		500	2	05/01/14 16:30	05/02/14 12:22	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	26.8 ug/L		6.0	1	04/30/14 11:00	04/30/14 15:39	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	04/30/14 11:00	04/30/14 15:19	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND ug/L		5000	2	05/01/14 00:00	05/02/14 13:15	534-52-1	
Hexachloro-1,3-butadiene	ND ug/L		1000	2	05/01/14 00:00	05/02/14 13:15	87-68-3	
Hexachlorocyclopentadiene	ND ug/L		1000	2	05/01/14 00:00	05/02/14 13:15	77-47-4	
Hexachloroethane	ND ug/L		1000	2	05/01/14 00:00	05/02/14 13:15	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		2000	2	05/01/14 00:00	05/02/14 13:15	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	7690 ug/L		4000	2	05/01/14 00:00	05/02/14 13:15		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LANDFILL CB 4-27-14

Pace Project No.: 60167982

Sample: CB 4-27-14		Lab ID: 60167982001	Collected: 04/27/14 13:00	Received: 04/28/14 13:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	1470 ug/L		1000	2	05/01/14 00:00	05/02/14 13:15	91-20-3	
Nitrobenzene	ND ug/L		1000	2	05/01/14 00:00	05/02/14 13:15	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	05/01/14 00:00	05/02/14 13:15	87-86-5	
Phenol	10300 ug/L		1000	2	05/01/14 00:00	05/02/14 13:15	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	05/01/14 00:00	05/02/14 13:15	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	05/01/14 00:00	05/02/14 13:15	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	150 %		33-120	2	05/01/14 00:00	05/02/14 13:15	4165-60-0	S0
2-Fluorobiphenyl (S)	82 %		39-120	2	05/01/14 00:00	05/02/14 13:15	321-60-8	
Terphenyl-d14 (S)	77 %		45-120	2	05/01/14 00:00	05/02/14 13:15	1718-51-0	
Phenol-d6 (S)	38 %		11-120	2	05/01/14 00:00	05/02/14 13:15	13127-88-3	
2-Fluorophenol (S)	43 %		17-120	2	05/01/14 00:00	05/02/14 13:15	367-12-4	
2,4,6-Tribromophenol (S)	99 %		39-120	2	05/01/14 00:00	05/02/14 13:15	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	117000 ug/L		5000	500		05/02/14 17:31	67-64-1	N2
Benzene	ND ug/L		500	500		05/02/14 17:31	71-43-2	
Bromodichloromethane	ND ug/L		500	500		05/02/14 17:31	75-27-4	
Bromoform	ND ug/L		500	500		05/02/14 17:31	75-25-2	
Bromomethane	ND ug/L		2500	500		05/02/14 17:31	74-83-9	
2-Butanone (MEK)	47900 ug/L		5000	500		05/02/14 17:31	78-93-3	N2
Carbon tetrachloride	ND ug/L		500	500		05/02/14 17:31	56-23-5	
Chloroethane	ND ug/L		500	500		05/02/14 17:31	75-00-3	
Chloroform	ND ug/L		500	500		05/02/14 17:31	67-66-3	
1,4-Dichlorobenzene	ND ug/L		500	500		05/02/14 17:31	106-46-7	
1,2-Dichloroethane	ND ug/L		500	500		05/02/14 17:31	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		500	500		05/02/14 17:31	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		500	500		05/02/14 17:31	156-60-5	
Ethylbenzene	ND ug/L		500	500		05/02/14 17:31	100-41-4	
Methylene chloride	ND ug/L		500	500		05/02/14 17:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		5000	500		05/02/14 17:31	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		500	500		05/02/14 17:31	79-34-5	N2
Tetrachloroethene	ND ug/L		500	500		05/02/14 17:31	127-18-4	
Toluene	ND ug/L		500	500		05/02/14 17:31	108-88-3	
1,1,1-Trichloroethane	ND ug/L		500	500		05/02/14 17:31	71-55-6	
1,1,2-Trichloroethane	ND ug/L		500	500		05/02/14 17:31	79-00-5	
Trichloroethene	ND ug/L		500	500		05/02/14 17:31	79-01-6	
Vinyl chloride	ND ug/L		500	500		05/02/14 17:31	75-01-4	
Xylene (Total)	ND ug/L		1500	500		05/02/14 17:31	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	102 %		80-120	500		05/02/14 17:31	460-00-4	
Toluene-d8 (S)	98 %		80-120	500		05/02/14 17:31	2037-26-5	
1,2-Dichloroethane-d4 (S)	93 %		80-120	500		05/02/14 17:31	17060-07-0	
Preservation pH	6.0		1.0	500		05/02/14 17:31		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	762 mg/L		5.0	1		04/30/14 07:13		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LANDFILL CB 4-27-14

Pace Project No.: 60167982

Sample: CB 4-27-14		Lab ID: 60167982001	Collected: 04/27/14 13:00	Received: 04/28/14 13:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	5.8	mg/L	5.0	1		05/01/14 08:29		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	5000	mg/L	5.0	1		04/29/14 10:21		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.3	Std. Units	0.10	1		05/01/14 09:10		H3,H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	36600	mg/L	200	100	04/28/14 17:17	05/03/14 08:40		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	585	mg/L	20.0	200		05/01/14 15:03	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	56000	mg/L	5000	500		05/05/14 12:52		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LANDFILL CB 4-27-14

Pace Project No.: 60167982

Sample: TRIP BLANK		Lab ID: 60167982002	Collected: 04/27/14 13:00	Received: 04/28/14 13:30	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		04/30/14 14:38	67-64-1	N2
Benzene	ND ug/L		1.0	1		04/30/14 14:38	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/30/14 14:38	75-27-4	
Bromoform	ND ug/L		1.0	1		04/30/14 14:38	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/30/14 14:38	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/30/14 14:38	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		04/30/14 14:38	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/30/14 14:38	75-00-3	
Chloroform	ND ug/L		1.0	1		04/30/14 14:38	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/30/14 14:38	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/30/14 14:38	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/30/14 14:38	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/30/14 14:38	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/30/14 14:38	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/30/14 14:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/30/14 14:38	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/30/14 14:38	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/30/14 14:38	127-18-4	
Toluene	ND ug/L		1.0	1		04/30/14 14:38	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/30/14 14:38	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/30/14 14:38	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/30/14 14:38	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/30/14 14:38	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/30/14 14:38	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	1		04/30/14 14:38	460-00-4	
Toluene-d8 (S)	100 %		80-120	1		04/30/14 14:38	2037-26-5	
1,2-Dichloroethane-d4 (S)	98 %		80-120	1		04/30/14 14:38	17060-07-0	
Preservation pH	6.0		1.0	1		04/30/14 14:38		

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-27-14

Pace Project No.: 60167982

QC Batch: MERP/8353

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60167982001

METHOD BLANK: 1369351

Matrix: Water

Associated Lab Samples: 60167982001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/30/14 15:21	

LABORATORY CONTROL SAMPLE: 1369352

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1369353 1369354

Parameter	Units	60167978001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	19.0	150	150	132	127	75	72	70-130	4	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-27-14

Pace Project No.: 60167982

QC Batch: MERP/8352

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60167982001

METHOD BLANK: 1369342

Matrix: Water

Associated Lab Samples: 60167982001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	04/30/14 14:46	

LABORATORY CONTROL SAMPLE: 1369343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.5	90	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1369344 1369345

Parameter	Units	60167571001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	116	122	77	81	70-130	5	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-27-14
Pace Project No.: 60167982

QC Batch:	MPRP/27047	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Total
Associated Lab Samples:	60167982001		

METHOD BLANK: 1369346 Matrix: Water
Associated Lab Samples: 60167982001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	05/02/14 09:52	
Antimony	ug/L	ND	10.0	05/02/14 09:52	
Arsenic	ug/L	ND	10.0	05/02/14 09:52	
Beryllium	ug/L	ND	1.0	05/02/14 09:52	
Cadmium	ug/L	ND	5.0	05/02/14 09:52	
Chromium	ug/L	ND	5.0	05/02/14 09:52	
Cobalt	ug/L	ND	5.0	05/02/14 09:52	
Copper	ug/L	ND	10.0	05/02/14 09:52	
Iron	ug/L	ND	50.0	05/02/14 09:52	
Lead	ug/L	ND	5.0	05/02/14 09:52	
Nickel	ug/L	ND	5.0	05/02/14 09:52	
Selenium	ug/L	ND	15.0	05/02/14 09:52	
Silver	ug/L	ND	7.0	05/02/14 09:52	
Thallium	ug/L	ND	20.0	05/02/14 09:52	
Zinc	ug/L	ND	50.0	05/02/14 09:52	

LABORATORY CONTROL SAMPLE: 1369347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9950	99	85-115	
Antimony	ug/L	1000	985	98	85-115	
Arsenic	ug/L	1000	946	95	85-115	
Beryllium	ug/L	1000	1020	102	85-115	
Cadmium	ug/L	1000	972	97	85-115	
Chromium	ug/L	1000	972	97	85-115	
Cobalt	ug/L	1000	986	99	85-115	
Copper	ug/L	1000	976	98	85-115	
Iron	ug/L	10000	9740	97	85-115	
Lead	ug/L	1000	993	99	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	997	100	85-115	
Silver	ug/L	500	488	98	85-115	
Thallium	ug/L	1000	1010	101	85-115	
Zinc	ug/L	1000	1000	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1369348 1369349

Parameter	Units	60167982001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	720	10000	10000	11600	11600	109	109	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-27-14

Pace Project No.: 60167982

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1369348 1369349											
Parameter	Units	60167928001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Antimony	ug/L	ND	1000	1000	994	992	99	99	70-130	0	7
Arsenic	ug/L	ND	1000	1000	954	948	95	95	70-130	1	10
Beryllium	ug/L	ND	1000	1000	1020	1020	102	102	70-130	0	7
Cadmium	ug/L	ND	1000	1000	977	973	98	97	70-130	0	10
Chromium	ug/L	ND	1000	1000	982	972	98	97	70-130	1	10
Cobalt	ug/L	ND	1000	1000	995	988	99	99	70-130	1	6
Copper	ug/L	ND	1000	1000	997	987	99	98	70-130	1	11
Iron	ug/L	903	10000	10000	10800	10700	99	98	70-130	0	10
Lead	ug/L	ND	1000	1000	999	995	100	99	70-130	0	10
Nickel	ug/L	ND	1000	1000	1020	1020	102	102	70-130	0	10
Selenium	ug/L	ND	1000	1000	992	994	99	99	70-130	0	10
Silver	ug/L	ND	500	500	492	486	98	97	70-130	1	10
Thallium	ug/L	ND	1000	1000	982	999	98	100	70-130	2	6
Zinc	ug/L	ND	1000	1000	1030	1030	100	99	70-130	0	11

MATRIX SPIKE SAMPLE: 1369350							
Parameter	Units	60168064005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	224	10000	10000	98	70-130	
Antimony	ug/L	ND	1000	980	98	70-130	
Arsenic	ug/L	ND	1000	951	95	70-130	
Beryllium	ug/L	ND	1000	1010	101	70-130	
Cadmium	ug/L	ND	1000	969	97	70-130	
Chromium	ug/L	ND	1000	944	94	70-130	
Cobalt	ug/L	ND	1000	971	97	70-130	
Copper	ug/L	54.9	1000	1050	99	70-130	
Iron	ug/L	974	10000	10100	91	70-130	
Lead	ug/L	6.8	1000	975	97	70-130	
Nickel	ug/L	5.3	1000	1000	100	70-130	
Selenium	ug/L	ND	1000	997	100	70-130	
Silver	ug/L	ND	500	481	96	70-130	
Thallium	ug/L	ND	1000	912	91	70-130	
Zinc	ug/L	181	1000	1130	95	70-130	

SAMPLE DUPLICATE: 1369432

Parameter	Units	60168043002 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum	ug/L	ND	ND		20	
Antimony	ug/L	ND	ND		20	
Arsenic	ug/L	ND	18.4J		20	
Beryllium	ug/L	ND	ND		20	
Cadmium	ug/L	ND	ND		20	
Chromium	ug/L	ND	ND		20	
Cobalt	ug/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-27-14

Pace Project No.: 60167982

SAMPLE DUPLICATE: 1369432

Parameter	Units	60168043002 Result	Dup Result	RPD	Max RPD	Qualifiers
Copper	ug/L	ND	6.2J		20	
Iron	ug/L	826	786	5	20	
Lead	ug/L	ND	ND		20	
Nickel	ug/L	ND	ND		20	
Selenium	ug/L	ND	ND		20	
Silver	ug/L	ND	ND		20	
Thallium	ug/L	ND	ND		20	
Zinc	ug/L	ND	99.6J		20	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-27-14

Pace Project No.: 60167982

QC Batch: MPRP/27073

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60167982001

METHOD BLANK: 1370359

Matrix: Water

Associated Lab Samples: 60167982001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	05/02/14 11:51	
Antimony, Dissolved	ug/L	ND	10.0	05/02/14 11:51	
Arsenic, Dissolved	ug/L	ND	10.0	05/02/14 11:51	
Beryllium, Dissolved	ug/L	ND	1.0	05/02/14 11:51	
Cadmium, Dissolved	ug/L	ND	5.0	05/02/14 11:51	
Chromium, Dissolved	ug/L	ND	5.0	05/02/14 11:51	
Cobalt, Dissolved	ug/L	ND	5.0	05/02/14 11:51	
Copper, Dissolved	ug/L	ND	10.0	05/02/14 11:51	
Iron, Dissolved	ug/L	ND	50.0	05/02/14 11:51	
Lead, Dissolved	ug/L	ND	5.0	05/02/14 11:51	
Nickel, Dissolved	ug/L	ND	5.0	05/02/14 11:51	
Selenium, Dissolved	ug/L	ND	15.0	05/02/14 11:51	
Silver, Dissolved	ug/L	ND	7.0	05/02/14 11:51	
Thallium, Dissolved	ug/L	ND	20.0	05/02/14 11:51	
Zinc, Dissolved	ug/L	ND	50.0	05/02/14 11:51	

LABORATORY CONTROL SAMPLE: 1370360

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9930	99	85-115	
Antimony, Dissolved	ug/L	1000	1000	100	85-115	
Arsenic, Dissolved	ug/L	1000	949	95	85-115	
Beryllium, Dissolved	ug/L	1000	996	100	85-115	
Cadmium, Dissolved	ug/L	1000	974	97	85-115	
Chromium, Dissolved	ug/L	1000	963	96	85-115	
Cobalt, Dissolved	ug/L	1000	990	99	85-115	
Copper, Dissolved	ug/L	1000	983	98	85-115	
Iron, Dissolved	ug/L	10000	9480	95	85-115	
Lead, Dissolved	ug/L	1000	988	99	85-115	
Nickel, Dissolved	ug/L	1000	1020	102	85-115	
Selenium, Dissolved	ug/L	1000	995	99	85-115	
Silver, Dissolved	ug/L	500	489	98	85-115	
Thallium, Dissolved	ug/L	1000	995	100	85-115	
Zinc, Dissolved	ug/L	1000	982	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1370361

1370362

Parameter	Units	60167981001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	1210	50000	50000	51100	50300	100	98	70-130	2	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-27-14

Pace Project No.: 60167982

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1370361 1370362											
Parameter	Units	60167981001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Antimony, Dissolved	ug/L	ND	5000	5000	5110	5130	102	102	70-130	0	7
Arsenic, Dissolved	ug/L	827	5000	5000	5870	5840	101	100	70-130	1	10
Beryllium, Dissolved	ug/L	ND	5000	5000	4740	4720	95	94	70-130	0	7
Cadmium, Dissolved	ug/L	ND	5000	5000	5020	4970	100	99	70-130	1	10
Chromium, Dissolved	ug/L	176	5000	5000	4870	4800	94	93	70-130	1	10
Cobalt, Dissolved	ug/L	25.1	5000	5000	4730	4680	94	93	70-130	1	6
Copper, Dissolved	ug/L	ND	5000	5000	5180	5130	103	102	70-130	1	11
Iron, Dissolved	ug/L	339000	50000	50000	377000	381000	77	85	70-130	1	10
Lead, Dissolved	ug/L	31.2	5000	5000	4570	4520	91	90	70-130	1	10
Nickel, Dissolved	ug/L	90.7	5000	5000	4830	4790	95	94	70-130	1	10
Selenium, Dissolved	ug/L	ND	5000	5000	5660	5620	112	111	70-130	1	10
Silver, Dissolved	ug/L	ND	2500	2500	2620	2600	105	104	70-130	1	10
Thallium, Dissolved	ug/L	ND	5000	5000	4340	4340	87	87	70-130	0	6
Zinc, Dissolved	ug/L	5250	5000	5000	9770	9850	90	92	70-130	1	11

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-27-14

Pace Project No.: 60167982

QC Batch:	MSV/61249	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60167982002		

METHOD BLANK: 1369553 Matrix: Water

Associated Lab Samples: 60167982002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/30/14 13:35	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/30/14 13:35	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/30/14 13:35	
1,2-Dichloroethane	ug/L	ND	1.0	04/30/14 13:35	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/30/14 13:35	
2-Butanone (MEK)	ug/L	ND	10.0	04/30/14 13:35	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/30/14 13:35	N2
Acetone	ug/L	ND	10.0	04/30/14 13:35	N2
Benzene	ug/L	ND	1.0	04/30/14 13:35	
Bromodichloromethane	ug/L	ND	1.0	04/30/14 13:35	
Bromoform	ug/L	ND	1.0	04/30/14 13:35	
Bromomethane	ug/L	ND	5.0	04/30/14 13:35	
Carbon tetrachloride	ug/L	ND	1.0	04/30/14 13:35	
Chloroethane	ug/L	ND	1.0	04/30/14 13:35	
Chloroform	ug/L	ND	1.0	04/30/14 13:35	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/30/14 13:35	N2
Ethylbenzene	ug/L	ND	1.0	04/30/14 13:35	
Methylene chloride	ug/L	ND	1.0	04/30/14 13:35	
Tetrachloroethene	ug/L	ND	1.0	04/30/14 13:35	
Toluene	ug/L	ND	1.0	04/30/14 13:35	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/30/14 13:35	
Trichloroethene	ug/L	ND	1.0	04/30/14 13:35	
Vinyl chloride	ug/L	ND	1.0	04/30/14 13:35	
Xylene (Total)	ug/L	ND	3.0	04/30/14 13:35	N2
1,2-Dichloroethane-d4 (S)	%	99	80-120	04/30/14 13:35	
4-Bromofluorobenzene (S)	%	102	80-120	04/30/14 13:35	
Toluene-d8 (S)	%	101	80-120	04/30/14 13:35	

LABORATORY CONTROL SAMPLE: 1369554

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.1	100	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.0	95	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.0	95	67-124	
1,2-Dichloroethane	ug/L	20	20.4	102	70-126	
1,4-Dichlorobenzene	ug/L	20	19.1	95	74-120	
2-Butanone (MEK)	ug/L	100	95.8	96	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	105	105	59-131	N2
Acetone	ug/L	100	93.4	93	38-134	N2
Benzene	ug/L	20	19.2	96	75-120	
Bromodichloromethane	ug/L	20	20.2	101	68-125	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-27-14

Pace Project No.: 60167982

LABORATORY CONTROL SAMPLE: 1369554

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	17.7	88	65-127	
Bromomethane	ug/L	20	16.6	83	13-157	
Carbon tetrachloride	ug/L	20	20.1	100	70-131	
Chloroethane	ug/L	20	19.9	99	47-133	
Chloroform	ug/L	20	19.9	99	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.2	101	68-127	N2
Ethylbenzene	ug/L	20	19.8	99	74-122	
Methylene chloride	ug/L	20	20.8	104	64-129	
Tetrachloroethene	ug/L	20	18.2	91	73-125	
Toluene	ug/L	20	19.5	97	69-126	
trans-1,2-Dichloroethene	ug/L	20	19.5	98	66-129	
Trichloroethene	ug/L	20	19.2	96	71-123	
Vinyl chloride	ug/L	20	18.5	92	43-129	
Xylene (Total)	ug/L	60	62.6	104	75-121	N2
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			100	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-27-14

Pace Project No.: 60167982

QC Batch:	MSV/61328	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples:	60167982001		

METHOD BLANK: 1370971 Matrix: Water

Associated Lab Samples: 60167982001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	05/02/14 17:16	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/02/14 17:16	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	05/02/14 17:16	
1,2-Dichloroethane	ug/L	ND	1.0	05/02/14 17:16	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/02/14 17:16	
2-Butanone (MEK)	ug/L	ND	10.0	05/02/14 17:16	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	05/02/14 17:16	N2
Acetone	ug/L	ND	10.0	05/02/14 17:16	N2
Benzene	ug/L	ND	1.0	05/02/14 17:16	
Bromodichloromethane	ug/L	ND	1.0	05/02/14 17:16	
Bromoform	ug/L	ND	1.0	05/02/14 17:16	
Bromomethane	ug/L	ND	5.0	05/02/14 17:16	
Carbon tetrachloride	ug/L	ND	1.0	05/02/14 17:16	
Chloroethane	ug/L	ND	1.0	05/02/14 17:16	
Chloroform	ug/L	ND	1.0	05/02/14 17:16	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/02/14 17:16	N2
Ethylbenzene	ug/L	ND	1.0	05/02/14 17:16	
Methylene chloride	ug/L	ND	1.0	05/02/14 17:16	
Tetrachloroethene	ug/L	ND	1.0	05/02/14 17:16	
Toluene	ug/L	ND	1.0	05/02/14 17:16	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/02/14 17:16	
Trichloroethene	ug/L	ND	1.0	05/02/14 17:16	
Vinyl chloride	ug/L	ND	1.0	05/02/14 17:16	
Xylene (Total)	ug/L	ND	3.0	05/02/14 17:16	N2
1,2-Dichloroethane-d4 (S)	%	96	80-120	05/02/14 17:16	
4-Bromofluorobenzene (S)	%	101	80-120	05/02/14 17:16	
Toluene-d8 (S)	%	100	80-120	05/02/14 17:16	

LABORATORY CONTROL SAMPLE: 1370972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.4	92	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.6	98	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.8	99	67-124	
1,2-Dichloroethane	ug/L	20	18.3	92	70-126	
1,4-Dichlorobenzene	ug/L	20	19.3	96	74-120	
2-Butanone (MEK)	ug/L	100	90.0	90	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	105	105	59-131	N2
Acetone	ug/L	100	81.5	81	38-134	N2
Benzene	ug/L	20	17.8	89	75-120	
Bromodichloromethane	ug/L	20	19.7	98	68-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-27-14

Pace Project No.: 60167982

LABORATORY CONTROL SAMPLE: 1370972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	17.5	88	65-127	
Bromomethane	ug/L	20	6.7	33	13-157	
Carbon tetrachloride	ug/L	20	16.8	84	70-131	
Chloroethane	ug/L	20	15.5	77	47-133	
Chloroform	ug/L	20	19.1	96	65-127	
cis-1,2-Dichloroethene	ug/L	20	19.2	96	68-127	N2
Ethylbenzene	ug/L	20	19.5	97	74-122	
Methylene chloride	ug/L	20	18.0	90	64-129	
Tetrachloroethene	ug/L	20	16.8	84	73-125	
Toluene	ug/L	20	17.9	89	69-126	
trans-1,2-Dichloroethene	ug/L	20	16.5	82	66-129	
Trichloroethene	ug/L	20	17.8	89	71-123	
Vinyl chloride	ug/L	20	13.1	65	43-129	
Xylene (Total)	ug/L	60	59.3	99	75-121	N2
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			105	80-120	
Toluene-d8 (S)	%			101	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-27-14

Pace Project No.: 60167982

QC Batch: OEXT/43937

Analysis Method: EPA 625

QC Batch Method: EPA 625

Analysis Description: 625 MSS

Associated Lab Samples: 60167982001

METHOD BLANK: 1369918

Matrix: Water

Associated Lab Samples: 60167982001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/02/14 09:27	
2,4,6-Trichlorophenol	ug/L	ND	5.0	05/02/14 09:27	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	05/02/14 09:27	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	05/02/14 09:27	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	05/02/14 09:27	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/02/14 09:27	
Hexachlorocyclopentadiene	ug/L	ND	5.0	05/02/14 09:27	
Hexachloroethane	ug/L	ND	5.0	05/02/14 09:27	
Naphthalene	ug/L	ND	5.0	05/02/14 09:27	
Nitrobenzene	ug/L	ND	5.0	05/02/14 09:27	
Pentachlorophenol	ug/L	ND	5.0	05/02/14 09:27	
Phenol	ug/L	ND	5.0	05/02/14 09:27	
2,4,6-Tribromophenol (S)	%	113	39-120	05/02/14 09:27	
2-Fluorobiphenyl (S)	%	107	39-120	05/02/14 09:27	
2-Fluorophenol (S)	%	52	17-120	05/02/14 09:27	
Nitrobenzene-d5 (S)	%	96	33-120	05/02/14 09:27	
Phenol-d6 (S)	%	32	11-120	05/02/14 09:27	
Terphenyl-d14 (S)	%	100	45-120	05/02/14 09:27	

LABORATORY CONTROL SAMPLE: 1369919

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	43.2	86	46-120	
2,4,6-Trichlorophenol	ug/L	50	45.7	91	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	33.5	67	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	29.4	59	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	48.9	98	40-133	
Hexachloro-1,3-butadiene	ug/L	50	44.6	89	44-116	
Hexachlorocyclopentadiene	ug/L	100	75.1	75	24-120	
Hexachloroethane	ug/L	50	40.8	82	43-113	
Naphthalene	ug/L	50	43.3	87	48-120	
Nitrobenzene	ug/L	50	42.5	85	48-120	
Pentachlorophenol	ug/L	50	50.3	101	47-120	
Phenol	ug/L	50	15.4	31	16-112	
2,4,6-Tribromophenol (S)	%			101	39-120	
2-Fluorobiphenyl (S)	%			91	39-120	
2-Fluorophenol (S)	%			44	17-120	
Nitrobenzene-d5 (S)	%			85	33-120	
Phenol-d6 (S)	%			27	11-120	
Terphenyl-d14 (S)	%			90	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-27-14

Pace Project No.: 60167982

MATRIX SPIKE SAMPLE:		1369246					
Parameter	Units	60167796001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5000	4090	82	44-120	
2,4,6-Trichlorophenol	ug/L	ND	5000	4620	92	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	5000	4170	83	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	5000	10300	207	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	5000	3020J	60	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	5000	4630	93	39-116	
Hexachlorocyclopentadiene	ug/L	ND	10000	7930	79	11-120	
Hexachloroethane	ug/L	ND	5000	4450	89	40-113	
Naphthalene	ug/L	ND	5000	5450	109	45-120	
Nitrobenzene	ug/L	ND	5000	4310	86	38-120	
Pentachlorophenol	ug/L	ND	5000	4160	83	43-135	
Phenol	ug/L	ND	5000	11200	225	13-112	
2,4,6-Tribromophenol (S)	%				104	39-120	
2-Fluorobiphenyl (S)	%				91	39-120	
2-Fluorophenol (S)	%				49	17-120	
Nitrobenzene-d5 (S)	%				152	33-120	S0
Phenol-d6 (S)	%				32	11-120	
Terphenyl-d14 (S)	%				88	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-27-14

Pace Project No.: 60167982

QC Batch: WET/47597

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60167982001

METHOD BLANK: 1369206

Matrix: Water

Associated Lab Samples: 60167982001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/30/14 07:09	

LABORATORY CONTROL SAMPLE: 1369207

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.7	99	78-114	

MATRIX SPIKE SAMPLE: 1369208

Parameter	Units	60167679002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40.4	41.9	101	78-114	

SAMPLE DUPLICATE: 1369209

Parameter	Units	60167698002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	.93J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-27-14

Pace Project No.: 60167982

QC Batch: WET/47625

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60167982001

METHOD BLANK: 1370002

Matrix: Water

Associated Lab Samples: 60167982001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	05/01/14 08:27	

LABORATORY CONTROL SAMPLE: 1370003

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

MATRIX SPIKE SAMPLE: 1370005

Parameter	Units	60167891001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	22	20.1	87	64-132	

SAMPLE DUPLICATE: 1370004

Parameter	Units	60167630002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	9.4	7.7	20	34	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-27-14

Pace Project No.: 60167982

QC Batch: WET/47580

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60167982001

METHOD BLANK: 1368667

Matrix: Water

Associated Lab Samples: 60167982001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/29/14 10:17	

SAMPLE DUPLICATE: 1368668

Parameter	Units	60167834001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	62.0	64.0	3	10	

SAMPLE DUPLICATE: 1368669

Parameter	Units	60167908001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-27-14

Pace Project No.: 60167982

QC Batch: WET/47618 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60167982001

SAMPLE DUPLICATE: 1369900

Parameter	Units	60167830004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.1	8.1	0	5	H1,H6

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-27-14

Pace Project No.: 60167982

QC Batch: WET/47567

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60167982001

METHOD BLANK: 1368524

Matrix: Water

Associated Lab Samples: 60167982001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	05/03/14 08:23	

LABORATORY CONTROL SAMPLE: 1368525

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

SAMPLE DUPLICATE: 1368526

Parameter	Units	60167982001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	36600	36400	0	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-27-14

Pace Project No.: 60167982

QC Batch:	WETA/29231	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60167982001		

METHOD BLANK: 1370091 Matrix: Water
Associated Lab Samples: 60167982001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	05/01/14 13:23	

LABORATORY CONTROL SAMPLE: 1370092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	99	90-110	

MATRIX SPIKE SAMPLE: 1370093

Parameter	Units	60167787001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.0	97	90-110	

MATRIX SPIKE SAMPLE: 1370094

Parameter	Units	60167814001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.41	2	2.2	88	90-110	M1

SAMPLE DUPLICATE: 1370095

Parameter	Units	60167931001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	28.2	27.7	2	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL CB 4-27-14

Pace Project No.: 60167982

QC Batch:	WETA/29282	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60167982001		

METHOD BLANK: 1372072 Matrix: Water

Associated Lab Samples: 60167982001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	05/05/14 12:48	

LABORATORY CONTROL SAMPLE: 1372073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	45.3	91	90-110	

MATRIX SPIKE SAMPLE: 1372074

Parameter	Units	60167912001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	52900	25000	74900	88	90-110	M1

SAMPLE DUPLICATE: 1372075

Parameter	Units	60167981001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	53000	53300	1	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LANDFILL CB 4-27-14

Pace Project No.: 60167982

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/61249

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

Batch: MSV/61328

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

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

H1 Analysis conducted outside the EPA method holding time.

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 LANDFILL CB 4-27-14

Pace Project No.: 60167982

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60167982001	CB 4-27-14	EPA 200.7	MPRP/27047	EPA 200.7	ICP/20522
60167982001	CB 4-27-14	EPA 200.7	MPRP/27073	EPA 200.7	ICP/20539
60167982001	CB 4-27-14	EPA 245.1	MERP/8353	EPA 245.1	MERC/8303
60167982001	CB 4-27-14	EPA 245.1	MERP/8352	EPA 245.1	MERC/8304
60167982001	CB 4-27-14	EPA 625	OEXT/43937	EPA 625	MSSV/14038
60167982001	CB 4-27-14	EPA 624 Low	MSV/61328		
60167982002	TRIP BLANK	EPA 624 Low	MSV/61249		
60167982001	CB 4-27-14	EPA 1664A	WET/47597		
60167982001	CB 4-27-14	EPA 1664A	WET/47625		
60167982001	CB 4-27-14	SM 2540D	WET/47580		
60167982001	CB 4-27-14	SM 4500-H+B	WET/47618		
60167982001	CB 4-27-14	SM 5210B	WET/47567	SM 5210B	WET/47672
60167982001	CB 4-27-14	EPA 350.1	WETA/29231		
60167982001	CB 4-27-14	EPA 410.4	WETA/29282		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60167982



Client Name: Barr

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

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 ☒ 2up

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: 2/4/28/14

Temperature should be above freezing to 6°C

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☒ Yes ☐ No ☐ N/A	6. <u>300, PH</u>
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	9.
Pace containers used:	☒ Yes ☐ No ☐ N/A	10.
Containers intact:	☒ Yes ☐ No ☐ N/A	11.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	12.
Filtered volume received for dissolved tests?	☐ Yes ☐ No ☒ N/A	13.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	14.
Includes date/time/ID/analyses	Matrix: <u>wt</u>	15.
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	16.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☒ No ☐ N/A	17.
Exceptions: <u>VOA</u> coliform, TOC, O&G, WI-DRO (water), Phenolics	☒ Yes ☐ No	Initial when completed <u>8</u> Lot # of added preservative <u>12513</u> <u>12522</u>
Trip Blank present:	☒ Yes ☐ No ☐ N/A	18.
Pace Trip Blank lot # (if purchased):		19.
Headspace in VOA vials (>6mm):	☒ Yes ☐ No ☐ N/A	20. <u>395 VOA</u> ✓
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ N/A	21. 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: mw for ARB ✓

Date: 4/29/14

May 05, 2014

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

RE: Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60167996

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 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: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167996

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.: 60167996

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60167996001	TCLP APR14	Water	04/26/14 13:50	04/28/14 13:30
60167996002	TRIP BLANK	Water	04/26/14 00:00	04/28/14 13:30

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SAMPLE ANALYTE COUNT

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167996

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60167996001	TCLP APR14	EPA 8081	TA	9	PASI-D
		EPA 8151	PMS	3	PASI-D
		EPA 6010	JGP	7	PASI-K
		EPA 7470	TDS	1	PASI-K
		EPA 8270	JMT	18	PASI-K
		EPA 8260	JKL	13	PASI-K
		EPA 5030B/8260	PRG	28	PASI-K
		EPA 1664A	JMC1	1	PASI-K
		SM 2540B	RAH	1	PASI-K
60167996002	TRIP BLANK	EPA 5030B/8260	PRG	28	PASI-K

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167996

Sample: TCLP APR14		Lab ID: 60167996001		Collected: 04/26/14 13:50		Received: 04/28/14 13:30		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									
Leachate Method/Date: EPA 1311; 04/26/14 13:50									
gamma-BHC (Lindane)	ND mg/L		0.00020	.4	1	05/02/14 09:09	05/02/14 20:23	58-89-9	M1
Chlordane (Technical)	ND mg/L		0.0050	.03	1	05/02/14 09:09	05/02/14 20:23	57-74-9	
Endrin	ND mg/L		0.00020	.02	1	05/02/14 09:09	05/02/14 20:23	72-20-8	M1
Heptachlor	ND mg/L		0.00020	.008	1	05/02/14 09:09	05/02/14 20:23	76-44-8	M1
Heptachlor epoxide	ND mg/L		0.00050	.008	1	05/02/14 09:09	05/02/14 20:23	1024-57-3	
Methoxychlor	ND mg/L		0.00050	10	1	05/02/14 09:09	05/02/14 20:23	72-43-5	R1
Toxaphene	ND mg/L		0.010	.5	1	05/02/14 09:09	05/02/14 20:23	8001-35-2	
Surrogates									
Decachlorobiphenyl (S)	22 %.		40-140		1	05/02/14 09:09	05/02/14 20:23	2051-24-3	S0
Tetrachloro-m-xylene (S)	51 %.		40-140		1	05/02/14 09:09	05/02/14 20:23	877-09-8	
8151 Chlorinate Herbicide TCLP									
Analytical Method: EPA 8151 Preparation Method: EPA 8151									
Leachate Method/Date: EPA 1311; 04/26/14 13:50									
2,4-D	ND mg/L		0.0050	10	10	05/01/14 16:09	05/02/14 22:52	94-75-7	M6,R1
2,4,5-TP (Silvex)	ND mg/L		0.0050	1	10	05/01/14 16:09	05/02/14 22:52	93-72-1	M6
Surrogates									
2,4-DCAA (S)	499 %.		40-140		10	05/01/14 16:09	05/02/14 22:52	19719-28-9	S4
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 05/01/14 00:00									
Arsenic	0.98 mg/L		0.50	5	1	05/01/14 13:10	05/02/14 09:14	7440-38-2	
Barium	4.2 mg/L		2.5	100	1	05/01/14 13:10	05/02/14 09:14	7440-39-3	
Cadmium	ND mg/L		0.050	1	1	05/01/14 13:10	05/02/14 09:14	7440-43-9	
Chromium	0.43 mg/L		0.10	5	1	05/01/14 13:10	05/02/14 09:14	7440-47-3	
Lead	ND mg/L		0.50	5	1	05/01/14 13:10	05/02/14 09:14	7439-92-1	
Selenium	ND mg/L		0.50	1	1	05/01/14 13:10	05/02/14 09:14	7782-49-2	
Silver	ND mg/L		0.10	5	1	05/01/14 13:10	05/02/14 09:14	7440-22-4	
7470 Mercury, TCLP									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Leachate Method/Date: EPA 1311; 05/01/14 00:00									
Mercury	ND mg/L		0.0020	.2	1	05/01/14 15:30	05/02/14 12:55	7439-97-6	
8270 MSSV TCLP Sep Funnel									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Leachate Method/Date: EPA 1311; 05/01/14 00:00									
1,4-Dichlorobenzene	ND ug/L		1000	7500	1	05/02/14 00:00	05/05/14 13:42	106-46-7	
2,4-Dinitrotoluene	ND ug/L		1000	130	1	05/02/14 00:00	05/05/14 13:42	121-14-2	
Hexachloro-1,3-butadiene	ND ug/L		1000	500	1	05/02/14 00:00	05/05/14 13:42	87-68-3	
Hexachlorobenzene	ND ug/L		1000	130	1	05/02/14 00:00	05/05/14 13:42	118-74-1	
Hexachloroethane	ND ug/L		1000	3000	1	05/02/14 00:00	05/05/14 13:42	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		1000	200000	1	05/02/14 00:00	05/05/14 13:42	95-48-7	
3&4-Methylphenol(m&p Cresol)	14100 ug/L		10000	200000	5	05/02/14 00:00	05/03/14 17:26		
Nitrobenzene	ND ug/L		1000	2000	1	05/02/14 00:00	05/05/14 13:42	98-95-3	
Pentachlorophenol	ND ug/L		5000	100000	1	05/02/14 00:00	05/05/14 13:42	87-86-5	

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167996

Sample: TCLP APR14		Lab ID: 60167996001		Collected: 04/26/14 13:50		Received: 04/28/14 13:30		Matrix: Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV TCLP Sep Funnel									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Leachate Method/Date: EPA 1311; 05/01/14 00:00									
Pyridine	ND	ug/L	1000	5000	1	05/02/14 00:00	05/05/14 13:42	110-86-1	
2,4,5-Trichlorophenol	ND	ug/L	5000	400000	1	05/02/14 00:00	05/05/14 13:42	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1000	2000	1	05/02/14 00:00	05/05/14 13:42	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	199	%	44-120		1	05/02/14 00:00	05/05/14 13:42	4165-60-0	S0
2-Fluorobiphenyl (S)	94	%	49-120		1	05/02/14 00:00	05/05/14 13:42	321-60-8	
Terphenyl-d14 (S)	101	%	52-122		1	05/02/14 00:00	05/05/14 13:42	1718-51-0	
Phenol-d6 (S)	95	%	36-120		1	05/02/14 00:00	05/05/14 13:42	13127-88-3	
2-Fluorophenol (S)	68	%	37-120		1	05/02/14 00:00	05/05/14 13:42	367-12-4	
2,4,6-Tribromophenol (S)	110	%	36-128		1	05/02/14 00:00	05/05/14 13:42	118-79-6	
8260 MSV TCLP									
Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 05/01/14 00:00									
Benzene	456	ug/L	250	500	5		05/01/14 22:12	71-43-2	
2-Butanone (MEK)	64400	ug/L	5000	200000	5		05/01/14 22:12	78-93-3	
Carbon tetrachloride	ND	ug/L	250	500	5		05/01/14 22:12	56-23-5	
Chlorobenzene	ND	ug/L	250	100000	5		05/01/14 22:12	108-90-7	
Chloroform	ND	ug/L	1000	6000	5		05/01/14 22:12	67-66-3	
1,2-Dichloroethane	ND	ug/L	250	500	5		05/01/14 22:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	250	700	5		05/01/14 22:12	75-35-4	
Tetrachloroethene	ND	ug/L	250	700	5		05/01/14 22:12	127-18-4	
Trichloroethene	ND	ug/L	250	500	5		05/01/14 22:12	79-01-6	
Vinyl chloride	ND	ug/L	100	200	5		05/01/14 22:12	75-01-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	96	%	80-120		5		05/01/14 22:12	17060-07-0	
Toluene-d8 (S)	101	%	80-120		5		05/01/14 22:12	2037-26-5	
4-Bromofluorobenzene (S)	98	%	80-120		5		05/01/14 22:12	460-00-4	
8260 MSV									
Analytical Method: EPA 5030B/8260									
Acetone	150000	ug/L	2000		200		05/01/14 10:29	67-64-1	
Benzene	665	ug/L	200		200		05/01/14 10:29	71-43-2	
Bromodichloromethane	ND	ug/L	200		200		05/01/14 10:29	75-27-4	
Bromoform	ND	ug/L	200		200		05/01/14 10:29	75-25-2	
Bromomethane	ND	ug/L	1000		200		05/01/14 10:29	74-83-9	
2-Butanone (MEK)	70600	ug/L	2000		200		05/01/14 10:29	78-93-3	
Carbon tetrachloride	ND	ug/L	200		200		05/01/14 10:29	56-23-5	
Chloroethane	ND	ug/L	200		200		05/01/14 10:29	75-00-3	
Chloroform	ND	ug/L	200		200		05/01/14 10:29	67-66-3	
1,4-Dichlorobenzene	684	ug/L	200		200		05/01/14 10:29	106-46-7	
1,2-Dichloroethane	ND	ug/L	200		200		05/01/14 10:29	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	200		200		05/01/14 10:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	200		200		05/01/14 10:29	156-60-5	
Ethylbenzene	247	ug/L	200		200		05/01/14 10:29	100-41-4	
Methylene chloride	ND	ug/L	200		200		05/01/14 10:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2000		200		05/01/14 10:29	108-10-1	
1,1,2,2-Tetrachloroethane	ND	ug/L	200		200		05/01/14 10:29	79-34-5	

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167996

Sample: TCLP APR14		Lab ID: 60167996001		Collected: 04/26/14 13:50		Received: 04/28/14 13:30		Matrix: Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260							
Tetrachloroethene	ND	ug/L	200		200		05/01/14 10:29	127-18-4	
Toluene	ND	ug/L	200		200		05/01/14 10:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	200		200		05/01/14 10:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200		200		05/01/14 10:29	79-00-5	
Trichloroethene	ND	ug/L	200		200		05/01/14 10:29	79-01-6	
Vinyl chloride	ND	ug/L	200		200		05/01/14 10:29	75-01-4	
Xylene (Total)	825	ug/L	600		200		05/01/14 10:29	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		200		05/01/14 10:29	460-00-4	HS
1,2-Dichloroethane-d4 (S)	102	%	80-120		200		05/01/14 10:29	17060-07-0	
Toluene-d8 (S)	109	%	80-120		200		05/01/14 10:29	2037-26-5	
Preservation pH	5.0		0.10		200		05/01/14 10:29		pH
HEM, Oil and Grease		Analytical Method: EPA 1664A							
Oil and Grease	1210	mg/L	5.0		1		04/30/14 07:13		
2540B Total Solids		Analytical Method: SM 2540B							
Total Solids	39600	mg/L	5.0		1		04/29/14 15:29		

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ANALYTICAL RESULTS

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167996

Sample: TRIP BLANK		Lab ID: 60167996002		Collected: 04/26/14 00:00		Received: 04/28/14 13:30		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		05/01/14 09:32	67-64-1	
Benzene	ND	ug/L	1.0		1		05/01/14 09:32	71-43-2	
Bromodichloromethane	ND	ug/L	1.0		1		05/01/14 09:32	75-27-4	
Bromoform	ND	ug/L	1.0		1		05/01/14 09:32	75-25-2	
Bromomethane	ND	ug/L	5.0		1		05/01/14 09:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0		1		05/01/14 09:32	78-93-3	
Carbon tetrachloride	ND	ug/L	1.0		1		05/01/14 09:32	56-23-5	
Chloroethane	ND	ug/L	1.0		1		05/01/14 09:32	75-00-3	
Chloroform	ND	ug/L	1.0		1		05/01/14 09:32	67-66-3	
1,4-Dichlorobenzene	ND	ug/L	1.0		1		05/01/14 09:32	106-46-7	
1,2-Dichloroethane	ND	ug/L	1.0		1		05/01/14 09:32	107-06-2	
cis-1,2-Dichloroethene	ND	ug/L	1.0		1		05/01/14 09:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0		1		05/01/14 09:32	156-60-5	
Ethylbenzene	ND	ug/L	1.0		1		05/01/14 09:32	100-41-4	
Methylene chloride	ND	ug/L	1.0		1		05/01/14 09:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0		1		05/01/14 09:32	108-10-1	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1		05/01/14 09:32	79-34-5	
Tetrachloroethene	ND	ug/L	1.0		1		05/01/14 09:32	127-18-4	
Toluene	ND	ug/L	1.0		1		05/01/14 09:32	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0		1		05/01/14 09:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0		1		05/01/14 09:32	79-00-5	
Trichloroethene	ND	ug/L	1.0		1		05/01/14 09:32	79-01-6	
Vinyl chloride	ND	ug/L	1.0		1		05/01/14 09:32	75-01-4	
Xylene (Total)	ND	ug/L	3.0		1		05/01/14 09:32	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		05/01/14 09:32	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	80-120		1		05/01/14 09:32	17060-07-0	
Toluene-d8 (S)	105	%	80-120		1		05/01/14 09:32	2037-26-5	
Preservation pH	1.0		0.10		1		05/01/14 09:32		

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167996

QC Batch: MERP/8361

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury TCLP

Associated Lab Samples: 60167996001

METHOD BLANK: 1370451

Matrix: Water

Associated Lab Samples: 60167996001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/L	ND	0.0020	05/02/14 12:42	

LABORATORY CONTROL SAMPLE: 1370452

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	.005	0.0055	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1370453 1370454

Parameter	Units	60167429001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	.015	.015	0.016	0.014	102	94	75-125	8	20	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167996

QC Batch: MPRP/27071

Analysis Method: EPA 6010

QC Batch Method: EPA 3010

Analysis Description: 6010 MET TCLP

Associated Lab Samples: 60167996001

METHOD BLANK: 1370303

Matrix: Water

Associated Lab Samples: 60167996001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.50	05/02/14 09:08	
Barium	mg/L	ND	2.5	05/02/14 09:08	
Cadmium	mg/L	ND	0.050	05/02/14 09:08	
Chromium	mg/L	ND	0.10	05/02/14 09:08	
Lead	mg/L	ND	0.50	05/02/14 09:08	
Selenium	mg/L	ND	0.50	05/02/14 09:08	
Silver	mg/L	ND	0.10	05/02/14 09:08	

LABORATORY CONTROL SAMPLE: 1370304

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	1	0.92	92	80-120	
Barium	mg/L	1	0.94	94	80-120	
Cadmium	mg/L	1	0.94	94	80-120	
Chromium	mg/L	1	0.95	95	80-120	
Lead	mg/L	1	0.97	97	80-120	
Selenium	mg/L	1	0.94	94	80-120	
Silver	mg/L	.5	0.47	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1370305

1370306

Parameter	Units	60168013001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	10	10	9.2	9.0	92	90	75-125	2	20	
Barium	mg/L	ND	10	10	9.3	9.3	93	92	75-125	1	20	
Cadmium	mg/L	ND	10	10	9.3	9.2	93	92	75-125	2	20	
Chromium	mg/L	ND	10	10	9.6	9.3	96	92	75-125	3	20	
Lead	mg/L	ND	10	10	9.4	9.1	94	91	75-125	3	20	
Selenium	mg/L	ND	10	10	9.5	9.3	95	93	75-125	2	20	
Silver	mg/L	ND	5	5	4.8	4.7	96	94	75-125	2	20	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167996

QC Batch:	MSV/61300	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV TCLP
Associated Lab Samples:	60167996001		

METHOD BLANK: 1370292 Matrix: Water

Associated Lab Samples: 60167996001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	05/01/14 20:09	
1,2-Dichloroethane	ug/L	ND	50.0	05/01/14 20:09	
2-Butanone (MEK)	ug/L	ND	1000	05/01/14 20:09	
Benzene	ug/L	ND	50.0	05/01/14 20:09	
Carbon tetrachloride	ug/L	ND	50.0	05/01/14 20:09	
Chlorobenzene	ug/L	ND	50.0	05/01/14 20:09	
Chloroform	ug/L	ND	200	05/01/14 20:09	
Tetrachloroethene	ug/L	ND	50.0	05/01/14 20:09	
Trichloroethene	ug/L	ND	50.0	05/01/14 20:09	
Vinyl chloride	ug/L	ND	20.0	05/01/14 20:09	
1,2-Dichloroethane-d4 (S)	%	99	80-120	05/01/14 20:09	
4-Bromofluorobenzene (S)	%	97	80-120	05/01/14 20:09	
Toluene-d8 (S)	%	101	80-120	05/01/14 20:09	

LABORATORY CONTROL SAMPLE: 1370293

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	1000	977	98	78-126	
1,2-Dichloroethane	ug/L	1000	1060	106	77-123	
2-Butanone (MEK)	ug/L	5000	5040	101	52-145	
Benzene	ug/L	1000	1040	104	80-120	
Carbon tetrachloride	ug/L	1000	954	95	78-128	
Chlorobenzene	ug/L	1000	968	97	80-120	
Chloroform	ug/L	1000	1070	107	79-120	
Tetrachloroethene	ug/L	1000	963	96	80-121	
Trichloroethene	ug/L	1000	991	99	80-120	
Vinyl chloride	ug/L	1000	1030	103	59-120	
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			96	80-120	
Toluene-d8 (S)	%			104	80-120	

MATRIX SPIKE SAMPLE: 1370294

Parameter	Units	60167955001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	1000	817	82	60-144	
1,2-Dichloroethane	ug/L	ND	1000	965	97	49-148	
2-Butanone (MEK)	ug/L	ND	5000	4610	91	36-145	
Benzene	ug/L	ND	1000	888	89	37-157	
Carbon tetrachloride	ug/L	ND	1000	855	85	68-142	
Chlorobenzene	ug/L	ND	1000	891	89	66-133	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167996

MATRIX SPIKE SAMPLE:		1370294					
Parameter	Units	60167955001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloroform	ug/L	ND	1000	936	94	66-127	
Tetrachloroethene	ug/L	ND	1000	842	84	69-133	
Trichloroethene	ug/L	ND	1000	870	87	61-135	
Vinyl chloride	ug/L	ND	1000	814	81	44-128	
1,2-Dichloroethane-d4 (S)	%				98	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.: 60167996

QC Batch:	MSV/61259	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
Associated Lab Samples:	60167996001, 60167996002		

METHOD BLANK: 1369643 Matrix: Water

Associated Lab Samples: 60167996001, 60167996002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	05/01/14 09:18	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/01/14 09:18	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/01/14 09:18	
1,2-Dichloroethane	ug/L	ND	1.0	05/01/14 09:18	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/01/14 09:18	
2-Butanone (MEK)	ug/L	ND	10.0	05/01/14 09:18	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	05/01/14 09:18	
Acetone	ug/L	ND	10.0	05/01/14 09:18	
Benzene	ug/L	ND	1.0	05/01/14 09:18	
Bromodichloromethane	ug/L	ND	1.0	05/01/14 09:18	
Bromoform	ug/L	ND	1.0	05/01/14 09:18	
Bromomethane	ug/L	ND	5.0	05/01/14 09:18	
Carbon tetrachloride	ug/L	ND	1.0	05/01/14 09:18	
Chloroethane	ug/L	ND	1.0	05/01/14 09:18	
Chloroform	ug/L	ND	1.0	05/01/14 09:18	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/01/14 09:18	
Ethylbenzene	ug/L	ND	1.0	05/01/14 09:18	
Methylene chloride	ug/L	ND	1.0	05/01/14 09:18	
Tetrachloroethene	ug/L	ND	1.0	05/01/14 09:18	
Toluene	ug/L	ND	1.0	05/01/14 09:18	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/01/14 09:18	
Trichloroethene	ug/L	ND	1.0	05/01/14 09:18	
Vinyl chloride	ug/L	ND	1.0	05/01/14 09:18	
Xylene (Total)	ug/L	ND	3.0	05/01/14 09:18	
1,2-Dichloroethane-d4 (S)	%	96	80-120	05/01/14 09:18	
4-Bromofluorobenzene (S)	%	99	80-120	05/01/14 09:18	
Toluene-d8 (S)	%	102	80-120	05/01/14 09:18	

LABORATORY CONTROL SAMPLE: 1369644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.1	90	80-121	
1,1,2,2-Tetrachloroethane	ug/L	20	21.8	109	73-124	
1,1,2-Trichloroethane	ug/L	20	20.1	101	80-120	
1,2-Dichloroethane	ug/L	20	18.1	91	77-123	
1,4-Dichlorobenzene	ug/L	20	20.6	103	80-120	
2-Butanone (MEK)	ug/L	100	85.4	85	52-145	
4-Methyl-2-pentanone (MIBK)	ug/L	100	88.0	88	71-131	
Acetone	ug/L	100	90.0	90	32-155	
Benzene	ug/L	20	18.7	94	80-120	
Bromodichloromethane	ug/L	20	18.5	92	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167996

LABORATORY CONTROL SAMPLE: 1369644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	18.8	94	73-124	
Bromomethane	ug/L	20	20.8	104	31-144	
Carbon tetrachloride	ug/L	20	17.3	86	78-128	
Chloroethane	ug/L	20	18.6	93	55-137	
Chloroform	ug/L	20	17.7	88	79-120	
cis-1,2-Dichloroethene	ug/L	20	17.8	89	80-120	
Ethylbenzene	ug/L	20	19.7	98	80-121	
Methylene chloride	ug/L	20	17.1	86	73-126	
Tetrachloroethene	ug/L	20	20.9	105	80-121	
Toluene	ug/L	20	19.2	96	80-122	
trans-1,2-Dichloroethene	ug/L	20	19.1	96	79-121	
Trichloroethene	ug/L	20	19.3	97	80-120	
Vinyl chloride	ug/L	20	16.6	83	59-120	
Xylene (Total)	ug/L	60	60.0	100	80-121	
1,2-Dichloroethane-d4 (S)	%			96	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Toluene-d8 (S)	%			106	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167996

QC Batch:	OEXT/3821	Analysis Method:	EPA 8081
QC Batch Method:	EPA 3510	Analysis Description:	8081 GCS TCLP Pesticides
Associated Lab Samples:	60167996001		

METHOD BLANK: 73653 Matrix: Water

Associated Lab Samples: 60167996001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chlordane (Technical)	mg/L	ND	0.00050	05/02/14 18:15	
Endrin	mg/L	ND	0.000020	05/02/14 18:15	
gamma-BHC (Lindane)	mg/L	ND	0.000020	05/02/14 18:15	
Heptachlor	mg/L	ND	0.000020	05/02/14 18:15	
Heptachlor epoxide	mg/L	ND	0.000050	05/02/14 18:15	
Methoxychlor	mg/L	ND	0.000050	05/02/14 18:15	
Toxaphene	mg/L	ND	0.0010	05/02/14 18:15	
Decachlorobiphenyl (S)	%	78	40-140	05/02/14 18:15	
Tetrachloro-m-xylene (S)	%	73	40-140	05/02/14 18:15	

LABORATORY CONTROL SAMPLE: 73654

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlordane (Technical)	mg/L		ND			
Endrin	mg/L	.001	0.0012	116	40-140	
gamma-BHC (Lindane)	mg/L	.001	0.0010	101	40-140	
Heptachlor	mg/L	.001	0.0010	104	40-140	
Heptachlor epoxide	mg/L	.001	0.00094	94	40-140	
Methoxychlor	mg/L	.001	0.0012	115	40-140	
Toxaphene	mg/L		ND			
Decachlorobiphenyl (S)	%			102	40-140	
Tetrachloro-m-xylene (S)	%			92	40-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 73655 73656

Parameter	Units	60167996001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlordane (Technical)	mg/L	ND			ND	ND					40	
Endrin	mg/L	ND	.01	.01	0.029	0.029	286	287	40-140	0	40	M1
gamma-BHC (Lindane)	mg/L	ND	.01	.01	0.52	0.51	5190	5050	40-140	3	40	M1
Heptachlor	mg/L	ND	.01	.01	0.015	0.013	146	130	40-140	12	40	M1
Heptachlor epoxide	mg/L	ND	.01	.01	0.012	0.0099	124	99	40-140	22	40	
Methoxychlor	mg/L	ND	.01	.01	0.0071	0.012	71	121	40-140	52	40	R1
Toxaphene	mg/L	ND			ND	ND					40	
Decachlorobiphenyl (S)	%						29	37	40-140			S0
Tetrachloro-m-xylene (S)	%						71	71	40-140			

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167996

QC Batch:	OEXT/3817	Analysis Method:	EPA 8151
QC Batch Method:	EPA 8151	Analysis Description:	8151 GCS TCLP Herbicides
Associated Lab Samples:	60167996001		

METHOD BLANK: 73566 Matrix: Water

Associated Lab Samples: 60167996001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,5-TP (Silvex)	mg/L	ND	0.000050	05/02/14 19:39	
2,4-D	mg/L	ND	0.000050	05/02/14 19:39	
2,4-DCAA (S)	%.	89	40-140	05/02/14 19:39	

LABORATORY CONTROL SAMPLE: 73567

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,5-TP (Silvex)	mg/L	.002	0.0023	113	10-140	
2,4-D	mg/L	.002	0.0023	114	40-140	
2,4-DCAA (S)	%.			96	40-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 73568 73569

Parameter	Units	60167996001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4,5-TP (Silvex)	mg/L	ND	.02	.02	0.24	0.23	1190	1160	10-140	2	40	M6
2,4-D	mg/L	ND	.02	.02	0.40	0.78	2000	3880	40-140	64	40	M6, R1
2,4-DCAA (S)	%.						649	687	40-140			S4

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167996

QC Batch:	OEXT/43956	Analysis Method:	EPA 8270
QC Batch Method:	EPA 3510	Analysis Description:	8270 TCLP MSSV
Associated Lab Samples:	60167996001		

METHOD BLANK: 1370741 Matrix: Water

Associated Lab Samples: 60167996001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	100	05/03/14 16:03	
2,4,5-Trichlorophenol	ug/L	ND	500	05/03/14 16:03	
2,4,6-Trichlorophenol	ug/L	ND	100	05/03/14 16:03	
2,4-Dinitrotoluene	ug/L	ND	100	05/03/14 16:03	
2-Methylphenol(o-Cresol)	ug/L	ND	100	05/03/14 16:03	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	200	05/03/14 16:03	
Hexachloro-1,3-butadiene	ug/L	ND	100	05/03/14 16:03	
Hexachlorobenzene	ug/L	ND	100	05/03/14 16:03	
Hexachloroethane	ug/L	ND	100	05/03/14 16:03	
Nitrobenzene	ug/L	ND	100	05/03/14 16:03	
Pentachlorophenol	ug/L	ND	500	05/03/14 16:03	
Pyridine	ug/L	ND	100	05/03/14 16:03	
2,4,6-Tribromophenol (S)	%	98	36-128	05/03/14 16:03	
2-Fluorobiphenyl (S)	%	94	49-120	05/03/14 16:03	
2-Fluorophenol (S)	%	80	37-120	05/03/14 16:03	
Nitrobenzene-d5 (S)	%	93	44-120	05/03/14 16:03	
Phenol-d6 (S)	%	85	36-120	05/03/14 16:03	
Terphenyl-d14 (S)	%	101	52-122	05/03/14 16:03	

LABORATORY CONTROL SAMPLE: 1370742

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	500	370	74	47-120	
2,4,5-Trichlorophenol	ug/L	500	437J	87	51-124	
2,4,6-Trichlorophenol	ug/L	500	416	83	46-120	
2,4-Dinitrotoluene	ug/L	500	354	71	38-120	
2-Methylphenol(o-Cresol)	ug/L	500	368	74	46-120	
3&4-Methylphenol(m&p Cresol)	ug/L	1000	756	76	41-120	
Hexachloro-1,3-butadiene	ug/L	500	346	69	49-120	
Hexachlorobenzene	ug/L	500	407	81	50-120	
Hexachloroethane	ug/L	500	353	71	38-120	
Nitrobenzene	ug/L	500	375	75	49-120	
Pentachlorophenol	ug/L	500	440J	88	35-125	
Pyridine	ug/L	500	260	52	10-120	
2,4,6-Tribromophenol (S)	%			85	36-128	
2-Fluorobiphenyl (S)	%			77	49-120	
2-Fluorophenol (S)	%			67	37-120	
Nitrobenzene-d5 (S)	%			74	44-120	
Phenol-d6 (S)	%			67	36-120	
Terphenyl-d14 (S)	%			89	52-122	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167996

MATRIX SPIKE SAMPLE:		1370743					
Parameter	Units	60167980001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	500	402	80	48-120	
2,4,5-Trichlorophenol	ug/L	ND	500	459J	92	57-120	
2,4,6-Trichlorophenol	ug/L	ND	500	443	89	48-120	
2,4-Dinitrotoluene	ug/L	ND	500	361	72	38-120	
2-Methylphenol(o-Cresol)	ug/L	ND	500	420	84	48-120	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	1000	867	87	47-120	
Hexachloro-1,3-butadiene	ug/L	ND	500	383	77	49-120	
Hexachlorobenzene	ug/L	ND	500	415	83	53-120	
Hexachloroethane	ug/L	ND	500	401	80	38-120	
Nitrobenzene	ug/L	ND	500	393	79	51-120	
Pentachlorophenol	ug/L	ND	500	418J	84	34-131	
Pyridine	ug/L	ND	500	268	54	10-120	
2,4,6-Tribromophenol (S)	%				83	36-128	
2-Fluorobiphenyl (S)	%				82	49-120	
2-Fluorophenol (S)	%				77	37-120	
Nitrobenzene-d5 (S)	%				77	44-120	
Phenol-d6 (S)	%				79	36-120	
Terphenyl-d14 (S)	%				89	52-122	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167996

QC Batch: WET/47597

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60167996001

METHOD BLANK: 1369206

Matrix: Water

Associated Lab Samples: 60167996001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	04/30/14 07:09	

LABORATORY CONTROL SAMPLE: 1369207

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.7	99	78-114	

MATRIX SPIKE SAMPLE: 1369208

Parameter	Units	60167679002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40.4	41.9	101	78-114	

SAMPLE DUPLICATE: 1369209

Parameter	Units	60167698002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	.93J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167996

QC Batch:	WET/47582	Analysis Method:	SM 2540B
QC Batch Method:	SM 2540B	Analysis Description:	2540B Total Solids
Associated Lab Samples:	60167996001		

METHOD BLANK: 1368770 Matrix: Water

Associated Lab Samples: 60167996001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	5.0	04/29/14 15:28	

LABORATORY CONTROL SAMPLE: 1368771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	1000	990	99	80-120	

SAMPLE DUPLICATE: 1368772

Parameter	Units	60167931001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	670	670	0	10	

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QUALIFIERS

Project: BRIDGETON UNTREATED COMMINGLED
Pace Project No.: 60167996

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/61259

[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.
M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
R1 RPD value was outside control limits.
S0 Surrogate recovery outside laboratory control limits.
S4 Surrogate recovery not evaluated against control limits due to sample dilution.
pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON UNTREATED COMMINGLED

Pace Project No.: 60167996

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60167996001	TCLP APR14	EPA 3510	OEXT/3821	EPA 8081	GCSV/2501
60167996001	TCLP APR14	EPA 8151	OEXT/3817	EPA 8151	GCSV/2503
60167996001	TCLP APR14	EPA 3010	MPRP/27071	EPA 6010	ICP/20536
60167996001	TCLP APR14	EPA 7470	MERP/8361	EPA 7470	MERC/8316
60167996001	TCLP APR14	EPA 3510	OEXT/43956	EPA 8270	MSSV/14048
60167996001	TCLP APR14	EPA 8260	MSV/61300		
60167996001	TCLP APR14	EPA 5030B/8260	MSV/61259		
60167996002	TRIP BLANK	EPA 5030B/8260	MSV/61259		
60167996001	TCLP APR14	EPA 1664A	WET/47597		
60167996001	TCLP APR14	SM 2540B	WET/47582		

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Sample Condition Upon Receipt

WO#: 60167996



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 Bag ☒ Foam ☐ None ☐ Other ☒ Zip

Thermometer Used: T-239 / T-194

Type of Ice: Wet Blue None ☐ Samples received on ice, cooling process has begun.

Cooler Temperature: 38

Date and initials of person examining contents: _____

Temperature should be above freezing to 6°C

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

Date: 4/24/14

Section A

Required Client Information:

Company: **BARR ENGINEERING**

Address:

Email To:

Phone: Fax:

Requested Due Date/TAT:

Section B

Required Project Information:

Report To: **ED GALBRAITH/BARR**

Copy To: **SCOTT FEDAK/FEEZOR**
DANA BAKER/MARGARET TREANOR-BARR

Purchase Order No.: **PO 3727110**

Project Name: **BRIDGETON UNTREATED COMMINGLED**

Project Number:

Section C

Invoice Information:

Attention: **AMY HARGROVE/BRIAN POWER**

Company Name: **REPUBLIC SERVICES**

Address: **BRIDGETON, MO 63044**

Pace Quote Reference:

Pace Project Manager: **Angie Brown 913-563-1402**

Pace Profile #: **PROFILE 6787-LINE 6**

REGULATORY AGENCY

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

Site Location: **MO**

STATE: **MO**

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test↓	Y/N↑																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	<i>[Signature]</i>	4-28-14		<i>Bill Stoe</i>	4-28-14	8:05				
				<i>Shirley McKen / NAST</i>	4/28	1330	3.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: *Hunter King*

SIGNATURE of SAMPLER: *Hunter King* DATE Signed (MM/DD/YY): *4/26/14*

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

Pace Analytical®
www.pacelabs.com

Workorder Name: BRIDGETON UNTREATED COMMINGLED Owner Received Date: 4/28/2014 Results Requested By: 5/5/2014

[illegible]

1001

WO#: 7514655



7514655



Sample Condition Upon Receipt
Dallas

Client Name: Pace Kansas Project Work order: 7514655

Courier: FedEX ☒ UPS ☐ USPS ☐ Client ☐ Courier ☐ LSO ☐ PACE ☐ Other: _____

Tracking#: 5689 1283 5303

Custody Seal on Cooler/Box: Yes ☒ No ☐ Seals Intact: Yes ☒ No ☐ NA ☐

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

Thermometer Used: (R-01) Type of Ice: Wet ☒ Blue ☐ None ☐ Sample Received on ice, cooling process has begun ☒

Cooler Temp: 5.8°C (Temp should be above freezing to 6°C)

Chain of Custody Present	Yes ☒ No ☐ NA ☐	1
Chain of Custody filled out	Yes ☒ No ☐ NA ☐	2
Chain of Custody relinquished	Yes ☒ No ☐ NA ☐	3
Sampler name & signature on COC	Yes ☐ No ☒ NA ☐	4
Sample received within HT	Yes ☒ No ☐ NA ☐	5
Short HT analyses (<72 hrs)	Yes ☐ No ☒ NA ☐	6
Rush TAT requested	Yes ☒ No ☐ NA ☐	7
Sufficient Volume received	Yes ☒ No ☐ NA ☐	8
Correct Container used	Yes ☒ No ☐ NA ☐	9
Pace Container used	Yes ☒ No ☐ NA ☐	
Container Intact	Yes ☒ No ☐ NA ☐	10
Unpreserved 5035A soil frozen within 48 hrs	Yes ☐ No ☐ NA ☒	11
Filtered volume received for Dissolved tests	Yes ☐ No ☐ NA ☒	12
Sample labels match COC	Yes ☒ No ☐ NA ☐	13
Include date/time/ID/analyses	Matrix: <u>water</u>	
All containers needing preservation have been checked	Yes ☐ No ☐ NA ☒	14a. Lot# of pH strip: _____ pH checked Yes ☐ No ☐ pH<2 ☐ pH>9 ☐ pH>12 ☐ Lot# of Iodine strip: _____ Lot# of Lead Acetate strip: _____
Do containers require preservation at the lab	Yes ☐ No ☐ NA ☒	14b. Preservation: _____ Lot#: _____
All containers needing preservation are found to be in Compliance with EPA recommendation	Yes ☐ No ☐ NA ☒	14c. _____
Exception: VOA, coliform, O&G	Yes ☐ No ☒	
Trip Blank present	Yes ☐ No ☐ NA ☒	15
Trip Blank Custody Seals Intact	Yes ☐ No ☐ NA ☒	
Pace Trip Blank Lot# (if purchased):		
Headspace in VOA (>6mm)	Yes ☐ No ☐ NA ☒	16
Project sampled in USDA Regulated Area:	Yes ☐ No ☐ NA ☒	17. List State _____

Client Notification/Resolution/Comments:

Person Contacted: _____ Date: _____

Comments/Resolution: _____

Person Examining Contents: mm Date: 5-1-14

Sample Container Count



COC PAGE 1 of 1
COC ID# _____

Pace Project # 7514655

Sample Line Item	BP2N	AG1U	VG9U	VG9H	BP2S	BP1U	BP2U	BG1H	AG1S	BP2O	SP5T	WGFU	WGKU	Comments
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 unpreserved	SP5T	120mL Coliform Na Thiosulfate	SP5U	120mL Coliform unpreserved	GN	General unpreserved
Other	Other						

May 07, 2014

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

RE: Project: BRIDGETON LF CB 4-29-14
Pace Project No.: 60168079

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 30, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF CB 4-29-14

Pace Project No.: 60168079

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 CB 4-29-14

Pace Project No.: 60168079

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60168079001	CB 4-29-14	Water	04/29/14 12:30	04/30/14 02:20
60168079002	TRIP BLANK	Water	04/29/14 12:30	04/30/14 02:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF CB 4-29-14

Pace Project No.: 60168079

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60168079001	CB 4-29-14	EPA 200.7	NDJ	15
		EPA 200.7	SMW	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
60168079002	TRIP BLANK	EPA 624 Low	EAK	28

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 4-29-14

Pace Project No.: 60168079

Sample: CB 4-29-14		Lab ID: 60168079001	Collected: 04/29/14 12:30	Received: 04/30/14 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	11500	ug/L	750	2	05/01/14 16:30	05/02/14 16:20	7429-90-5	
Antimony	63.1	ug/L	50.0	1	05/01/14 16:30	05/02/14 16:17	7440-36-0	
Arsenic	1100	ug/L	50.0	1	05/01/14 16:30	05/02/14 16:17	7440-38-2	
Beryllium	ND	ug/L	5.0	1	05/01/14 16:30	05/02/14 16:17	7440-41-7	
Cadmium	ND	ug/L	25.0	1	05/01/14 16:30	05/02/14 16:17	7440-43-9	
Chromium	247	ug/L	25.0	1	05/01/14 16:30	05/02/14 16:17	7440-47-3	
Cobalt	43.4	ug/L	25.0	1	05/01/14 16:30	05/02/14 16:17	7440-48-4	
Copper	1920	ug/L	50.0	1	05/01/14 16:30	05/02/14 16:17	7440-50-8	
Iron	776000	ug/L	250	1	05/01/14 16:30	05/02/14 16:17	7439-89-6	
Lead	431	ug/L	25.0	1	05/01/14 16:30	05/02/14 16:17	7439-92-1	
Nickel	131	ug/L	25.0	1	05/01/14 16:30	05/02/14 16:17	7440-02-0	
Selenium	ND	ug/L	75.0	1	05/01/14 16:30	05/02/14 16:17	7782-49-2	
Silver	ND	ug/L	35.0	1	05/01/14 16:30	05/02/14 16:17	7440-22-4	
Thallium	ND	ug/L	100	1	05/01/14 16:30	05/02/14 16:17	7440-28-0	
Zinc	7150	ug/L	500	2	05/01/14 16:30	05/02/14 16:20	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1300	ug/L	750	2	05/02/14 15:50	05/06/14 11:20	7429-90-5	
Antimony, Dissolved	ND	ug/L	100	2	05/02/14 15:50	05/06/14 11:20	7440-36-0	D3
Arsenic, Dissolved	764	ug/L	50.0	1	05/02/14 15:50	05/06/14 11:16	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	05/02/14 15:50	05/06/14 11:16	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	05/02/14 15:50	05/06/14 11:16	7440-43-9	
Chromium, Dissolved	160	ug/L	25.0	1	05/02/14 15:50	05/06/14 11:16	7440-47-3	
Cobalt, Dissolved	ND	ug/L	25.0	1	05/02/14 15:50	05/06/14 11:16	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	05/02/14 15:50	05/06/14 11:16	7440-50-8	
Iron, Dissolved	326000	ug/L	250	1	05/02/14 15:50	05/06/14 11:16	7439-89-6	M1
Lead, Dissolved	32.5	ug/L	25.0	1	05/02/14 15:50	05/06/14 11:16	7439-92-1	
Nickel, Dissolved	88.4	ug/L	25.0	1	05/02/14 15:50	05/06/14 11:16	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	05/02/14 15:50	05/06/14 11:16	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	05/02/14 15:50	05/06/14 11:16	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	05/02/14 15:50	05/06/14 11:16	7440-28-0	
Zinc, Dissolved	4620	ug/L	500	2	05/02/14 15:50	05/06/14 11:20	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	29.7	ug/L	6.0	1	05/02/14 15:45	05/05/14 12:19	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND	ug/L	6.0	1	05/06/14 17:00	05/07/14 10:41	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	05/05/14 00:00	05/06/14 09:53	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	05/05/14 00:00	05/06/14 09:53	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	05/05/14 00:00	05/06/14 09:53	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	05/05/14 00:00	05/06/14 09:53	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	2	05/05/14 00:00	05/06/14 09:53	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	9780	ug/L	4000	2	05/05/14 00:00	05/06/14 09:53		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 4-29-14

Pace Project No.: 60168079

Sample: CB 4-29-14		Lab ID: 60168079001	Collected: 04/29/14 12:30	Received: 04/30/14 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						
Naphthalene	1820 ug/L		1000	2	05/05/14 00:00	05/06/14 09:53	91-20-3	
Nitrobenzene	ND ug/L		1000	2	05/05/14 00:00	05/06/14 09:53	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	05/05/14 00:00	05/06/14 09:53	87-86-5	
Phenol	13200 ug/L		1000	2	05/05/14 00:00	05/06/14 09:53	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	05/05/14 00:00	05/06/14 09:53	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	05/05/14 00:00	05/06/14 09:53	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	150 %		33-120	2	05/05/14 00:00	05/06/14 09:53	4165-60-0	S0
2-Fluorobiphenyl (S)	74 %		39-120	2	05/05/14 00:00	05/06/14 09:53	321-60-8	
Terphenyl-d14 (S)	71 %		45-120	2	05/05/14 00:00	05/06/14 09:53	1718-51-0	
Phenol-d6 (S)	50 %		11-120	2	05/05/14 00:00	05/06/14 09:53	13127-88-3	
2-Fluorophenol (S)	43 %		17-120	2	05/05/14 00:00	05/06/14 09:53	367-12-4	
2,4,6-Tribromophenol (S)	78 %		39-120	2	05/05/14 00:00	05/06/14 09:53	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	164000 ug/L		2500	250		04/30/14 16:12	67-64-1	N2
Benzene	ND ug/L		250	250		04/30/14 16:12	71-43-2	
Bromodichloromethane	ND ug/L		250	250		04/30/14 16:12	75-27-4	
Bromoform	ND ug/L		250	250		04/30/14 16:12	75-25-2	
Bromomethane	ND ug/L		1250	250		04/30/14 16:12	74-83-9	
2-Butanone (MEK)	66600 ug/L		2500	250		04/30/14 16:12	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		04/30/14 16:12	56-23-5	
Chloroethane	ND ug/L		250	250		04/30/14 16:12	75-00-3	
Chloroform	ND ug/L		250	250		04/30/14 16:12	67-66-3	
1,4-Dichlorobenzene	593 ug/L		250	250		04/30/14 16:12	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		04/30/14 16:12	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		04/30/14 16:12	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		04/30/14 16:12	156-60-5	
Ethylbenzene	ND ug/L		250	250		04/30/14 16:12	100-41-4	
Methylene chloride	ND ug/L		250	250		04/30/14 16:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		04/30/14 16:12	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		04/30/14 16:12	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		04/30/14 16:12	127-18-4	
Toluene	ND ug/L		250	250		04/30/14 16:12	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		04/30/14 16:12	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		04/30/14 16:12	79-00-5	
Trichloroethene	ND ug/L		250	250		04/30/14 16:12	79-01-6	
Vinyl chloride	ND ug/L		250	250		04/30/14 16:12	75-01-4	
Xylene (Total)	ND ug/L		750	250		04/30/14 16:12	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	103 %		80-120	250		04/30/14 16:12	460-00-4	
Toluene-d8 (S)	102 %		80-120	250		04/30/14 16:12	2037-26-5	
1,2-Dichloroethane-d4 (S)	112 %		80-120	250		04/30/14 16:12	17060-07-0	
Preservation pH	6.0		1.0	250		04/30/14 16:12		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	824 mg/L		5.0	1		05/02/14 07:15		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 4-29-14

Pace Project No.: 60168079

Sample: CB 4-29-14		Lab ID: 60168079001	Collected: 04/29/14 12:30	Received: 04/30/14 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	9.6	mg/L	5.0	1		05/06/14 07:13		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	5160	mg/L	5.0	1		04/30/14 10:34		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.3	Std. Units	0.10	1		05/01/14 13:50		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	37200	mg/L	200	100	04/30/14 15:13	05/05/14 18:06		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	557	mg/L	20.0	200		05/01/14 15:36	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	59600	mg/L	5000	500		05/07/14 11:04		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 4-29-14

Pace Project No.: 60168079

Sample: TRIP BLANK		Lab ID: 60168079002	Collected: 04/29/14 12:30	Received: 04/30/14 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		04/30/14 14:53	67-64-1	N2
Benzene	ND ug/L		1.0	1		04/30/14 14:53	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		04/30/14 14:53	75-27-4	
Bromoform	ND ug/L		1.0	1		04/30/14 14:53	75-25-2	
Bromomethane	ND ug/L		5.0	1		04/30/14 14:53	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		04/30/14 14:53	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		04/30/14 14:53	56-23-5	
Chloroethane	ND ug/L		1.0	1		04/30/14 14:53	75-00-3	
Chloroform	ND ug/L		1.0	1		04/30/14 14:53	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		04/30/14 14:53	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		04/30/14 14:53	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		04/30/14 14:53	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		04/30/14 14:53	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		04/30/14 14:53	100-41-4	
Methylene chloride	ND ug/L		1.0	1		04/30/14 14:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		04/30/14 14:53	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		04/30/14 14:53	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		04/30/14 14:53	127-18-4	
Toluene	ND ug/L		1.0	1		04/30/14 14:53	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		04/30/14 14:53	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		04/30/14 14:53	79-00-5	
Trichloroethene	ND ug/L		1.0	1		04/30/14 14:53	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		04/30/14 14:53	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		04/30/14 14:53	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	100 %		80-120	1		04/30/14 14:53	460-00-4	
Toluene-d8 (S)	104 %		80-120	1		04/30/14 14:53	2037-26-5	
1,2-Dichloroethane-d4 (S)	99 %		80-120	1		04/30/14 14:53	17060-07-0	
Preservation pH	6.0		1.0	1		04/30/14 14:53		

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 4-29-14

Pace Project No.: 60168079

QC Batch: MERP/8363

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60168079001

METHOD BLANK: 1371318

Matrix: Water

Associated Lab Samples: 60168079001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/05/14 12:15	

LABORATORY CONTROL SAMPLE: 1371319

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.4	88	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1371320 1371321

Parameter	Units	60168079001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	29.7	150	150	179	171	100	94	70-130	5	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 4-29-14

Pace Project No.: 60168079

QC Batch: MERP/8371

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60168079001

METHOD BLANK: 1373053

Matrix: Water

Associated Lab Samples: 60168079001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	05/07/14 10:36	

LABORATORY CONTROL SAMPLE: 1373054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.1	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1373055 1373056

Parameter	Units	60168186001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	120	121	80	81	70-130	1	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 4-29-14

Pace Project No.: 60168079

QC Batch: MPRP/27077

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Associated Lab Samples: 60168079001

METHOD BLANK: 1370535

Matrix: Water

Associated Lab Samples: 60168079001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	05/02/14 15:51	
Antimony	ug/L	ND	10.0	05/02/14 15:51	
Arsenic	ug/L	ND	10.0	05/02/14 15:51	
Beryllium	ug/L	ND	1.0	05/02/14 15:51	
Cadmium	ug/L	ND	5.0	05/02/14 15:51	
Chromium	ug/L	ND	5.0	05/02/14 15:51	
Cobalt	ug/L	ND	5.0	05/02/14 15:51	
Copper	ug/L	ND	10.0	05/02/14 15:51	
Iron	ug/L	ND	50.0	05/02/14 15:51	
Lead	ug/L	ND	5.0	05/02/14 15:51	
Nickel	ug/L	ND	5.0	05/02/14 15:51	
Selenium	ug/L	ND	15.0	05/02/14 15:51	
Silver	ug/L	ND	7.0	05/02/14 15:51	
Thallium	ug/L	ND	20.0	05/02/14 15:51	
Zinc	ug/L	ND	50.0	05/02/14 15:51	

LABORATORY CONTROL SAMPLE: 1370536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10400	104	85-115	
Antimony	ug/L	1000	1020	102	85-115	
Arsenic	ug/L	1000	978	98	85-115	
Beryllium	ug/L	1000	1050	105	85-115	
Cadmium	ug/L	1000	996	100	85-115	
Chromium	ug/L	1000	1040	104	85-115	
Cobalt	ug/L	1000	1050	105	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	10400	104	85-115	
Lead	ug/L	1000	1050	105	85-115	
Nickel	ug/L	1000	1050	105	85-115	
Selenium	ug/L	1000	1020	102	85-115	
Silver	ug/L	500	507	101	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	1040	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1370537

1370538

Parameter	Units	60167825001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	1780	10000	10000	12900	13400	111	116	70-130	4	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 4-29-14

Pace Project No.: 60168079

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1370537 1370538											
Parameter	Units	60167825001		MS	MSD	1370538		MS	MSD	% Rec	Max
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	RPD
Antimony	ug/L	ND	1000	1000	1000	978	1020	98	102	70-130	4
Arsenic	ug/L	ND	1000	1000	1000	951	991	95	99	70-130	4
Beryllium	ug/L	ND	1000	1000	1000	1000	1040	100	104	70-130	4
Cadmium	ug/L	ND	1000	1000	1000	950	984	95	98	70-130	4
Chromium	ug/L	6.4	1000	1000	1000	984	1020	98	102	70-130	4
Cobalt	ug/L	ND	1000	1000	1000	990	1030	99	103	70-130	4
Copper	ug/L	710	1000	1000	1000	1680	1760	97	104	70-130	4
Iron	ug/L	1930	10000	10000	10000	11800	12300	99	104	70-130	4
Lead	ug/L	ND	1000	1000	1000	989	1030	99	103	70-130	4
Nickel	ug/L	ND	1000	1000	1000	990	1020	99	102	70-130	3
Selenium	ug/L	ND	1000	1000	1000	983	1020	98	102	70-130	4
Silver	ug/L	ND	500	500	500	482	501	96	100	70-130	4
Thallium	ug/L	ND	1000	1000	1000	953	988	95	99	70-130	4
Zinc	ug/L	92.5	1000	1000	1000	1070	1100	98	101	70-130	3

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 4-29-14
Pace Project No.: 60168079

QC Batch: MPRP/27096 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60168079001

METHOD BLANK: 1371162 Matrix: Water
Associated Lab Samples: 60168079001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	05/06/14 11:07	
Antimony, Dissolved	ug/L	ND	10.0	05/06/14 11:07	
Arsenic, Dissolved	ug/L	ND	10.0	05/06/14 11:07	
Beryllium, Dissolved	ug/L	ND	1.0	05/06/14 11:07	
Cadmium, Dissolved	ug/L	ND	5.0	05/06/14 11:07	
Chromium, Dissolved	ug/L	ND	5.0	05/06/14 11:07	
Cobalt, Dissolved	ug/L	ND	5.0	05/06/14 11:07	
Copper, Dissolved	ug/L	ND	10.0	05/06/14 11:07	
Iron, Dissolved	ug/L	ND	50.0	05/06/14 11:07	
Lead, Dissolved	ug/L	ND	5.0	05/06/14 11:07	
Nickel, Dissolved	ug/L	ND	5.0	05/06/14 11:07	
Selenium, Dissolved	ug/L	ND	15.0	05/06/14 11:07	
Silver, Dissolved	ug/L	ND	7.0	05/06/14 11:07	
Thallium, Dissolved	ug/L	ND	20.0	05/06/14 11:07	
Zinc, Dissolved	ug/L	ND	50.0	05/06/14 11:07	

LABORATORY CONTROL SAMPLE: 1371163

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10300	103	85-115	
Antimony, Dissolved	ug/L	1000	1030	103	85-115	
Arsenic, Dissolved	ug/L	1000	986	99	85-115	
Beryllium, Dissolved	ug/L	1000	1030	103	85-115	
Cadmium, Dissolved	ug/L	1000	1010	101	85-115	
Chromium, Dissolved	ug/L	1000	1010	101	85-115	
Cobalt, Dissolved	ug/L	1000	1020	102	85-115	
Copper, Dissolved	ug/L	1000	1000	100	85-115	
Iron, Dissolved	ug/L	10000	10300	103	85-115	
Lead, Dissolved	ug/L	1000	1020	102	85-115	
Nickel, Dissolved	ug/L	1000	1030	103	85-115	
Selenium, Dissolved	ug/L	1000	1020	102	85-115	
Silver, Dissolved	ug/L	500	498	100	85-115	
Thallium, Dissolved	ug/L	1000	1010	101	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1371164 1371165

Parameter	Units	60168079001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	1300	50000	50000	52000	51200	101	100	70-130	1	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 4-29-14

Pace Project No.: 60168079

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1371164 1371165												
Parameter	Units	60168079001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Antimony, Dissolved	ug/L	ND	5000	5000	5200	5130	104	102	70-130	2	7	
Arsenic, Dissolved	ug/L	764	5000	5000	5760	5680	100	98	70-130	1	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	4910	4860	98	97	70-130	1	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5100	5020	102	100	70-130	2	10	
Chromium, Dissolved	ug/L	160	5000	5000	5020	4950	97	96	70-130	1	10	
Cobalt, Dissolved	ug/L	ND	5000	5000	4850	4780	97	95	70-130	1	6	
Copper, Dissolved	ug/L	ND	5000	5000	5260	5180	104	103	70-130	1	11	
Iron, Dissolved	ug/L	326000	50000	50000	322000	314000	-9	-24	70-130	2	10	M1
Lead, Dissolved	ug/L	32.5	5000	5000	4700	4640	93	92	70-130	1	10	
Nickel, Dissolved	ug/L	88.4	5000	5000	4870	4830	96	95	70-130	1	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5500	5470	109	108	70-130	1	10	
Silver, Dissolved	ug/L	ND	2500	2500	2610	2580	104	103	70-130	1	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4500	4420	90	88	70-130	2	6	
Zinc, Dissolved	ug/L	4620	5000	5000	8630	8500	80	77	70-130	2	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 4-29-14

Pace Project No.: 60168079

QC Batch: MSV/61249 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60168079001, 60168079002

METHOD BLANK: 1369553

Matrix: Water

Associated Lab Samples: 60168079001, 60168079002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	04/30/14 13:35	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	04/30/14 13:35	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	04/30/14 13:35	
1,2-Dichloroethane	ug/L	ND	1.0	04/30/14 13:35	
1,4-Dichlorobenzene	ug/L	ND	1.0	04/30/14 13:35	
2-Butanone (MEK)	ug/L	ND	10.0	04/30/14 13:35	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/30/14 13:35	N2
Acetone	ug/L	ND	10.0	04/30/14 13:35	N2
Benzene	ug/L	ND	1.0	04/30/14 13:35	
Bromodichloromethane	ug/L	ND	1.0	04/30/14 13:35	
Bromoform	ug/L	ND	1.0	04/30/14 13:35	
Bromomethane	ug/L	ND	5.0	04/30/14 13:35	
Carbon tetrachloride	ug/L	ND	1.0	04/30/14 13:35	
Chloroethane	ug/L	ND	1.0	04/30/14 13:35	
Chloroform	ug/L	ND	1.0	04/30/14 13:35	
cis-1,2-Dichloroethene	ug/L	ND	1.0	04/30/14 13:35	N2
Ethylbenzene	ug/L	ND	1.0	04/30/14 13:35	
Methylene chloride	ug/L	ND	1.0	04/30/14 13:35	
Tetrachloroethene	ug/L	ND	1.0	04/30/14 13:35	
Toluene	ug/L	ND	1.0	04/30/14 13:35	
trans-1,2-Dichloroethene	ug/L	ND	1.0	04/30/14 13:35	
Trichloroethene	ug/L	ND	1.0	04/30/14 13:35	
Vinyl chloride	ug/L	ND	1.0	04/30/14 13:35	
Xylene (Total)	ug/L	ND	3.0	04/30/14 13:35	N2
1,2-Dichloroethane-d4 (S)	%	99	80-120	04/30/14 13:35	
4-Bromofluorobenzene (S)	%	102	80-120	04/30/14 13:35	
Toluene-d8 (S)	%	101	80-120	04/30/14 13:35	

LABORATORY CONTROL SAMPLE: 1369554

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.1	100	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.0	95	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.0	95	67-124	
1,2-Dichloroethane	ug/L	20	20.4	102	70-126	
1,4-Dichlorobenzene	ug/L	20	19.1	95	74-120	
2-Butanone (MEK)	ug/L	100	95.8	96	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	105	105	59-131	N2
Acetone	ug/L	100	93.4	93	38-134	N2
Benzene	ug/L	20	19.2	96	75-120	
Bromodichloromethane	ug/L	20	20.2	101	68-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 4-29-14

Pace Project No.: 60168079

LABORATORY CONTROL SAMPLE: 1369554

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	17.7	88	65-127	
Bromomethane	ug/L	20	16.6	83	13-157	
Carbon tetrachloride	ug/L	20	20.1	100	70-131	
Chloroethane	ug/L	20	19.9	99	47-133	
Chloroform	ug/L	20	19.9	99	65-127	
cis-1,2-Dichloroethene	ug/L	20	20.2	101	68-127	N2
Ethylbenzene	ug/L	20	19.8	99	74-122	
Methylene chloride	ug/L	20	20.8	104	64-129	
Tetrachloroethene	ug/L	20	18.2	91	73-125	
Toluene	ug/L	20	19.5	97	69-126	
trans-1,2-Dichloroethene	ug/L	20	19.5	98	66-129	
Trichloroethene	ug/L	20	19.2	96	71-123	
Vinyl chloride	ug/L	20	18.5	92	43-129	
Xylene (Total)	ug/L	60	62.6	104	75-121	N2
1,2-Dichloroethane-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Toluene-d8 (S)	%			100	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 4-29-14

Pace Project No.: 60168079

QC Batch: OEXT/43987

Analysis Method: EPA 625

QC Batch Method: EPA 625

Analysis Description: 625 MSS

Associated Lab Samples: 60168079001

METHOD BLANK: 1371975

Matrix: Water

Associated Lab Samples: 60168079001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/06/14 09:12	
2,4,6-Trichlorophenol	ug/L	ND	5.0	05/06/14 09:12	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	05/06/14 09:12	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	05/06/14 09:12	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	05/06/14 09:12	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/06/14 09:12	
Hexachlorocyclopentadiene	ug/L	ND	5.0	05/06/14 09:12	
Hexachloroethane	ug/L	ND	5.0	05/06/14 09:12	
Naphthalene	ug/L	ND	5.0	05/06/14 09:12	
Nitrobenzene	ug/L	ND	5.0	05/06/14 09:12	
Pentachlorophenol	ug/L	ND	5.0	05/06/14 09:12	
Phenol	ug/L	ND	5.0	05/06/14 09:12	
2,4,6-Tribromophenol (S)	%	69	39-120	05/06/14 09:12	
2-Fluorobiphenyl (S)	%	68	39-120	05/06/14 09:12	
2-Fluorophenol (S)	%	42	17-120	05/06/14 09:12	
Nitrobenzene-d5 (S)	%	67	33-120	05/06/14 09:12	
Phenol-d6 (S)	%	26	11-120	05/06/14 09:12	
Terphenyl-d14 (S)	%	70	45-120	05/06/14 09:12	

LABORATORY CONTROL SAMPLE: 1371976

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	36.3	73	46-120	
2,4,6-Trichlorophenol	ug/L	50	36.4	73	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	32.3	65	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	30.0	60	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	43.6	87	40-133	
Hexachloro-1,3-butadiene	ug/L	50	32.5	65	44-116	
Hexachlorocyclopentadiene	ug/L	100	57.4	57	24-120	
Hexachloroethane	ug/L	50	34.3	69	43-113	
Naphthalene	ug/L	50	37.2	74	48-120	
Nitrobenzene	ug/L	50	37.0	74	48-120	
Pentachlorophenol	ug/L	50	40.1	80	47-120	
Phenol	ug/L	50	16.2	32	16-112	
2,4,6-Tribromophenol (S)	%			85	39-120	
2-Fluorobiphenyl (S)	%			74	39-120	
2-Fluorophenol (S)	%			45	17-120	
Nitrobenzene-d5 (S)	%			76	33-120	
Phenol-d6 (S)	%			30	11-120	
Terphenyl-d14 (S)	%			82	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 4-29-14

Pace Project No.: 60168079

MATRIX SPIKE SAMPLE:		1371977					
Parameter	Units	60168161002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	33.6	67	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	37.7	75	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	50	30.8	62	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	28.3	57	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	50	42.6	85	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	33.0	66	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	59.0	59	11-120	
Hexachloroethane	ug/L	ND	50	32.4	65	40-113	
Naphthalene	ug/L	ND	50	35.8	72	45-120	
Nitrobenzene	ug/L	ND	50	34.8	70	38-120	
Pentachlorophenol	ug/L	ND	50	40.8	82	43-135	
Phenol	ug/L	ND	50	14.5	29	13-112	
2,4,6-Tribromophenol (S)	%				86	39-120	
2-Fluorobiphenyl (S)	%				74	39-120	
2-Fluorophenol (S)	%				41	17-120	
Nitrobenzene-d5 (S)	%				70	33-120	
Phenol-d6 (S)	%				26	11-120	
Terphenyl-d14 (S)	%				79	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 4-29-14

Pace Project No.: 60168079

QC Batch: WET/47639

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60168079001

METHOD BLANK: 1370735

Matrix: Water

Associated Lab Samples: 60168079001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	05/02/14 07:13	

LABORATORY CONTROL SAMPLE: 1370736

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: 1370739

Parameter	Units	60168116002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40	38.1	93	78-114	

SAMPLE DUPLICATE: 1370740

Parameter	Units	60167726002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	16.5	16.6	1	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 4-29-14

Pace Project No.: 60168079

QC Batch: WET/47684

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60168079001

METHOD BLANK: 1372364

Matrix: Water

Associated Lab Samples: 60168079001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	05/06/14 07:12	

LABORATORY CONTROL SAMPLE: 1372365

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	20.4	102	64-132	

MATRIX SPIKE SAMPLE: 1372384

Parameter	Units	60167834001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	21.3	31.0	137	64-132	M1

SAMPLE DUPLICATE: 1372385

Parameter	Units	60166641004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	ND		34	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 4-29-14

Pace Project No.: 60168079

QC Batch: WET/47611

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60168079001

METHOD BLANK: 1369461

Matrix: Water

Associated Lab Samples: 60168079001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	04/30/14 10:32	

SAMPLE DUPLICATE: 1369462

Parameter	Units	60167832001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		10	

SAMPLE DUPLICATE: 1369463

Parameter	Units	60168067002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	8.0	8.0	0	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 4-29-14

Pace Project No.: 60168079

QC Batch:	WET/47619	Analysis Method:	SM 4500-H+B
QC Batch Method:	SM 4500-H+B	Analysis Description:	4500H+B pH
Associated Lab Samples:	60168079001		

SAMPLE DUPLICATE: 1369902

Parameter	Units	60167906001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.3	1	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 4-29-14

Pace Project No.: 60168079

QC Batch: WET/47615

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60168079001

METHOD BLANK: 1369705

Matrix: Water

Associated Lab Samples: 60168079001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	05/05/14 17:59	

LABORATORY CONTROL SAMPLE: 1369706

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	211	107	85-115	

SAMPLE DUPLICATE: 1369707

Parameter	Units	60168088001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	56.9	49.4	14	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 4-29-14

Pace Project No.: 60168079

QC Batch: WETA/29232

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60168079001

METHOD BLANK: 1370096

Matrix: Water

Associated Lab Samples: 60168079001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	05/01/14 15:05	

LABORATORY CONTROL SAMPLE: 1370097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	1.9	97	90-110	

MATRIX SPIKE SAMPLE: 1370098

Parameter	Units	60167695002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.3	113	90-110	M1

MATRIX SPIKE SAMPLE: 1370099

Parameter	Units	60167696002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	11.7	10	19.9	82	90-110	M1

SAMPLE DUPLICATE: 1370100

Parameter	Units	60167699006 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 CB 4-29-14

Pace Project No.: 60168079

QC Batch:	WETA/29310	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60168079001		

METHOD BLANK: 1373080 Matrix: Water

Associated Lab Samples: 60168079001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	05/07/14 11:00	

LABORATORY CONTROL SAMPLE: 1373081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	53.8	108	90-110	

MATRIX SPIKE SAMPLE: 1373082

Parameter	Units	60167664001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	2250	1000	3110	86	90-110	M1

SAMPLE DUPLICATE: 1373226

Parameter	Units	60167832001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	11.0	15.3	33	25	D6

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF CB 4-29-14

Pace Project No.: 60168079

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/61249

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

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

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

N2 The lab does not hold TNI accreditation for this parameter.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF CB 4-29-14

Pace Project No.: 60168079

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60168079001	CB 4-29-14	EPA 200.7	MPRP/27077	EPA 200.7	ICP/20542
60168079001	CB 4-29-14	EPA 200.7	MPRP/27096	EPA 200.7	ICP/20550
60168079001	CB 4-29-14	EPA 245.1	MERP/8363	EPA 245.1	MERC/8317
60168079001	CB 4-29-14	EPA 245.1	MERP/8371	EPA 245.1	MERC/8324
60168079001	CB 4-29-14	EPA 625	OEXT/43987	EPA 625	MSSV/14062
60168079001	CB 4-29-14	EPA 624 Low	MSV/61249		
60168079002	TRIP BLANK	EPA 624 Low	MSV/61249		
60168079001	CB 4-29-14	EPA 1664A	WET/47639		
60168079001	CB 4-29-14	EPA 1664A	WET/47684		
60168079001	CB 4-29-14	SM 2540D	WET/47611		
60168079001	CB 4-29-14	SM 4500-H+B	WET/47619		
60168079001	CB 4-29-14	SM 5210B	WET/47615	SM 5210B	WET/47705
60168079001	CB 4-29-14	EPA 350.1	WETA/29232		
60168079001	CB 4-29-14	EPA 410.4	WETA/29310		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60168079



Client Name: Larr

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.
(circle one)

Cooler Temperature: 3.4

Date and initials of person examining contents: pu 4/14/14

Temperature should be above freezing to 6°C

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☒ Yes ☐ No ☐ N/A	6. <u>Boil PH</u>
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	9.
Pace containers used:	☒ Yes ☐ No ☐ N/A	9.
Containers intact:	☒ Yes ☐ No ☐ N/A	10. <u>DGGT received for VOC.</u>
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	11. <u>ANALYZE IN THIS A</u>
Filtered volume received for dissolved tests?	☐ Yes ☐ No ☒ N/A	12. <u>ETRY</u>
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	13.
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	14. <u>Added 2.5 ml of HNO3 to BP3N. PH 6.0/4.0</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	☒ Yes ☒ No ☐ N/A	14. <u>Added 2.0 ml of H2SO4 to BP35. PH 6.0/1.5</u>
Exceptions: <u>VOA</u> coliform, TOC, <u>O&G</u> WI-DRO (water), Phenolics	☒ Yes ☐ No	Initial when completed <u>pu</u> Lot # of added preservative <u>12513</u> <u>12522</u>
Trip Blank present:	☒ Yes ☐ No ☐ N/A	15.
Pace Trip Blank lot # (if purchased): <u>032414-1</u>		15.
Headspace in VOA vials (>6mm):	☐ Yes ☒ No ☐ N/A	16.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ N/A	17. List State: <u>NC</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: 4/14/14

May 08, 2014

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

RE: Project: BRIDGETON LF CB 04-30-14
Pace Project No.: 60168186

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 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: Bill Abernathy, Feezor Engineering
Kelly Caddy, Barr Engineering
DAN FEEZOR, FEEZOR ENGINEERING
Dana B. Pasi, Barr Engineering Co.
Brian Power, Republic Services
Brian Sehie, Republic Services
Margaret Treanor, Barr Engineering Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF CB 04-30-14

Pace Project No.: 60168186

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 CB 04-30-14

Pace Project No.: 60168186

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60168186001	CB 04-30-14	Water	04/30/14 12:49	05/01/14 00:30
60168186002	TRIP BLANK	Water	04/30/14 00:00	05/01/14 00:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF CB 04-30-14

Pace Project No.: 60168186

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60168186001	CB 04-30-14	EPA 200.7	NDJ	15
		EPA 200.7	SMW	15
		EPA 245.1	NDJ	1
		EPA 245.1	NDJ	1
		EPA 625	JMT	18
		EPA 624 Low	EAK	28
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAH	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	JML	1
		EPA 624 Low	EAK	28
60168186002	TRIP BLANK			

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 04-30-14

Pace Project No.: 60168186

Sample: CB 04-30-14		Lab ID: 60168186001	Collected: 04/30/14 12:49	Received: 05/01/14 00:30	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	12800	ug/L	750	2	05/01/14 16:30	05/02/14 16:25	7429-90-5	
Antimony	50.8	ug/L	50.0	1	05/01/14 16:30	05/02/14 16:22	7440-36-0	
Arsenic	1130	ug/L	50.0	1	05/01/14 16:30	05/02/14 16:22	7440-38-2	
Beryllium	ND	ug/L	5.0	1	05/01/14 16:30	05/02/14 16:22	7440-41-7	
Cadmium	ND	ug/L	25.0	1	05/01/14 16:30	05/02/14 16:22	7440-43-9	
Chromium	250	ug/L	25.0	1	05/01/14 16:30	05/02/14 16:22	7440-47-3	
Cobalt	41.2	ug/L	25.0	1	05/01/14 16:30	05/02/14 16:22	7440-48-4	
Copper	ND	ug/L	50.0	1	05/01/14 16:30	05/02/14 16:22	7440-50-8	
Iron	760000	ug/L	250	1	05/01/14 16:30	05/02/14 16:22	7439-89-6	
Lead	117	ug/L	25.0	1	05/01/14 16:30	05/02/14 16:22	7439-92-1	
Nickel	113	ug/L	25.0	1	05/01/14 16:30	05/02/14 16:22	7440-02-0	
Selenium	ND	ug/L	75.0	1	05/01/14 16:30	05/02/14 16:22	7782-49-2	
Silver	ND	ug/L	35.0	1	05/01/14 16:30	05/02/14 16:22	7440-22-4	
Thallium	ND	ug/L	100	1	05/01/14 16:30	05/02/14 16:22	7440-28-0	
Zinc	5760	ug/L	500	2	05/01/14 16:30	05/02/14 16:25	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	1230	ug/L	750	2	05/02/14 15:50	05/06/14 11:46	7429-90-5	D3
Antimony, Dissolved	ND	ug/L	100	2	05/02/14 15:50	05/06/14 11:46	7440-36-0	
Arsenic, Dissolved	714	ug/L	50.0	1	05/02/14 15:50	05/06/14 11:36	7440-38-2	
Beryllium, Dissolved	ND	ug/L	5.0	1	05/02/14 15:50	05/06/14 11:36	7440-41-7	
Cadmium, Dissolved	ND	ug/L	25.0	1	05/02/14 15:50	05/06/14 11:36	7440-43-9	
Chromium, Dissolved	148	ug/L	25.0	1	05/02/14 15:50	05/06/14 11:36	7440-47-3	
Cobalt, Dissolved	ND	ug/L	25.0	1	05/02/14 15:50	05/06/14 11:36	7440-48-4	
Copper, Dissolved	ND	ug/L	50.0	1	05/02/14 15:50	05/06/14 11:36	7440-50-8	
Iron, Dissolved	301000	ug/L	250	1	05/02/14 15:50	05/06/14 11:36	7439-89-6	
Lead, Dissolved	28.0	ug/L	25.0	1	05/02/14 15:50	05/06/14 11:36	7439-92-1	
Nickel, Dissolved	79.6	ug/L	25.0	1	05/02/14 15:50	05/06/14 11:36	7440-02-0	
Selenium, Dissolved	ND	ug/L	75.0	1	05/02/14 15:50	05/06/14 11:36	7782-49-2	
Silver, Dissolved	ND	ug/L	35.0	1	05/02/14 15:50	05/06/14 11:36	7440-22-4	
Thallium, Dissolved	ND	ug/L	100	1	05/02/14 15:50	05/06/14 11:36	7440-28-0	
Zinc, Dissolved	4130	ug/L	500	2	05/02/14 15:50	05/06/14 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	05/02/14 15:45	05/05/14 12:42	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND	ug/L	6.0	1	05/06/14 17:00	05/07/14 10:47	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	2	05/05/14 00:00	05/06/14 10:14	534-52-1	
Hexachloro-1,3-butadiene	ND	ug/L	1000	2	05/05/14 00:00	05/06/14 10:14	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	1000	2	05/05/14 00:00	05/06/14 10:14	77-47-4	
Hexachloroethane	ND	ug/L	1000	2	05/05/14 00:00	05/06/14 10:14	67-72-1	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	2	05/05/14 00:00	05/06/14 10:14	95-48-7	N2
3&4-Methylphenol(m&p Cresol)	7870	ug/L	4000	2	05/05/14 00:00	05/06/14 10:14		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 04-30-14

Pace Project No.: 60168186

Sample: CB 04-30-14		Lab ID: 60168186001	Collected: 04/30/14 12:49	Received: 05/01/14 00:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Naphthalene	1320 ug/L		1000	2	05/05/14 00:00	05/06/14 10:14	91-20-3	
Nitrobenzene	ND ug/L		1000	2	05/05/14 00:00	05/06/14 10:14	98-95-3	
Pentachlorophenol	ND ug/L		1000	2	05/05/14 00:00	05/06/14 10:14	87-86-5	
Phenol	10600 ug/L		1000	2	05/05/14 00:00	05/06/14 10:14	108-95-2	
1,2,4-Trichlorobenzene	ND ug/L		1000	2	05/05/14 00:00	05/06/14 10:14	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	2	05/05/14 00:00	05/06/14 10:14	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	131 %		33-120	2	05/05/14 00:00	05/06/14 10:14	4165-60-0	S0
2-Fluorobiphenyl (S)	67 %		39-120	2	05/05/14 00:00	05/06/14 10:14	321-60-8	
Terphenyl-d14 (S)	64 %		45-120	2	05/05/14 00:00	05/06/14 10:14	1718-51-0	
Phenol-d6 (S)	31 %		11-120	2	05/05/14 00:00	05/06/14 10:14	13127-88-3	
2-Fluorophenol (S)	42 %		17-120	2	05/05/14 00:00	05/06/14 10:14	367-12-4	
2,4,6-Tribromophenol (S)	73 %		39-120	2	05/05/14 00:00	05/06/14 10:14	118-79-6	
624 Volatile Organics		Analytical Method: EPA 624 Low						
Acetone	120000 ug/L		2500	250		05/01/14 15:01	67-64-1	N2
Benzene	ND ug/L		250	250		05/01/14 15:01	71-43-2	
Bromodichloromethane	ND ug/L		250	250		05/01/14 15:01	75-27-4	
Bromoform	ND ug/L		250	250		05/01/14 15:01	75-25-2	
Bromomethane	ND ug/L		1250	250		05/01/14 15:01	74-83-9	
2-Butanone (MEK)	49800 ug/L		2500	250		05/01/14 15:01	78-93-3	N2
Carbon tetrachloride	ND ug/L		250	250		05/01/14 15:01	56-23-5	
Chloroethane	ND ug/L		250	250		05/01/14 15:01	75-00-3	
Chloroform	ND ug/L		250	250		05/01/14 15:01	67-66-3	
1,4-Dichlorobenzene	494 ug/L		250	250		05/01/14 15:01	106-46-7	
1,2-Dichloroethane	ND ug/L		250	250		05/01/14 15:01	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		250	250		05/01/14 15:01	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		250	250		05/01/14 15:01	156-60-5	
Ethylbenzene	ND ug/L		250	250		05/01/14 15:01	100-41-4	
Methylene chloride	ND ug/L		250	250		05/01/14 15:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		2500	250		05/01/14 15:01	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		250	250		05/01/14 15:01	79-34-5	N2
Tetrachloroethene	ND ug/L		250	250		05/01/14 15:01	127-18-4	
Toluene	ND ug/L		250	250		05/01/14 15:01	108-88-3	
1,1,1-Trichloroethane	ND ug/L		250	250		05/01/14 15:01	71-55-6	
1,1,2-Trichloroethane	ND ug/L		250	250		05/01/14 15:01	79-00-5	
Trichloroethene	ND ug/L		250	250		05/01/14 15:01	79-01-6	
Vinyl chloride	ND ug/L		250	250		05/01/14 15:01	75-01-4	
Xylene (Total)	ND ug/L		750	250		05/01/14 15:01	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101 %		80-120	250		05/01/14 15:01	460-00-4	
Toluene-d8 (S)	100 %		80-120	250		05/01/14 15:01	2037-26-5	
1,2-Dichloroethane-d4 (S)	96 %		80-120	250		05/01/14 15:01	17060-07-0	
Preservation pH	6.0		1.0	250		05/01/14 15:01		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	890 mg/L		5.0	1		05/06/14 07:16		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 04-30-14

Pace Project No.: 60168186

Sample: CB 04-30-14		Lab ID: 60168186001	Collected: 04/30/14 12:49	Received: 05/01/14 00:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	9.6	mg/L	5.0	1		05/08/14 07:04		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	4500	mg/L	5.0	1		05/02/14 09:27		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.3	Std. Units	0.10	1		05/08/14 12:10		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	323	mg/L	2.0	1	05/02/14 10:55	05/07/14 14:19		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	621	mg/L	20.0	200		05/04/14 14:10	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	57100	mg/L	5000	500		05/08/14 10:46		

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ANALYTICAL RESULTS

Project: BRIDGETON LF CB 04-30-14

Pace Project No.: 60168186

Sample: TRIP BLANK		Lab ID: 60168186002	Collected: 04/30/14 00:00	Received: 05/01/14 00:30	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		05/01/14 15:16	67-64-1	N2
Benzene	ND ug/L		1.0	1		05/01/14 15:16	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		05/01/14 15:16	75-27-4	
Bromoform	ND ug/L		1.0	1		05/01/14 15:16	75-25-2	
Bromomethane	ND ug/L		5.0	1		05/01/14 15:16	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		05/01/14 15:16	78-93-3	N2
Carbon tetrachloride	ND ug/L		1.0	1		05/01/14 15:16	56-23-5	
Chloroethane	ND ug/L		1.0	1		05/01/14 15:16	75-00-3	
Chloroform	ND ug/L		1.0	1		05/01/14 15:16	67-66-3	
1,4-Dichlorobenzene	ND ug/L		1.0	1		05/01/14 15:16	106-46-7	
1,2-Dichloroethane	ND ug/L		1.0	1		05/01/14 15:16	107-06-2	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		05/01/14 15:16	156-59-2	N2
trans-1,2-Dichloroethene	ND ug/L		1.0	1		05/01/14 15:16	156-60-5	
Ethylbenzene	ND ug/L		1.0	1		05/01/14 15:16	100-41-4	
Methylene chloride	ND ug/L		1.0	1		05/01/14 15:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		05/01/14 15:16	108-10-1	N2
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		05/01/14 15:16	79-34-5	N2
Tetrachloroethene	ND ug/L		1.0	1		05/01/14 15:16	127-18-4	
Toluene	ND ug/L		1.0	1		05/01/14 15:16	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		05/01/14 15:16	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		05/01/14 15:16	79-00-5	
Trichloroethene	ND ug/L		1.0	1		05/01/14 15:16	79-01-6	
Vinyl chloride	ND ug/L		1.0	1		05/01/14 15:16	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		05/01/14 15:16	1330-20-7	N2
Surrogates								
4-Bromofluorobenzene (S)	101 %		80-120	1		05/01/14 15:16	460-00-4	
Toluene-d8 (S)	101 %		80-120	1		05/01/14 15:16	2037-26-5	
1,2-Dichloroethane-d4 (S)	96 %		80-120	1		05/01/14 15:16	17060-07-0	
Preservation pH	6.0		1.0	1		05/01/14 15:16		

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-30-14

Pace Project No.: 60168186

QC Batch:	MERP/8363	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60168186001		

METHOD BLANK: 1371318 Matrix: Water

Associated Lab Samples: 60168186001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/05/14 12:15	

LABORATORY CONTROL SAMPLE: 1371319

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.4	88	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1371320 1371321

Parameter	Units	60168079001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	29.7	150	150	179	171	100	94	70-130	5	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-30-14

Pace Project No.: 60168186

QC Batch: MERP/8371

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60168186001

METHOD BLANK: 1373053

Matrix: Water

Associated Lab Samples: 60168186001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	05/07/14 10:36	

LABORATORY CONTROL SAMPLE: 1373054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.1	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1373055 1373056

Parameter	Units	60168186001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	150	150	120	121	80	81	70-130	1	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-30-14

Pace Project No.: 60168186

QC Batch: MPRP/27077

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Associated Lab Samples: 60168186001

METHOD BLANK: 1370535

Matrix: Water

Associated Lab Samples: 60168186001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	05/02/14 15:51	
Antimony	ug/L	ND	10.0	05/02/14 15:51	
Arsenic	ug/L	ND	10.0	05/02/14 15:51	
Beryllium	ug/L	ND	1.0	05/02/14 15:51	
Cadmium	ug/L	ND	5.0	05/02/14 15:51	
Chromium	ug/L	ND	5.0	05/02/14 15:51	
Cobalt	ug/L	ND	5.0	05/02/14 15:51	
Copper	ug/L	ND	10.0	05/02/14 15:51	
Iron	ug/L	ND	50.0	05/02/14 15:51	
Lead	ug/L	ND	5.0	05/02/14 15:51	
Nickel	ug/L	ND	5.0	05/02/14 15:51	
Selenium	ug/L	ND	15.0	05/02/14 15:51	
Silver	ug/L	ND	7.0	05/02/14 15:51	
Thallium	ug/L	ND	20.0	05/02/14 15:51	
Zinc	ug/L	ND	50.0	05/02/14 15:51	

LABORATORY CONTROL SAMPLE: 1370536

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10400	104	85-115	
Antimony	ug/L	1000	1020	102	85-115	
Arsenic	ug/L	1000	978	98	85-115	
Beryllium	ug/L	1000	1050	105	85-115	
Cadmium	ug/L	1000	996	100	85-115	
Chromium	ug/L	1000	1040	104	85-115	
Cobalt	ug/L	1000	1050	105	85-115	
Copper	ug/L	1000	1030	103	85-115	
Iron	ug/L	10000	10400	104	85-115	
Lead	ug/L	1000	1050	105	85-115	
Nickel	ug/L	1000	1050	105	85-115	
Selenium	ug/L	1000	1020	102	85-115	
Silver	ug/L	500	507	101	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	1040	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1370537

1370538

Parameter	Units	6016825001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum	ug/L	1780	10000	10000	12900	13400	111	116	70-130	4	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-30-14

Pace Project No.: 60168186

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1370537 1370538											
Parameter	Units	60167825001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max
		Result	Conc.	Spike	Spike						
				Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD
Antimony	ug/L	ND	1000	1000	1000	978	1020	98	102	70-130	4
Arsenic	ug/L	ND	1000	1000	1000	951	991	95	99	70-130	4
Beryllium	ug/L	ND	1000	1000	1000	1000	1040	100	104	70-130	4
Cadmium	ug/L	ND	1000	1000	1000	950	984	95	98	70-130	4
Chromium	ug/L	6.4	1000	1000	1000	984	1020	98	102	70-130	4
Cobalt	ug/L	ND	1000	1000	1000	990	1030	99	103	70-130	4
Copper	ug/L	710	1000	1000	1000	1680	1760	97	104	70-130	4
Iron	ug/L	1930	10000	10000	10000	11800	12300	99	104	70-130	4
Lead	ug/L	ND	1000	1000	1000	989	1030	99	103	70-130	4
Nickel	ug/L	ND	1000	1000	1000	990	1020	99	102	70-130	3
Selenium	ug/L	ND	1000	1000	1000	983	1020	98	102	70-130	4
Silver	ug/L	ND	500	500	500	482	501	96	100	70-130	4
Thallium	ug/L	ND	1000	1000	1000	953	988	95	99	70-130	4
Zinc	ug/L	92.5	1000	1000	1000	1070	1100	98	101	70-130	3

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-30-14

Pace Project No.: 60168186

QC Batch:	MPRP/27096	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60168186001		

METHOD BLANK: 1371162 Matrix: Water

Associated Lab Samples: 60168186001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	05/06/14 11:07	
Antimony, Dissolved	ug/L	ND	10.0	05/06/14 11:07	
Arsenic, Dissolved	ug/L	ND	10.0	05/06/14 11:07	
Beryllium, Dissolved	ug/L	ND	1.0	05/06/14 11:07	
Cadmium, Dissolved	ug/L	ND	5.0	05/06/14 11:07	
Chromium, Dissolved	ug/L	ND	5.0	05/06/14 11:07	
Cobalt, Dissolved	ug/L	ND	5.0	05/06/14 11:07	
Copper, Dissolved	ug/L	ND	10.0	05/06/14 11:07	
Iron, Dissolved	ug/L	ND	50.0	05/06/14 11:07	
Lead, Dissolved	ug/L	ND	5.0	05/06/14 11:07	
Nickel, Dissolved	ug/L	ND	5.0	05/06/14 11:07	
Selenium, Dissolved	ug/L	ND	15.0	05/06/14 11:07	
Silver, Dissolved	ug/L	ND	7.0	05/06/14 11:07	
Thallium, Dissolved	ug/L	ND	20.0	05/06/14 11:07	
Zinc, Dissolved	ug/L	ND	50.0	05/06/14 11:07	

LABORATORY CONTROL SAMPLE: 1371163

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10300	103	85-115	
Antimony, Dissolved	ug/L	1000	1030	103	85-115	
Arsenic, Dissolved	ug/L	1000	986	99	85-115	
Beryllium, Dissolved	ug/L	1000	1030	103	85-115	
Cadmium, Dissolved	ug/L	1000	1010	101	85-115	
Chromium, Dissolved	ug/L	1000	1010	101	85-115	
Cobalt, Dissolved	ug/L	1000	1020	102	85-115	
Copper, Dissolved	ug/L	1000	1000	100	85-115	
Iron, Dissolved	ug/L	10000	10300	103	85-115	
Lead, Dissolved	ug/L	1000	1020	102	85-115	
Nickel, Dissolved	ug/L	1000	1030	103	85-115	
Selenium, Dissolved	ug/L	1000	1020	102	85-115	
Silver, Dissolved	ug/L	500	498	100	85-115	
Thallium, Dissolved	ug/L	1000	1010	101	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1371164 1371165

Parameter	Units	60168079001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aluminum, Dissolved	ug/L	1300	50000	50000	52000	51200	101	100	70-130	1	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-30-14

Pace Project No.: 60168186

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1371164 1371165												
Parameter	Units	60168079001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
Antimony, Dissolved	ug/L	ND	5000	5000	5200	5130	104	102	70-130	2	7	
Arsenic, Dissolved	ug/L	764	5000	5000	5760	5680	100	98	70-130	1	10	
Beryllium, Dissolved	ug/L	ND	5000	5000	4910	4860	98	97	70-130	1	7	
Cadmium, Dissolved	ug/L	ND	5000	5000	5100	5020	102	100	70-130	2	10	
Chromium, Dissolved	ug/L	160	5000	5000	5020	4950	97	96	70-130	1	10	
Cobalt, Dissolved	ug/L	ND	5000	5000	4850	4780	97	95	70-130	1	6	
Copper, Dissolved	ug/L	ND	5000	5000	5260	5180	104	103	70-130	1	11	
Iron, Dissolved	ug/L	326000	50000	50000	322000	314000	-9	-24	70-130	2	10	M1
Lead, Dissolved	ug/L	32.5	5000	5000	4700	4640	93	92	70-130	1	10	
Nickel, Dissolved	ug/L	88.4	5000	5000	4870	4830	96	95	70-130	1	10	
Selenium, Dissolved	ug/L	ND	5000	5000	5500	5470	109	108	70-130	1	10	
Silver, Dissolved	ug/L	ND	2500	2500	2610	2580	104	103	70-130	1	10	
Thallium, Dissolved	ug/L	ND	5000	5000	4500	4420	90	88	70-130	2	6	
Zinc, Dissolved	ug/L	4620	5000	5000	8630	8500	80	77	70-130	2	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-30-14

Pace Project No.: 60168186

QC Batch:	MSV/61294	Analysis Method:	EPA 624 Low
QC Batch Method:	EPA 624 Low	Analysis Description:	624 MSV
Associated Lab Samples: 60168186001, 60168186002			

METHOD BLANK: 1370244 Matrix: Water

Associated Lab Samples: 60168186001, 60168186002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	05/01/14 13:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/01/14 13:27	N2
1,1,2-Trichloroethane	ug/L	ND	1.0	05/01/14 13:27	
1,2-Dichloroethane	ug/L	ND	1.0	05/01/14 13:27	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/01/14 13:27	
2-Butanone (MEK)	ug/L	ND	10.0	05/01/14 13:27	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	05/01/14 13:27	N2
Acetone	ug/L	ND	10.0	05/01/14 13:27	N2
Benzene	ug/L	ND	1.0	05/01/14 13:27	
Bromodichloromethane	ug/L	ND	1.0	05/01/14 13:27	
Bromoform	ug/L	ND	1.0	05/01/14 13:27	
Bromomethane	ug/L	ND	5.0	05/01/14 13:27	
Carbon tetrachloride	ug/L	ND	1.0	05/01/14 13:27	
Chloroethane	ug/L	ND	1.0	05/01/14 13:27	
Chloroform	ug/L	ND	1.0	05/01/14 13:27	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/01/14 13:27	N2
Ethylbenzene	ug/L	ND	1.0	05/01/14 13:27	
Methylene chloride	ug/L	ND	1.0	05/01/14 13:27	
Tetrachloroethene	ug/L	ND	1.0	05/01/14 13:27	
Toluene	ug/L	ND	1.0	05/01/14 13:27	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/01/14 13:27	
Trichloroethene	ug/L	ND	1.0	05/01/14 13:27	
Vinyl chloride	ug/L	ND	1.0	05/01/14 13:27	
Xylene (Total)	ug/L	ND	3.0	05/01/14 13:27	N2
1,2-Dichloroethane-d4 (S)	%	98	80-120	05/01/14 13:27	
4-Bromofluorobenzene (S)	%	100	80-120	05/01/14 13:27	
Toluene-d8 (S)	%	100	80-120	05/01/14 13:27	

LABORATORY CONTROL SAMPLE: 1370245

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.3	92	67-129	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	67-127	N2
1,1,2-Trichloroethane	ug/L	20	19.8	99	67-124	
1,2-Dichloroethane	ug/L	20	18.5	92	70-126	
1,4-Dichlorobenzene	ug/L	20	18.6	93	74-120	
2-Butanone (MEK)	ug/L	100	90.8	91	42-153	N2
4-Methyl-2-pentanone (MIBK)	ug/L	100	100	100	59-131	N2
Acetone	ug/L	100	84.8	85	38-134	N2
Benzene	ug/L	20	17.4	87	75-120	
Bromodichloromethane	ug/L	20	19.3	97	68-125	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-30-14

Pace Project No.: 60168186

LABORATORY CONTROL SAMPLE: 1370245

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	20	18.2	91	65-127	
Bromomethane	ug/L	20	10.9	54	13-157	
Carbon tetrachloride	ug/L	20	17.1	86	70-131	
Chloroethane	ug/L	20	15.9	79	47-133	
Chloroform	ug/L	20	18.8	94	65-127	
cis-1,2-Dichloroethene	ug/L	20	18.9	95	68-127	N2
Ethylbenzene	ug/L	20	20.0	100	74-122	
Methylene chloride	ug/L	20	17.8	89	64-129	
Tetrachloroethene	ug/L	20	17.3	87	73-125	
Toluene	ug/L	20	17.9	89	69-126	
trans-1,2-Dichloroethene	ug/L	20	16.5	82	66-129	
Trichloroethene	ug/L	20	17.7	89	71-123	
Vinyl chloride	ug/L	20	14.7	73	43-129	
Xylene (Total)	ug/L	60	59.9	100	75-121	N2
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE SAMPLE: 1370246

Parameter	Units	60167978001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5000	4020	80	52-155	
1,1,2,2-Tetrachloroethane	ug/L	ND	5000	4080	82	46-146	N2
1,1,2-Trichloroethane	ug/L	ND	5000	3830	77	52-143	
1,2-Dichloroethane	ug/L	ND	5000	3880	78	49-144	
1,4-Dichlorobenzene	ug/L	379	5000	4360	80	33-140	
2-Butanone (MEK)	ug/L	89900	25000	101000	44	40-160	N2
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25000	20100	76	40-160	N2
Acetone	ug/L	221000	25000	226000	18	10-160	N2
Benzene	ug/L	ND	5000	3650	72	37-151	
Bromodichloromethane	ug/L	ND	5000	4090	82	35-142	
Bromoform	ug/L	ND	5000	3610	72	45-142	
Bromomethane	ug/L	ND	5000	2120	42	10-158	
Carbon tetrachloride	ug/L	ND	5000	3890	78	70-140	
Chloroethane	ug/L	ND	5000	3660	73	19-152	
Chloroform	ug/L	ND	5000	3940	79	51-138	
cis-1,2-Dichloroethene	ug/L	ND	5000	4020	80	34-147	N2
Ethylbenzene	ug/L	ND	5000	3920	78	40-142	
Methylene chloride	ug/L	ND	5000	3850	76	31-144	
Tetrachloroethene	ug/L	ND	5000	3760	75	64-148	
Toluene	ug/L	ND	5000	3770	75	47-150	
trans-1,2-Dichloroethene	ug/L	ND	5000	3540	71	54-151	
Trichloroethene	ug/L	ND	5000	3670	73	71-149	
Vinyl chloride	ug/L	ND	5000	3490	70	22-146	
Xylene (Total)	ug/L	ND	15000	12100	81	37-144	N2
1,2-Dichloroethane-d4 (S)	%				96	80-120	
4-Bromofluorobenzene (S)	%				104	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-30-14

Pace Project No.: 60168186

MATRIX SPIKE SAMPLE: 1370246

Parameter	Units	60167978001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%				100	80-120	
Preservation pH		6.0		6.0			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-30-14

Pace Project No.: 60168186

QC Batch: OEXT/43987

Analysis Method: EPA 625

QC Batch Method: EPA 625

Analysis Description: 625 MSS

Associated Lab Samples: 60168186001

METHOD BLANK: 1371975

Matrix: Water

Associated Lab Samples: 60168186001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/06/14 09:12	
2,4,6-Trichlorophenol	ug/L	ND	5.0	05/06/14 09:12	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	05/06/14 09:12	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	20.0	05/06/14 09:12	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	05/06/14 09:12	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/06/14 09:12	
Hexachlorocyclopentadiene	ug/L	ND	5.0	05/06/14 09:12	
Hexachloroethane	ug/L	ND	5.0	05/06/14 09:12	
Naphthalene	ug/L	ND	5.0	05/06/14 09:12	
Nitrobenzene	ug/L	ND	5.0	05/06/14 09:12	
Pentachlorophenol	ug/L	ND	5.0	05/06/14 09:12	
Phenol	ug/L	ND	5.0	05/06/14 09:12	
2,4,6-Tribromophenol (S)	%	69	39-120	05/06/14 09:12	
2-Fluorobiphenyl (S)	%	68	39-120	05/06/14 09:12	
2-Fluorophenol (S)	%	42	17-120	05/06/14 09:12	
Nitrobenzene-d5 (S)	%	67	33-120	05/06/14 09:12	
Phenol-d6 (S)	%	26	11-120	05/06/14 09:12	
Terphenyl-d14 (S)	%	70	45-120	05/06/14 09:12	

LABORATORY CONTROL SAMPLE: 1371976

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	36.3	73	46-120	
2,4,6-Trichlorophenol	ug/L	50	36.4	73	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	32.3	65	40-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	50	30.0	60	34-120	N2
4,6-Dinitro-2-methylphenol	ug/L	50	43.6	87	40-133	
Hexachloro-1,3-butadiene	ug/L	50	32.5	65	44-116	
Hexachlorocyclopentadiene	ug/L	100	57.4	57	24-120	
Hexachloroethane	ug/L	50	34.3	69	43-113	
Naphthalene	ug/L	50	37.2	74	48-120	
Nitrobenzene	ug/L	50	37.0	74	48-120	
Pentachlorophenol	ug/L	50	40.1	80	47-120	
Phenol	ug/L	50	16.2	32	16-112	
2,4,6-Tribromophenol (S)	%			85	39-120	
2-Fluorobiphenyl (S)	%			74	39-120	
2-Fluorophenol (S)	%			45	17-120	
Nitrobenzene-d5 (S)	%			76	33-120	
Phenol-d6 (S)	%			30	11-120	
Terphenyl-d14 (S)	%			82	45-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-30-14

Pace Project No.: 60168186

MATRIX SPIKE SAMPLE:		1371977					
Parameter	Units	60168161002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	33.6	67	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	37.7	75	50-120	
2-Methylphenol(o-Cresol)	ug/L	ND	50	30.8	62	30-120	N2
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50	28.3	57	27-120	N2
4,6-Dinitro-2-methylphenol	ug/L	ND	50	42.6	85	10-160	
Hexachloro-1,3-butadiene	ug/L	ND	50	33.0	66	39-116	
Hexachlorocyclopentadiene	ug/L	ND	100	59.0	59	11-120	
Hexachloroethane	ug/L	ND	50	32.4	65	40-113	
Naphthalene	ug/L	ND	50	35.8	72	45-120	
Nitrobenzene	ug/L	ND	50	34.8	70	38-120	
Pentachlorophenol	ug/L	ND	50	40.8	82	43-135	
Phenol	ug/L	ND	50	14.5	29	13-112	
2,4,6-Tribromophenol (S)	%				86	39-120	
2-Fluorobiphenyl (S)	%				74	39-120	
2-Fluorophenol (S)	%				41	17-120	
Nitrobenzene-d5 (S)	%				70	33-120	
Phenol-d6 (S)	%				26	11-120	
Terphenyl-d14 (S)	%				79	45-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-30-14

Pace Project No.: 60168186

QC Batch:	WET/47686	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60168186001		

METHOD BLANK: 1372377 Matrix: Water

Associated Lab Samples: 60168186001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	05/06/14 07:16	

LABORATORY CONTROL SAMPLE: 1372378

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: 1372381

Parameter	Units	60167825003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	41.7	41.0	95	78-114	

SAMPLE DUPLICATE: 1372382

Parameter	Units	60167844001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	1.5J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-30-14

Pace Project No.: 60168186

QC Batch: WET/47730

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60168186001

METHOD BLANK: 1373936

Matrix: Water

Associated Lab Samples: 60168186001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	05/08/14 07:03	

LABORATORY CONTROL SAMPLE: 1373937

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	19.9	100	64-132	

MATRIX SPIKE SAMPLE: 1373938

Parameter	Units	60167783001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20.4	16.3	73	64-132	

SAMPLE DUPLICATE: 1373939

Parameter	Units	60168096001 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 CB 04-30-14

Pace Project No.: 60168186

QC Batch: WET/47643

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60168186001

METHOD BLANK: 1370786

Matrix: Water

Associated Lab Samples: 60168186001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	05/02/14 09:25	

SAMPLE DUPLICATE: 1370787

Parameter	Units	60168224001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	6.0	6.0	0	10	

SAMPLE DUPLICATE: 1370788

Parameter	Units	60168156002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	1590	1580	1	10	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-30-14

Pace Project No.: 60168186

QC Batch: WET/47748 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60168186001

SAMPLE DUPLICATE: 1374309

Parameter	Units	60168186001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.3	5.3	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-30-14

Pace Project No.: 60168186

QC Batch: WET/47653

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60168186001

METHOD BLANK: 1370861

Matrix: Water

Associated Lab Samples: 60168186001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	05/07/14 13:56	

LABORATORY CONTROL SAMPLE: 1370862

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	204	103	85-115	

SAMPLE DUPLICATE: 1370863

Parameter	Units	60168165002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	4.6	4.0	14	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-30-14

Pace Project No.: 60168186

QC Batch: WETA/29272

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60168186001

METHOD BLANK: 1371950

Matrix: Water

Associated Lab Samples: 60168186001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	05/04/14 13:43	

LABORATORY CONTROL SAMPLE: 1371951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.1	107	90-110	

MATRIX SPIKE SAMPLE: 1371952

Parameter	Units	60167918001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.15	2	2.5	118	90-110	M1

MATRIX SPIKE SAMPLE: 1371953

Parameter	Units	60167983001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.31	2	1.3	48	90-110	M1

SAMPLE DUPLICATE: 1371954

Parameter	Units	60168004003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	9.2	9.0	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF CB 04-30-14

Pace Project No.: 60168186

QC Batch:	WETA/29325	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60168186001		

METHOD BLANK: 1373607 Matrix: Water
Associated Lab Samples: 60168186001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	05/08/14 10:26	

LABORATORY CONTROL SAMPLE: 1373608

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: 1373609

Parameter	Units	60167831003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	12.6	50	55.2	85	90-110	M1

MATRIX SPIKE SAMPLE: 1373611

Parameter	Units	60167800001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	78.2	50	125	93	90-110	

SAMPLE DUPLICATE: 1373610

Parameter	Units	60167905004 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	2920	2810	4	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF CB 04-30-14

Pace Project No.: 60168186

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 LF CB 04-30-14

Pace Project No.: 60168186

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60168186001	CB 04-30-14	EPA 200.7	MPRP/27077	EPA 200.7	ICP/20542
60168186001	CB 04-30-14	EPA 200.7	MPRP/27096	EPA 200.7	ICP/20550
60168186001	CB 04-30-14	EPA 245.1	MERP/8363	EPA 245.1	MERC/8317
60168186001	CB 04-30-14	EPA 245.1	MERP/8371	EPA 245.1	MERC/8324
60168186001	CB 04-30-14	EPA 625	OEXT/43987	EPA 625	MSSV/14062
60168186001	CB 04-30-14	EPA 624 Low	MSV/61294		
60168186002	TRIP BLANK	EPA 624 Low	MSV/61294		
60168186001	CB 04-30-14	EPA 1664A	WET/47686		
60168186001	CB 04-30-14	EPA 1664A	WET/47730		
60168186001	CB 04-30-14	SM 2540D	WET/47643		
60168186001	CB 04-30-14	SM 4500-H+B	WET/47748		
60168186001	CB 04-30-14	SM 5210B	WET/47653	SM 5210B	WET/47726
60168186001	CB 04-30-14	EPA 350.1	WETA/29272		
60168186001	CB 04-30-14	EPA 410.4	WETA/29325		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60168186



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 ☒ 2 PIC

Thermometer Used: T-239 / T-194

Type of Ice: Wet Blue ☐ None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 3-4

Date and initials of person examining contents: 12/5/14

Temperature should be above freezing to 6°C

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☒ Yes ☐ No ☐ N/A	6. <u>BOD PH</u>
Rush Turn Around Time requested:	☐ Yes ☒ No ☐ N/A	7.
Sufficient volume:	☒ Yes ☐ No ☐ N/A	8.
Correct containers used:	☒ Yes ☐ No ☐ N/A	9.
Pace containers used:	☒ Yes ☐ No ☐ N/A	10.
Containers intact:	☒ Yes ☐ No ☐ N/A	11.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☒ N/A	12.
Filtered volume received for dissolved tests?	☐ Yes ☐ No ☒ N/A	13.
Sample labels match COC:	☒ Yes ☐ No ☐ N/A	14.
Includes date/time/ID/analyses Matrix:	<u>WT</u>	15.
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	16.
All containers needing preservation are found to be in compliance with EPA recommendation.	☒ Yes ☐ No ☐ N/A	17.
Exceptions: <u>VOA</u> coliform, TOC, O&G, WI-DRO (water), Phenolics	☒ Yes ☐ No	18.
Trip Blank present:	☒ Yes ☐ No ☐ N/A	19.
Pace Trip Blank lot # (if purchased): <u>012714-3</u>		20.
Headspace in VOA vials (>6mm):	☐ Yes ☒ No ☐ N/A	21.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☒ N/A	22.

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: 12/14

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

Page : 1 Of 1

Regulatory Agency
State / Location
Missouri

[illegible]